#### SITE MITIGATION REPORT Project #150-504B

JACK M. HOLLAND, SR. 16301 EAST 14th STREET SAN LEANDRO, CALIFORNIA

12-9-98

PREPARED BY ENVIRONMENTAL BIO-SYSTEMS, INC. FOR ESTATE OF JACK M. HOLLAND, SENIOR

DAVE A. SADOFF

Dave A. Sadoff

California Registered Geologist No. 626

9 December 1998

### TABLE OF CONTENTS

SECTION	<u>PAGE</u>
1. INTRODUCTION	· 1
2. <u>SCOPE OF WORK</u>	1
3. SITE LOCATION AND DESCRIPTION	3
3.1. Location and Use	3
3.2. Regional Geology	3
3.2.1. Hydrogeological Setting	4
4. PREVIOUS ENVIRONMENTAL WORK	<u>.</u> 4
5. <u>TASK I</u>	5
5.1. Work Plan	
5.2. Health and Safety Plan	6
5.3. <u>Field Work</u>	6
5.3.1. <u>Air Monitoring</u>	
5.3.2, Inventory Area Construction and Container Collection	
5.3.3. <u>Drum Content Sampling and Analyses</u>	7
5.4. Waste Disposal	
5.4.1. Oily Water	
5.4.2. Oily Water with Halogens and/or High Flash Points	9
5.4.3. Oily Water with PCBs	9
5.4.4. Sodium Hypochlorite	9
5.5. <u>Drums</u>	
5.6. Miscellaneous Debris and Waste Collection	
5.6.1. Bin Content Sampling and Analyses	
5.6.1.1. Analytical Results	10
6. <u>TASK II</u>	
6.1. <u>Work Plan</u>	
6.2. Health and Safety Plan	12
6.3. <u>Permits</u>	
6.4. Field Work	13

#### Estate of Jack M. Holland Sr.

Site Mitigation Report 16301 E. 14th St. San Leandro, California

6.4.1. <u>Air</u> <u>N</u>	<u> </u>	13
	id and Sludge Removal	
6.4.3. <u>AST</u>	Demolition and Removal	14
6.4.4. <u>UST</u>	Removal	15
6.4.5. Sam	oling	17
6.4.5.1.	Soil Sampling	17
6.4.	5.1.1. Soil Sampling Methods	17
6.4.5.2.	Pit Water Sampling	18
6.4.	5.2.1. Pit Water Sampling Methods	18
6.4.6. <u>Pit</u> <u>B</u>	ackfilling	18
7. LABORATO	ORY ANALYSES AND SAMPLE RESULTS	19
7.1. <u>Laborato</u>	ory <u>Analyses</u>	19
7.1.1. <u>Anal</u>	ytical Methods	19
7.2. <u>Soil</u> <u>San</u>	<u> </u>	19
7.3. Water Sa	amples	20
9. <u>DISCUSSIO</u>	N AND RECOMMENDATIONS	23
10. <u>LIMITATI</u>	<u>ONS</u>	25
11. <u>REFEREN</u>	<u>CES</u>	25
	TABLES	
TABLE 1.	SOIL SAMPLING RESULTS	
TABLE 2.	WATER SAMPLING RESULTS	
	APPENDICES	
APPENDIX A.	FIGURES	
	FIGURE 1. SITE LOCATION MAP	
•	FIGURE 2. SITE MAP AND AST LOCATIONS	
-	FIGURE 3. UST AND SOIL SAMPLE LOCATIONS	
	FIGURE 4. SOIL SAMPLE RESULTS	
	FIGURE 5. WATER SAMPLE RESULTS	÷
APPENDIX B.	WORK PLANS	
APPENDIX C.	HEALTH AND SAFETY PLANS	
A PPENITY IT	UNIFORM HAZARDOUS WASTE MANIFESTS	

9 December 1998

### Estate of Jack M. Holland Sr. Site Mitigation Report

16301 E. 14th St. San Leandro, California

APPENDIX E.

LABORATORY REPORTS AND CHAIN OF CUSTODY

DOCUMENTATION.

APPENDIX F.

**PERMITS** 

APPENDIX G.

ASBESTOS SURVEY

APPENDIX H.

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

INSPECTION SHEET

Page iii



### **Environmental Bio-Systems, Inc.**

Innovative Solutions for a Better Environment Contractor's License A-Haz 687236

#### 1. INTRODUCTION

Environmental Bio-Systems, Inc. (EBS) performed the scope of services described within this document on behalf of the Estate of Jack M. Holland, Sr. (the Client) per the terms of EBS proposal #P98026B-R2, executed by the Client on 28 July 1998. The reported work was performed at 16301 East 14th Street in San Leandro, California (the site) to comply with a mandate from the Alameda County District Attorney's Office.

The principal project contacts are:

Client: Ms. Anne Marie Holland Tiers, Executor of the Jack M. Holland, Sr. Estate, 1498 Hamrick Lane, Hayward, CA 94544, (510) 782-4307.

Consultant: Dave A. Sadoff, Project Manager, Environmental Bio-Systems, Inc., P.O. Box 7171, San Jose, CA 95150-7171, (408) 979-8600.

#### 2. SCOPE OF WORK

The project was organized into two phases, identified as Task I and Task II. Task I of the project encompassed the disposal of approximately 180 containers (and their contents) ranging in size between 1-quart and 55-gallons from the subject site. Task II included demolition and disposal of 20 above-ground storage tanks (ASTs) and the excavation and removal of 8 underground storage tanks (USTs). Appendix A contains a site location map (Figure 1), a site map with AST locations (Figure 2), a site map with UST locations (Figure 3), a map depicting soil sample locations and results (Figure 4), and a map depicting tank pit water sample locations and results (Figure 5).

Phone: (408)979-8600 Fax: (408)264-3123

Major items included in the scope of Task I included the following:

- Production of a site-specific Work Plan and a Health and Safety plan.
- Production of a detailed Work Plan.
- Construction of a bermed, visqueen sheeted drum inventory containment area where all liquid containing drums, cans, jugs and containers were placed.
- Inventory and labeling of all containers.
- Sampling and analyzing of liquids for polychlorinated biphenyls and halogenated organic compounds.
- Consolidation of compatible small container contents into 55-gallon drums.
- Removal and recycling or disposal of inventoried liquids by properly licensed transporters to properly licensed recycling/disposal facilities.
- Disposal of all evacuated liquid containers.
- Collection and proper disposal of miscellaneous project wastes including small containers, sludge, absorbent, used disposable personal protective equipment, and visqueen sheeting.

Major items included in Task II included the following:

- Production of a site-specific work plan and a health and safety plan.
- Procurement of permits from the Alameda County Fire Department (ACFD), the Alameda County Health Care Services Agency (ACHCSA), and the Bay Area Air Quality Management District (BAAQMD).
- Evacuation of liquids from the ASTs and USTs by licensed oil recycler.
- Removal and disposal of approximately 3,000 gallons of oil sludge from one of the ASTs.
- Demolition of 20 ASTs and all accessible above-ground pipelines, dispensers, and fueling equipment.
- Excavation, removal and disposal of 8 USTs.
- Backfill of resulting UST excavations using overburden soil. Benching and sloping sidewalls of the pits to reduce Client liability.
- Preparation of this report.

#### 3. SITE LOCATION AND DESCRIPTION

#### 3.1. Location and Use

The site is located at 16301 E. 14th Street in San Leandro, California. The subject property encompasses approximately three acres in a mixed commercial and residential area within an unincorporated section of Alameda County. A site location map is included as Figure 1.

The United States Geological Survey Hayward, California Quadrangle Map shows the site to be located in Section 5, Township 3 south, Range 2 west of the Mount Diablo Base and Meridian. The property is situated approximately 3 miles east of San Francisco Bay's east shoreline, and lies at an elevation of approximately 40 feet above mean sea level. The topography of the site dips gently to the west.

The site is bounded by a Little League baseball field to the south, by Edendale School to the west, and by used auto dealerships to the north and east.

Known usage of the site includes bulk fuel storage, blending, and fuel retail sales carried out approximately between 1960 and the mid-1980s. A building in the southwest portion of the lot, historically used for vehicle repair, is currently used for storage and maintenance of equipment by San Leandro Crane.

#### 3.2. Regional Geology

The site is located in the East Bay Plain Area of the San Francisco Bay drainage basin. The Hayward Fault lies approximately 1,000-feet east-northeast of the site.

The flat, alluviated lowlands are bounded to the north by the San Pablo Bay, to the east by the Hayward Fault and the Coast Range foothills, and to the south and west by the San Francisco Bay. Older alluvium in the area consists of Pliocene and Pleistocene clay, silt, sand, and gravel. These sediments were derived mainly from the hills to the east and southeast, and represent successive coalescing alluvial fans.

#### 3.2.1. Hydrogeological Setting

The subject site is situated above the San Lorenzo Cone sub-area, which consists of various sand and gravel strata within the older alluvium. Three shallow aquifers (to 400 feet bgs) have been identified for this area. These aquifers are correlative to the Niles cone sub-area Newark, Centerville, and Fremont aquifers (shallowest to deepest). Well yields from these aquifers range from a few tens of gallons per minute to over one thousand-gallons per minute.

#### 4. PREVIOUS ENVIRONMENTAL WORK

#### 1990

Crosby and Overton, Inc. (C&O) drilled and sampled five exploratory soil borings near the two diesel USTs. Soil samples collected from the borings were found to contain up to 25,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd). An unauthorized fuel release form was filed with the ACHCSA. Ground water was first encountered at approximately 15 feet below ground surface (bgs).

#### February 1996

Compliance & Closure, Inc. (CCI) directed the locating of eight USTs at the Site. CCI reportedly located three gasoline, two kerosene, two diesel, and one stoddard solvent UST.

#### **April 1996**

CCI installed and sampled three ground water monitoring wells. Soils encountered during drilling activities were described as silty clay, thin beds of silty sand and sand to 18 feet bgs.

Soil samples collected during well drilling of the wells reportedly contained up to 4,400 mg/kg total petroleum hydrocarbons as gasoline (TPHg) and 8,200 TPHd. These soil samples were also found to contain up to 0.024 mg/kg 1,4-dichlorobenzene and 0.4 mg/kg methylene chloride.

Ground water samples collected from the wells were found to contain up to 33,000 micrograms per liter ( $\mu$ g/L) TPHg,; up to 12  $\mu$ g/L benzene, 83  $\mu$ g/L toluene, 22  $\mu$ g/L ethylbenzene, and 160  $\mu$ g/L xylenes (BTEX, respectively); up to 9,700  $\mu$ g/L TPHd,; up to 41,000  $\mu$ g/L total recoverable petroleum hydrocarbons (TRPH); and up to 3.1  $\mu$ g/L 1,2-dichlorobenzene.

#### **July 1996**

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 1,400  $\mu$ g/L TPHg; 17, 5.6, 7.6 and 32  $\mu$ g/L BTEX components, respectively; and 4,600  $\mu$ g/L TPHd.

#### October 1996

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 7,300  $\mu$ g/L TPHg; 16, 8.9, 20 and 15  $\mu$ g/L BTEX components, respectively; and 14,000  $\mu$ g/L TPHd.

#### January 1997

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,600  $\mu$ g/L TPHg; 6.4  $\mu$ g/L benzene; 44  $\mu$ g/L toluene; and 2,800  $\mu$ g/L TPHd.

#### **April 1997**

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,700  $\mu$ g/L TPHg; 16, 8, 10 and 25  $\mu$ g/L BTEX components, respectively; and 500  $\mu$ g/L TPHd.

#### 5. TASK I

The construction of a bermed and lined inventory area, and the consolidation and field screening of containers and their contents was carried out between 4 and 7 August 1998. Compatible liquids were subsequently recycled or disposed of at properly licensed facilities.

#### 5.1. Work Plan

EBS drafted and submitted a Work Plan per the requirement of the ACPWA. A copy is included in Appendix B. The Work Plan was conditionally approved by Paul M. Smith, Hazardous Materials Specialist with the ACPWA, in a letter dated 13 July 1998. A copy of this letter is also included in Appendix B. Conditions for work plan approval cited by Mr. Smith included that drum crushing activities be conducted within the lined containment area; that drums containing a significant amount of sludge be properly profiled and transported to an approved facility or be rinsed out on-site; profiling of non-petroleum wastes; and the proviso that a security guard be stationed at the site during all inactive periods.

#### 5.2. Health and Safety Plan

EBS subcontracted Environmental Health Consultants, Inc. (EHCI) of Burlingame, California to provide a site-specific Health and Safety Plan (HSP) addressing work associated with Task I. They were also contracted to conduct periodic unannounced site visits to ensure compliance with the plan. The Task I HSP was written by Irene S. Fanelli, Certified Industrial Hygienist (No. 4035 CP). A copy of the plan is included in Appendix C. It was reviewed and signed by all on-site workers acknowledging their comprehension of its' contents.

A "tailgate" meeting was held at the beginning of each work day. Specific and general potential hazards related to the anticipated work, emergency procedures, and hospital location were discussed during these meetings.

#### 5.3. Field Work

#### 5.3.1. Air Monitoring

Periodic breathing space and perimeter air monitoring was conducted during field activities by Mr. Kurt Ettinger, Industrial Hygienist with EHCI. A Thermo Analytical 580 D photoionization detector (PID) was used for this purpose. The

PID was calibrated at the beginning of each work day using isobutylene calibration gas.

The highest PID readings were measured at 2 parts per million (ppm) isobutylene equivalents near the breathing zone. A reading of 10 or greater would have necessitated engineering controls (i.e. respirators). No recordable isobutylene equivalents were ever measured along the property perimeter.

#### 5.3.2. Inventory Area Construction and Container Collection

EBS contracted Zaccor Companies, Inc. of Alameda, California (Zaccor) to construct a visqueen-lined, bermed container inventory area in the area depicted on Figure 2. Zaccor is a California State Certified General A Contractor with Hazardous and Asbestos Certificates (#478799). Fifty five gallon drums found throughout the site were subsequently transferred to the inventory area on wooden pallets. The drums were labeled with a unique number which was affixed to the drum via fade-resistant marker on 3" by 5" adhesive labels. The drums were then grouped according to field observations of similar colors, drum types, and estimated age. A total of 143 drums were assembled and labeled.

Liquids in smaller containers were combined with similar-appearing liquids in 55-gallon drums within the containment area. These drums were also labeled as described above. A total of approximately 60 miscellaneous smaller containers were collected, labeled and consolidated.

#### 5.3.3. Drum Content Sampling and Analyses

Samples were collected from all 55-gallon drums by representatives of Evergreen Oil Company of Newark, California (Evergreen). The samples were then field-composited based on grouping similar appearing drums and/or contents. The composited samples were then analyzed by Evergreen at their Newark, California laboratory. This laboratory is licensed by the State of California Department of Toxic Substances Control Environmental Laboratory Accreditation Program

### Estate of Jack M. Holland Sr.

Site Mitigation Report 16301 E. 14th St. San Leandro, California

(ELAP #1900). Evergreen analyzed the composited samples for PCBs, flashpoint, total organic halogens, oil and grease percentage, pH, and gravity.

Several composite samples failed Evergreen's acceptance criteria. The contents of the drums from which these samples were collected were subsequently resampled and discretely analyzed for the analytes found at unacceptable concentrations in the composite.

Two of the drums were found to contain concentrations of PCBs above Evergreen's acceptance levels. These drums were subsequently placed into 85-gallon metal overpack drums and segregated for separate disposal. The overpack drums were labeled as containing a reportable quantity hazardous waste liquid, not otherwise specified (oil contaminated with polychlorinated biphenyls).

One drum was found to contain sodium hypochlorite. This drum was placed into an 85-gallon "poly" overpack and also segregated for separate disposal. This drum was labeled as containing hazardous waste, corrosive, not otherwise specified (sodium hypochlorite).

Approximately 28 drums were found to contain levels of total organic <u>halogens</u> or flashpoints above Evergreen's acceptance criteria. These drums were marked with a distinguishing feature to allow segregation from wastes intended for Evergreen's recycling facility.

#### 5.4. Waste Disposal

#### 5.4.1. Oily Water

A total of approximately 4,636 gallons of oily water were vacuumed from drums into trucks and transported under Uniform Hazardous Waste Manifest (UHWM) to Evergreen's facility in Newark, California on 5 and 6 August 1998. Evergreen is licensed to accept this waste stream (EPA# CAD982413262). Copies of the UHWMs are included in Appendix D. A copy of the Certificate of Recycling is also included in Appendix D.

#### 5.4.2. Oily Water with Halogens and/or High Flash Points

froc

Approximately 650 gallons of oily water with halogens were vacuumed into trucks and transported under UHWM to Solvent Services, Inc. in San Jose, California (SSI) for recycling/disposal. SSI is licensed to accept this waste stream (EPA# CAD059494310). A copy of the UHWM is included in Appendix D.

#### 5.4.3. Oily Water with PCBs

PCBS

Two drums containing approximately 100 gallons of oily water with PCBs were transported under UHWM to Safety Kleen, Inc.'s facility in Aragonite, Utah for incineration. Safety Kleen is licensed to accept this waste stream (EPA# UTD981552177). A copy of this UHWM is included in Appendix D.

#### 5.4.4. Sodium Hypochlorite

One drum containing approximately 50 gallons of sodium hypochlorite was transported under UHWM to Crosby and Overton, Inc. of Long Beach, California (C&O) for disposal. C&O is licensed to accept this waste stream (EPA# CAD028409019). A copy of this UHWM is included in Appendix D.

#### 5.5. **Drums**

Bin #1

All evacuated 55-gallon drums were crushed using a hydraulic drum crusher on 7 August 1998. The crushed drums were placed into a roll-off bin. This bin was transported to Forward, Inc. in Stockton, California for disposal on 4 September 1998. A copy of the Non-Hazardous Waste Manifest which accompanied the bin to Forward is included in Appendix D.

#### 5.6. Miscellaneous Debris and Waste Collection

Box

Approximately 60 empty containers, ranging in volume from one quart to 30-gallons in size, were placed within a second roll-off bin staged on-site. Sludge,

#### Estate of Jack M. Holland Sr.

Site Mitigation Report 16301 E. 14th St. San Leandro, California

absorbent material, used disposable personal protective equipment, and visqueen sheeting were also placed within this bin.

#### 5.6.1. Bin Content Sampling and Analyses

Bin #2

Two samples (designated Bin-A and Bin-B) were collected from random points within the second bin. This laboratory-composited sample was analyzed at Analytical Sciences of Petaluma, California (AS). AS is an ELAP certified laboratory (#2118). AS was instructed to analyze the sample for the following analyses per landfill profiling requirements:

- TPHg by EPA Method 5030 and 8015 (Modified)
- TPHd by EPA Method 5030 and 8015 (Modified)
- TRPH by Standard Method 5520F
- LUFT Metals by EPA Method 3050 and 7000 Series
- 4
- VOCs by EPA Method 8260
- SVOCs by EPA Method 8270B

Due to laboratory limitations, AS subcontracted the SVOC analysis to Sequoia Analytical of Petaluma, California (Sequoia). Sequoia is an ELAP certified laboratory (#2245).

#### 5.6.1.1. Analytical Results

Copies of the laboratory analytical reports are included in Appendix E. Composited sample <u>Bin-A and Bin-B</u> were found to contain the following:

#### A) Petroleum Hydrocarbons

- 230 milligrams per kilogram (mg/kg) TPHg
- 10,000 mg/kg TPHd
- 460,000 mg/kg TRPH

#### Estate of Jack M. Holland Sr.

Site Mitigation Report 16301 E. 14th St. San Leandro, California

#### **B:** Metals

- 9.0 mg/kg Cadmium
- 67 mg/kg Chromium
- 330 mg/kg Lead
- 800 mg/kg Zinc

#### C: VOCs

- 3,500 micrograms per kilogram (μg/kg) toluene
- 5,000 μg/kg tetrachloroethene
- 11,000 μg/kg ethylbenzene
- 26,000 μg/kg total xylenes
- 520 μg/kg isopropyl benzene
- 950 μg/kg n-propyl benzene
- 1,800 μg/kg 1,3,5-trimethylbenzene
- 600 μg/kg tert-butylbenzene
- 5,800 μg/kg 1,2,4-trimethylbenzene
- 810 μg/kg n-butylbenzene
- 2,900 μg/kg naphthalene

#### D: SVOCs

- 14,900 μg/kg acenaphthylene
- 30,000 μg/kg bis (2-ethylhexyl) phthalate
- 31,800 µg/kg 2-methylnaphthalene
- 12,300 μg/kg phenanthrene

The result attained for lead (330 mg/kg) is greater than 10 times the California Title 22 soluble threshold limit concentration (STLC). Therefore, the intended landfill (Forward) requested the sample be further analyzed per their acceptance requirements for STLC lead by EPA Method 6010A and for the Title 22 squatic bioassay by the Static Acute Bioassay Procedures for Hazardous Waste Samples, California Department of Fish and Game WPCL (November 1988).

• The sample was found to contain 39,500 micrograms per liter (μg/L) STLC lead (greater than the 5,000 μg/L level specified as hazardous waste in California Title

22); and failed the aquatic bioassay (>40% fish mortality). Copies of the analytical reports may be found in Appendix E. This waste stream was subsequently classified as a hazardous waste and could not be accepted by Forward based upon its' profile. This bin remains staged on-site pending acceptance at a Class I disposal facility.

#### 6. TASK II

EBS contracted Zaccor to demolish, flatten, and transport all 20 ASTs on 3 and 4 September 1998. The eight USTs were uncovered, inerted, and removed from the site on 8 and 9 September 1998.

#### 6.1. Work Plan

EBS generated a Work Plan specific to Task II per the requirements of the ACFD and the ACHCSA. A copy of this plan is included in Appendix B.

#### 6.2. Health and Safety Plan

A Task II specific HSP was generated by Zaccor to meet the requirements of the ACFD and the AHCSA. A copy is included in Appendix C. The Task II HSP was signed by all on-site workers prior to the commencement of work, acknowledging their comprehension of its' contents.

A "tailgate" meeting was held at the beginning of each work day. Specific and general potential hazards related to the anticipated work, emergency procedures, and hospital location were discussed during these meetings.

EBS supplied EHCI with a copy of the Task II HSP, and contracted them to conduct periodic site visits to ensure plan compliance during this phase of work.

#### 6.3. Permits

EBS procured ACFD permits for the demolition of the ASTs and the removal of the 8 USTs (permits #982041 and 982040, respectively, issued 1 September 1998). Copies of the ACFD permits are included in Appendix F.

EBS also procured a permit from the ACHCSA for the removal of the 8 USTs. ACHCSA approved the permit application on 2 September 1998. A copy of this permit is included in Appendix F.

Due to the anticipated demolition of several site structures to allow excavator access to work areas, a BAAQMD Asbestos Demolition and Renovation Notification was filed on 24 August 1998. Per the requirements of the BAAQMD Regulation 3, an Asbestos Survey was conducted of the affected structures. EBS contracted Hazardous Materials Assessment, Inc. of San Leandro, California (HMA). HMA is a California Certified Asbestos Consultant (#92-0018). None of the sampled building materials were found to contain reportable concentrations of asbestos. A copy of the Asbestos Survey is included in Appendix G. The BAAQMD issued Notification J# 28748 on 15 August 1998.

The BAAQMD was also notified of the intended UST removal per their Regulation 8, Rule 40 on 24 August 1998. Copies of all permits and notifications are included in Appendix F.

#### 6.4. Field Work

Task II field work began on 31 August and terminated on 10 September 1998. AST demolition proceeded first to increase available work area during the subsequent removal of USTs.

#### 6.4.1. Air Monitoring

Periodic breathing space and perimeter air monitoring was conducted during field activities by Mr. Kurt Ettinger, Industrial Hygienist with EHCI. A Thermo

Analytical 580 D photoionization detector (PID) was used for this purpose. The PID was calibrated at the beginning of each work day.

The highest PID readings were measured at 6 parts per million (ppm) isobutylene equivalents near the breathing zone. A reading of 10 or greater would have necessitated engineering controls (i.e. respirators). No recordable isobutylene equivalents were ever measured along the property perimeter.

#### 6.4.2. Liquid and Sludge Removal

Approximately 2,240 gallons of liquid were evacuated from the 8 USTs by vacuum truck on 31 August 1998. The liquid was transported by Evergreen to SSI under UHWM. A copy of this UHWM is included in Appendix D.

Approximately 5,200 gallons of liquid and sludge and rinsate were removed from the ASTs by vacuum truck on 3 September 1998. The liquids and sludge were transported under UHWM by Evergreen to their Newark facility for recycling. A copy of this UHWM is included in Appendix D.

Due to apparent ground water intrusion into some of the USTs, an additional 450 gallons of liquid were evacuated via vacuum truck on 8 September 1998. This liquid was transported by Foss Environmental & Infrastructure of Alameda, California (Foss) to SSI. Foss is a licensed hazardous waste hauler (EPA# CAR000030114). A copy of the UHWM which accompanied the liquid to SSI is included in Appendix D.

#### 6.4.3. AST Demolition and Removal

The ASTs were demolished and removed from the site by Zaccor on 3 and 4
September 1998. Prior to demolition, the interior space of all ASTs were
remotely checked under the direction of James Ferdinand, Fire Marshal with the
ACFD. Fire Marshal Ferdinand employed a Gastech<sup>TM</sup> lower explosive limit
(LEL) and oxygen meter to verify that the interior atmosphere of the tanks were

sufficiently below the LEL. None of the 20 ASTs were found to exhibit measurable explosive vapors (LEL = 0).

The ASTs were then demolished using an excavator-mounted shear beam. The beam was used to cold cut the ASTs. The steel tank debris was then loaded onto flatbed trucks and transported to the Shnitzer Steel scrap yard in Oakland, California for recycling.

#### 6.4.4. UST Removal

The 8 USTs were inerted, excavated, and removed from the site on 9 September 1998. The tanks were designated T1 through T8 for identification and reference purposes.

Tanks T1 and T2 were situated adjacent to each other in an end-to-end fashion. Tanks T3 and T4 were likewise situated. Tanks T5 and T6 were found to lie side by side, as were Tanks T7 and T8. The locations of these tanks and soil overburden stockpiles are depicted on Figure 3 in Appendix A.

The UST interiors were purged of flammable vapors and oxygen using dry ice. The interior atmosphere of each tank was evaluated using a Gastech<sup>TM</sup> LEL and oxygen meter to ensure each UST exhibited LEL and oxygen contents <10% prior to UST removal, per ACFD regulations. Fire Inspector Nick Chimento of the ACFD was present to observe the tank atmosphere instrument readings. All UST interior atmospheres were found to contain < 10% LEL and < 10% oxygen.

The USTs were lifted from the pits and positioned to allow exterior inspections by EBS, Inspector Chimento, and Scott Seery, Senior Hazardous Materials Specialist with the ACHCSA. A copy of the ACHCSA Inspection Sheet is included in Appendix H.

was found to be a 10,000-gallon UST of single wall bare steel construction. The tank was severely pitted, and measured 27'6" by 8'. It was used to contain

was also found to be a 10,000-gallon UST of single wall bare steel construction, with dimensions of 27' by 8'. This vessel and had two large holes in its' bottom measuring approximately 2" by 1" and 1" by ½". This tank contained

was found to be a 10,000-gallon single wall bare steel UST with dimensions of 28'6" by 8'. A hole measuring approximately 1.5" by 1" was noted on its' bottom. This tank was used to contain

Tank T4 was found to be 12,000 gallon, tar-wrapped single wall steel UST measuring 33'6" by 8'. No corrosion, pitting or holes were noted in this tank. This vessel was used to contain stoddard solvent.

Tank T5 was found to be a 5,000-gallon single wall bare steel UST with dimensions of 14' by 7'6. No corrosion, pitting or holes were observed in this vessel. This UST was used to contain kerosene,

Tank T6 was found to be a 5,000-gallon UST of single wall bare steel construction. This tank was used to contain **kerosene**, and had dimensions of 14' by 7'9". No corrosion, pitting or holes were noted in this tank.

Tank T7 was found to be a 6,000-gallon single wall bare steel UST used to contain diesel. No corrosion, pitting or holes were observed in this 16'8" by 8' tank.

Tank T8 was found to be a 5,000-gallon UST of single wall bare steel construction. This 13'6" by 7'6" vessel was used to contain diesel. No corrosion, pitting or holes were noted in this tank.

Following approval by Inspectors Chimento and Seery, the USTs were removed, loaded onto flatbed trucks and transported by ECI under hazardous waste manifest for recycling at their Richmond, California facility. Appendix D includes a copies of the UHWMs which accompanied the USTs to the ECI facility. A certificate of destruction from ECI for the USTs is also included in Appendix D.

Ground water was present in all UST depressions, and stabilized at approximately 10 feet below ground surface (bgs). A sheen was noted on ground water in each of the 5 excavations. Slight to moderate petroleum odor and a typical greenish discoloration were observed in soils excavated from around the USTs.

#### 6.4.5. Sampling

Soil and ground water sampling were performed per ACHCSA and State of California guidelines on 9 September 1998. All sampling was performed in the presence of Inspector Seery.

#### 6.4.5.1. Soil Sampling

Soil samples were collected at locations specified by Inspector Seery. The locations of all samples are depicted on Figure 4. Soil sample designations were based upon the corresponding UST designation in proximity to the sample and depth (e.g., sample T1-10' was collected near UST T1, at a depth of 10' bgs). Soil samples collected from each end of a single UST were designated with the UST designation, the number 1 or 2, and the depth (e.g., sample T4-2-10' was the second sample collected in proximity to UST T4 at a depth of 10' bgs).

Composite soil samples SS1-4 and KS1-4 were collected from the accumulated stockpile of overburden soil excavated from around the stoddard solvent and kerosene tanks, respectively. Each sample consisted of four individual samples which were laboratory composited prior to analysis.

#### 6.4.5.1.1. Soil Sampling Methods

Soil was collected from the excavations by inserting a clean stainless steel sample tube into freshly exposed soil brought up from the pit in a back-hoe bucket. A wooden mallet was used to drive each tube into the soil, packing it full to exclude head-space.

Composite stockpile samples consisted of four stainless steel tubes filled with soil at randomly selected locations. A wooden mallet was used to drive clean stainless steel sample tubes into freshly exposed soil approximately six inches to two feet beneath the pile surface.

The ends of all tubes submitted to the laboratory were covered with Teflon™ sheets and sealed with plastic end caps. The sample tubes were then labeled with a designation unique to the project and stored in an insulated cooler on top of crushed ice.

#### 6.4.5.2. Pit Water Sampling

Samples were collected from water found in the tank depressions. Water sample designations were based upon the corresponding USTs in whose depression the samples were collected (e.g., T3-H<sub>2</sub>0 was collected from water present beneath the location of UST T3). Pit water in several locations was found to co-mingle with pit water from beneath an adjacent removed UST. In this case, the water sample was designated in a fashion to illustrate the co-mingled nature of the sample (e.g. T7,8-H<sub>2</sub>0).

T3 wate "leaked" wito T7,8 and T5,6 pits

#### 6.4.5.2.1. Pit Water Sampling Methods

New disposable polyethylene bailers were lowered in the pit water, retrieved, and emptied into sample containers appropriate for the intended analysis. The containers were then labeled with a designation unique to the project and stored in an insulated cooler on top of crushed ice.

#### 6.4.6. Pit Backfilling

Following removal and off-site transportation of the USTs, the soil stockpiles were re-introduced into their respective excavations. This was done in agreement with Inspector Seery, with the intention of reducing hazard exposure associated with open excavations.

### Estate of Jack M. Holland Sr. Site Mitigation Report

16301 E. 14th St. San Leandro, California

#### 7. LABORATORY ANALYSES AND SAMPLE RESULTS

#### 7.1. Laboratory Analyses

All samples were transported to Analytical Sciences (AS) of Petaluma, California. AS is a laboratory which is accredited by ELAP to perform the indicated analyses (certification #2118). Chain of custody documentation was initiated at the site and accompanied all samples in transit to the laboratory.

Samples T1-10', T2-1-10', T2-2-10', T3-1-10', T5,6-1-10', T5,6-2-10', T1,2- $H_20$ , T3- $H_20$ , T5,6- $H_20$ , AND T7,8- $H_20$  were analyzed for TPHd, TPHg, BTEX, MTBE, and Pb. Samples T4-1-10', T4-2-10', T4- $H_20$ , and SS1-4 were analyzed for TPHss and BTEX. Sample KS1-4 was analyzed for TPHk and BTEX.

#### 7.1.1. Analytical Methods

The following methods were used by the laboratory for each of the selected analytes:

TPHg/BTEX/MTBE- EPA 5030/8015M/8020

TPHd- EPA 3550/8015M

TPHss/BTEX- EPA 3550/8015M/8020

TPHk/BTEX EPA 3550/8015M/8020

Total Lead- EPA 3050/7420

#### 7.2. Soil Samples

The results of soil sample analyses are summarized below and in Table 1. Chain of custody forms and certified laboratory analytical reports are presented in Appendix E.

Sample T1-10' was found to contain 3,900 mg/kg TPHg; 1,100 mg/kg TPHd; 10 mg/kg benzene, 16 mg/kg toluene, 6.7 mg/kg ethylbenzene, and 45 mg/kg xylenes; and 15 mg/kg Pb.

Sample T2-10' was found to contain 3,700 mg/kg TPHg; 3,200 mg/kg TPHd; 7 mg/kg benzene, 6.9 mg/kg toluene, 9.1 mg/kg ethylbenzene, and 40 mg/kg xylenes; and 15 mg/kg Pb.

Sample T2-2-10' was found to contain 3,800 mg/kg TPHg; 2,600 mg/kg TPHd; 8.7 mg/kg benzene, 11 mg/kg toluene, 9.6 mg/kg ethylbenzene and 44 mg/kg xylenes; and 17 mg/kg Pb.

Sample T3-1-10' was found to contain 1,200 mg/kg TPHg; 460 mg/kg TPHd; 3 mg/kg benzene, 5.2 mg/kg toluene, 3.3 mg/kg ethylbenzene, and 12 mg/kg xylenes; and 5 mg/kg Pb.

Sample T3-2-10' was found to contain 6,900 mg/kg TPHg; 390 mg/kg TPHd; 21 mg/kg benzene, 28 mg/kg toluene, 16 mg/kg ethylbenzene, and 100 mg/kg xylenes, and 7 mg/kg Pb.

Sample T5,6-1-10' was found to contain 1.7 mg/kg TPHg; 0.005 mg/kg benzene, 0.018 mg/kg total xylenes, and 11 mg/kg Pb. This sample was not found to contain reportable concentrations of the other chosen analytes.

Sample T5,6-2-10' was found to contain 4.0 mg/kg TPHg; 80 mg/kg TPHd; 0.039 mg/kg total xylenes, and 5 mg/kg Pb. This sample was not found to contain reportable concentrations of the other chosen analytes.

#### 7.3. Water Samples

The results of water sample analyses are summarized below and in Table 1. Chain of custody forms and certified laboratory analytical reports are presented in Appendix E.

Ground water sample T1&T2- $H_20$  was found to contain 41,000  $\mu$ g/L TPHg; 300,000  $\mu$ g/L TPHd; 1,400  $\mu$ g/L benzene, 5,400  $\mu$ g/L toluene, 1,000  $\mu$ g/L

ethylbenzene, and  $4,000 \mu g/L$  xylenes, respectively. This sample was not found to contain reportable concentrations of Pb.

Sample T3-H $_2$ 0 was found to contain 35,000 µg/L TPHg; 52,000 µg/L TPHd; 1,400 µg/L benzene, 440 µg/L toluene, 1,600 µg/L ethylbenzene, and 6,500 µg/L xylenes . This sample was not found to contain reportable concentrations of Pb.

Sample T4- $H_20$  was found to contain 490,000  $\mu$ g/L TPHss; 34  $\mu$ g/L benzene, 32  $\mu$ g/L toluene, 170  $\mu$ g/L ethylbenzene, and 660  $\mu$ g/L xylenes.

Sample T5&T6- $H_20$  was found to contain 78,000 µg/L TPHg; 67,000 µg/L TPHd; 1,500 µg/L benzene, 8,400 µg/L toluene, 1,900 µg/L ethylbenzene, and 14,000 µg/L xylenes. This sample was not found to contain reportable concentrations of Pb.

Sample T7&T8- $H_20$  was found to contain 30,000 µg/L TPHg; 1,600,000 µg/L TPHd; 700 µg/L benzene, 4,100 µg/L toluene, 760 µg/L ethylbenzene, and 6,000 µg/L xylenes. This sample was not found to contain reportable concentrations of Pb.

#### 8. SUMMARY

 The contents of 143 55-gallon steel drums and approximately 60 smaller containers were inventoried and removed from the site via vacuum truck. Approximately 4,636 total gallons of oily water were transported to Evergreen's Newark, California facility for recycling.

Approximately 650 gallons of oily water contaminated with halogenated constituents were disposed at the Solvent Service facility in San Jose, California.

Two 55-gallon drums containing approximately 100 total gallons of oily water contaminated with PCBs were placed into 85-gallon overpack drums and were transported to Safety Kleen's Aragonite, Utah facility for incineration.

One 55-gallon drum containing approximately 50 gallons of sodium hypochlorite was placed into an 85-gallon poly overpack drum and transported to Crosby and Overton's Long Beach, California facility for disposal.

- 2. All evacuated 55-gallon drums were crushed, placed into a roll-off bin, and transported to Forward's Stockton, California facility for disposal.
- 3. All of the smaller containers and miscellaneous debris encountered during the progression of the project were placed into a second roll-off bin staged on-site. The contents of this bin have been classified as a California hazardous waste due to lead content and the failure of aquatic bio-assay test. This bin remains on-site pending final disposition.
- 4. Approximately 2,690 gallons of liquid and sludge were removed from eight site USTs via vacuum truck prior to UST removal. Approximately 5,200 gallons of liquid and sludge were removed from the site ASTs by vacuum truck prior to AST dismantling and removal.
- Twenty ASTs were demolished using an excavator-mounted shear. The demolished ASTs were loaded onto flatbed trucks and transported to Shnitzer Steel's Oakland, California facility for recycling.
- 6. Eight USTs were inerted, excavated, and transported on flatbed trucks to ECI's Richmond, California facility for recycling. Seven of the USTs were found to be constructed of single-wall bare steel, the eighth was constructed of tar-wrapped single-wall steel.

Tanks T2 and T3 were observed to have large (up to 2" by 1") holes in their bottoms. Tank T1 was observed to be severely pitted.

A sheen was noted on ground water in each of the 5 tank pits. Slight to moderate petroleum odor and a typical greenish discoloration was observed in soils excavated from around the USTs.

#### Estate of Jack M. Holland Sr.

Site Mitigation Report 16301 E. 14th St. San Leandro, California

- 7. A total of nine soil samples were collected from beneath USTs T1, T2, T3, T4, T5 and T6 at the air-ground water interface (approximately 10 feet bgs). Analyses of these samples revealed the presence of up to 6,900 mg/kg TPHg; up to 21, 28, 69, and 130 mg/kg BTEX, respectively; up to 3,200 mg/kg TPHd; up to 9,600 mg/kg TPHss; and up to 11 mg/kg Pb.
- 8. One four-point composite soil sample was collected from the stoddard solvent tank overburden. This sample was not found to contain reportable concentrations of TPHss or BTEX.
- 9. One four-point composite soil sample was collected from the kerosene tank overburden. This sample was found to contain 5,200 mg/kg TPHk. This sample was not found to contain reportable concentrations of BTEX.
- 10. Accumulated pit water samples were collected from connected tank pits T1 and T2, from T3, T4, connected pits T5 and T6, and from connected pits T7 and T8. Analyses of these samples revealed the presence of up to 78,000 μg/L TPHg; up to 1,500, 8,400, 1,900, and 14,000 μg/L BTEX, respectively; up to 1,600,000 μg/L TPHd; and 490,000 μg/L TPHss. Neither MTBE nor Pb was found in any of the water samples above the laboratory reporting limits.
- 11. Soil overburden was placed back into the pits with the concurrence of the ACHCSA. No engineered compaction was performed during backfilling activities.

#### 9. <u>DISCUSSION AND RECOMMENDATIONS</u>

Above-ground items of concern to regulatory agencies (i.e. ASTs, drums, containers and their contents) have been removed from the site. The containers and their contents have been recycled or disposed at approved and certified facilities. All known site USTs have been removed and recycled at an approved and certified facility.

A significant release of TPHg, BTEX, TPHd and TPHss to site soil and ground water has occurred, most probably a result of loss of product through breaches in the tanks identified during their removal. It is likely that overfill or spillage which occurred during bulk fuel distribution operations has also contributed significantly to the release.

Assessment of the vertical and lateral extents of impact to site soil and ground water by compounds of concern was beyond the scope of this project. EBS recommends that the Client adequately characterize the site and develop a comprehensive corrective action plan which satisfies both State and Local regulations.

The client should, at this time, apply to the State of California Leaking Underground Storage Tank Cleanup Fund. The site may be eligible for reimbursement from the fund.

Copies of this report must be submitted by the Client to following concerned regulatory agencies:

- Alameda County District Attorney's Office (ACDA) Lawrence C. Blazer, 677 Oakport Street, Suite 400, Oakland, CA 94621, (510) 569-9281.
- Alameda County Health Care Services Agency (ACHCSA) Scott O. Seery, 1131 Harbor Bay Parkway, 2nd Floor, Alameda, CA 94502, (510) 567-6783.
- 3. Alameda County Public Works Agency (ACPWA) Paul Smith, 951 Turner Court, Suite 300, Hayward, CA 94545-2651, (510) 670-3236.
- 4. Alameda County Fire Department (ACFD) James Ferdinand, 100 Civic Plaza Drive, Dublin, CA 94568, (510) 833-6609.

EBS further recommends that the Client forward copies of this report to any other regulatory agencies and interested parties as required.

#### 10. LIMITATIONS

The recommendations in this report were developed in accordance with generally accepted standards of current environmental practice in California. These recommendations are time-dependent and should not be considered valid after a 1 year period from the issue of this report. After 1 year from the issue of this report, site conditions and recommendations contained within this report should be reviewed.

This study was performed solely for the purpose of evaluating environmental conditions of the site subsurface relative to hydrocarbon impact at the subject Site. No engineering or geotechnical references are implied or should be inferred.

Evaluation of the condition of the Site, for the purpose of this study, was made from a limited number of observation points. Subsurface conditions may deviate away from these points. Additional work, including further study of the subsurface, can reduce the inherent uncertainties associated with this type of work.

This study was performed, and the report was prepared for the sole use of our client, the Estate of Jack M. Holland, Sr.. This report and the findings contained herein shall not be disclosed to nor used by any other party without the prior written consent of Environmental Bio-Systems, Inc. It is the responsibility of the client to convey these recommendations to regulatory agencies and other parties, as appropriate.

The recommendations herein are professional opinions that our firm has endeavored to provide with competence and reasonable care. We are not able to eliminate the risks associated with environmental work. No guarantees or warrants, express or implied, are provided regarding our recommendations

#### 11. REFERENCES

### Estate of Jack M. Holland Sr. Site Mitigation Report

16301 E. 14th St. San Leandro, California

Compliance & Closure, Inc., <u>April 1997 Quarterly Report, Former Jack Holland Sr. Oil Company, 16301 East 145h Street, San Leandro, California, 14 April 1997.</u>

Compliance & Closure, Inc., <u>Summary of Environmental Investigation Conducted at Jack Holland Sr. Oil Company Property</u>, <u>East 14th Street</u>, <u>San Leandro</u>, <u>California</u>, 4 June 1998.

Hazardous Materials Assessment, Inc., <u>Asbestos Survey #8092, 16301 E. 14th Street, San Leandro, California</u>, 13 August 1998.

United States Geological Survey (USGS), Hayward, California <u>Topographic Map.</u> 7.5 minute series with 25-foot contour intervals, 1956, photorevised 1980.

TABLE 1: RESULTS OF SOIL SAMPLE ANALYSES

Sample #	ТРНд	benzene	toluene	ethyl-	xylenes	МТВЕ	ТРНа	TPHk	TPHss	total Pb
-	(mg/kg)	(mg/kg)	(mg/kg)	benzene (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
T1-10'	3,900	10	16	6.7	45	ND	1,100	. <b></b>		15
T2-1-10'	3,700	7.0	6.9	9.1	40	ND	3,200			15
T2-2-10'	3,800	8.7	22	9.6	44	ND	2,600		100 mg	17
T3-1-10'	1,200	3.0	5.2	3.3	12	ND	460			5.0
T3-2-10'	6,900	21	28	16	100	ND	390			7.0
T4-1-10'		ND	ND	69	130				9,600	
T4-2-10'		4.0	5.7	11	36				4,300	
T5.6-1-10'	1.7	0.005	ND	ND	0.018	ND	ND			11
T5,6-2-10'	4.0	ND	ND	ND	0.039	ND	80			5.0
SS1-4		ND	- ND	ND	ND			4-	ND	
KS1-4		ND	ND	ND	ND			5,200		

<sup>1</sup>ND:

Analyte not detected above detection limit as stated on laboratory report.

2\_\_:

Sample not analyzed for this analyte.

Note-

See laboratory reports for specific analyte detection limits.

#### Estate of Jack M. Holland Sr.

Site Mitigation Report 16301 E. 14th St. San Leandro, California

#### TABLE 2: RESULTS OF WATER SAMPLE ANALYSES

Sample #	TPHg (µg/L)	(μg/L)	toluene (µg/L)	ethyl- benzene (µg/L)	xylene s (μg/L)	MTBE (µg/L)	TPHd (µg/L)	TPHss (µg/L)	total Pb (mg/L)
T1&T2-H <sub>2</sub> 0	41,000	Take.	5,400	1,000	4,000	ND	300,000		ND
T3-H <sub>2</sub> 0	35,000	19490.	440	1,600	6,500	ND	52,000		ND
T4-H <sub>2</sub> 0		-	32	170	660		45	490,000	
T5&T6-H <sub>2</sub> 0	78,000	19800a.	8,400	1,900	14,000	ND	67,000		ND
T7&T8-H <sub>2</sub> 0	30,000	700	4,100	760	6,000	ND	1,600,000		ND

<sup>1</sup>ND-

Analyte not detected above detection limit as stated on laboratory report.

 $^{2}NA-$ 

Sample not analyzed for this analyte.

Note-

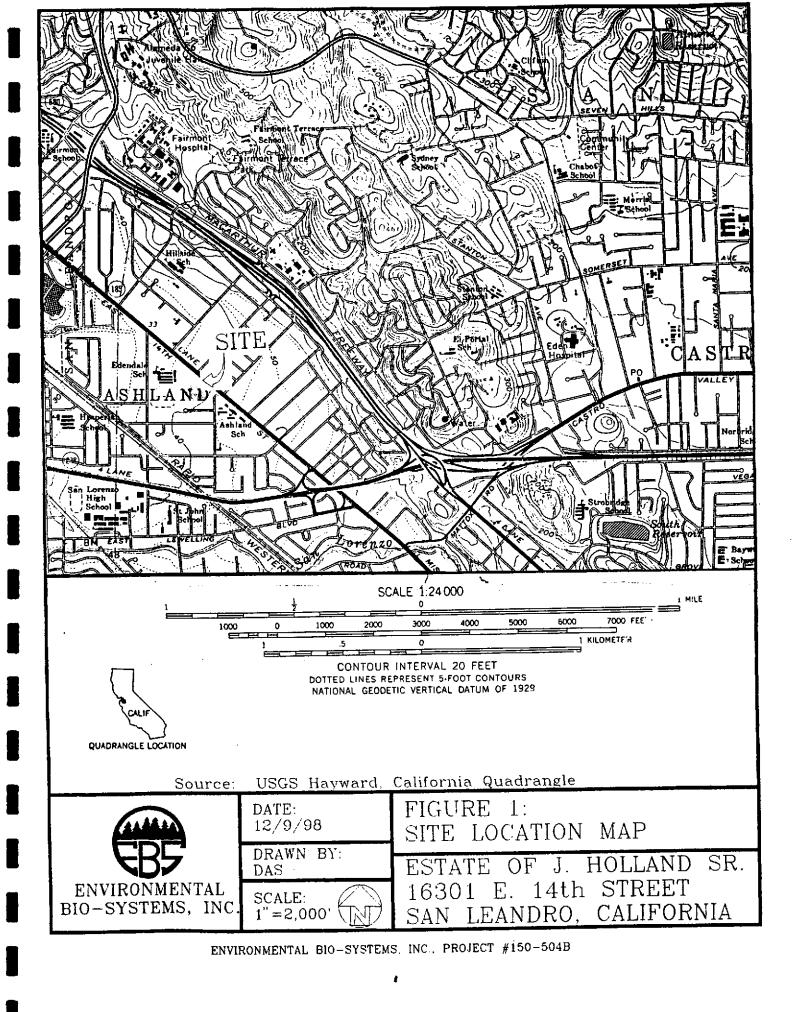
See laboratory reports for specific analyte detection limits.

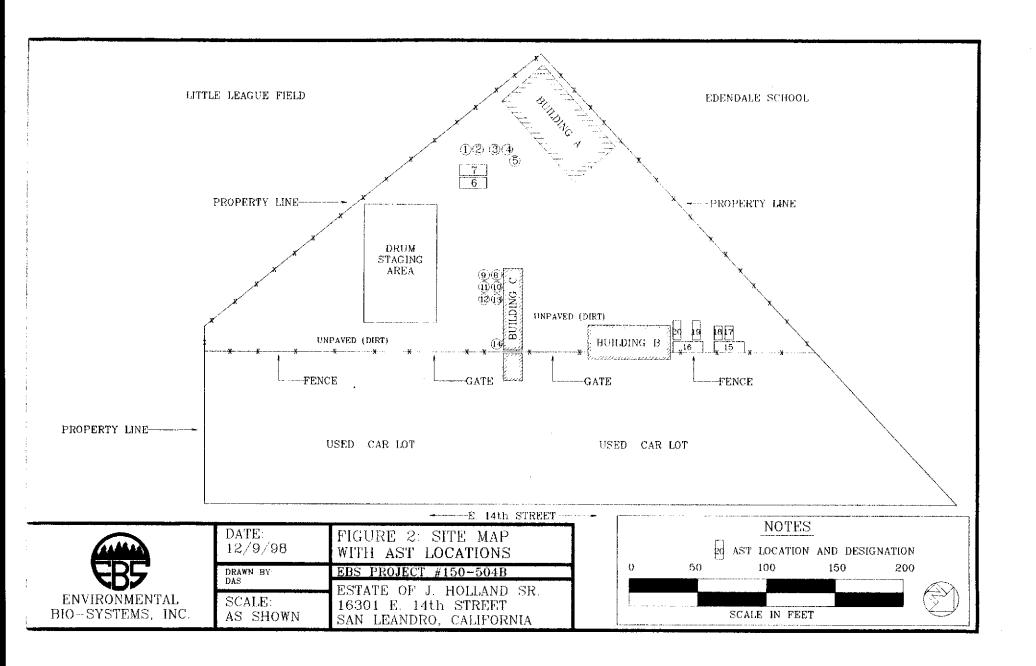
9 December 1998

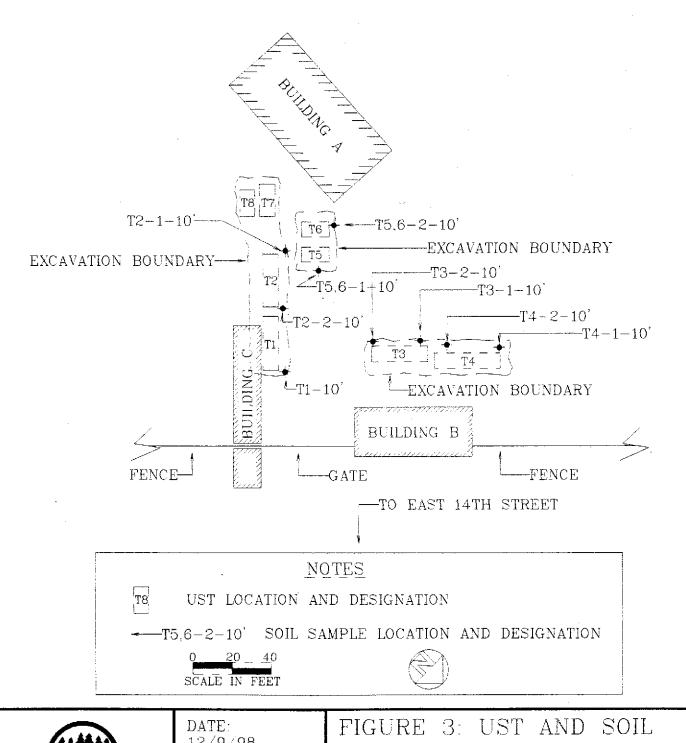
# Estate of Jack M. Holland Sr. Site Mitigation Report 16301 E. 14th St. San Leandro, California

Appendix A

APPENDIX A FIGURES







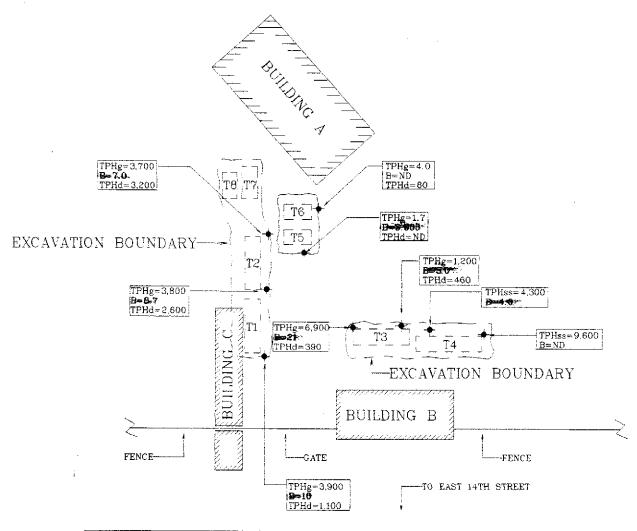


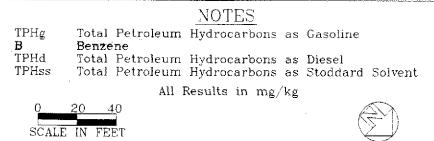
12/9/98

DRAWN BY: DAS

SCALE: AS SHOWN SAMPLING LOCATIONS

OF J. HOLLAND E. 14th STREET 16301 SAN LEANDRO, CALIFORNIA





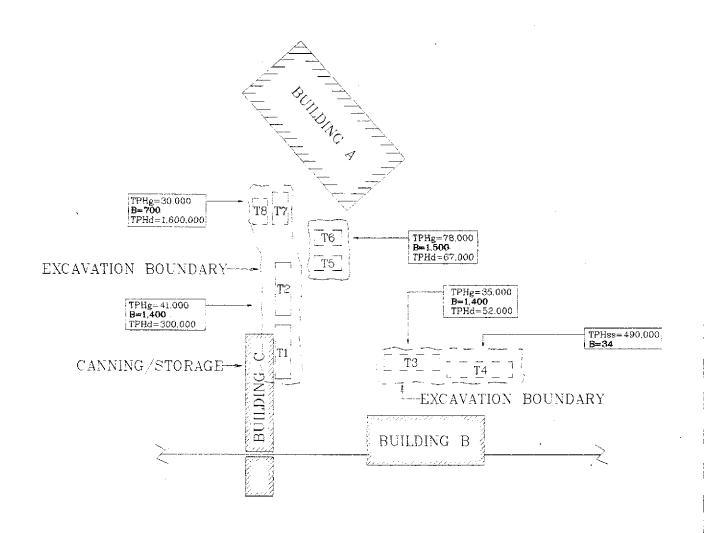


DATE: 12/9/98

DRAWN BY: DAS

SCALE: AS SHOWN FIGURE 4: SOIL: SAMPLE RESULTS

ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA



TPHg Total Petroleum Hydrocarbons as Gasoline

Benzene
TPHd Total Petroleum Hydrocarbons as Diesel
TPHss Total Petroleum Hydrocarbons as Stoddard Solvent

All Results in ug/L

0 20 40
SCALE IN FEET



DATE: 12/9/98

DRAWN BY: DAS

SCALE: AS SHOWN FIGURE 5: **GROUND WATER** SAMPLE RESULTS

ESTATE OF J. HOLLAND SR 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA 9 December 1998

#### Estate of Jack M. Holland Sr.

Appendix B

Site Mitigation Report 16301 E. 14th St. San Leandro, California

### APPENDIX B WORK PLANS

#### WORK PLAN: DRUM REMOVAL PROJECT #150-503B

Holland Oil 16301 E. 14<sup>th</sup> Street San Leandro, California

## PREPARED BY ENVIRONMENTAL BIO-SYSTEMS, INC. FOR MRS. ANN MARIE HOLLAND TIERS

Dave A. Sadoff
California Registered Geologist No. 6264

DAVE A. SADOF No. 6264

Timothy M. Babcock

Project Manager, Registered Environmental Assessor No. 05184

#### Page i

#### **Drum Removal** 16301 E. 14th Street San Leandro, California

i

#### TABLE OF CONTENTS

<u>SECTION</u>	PAGE
1. INTRODUCTION	1
2. SITE LOCATION AND DESCRIPTION	1
3. SCOPE OF WORK	2
4. PROJECT ITINERARY	4
5. LIMITATIONS	4



#### **ENVIRONMENTAL BIO-SYSTEMS, INC.**

#### Innovative Solutions for a Better Environment

Cont. Lic. # 687236

#### 1. INTRODUCTION

On behalf of our Client, Ann Marie Holland Tiers, Environmental Bio-Systems, Inc. (EBS) presents this Work Plan for the removal of approximately 100 drums at the referenced site. Work will proceed following approval by each of the concerned regulatory and governing bodies having jurisdiction over this project, including the Alameda County Department of Environmental Health (ACDEH), Alameda County Fire Department (ACFD), and the Alameda County Department of Public Works (ACDPW).

The site is owned by the Jack Holland Sr. Estate (Estate) and Barbara Holland. The principal project contacts are:

Client - Ann Marie Holland Tiers, Estate Administrator, 1498 Hamrick Lane, Hayward, CA 94544, (510) 782-4307.

Consultant - Dave A. Sadoff, Project Manager, Environmental Bio-Systems, Inc., P.O. Box 7171, San Jose, CA 95150-7171, (408) 979-8600.

#### 2. SITE LOCATION AND DESCRIPTION

The Site is located at 16301 East 14th Street in San Leandro, California. A Site Map, showing relevant Site improvements and features, is included as Figure 2 in Attachment A. The lot is partially paved with asphalt and concrete.

The property encompasses approximately 3 acres, and was used from approximately 1960 until the mid 1980s as a bulk fuel storage and sales facility. Approximately 20 above-ground storage tanks (ASTs) and 8 underground storage tanks (USTs) have been identified at the property. The lot is bounded to the south

#### Drum Removal 16301 E. 14th Street San Leandro, California

by a park and ball field, to the southwest by an elementary school, to the east and west by used car sales lots, and to the north and northeast by East 14th Street.

#### 3. SCOPE OF WORK

- 1. EBS will develop a site-specific health and safety plan to be approved by a certified industrial hygienist (CIH). The CIH will also conduct periodic site visits during project progression to ensure compliance with the provisions of the plan.
- 2. All site field work will be conducted by properly trained personnel under the provisions of 29 CFR 1910.120.
- 3. A bermed drum inventory and containment area double-lined with 10-mil visqueen sheets will be constructed at the location indicated on Figure 1. This location is considered to have sufficient access to permit necessary handling and/or transportation of the drums. The containment area will be of adequate size to accommodate all drums and will provide sufficient room for their manipulation during profiling and waste stream segregation.
- 4. All drums, cans, jugs and containers that contain liquid will subsequently be moved to the containment area.
- 5. Drum contents will be field-screened and analyzed by Evergreen Environmental Services (EES) of Newark, California for profiling and acceptance to their facility. Each drum having been screened will be clearly labeled.
- 6. Compatible liquids will then be consolidated.
- 7. Small containers will be lab-packed in DOT-approved 55-gallon drums packed with absorbent material.
- 8. Recyclable petroleum liquids will be suctioned from their drums/containers and transported in bulk under Uniform Hazardous Waste Manifest (UHWM) to EES.

- 9. Residual liquids in the drums will be stabilized by the addition of an absorbent material.
- 10. Empty drums will then be evaluated for lower explosive limit (LEL).
- 11. Drums exhibiting an LEL of 0 will be crushed on-site and placed in a roll-off bin along with used personal protective equipment and other solid wastes generated by personnel at the site (i.e.: used visqueen sheeting, gloves, etc.). The contents of the bin will be disposed of at Forward Landfill, Inc. of Stockton, California under special waste manifest at the conclusion of work included in this plan.
- 12. Drums exhibiting an LEL >0 will remain on-site to be inerted and cold-cut during later demolition of site above-ground storage tanks (AGTs).
- 13. Drums not accepted by EES will be sampled and additionally profiled as necessary. All such drums will be transported as is (if sufficiently intact) or over-packed in DOT approved containers and transported under UHWM or bill of lading (only if profiling determines the waste to be non-hazardous) to an appropriately licensed recycling/disposal facility to be designated by the Client from available options presented according to profile results.
- 14. Contents of both above-ground and below-ground storage tanks will also be inventoried at this time. Recyclable petroleum liquids will be removed by suction and transported in bulk along with related drum contents (item #8) to EES under UHWM.
- 15. Copies of all manifests accompanying the various wastes to their final dispositions will be supplied to the Alameda County Public Works Agency, Alameda County Fire Department, and the Alameda County Department of Environmental Health after the completion of the field work.
- 16. A security guard will be present on-site during inactive periods (nights).

#### 4. PROJECT ITINERARY

- 2 July 1998: Submit Work Plan to ACDPW, ACDEH, ACFD.
- 15 July 1998: Submit Health and Safety Plan to ACDPW, ACDEH, ACFD.
- 20-22 July 1998: Construct bermed containment area. Characterize and segregate waste-streams.
- 23 July 1998 Remove and transport bulk liquids to EES, crush drums.
- 24 July 1998: Remove roll-off bin containing crushed drums and solid wastes.

#### 5. LIMITATIONS

The scope of work described in this work plan will be conducted in accordance with generally accepted standards of current environmental practice in California. All documentation generated during the project, including but not limited to additional Work Plans and reports with all conclusions, and recommendations contained therein, shall be time-dependent and should not be considered valid after a 1 year period from their issue. After 1 year from issue, site conditions and recommendations contained within should be reviewed.

Evaluation of the condition of the Site, for the purpose of this study, will be made from a limited number of observation points. Subsurface conditions may deviate away from these points. Additional work, including further study of the subsurface, can reduce the inherent uncertainties associated with this type of work.

This study will be performed, and the report prepared for the sole use of our client, Mrs. Anne Marie Holland Tiers. All reports and the findings contained within are not to be disclosed to nor used by any other party without the prior written consent of Environmental Bio-Systems, Inc. It will be the responsibility of the client to convey any and all recommendations to regulatory agencies and other parties, as appropriate.

ENVIRONMENTAL BIO-SYSTEMS, INC.

**Drum Removal** 16301 E. 14th Street San Leandro, California

The recommendations to be provided in the summary project report(s) will be professional opinions that our firm has endeavored to provide with competence and reasonable care. We are not able to eliminate the risks associated with environmental work. No guarantees or warrants, express or implied, are provided regarding our recommendations.

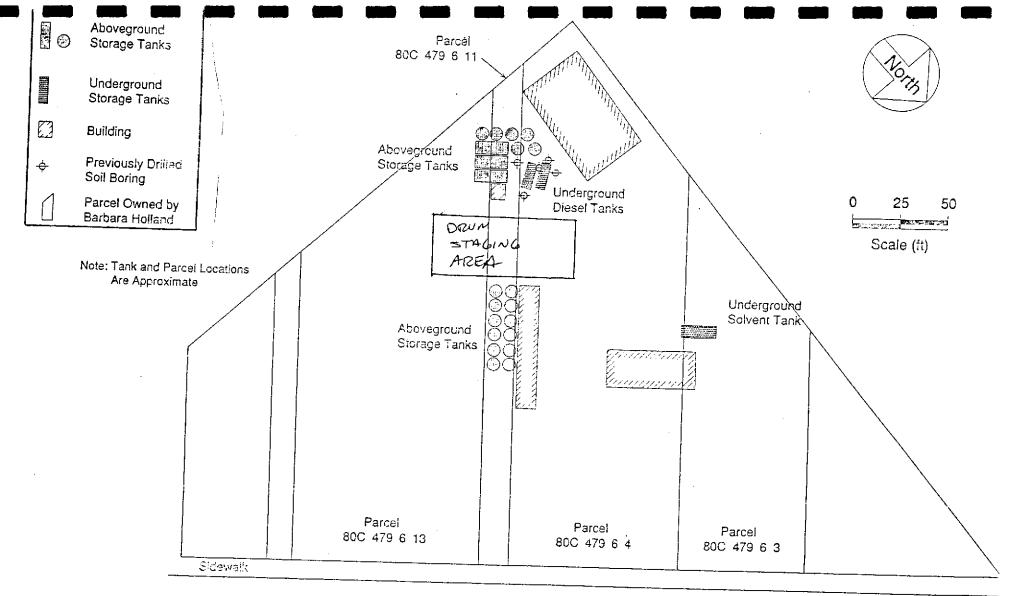
Any and all hazardous wastes generated during this work are to remain the property of the Client to be disposed of properly.

It is the clients' responsibility to identify property lines and easements. EBS is not responsible for the accuracy of any property line, easement, or other marker identified by the client.

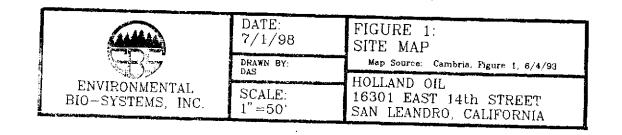
It is the clients' sole responsibility to inform EBS of any hazardous materials or conditions relating to the UST or the work area in general prior to the progression of field work, or immediately upon their subsequent discovery.

Drum Removal 16301 E. 14th Street San Leandro, California

#### ATTACHMENT A FIGURE



East 14th Street



#920 P.01/03

Post-It Fax Note 7671 Date 7 13/98 pages 3

To Dave Shapf From Part Smith

Co./Dept. Fnv. Gosyctems Co. ACPWD / CWP

Phone # 317 - 1455 Phone \* (510) 670-5236



### COUNTY OF ALAMEDA PUBLIC WORKS AGEN

951 Turner Court, Room 300 Hayward, CA 94545-2651 (510) 670-5543

Ms. Ann Marie Holland Tiers Co-owner Estate Administrator 1498 Hamrick Lane Hayward, CA 94544

Ms. Barbara Holland Co-owner 20993 Foothill Blvd. Hayward, CA 94541

Fax#

Re: Conditional Work Plan Approval for Drum Removal at Holland Oil, 16301 E. 14th St., San Leandro, CA 94578

Dear Ann Marie and Barbara:

I have received and reviewed the July 1, 1998 Drum Removal Work Plan, prepared by Environmental Bio-Systems, Inc. This work plan presents proposed steps for the removal of hazardous materials and wastes from all containers at the site. Following are concerns or issues requiring clarification:

Item 11 states that emptied drums exhibiting a "Lower Explosive Limit (LEL) of 0" will be crushed on site. I am concerned that activities associated with drum crushing or during transfer to the rolloff bin may generate some spillage. Please ensure that this activity be conducted within the lined drum staging/inventory and containment area and not out on the dirt yard. (Also see comments in item 12 below regarding contaminated containers). Item 11 also states that crushed drums and other wastes will be hauled under special waste manifest.

I discussed this matter with your consultant, Dave Sadoff of Environmental Bio-Systems. He explained that the "special waste" designation he referred to in the work plan was one Forward Landfill uses not the one specified in Section 66261.124 CA Code of Regulations (CCR) which requires, among other things, prior written approval from the Department of Toxic Substances Control (DTSC) before transport of such waste. Please be advised that all unknown wastes associated with work performed during all phases of site remediation at this site must be profiled to determine whether they exceed hazardous waste criteria specified in Section 662610 CCR. Only then may transportation, treatment or disposal options be determined.

Item 12 indicates that drums exhibiting an LEL > 0 will be inerted and cold cut during later demolition of above ground tanks. If such drums or other vessels contain significant amount of sludge or other residue then they are considered

Ms. Holland July 13, 1998 page 2 of 3

hazardous waste and must either be manifested to an authorized hazardous waste facility or rinsed out on-site (via an on-site Department of Toxic Substances Control (DTSC) permitted waste treatment unit). Section 66261.7(b)2, Title 22, (CCR) states that: "Following material removal, the top, bottom and sidewalls of such a container shall not contain remaining adhered or crusted materials resulting from buildup of successive layers of material or a mass of solidified material. A thin uniform layer of dried material or powder is considered acceptable." Drums and other containers with significant residue as discussed above are required to be managed as hazardous waste.

Item 13 states that drums which are not accepted by Evergreen Environmental Services will be additionally profiled as necessary. You are required to perform hazardous waste characterization particularly for non petroleum wastes, as per Sections 66260.20 through 66261.24 CCR. Please also include copies of all waste profile results with waste disposal manifests/bill of lading invoices.

Item 16 states that a security guard will be present on-site during "all inactive periods (nights)" while the above scope of work is being conducted on-site. Inactive periods shall include weekends and all non-work periods (i.e. after hours) for all aspects of work specified in the Drum Removal Work Plan.

This scope of work does not include removal of visible and non visible soil contamination at the site. I understand that this work will be conducted in the next (phase 2) work plan which will be overseen by Environmental Health, Hazardous Materials Division. Environmental Health has been apprised of Public Work's interest in ensuring that all surface and subsurface contamination or associated clean up debris does not pose a threat to stormwater. Please continue to include my Agency in future correspondence relating to clean up of surface contamination at the subject site or any other issues regarding storm water exposure associated with current or future activities.

The work plan as specified is hereby approved under the condition that each of the above concerns are implemented or clarified prior to initiating the work at the site. Work plan approval assumes that you are in compliance with all applicable regulations, statutes and local ordinances.

14:00

Ms. Holland July 13, 1998 page 3 of 3

Please contact Alameda County Fire Department, Environmental Health, or Public Works if you have any questions. Also please call me if scheduling changes to those proposed in the work plan occur or if you have any other questions regarding the above at 670-5236.

5106705251

Sincerely, Paul m. Britte

Paul M. Smith

Hazardous Materials Specialist

Alameda County Public Works Agency

Dave Sadoff, Environmental Bio-Systems, Inc., P.O. Box 7171, San Jose, CA 95150-7171

James Ferdinand, Fire Marshal, Alameda County Fire Department, 22341 Redwood Rd., Castro Valley, CA 94546

Scott Seery, Alameda County Environmental Health Department, Hazardous Materials Division, 1131 Harbor Bay Parkway, Rm. 250, Alameda, CA 94502

Stephen Jones, Field Supervisor, Alameda County Public Works Agency, 951 Turner Ct., Hayward, CA 94545-1395

Larry Blazer Esq., Alameda County District Attorney's Office, Consumer & Environmental Affairs Division, 7677 Oakport Dr., Oakland, CA 94621

Edward E. Martins Esq., 22698 Mission Blvd., Hayward, CA 94541

Hal P. Reiland Esq., Reiland & Reiland, P.O. Box 5490, Pleasanton, CA 94566

Virginia Crisp Esq., Coblentz, Patch, Duffy & Bass, 222 Kearny St., 7th Floor, San Francisco, CA 94108

# WORK PLAN: DEMOLITION AND REMOVAL OF USTs & AGTs PROJECT #150-504B

16301 E. 14th Street San Leandro, California

PREPARED BY ENVIRONMENTAL BIO-SYSTEMS, INC.
FOR
MRS. ANNE MARIE HOLLAND TIERS,
EXECUTOR OF THE ESTATE OF JACK M. HOLLAND, SR.

Timothy M. Babcock

Project Manager, Registered Environmental Assessor No. 05184

Dave A. Sadoff
California Registered Geologist No. 6264

10 August 1998

### Ann Marie Holland Tiers Executor of the Estate of Jack Holland Sr.

Removal of AGTs and USTs 16301 E. 14th Street, San Leandro, California

#### **TABLE OF CONTENTS**

<u>SECTION</u>	<u>PAGE</u>
1. INTRODUCTION	1
2. <u>SCOPE OF WORK</u>	1
3. SITE LOCATION AND DESCRIPTION	4
3.1. Location and Use	4
4. PREVIOUS ENVIRONMENTAL WORK	4
5. <u>PERMITS</u>	6
6. FIELD PROCEDURES	6
6.1. AGT Demolition	6
6.2. UST Removal & Disposal	7
6.2.1. <u>Sampling</u>	<i>7</i>
6.2.2. Field Screening of Samples	8
7. SAMPLE ANALYSES	9
8. <u>DOCUMENTATION</u>	9
9. <u>WORK ITINERARY</u>	10
10. <u>LIMITATIONS</u>	11
11. REFERENCES	13

#### **APPENDICES**

APPENDIX A: FIGURES -



#### Environmental Bio-Systems, Inc.

### Innovative Solutions for a Better Environment Contractor's License A-Haz 687236

#### 1. INTRODUCTION

This document describes the proposed demolition of 20 above-ground storage tanks (AGTs) and the removal of eight underground storage tanks (USTs) to be conducted for Mrs. Anne Marie Holland Tiers, Executor of the Estate of Jack M. Holland (the Client) by Environmental Bio-Systems, Inc. (EBS) at 16301 E. 14<sup>th</sup> Street in San Leandro, California. The scope of work described within this document has been prepared on the Client's behalf, and will be performed in response to requests made of them from the Alameda County District Attorney's office.

The site is owned by the Client and Ms. Barbara Holland. The principal project contacts are:

Principal Client Contact - Ann Marie Holland Tiers, 1498 Hamrick Lane, Hayward, CA 94544, (510) 782-4307.

Consultant - Environmental Bio-Systems, Inc., P.O. Box 7171, San Jose, CA, (510) 429-9988, Mr. Dave A. Sadoff, R.G., C.P.G., R.E.A.

#### 2. SCOPE OF WORK

Tasks included in this phase of work will include the following:

- Generate and submit this Work Plan per Alameda County Health Care Services Agency (ACHCSA) and Alameda County Fire Department (ACFD) requirements.
- 2. Procure permits as required from the ACFD, the ACHCSA, and the Bay Area Air Quality Management District (BAAQMD).

5150-7171 Phone: (408)979-8600 Fax: (408)264-3123

### Ann Marie Holland Tiers Executor of the Estate of Jack Holland Sr.

Removal of AGTs and USTs 16301 E. 14th Street, San Leandro, California

- 3. Contact underground service alert (USA) to notify of intended subsurface activities at least 48 hours prior to commencement of excavating activities.
- 4. Generate and submit a site-specific Health and Safety Plan approved and signed by a Certified Industrial Hygienist (CIH).
- 5. Provide CIH-oversight site visits (3 hours a day, 6 days total) to ensure compliance with the Health and Safety Plan during project commencement.
- 6. Disconnect all facility power and water at meter bow/main.
- 7. Cold cut, load and scrap 20 ASTs and all accessible above-grade pipelines, dispensers, and fueling equipment.
- 8. Excavate soils, inert, and dispose of the USTs listed below (along with their reported contents):
  - three 10,000-gallon tanks used to contain gasoline
  - two 5,000-gallon tanks used to contain kerosene
  - one 5,000-gallon tank used to contain diesel
  - one 6,000-gallon tank used to contain diesel
  - one 12,000-gallon tank used to contain stoddard solvent.
- 9. Collect the following soil samples from the native soil/backfill interface in compliance with Regional Water Quality Control Board (RWQCB) guidelines:
  - Three from beneath each of the 10,000 gallon gasoline USTs to be
    analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene,
    toluene, ethylbenzene and total xylenes (BTEX), methyl t-butyl ether
    (MTBE); three each from below the two gasoline USTs reported to have
    contained leaded fuel to be analyzed for total lead.
  - Three from beneath each of the 5,000-gallon kerosene USTs to be analyzed for total petroleum hydrocarbons as kerosene (TPHk) and BTEX.
  - Three from beneath the 5,000-gallon and 6,000-gallon diesel USTs (each) to be analyzed for total petroleum hydrocarbons as diesel (TPHd) and BTEX.

### Ann Marie Holland Tiers Executor of the Estate of Jack Holland Sr. Removal of AGTs and USTs

16301 E. 14th Street, San Leandro, California

- Three from beneath the 12,000-gallon stoddard solvent UST to be analyzed for total petroleum hydrocarbons as stoddard solvent (TPHss) and BTEX.
- One from beneath a gasoline dispenser to be analyzed for TPHg, BTEX, and MTBE.
- One from beneath a diesel dispenser to be analyzed for TPHd and BTEX.
- One 4-point composite from the gasoline UST overburden stockpile to be analyzed for TPHg, BTEX, and MTBE.
- One 4-point composite from the kerosene UST overburden stockpile to be analyzed for TPHd and BTEX.
- One 4-point composite from the diesel UST overburden stockpile to be analyzed for TPHd and BTEX.
- One 4-point composite from the stoddard solvent UST overburden stockpile to be analyzed for TPHss and BTEX.
- 10. Collect pit water samples (if encountered) from each of the UST excavations.
  Pit water samples to be analyzed for the analytes listed above under soil sampling for the associated tank.
- 11. Transport all samples to a California State certified environmental laboratory accreditation program (ELAP) laboratory under chain of custody.
- 12. Instruct the laboratory to analyze the samples for analytes listed above using the following analytical methods:
  - TPHg using Environmental Protection Agency (EPA) Method 8015.
  - BTEX and MTBE using EPA Method 8020 (confirm MTBE using 8260).
  - Total lead using EPA Method 7421.
  - TPHd using EPA Method 8015.
  - TPHss using EPA Method 8015.
- 13. Load all 8 USTs onto flatbed trailers and transport to a properly licensed recycling/disposal facility.

- 14. Bench and slope excavation sidewalls to inhibit collapse pending further potential excavation or remediation.
- 15. Provide on-site security guard during non-work hours of project.
- 16. Construct a property perimeter berm using clean overburden soil (if available), per the request of the ACDPW.
- 17. Prepare a report summarizing the work performed and present it to the Client.
  The report will contain descriptions of field activities, laboratory analytical reports, scaled drawings, conclusions and recommendations.

#### 3. SITE LOCATION AND DESCRIPTION

#### 3.1. Location and Use

The Site encompasses approximately 3 acres in a mixed commercial and residential area in San Leandro. The Site is bounded by a Little League baseball field to the south, by Edendale Elementary School to the west, and by used auto dealerships to the north and east.

The Site was used as a bulk fuel storage, blending, and retail facility approximately between 1960 and the mid-1980s. A building in the southwest portion of the lot has historically been used for vehicle repair, and is currently used for storage and maintenance of equipment by San Leandro Crane.

#### 4. PREVIOUS ENVIRONMENTAL WORK

#### 1990

Crosby and Overton, Inc. (C&O) drilled and sampled five exploratory soil borings near the two diesel USTs. Soil samples collected from the borings were found to contain up to 25,000 milligrams per kilogram (mg/kg) TPHd. Ground water was first encountered at approximately 15 feet below ground surface (bgs).

#### February 1996

Compliance & Closure, Inc. (CCI) directed the locating of eight USTs at the Site. CCI reportedly located three gasoline, two kerosene, two diesel, and one stoddard solvent UST.

#### April 1996

CCI installed and sampled three ground water monitoring wells. Soils encountered during drilling activities were described as silty clay, thin beds of silty sand and sand to 18 feet bgs.

Soil samples collected during drilling of the wells reportedly contained up to 4,400 mg/kg TPHg and 8,200 TPHd. These soil samples were also found to contain up to 0.024 mg/kg 1,4-dichlorobenzene and 0.4 mg/kg methylene chloride.

Ground water samples collected from the wells were found to contain up to 33,000 micrograms per liter ( $\mu$ g/L) TPHg; up to 12, 83, 22 and 160  $\mu$ g/L BTEX, respectively; up to 9,700  $\mu$ g/L TPHd; up to 41,000  $\mu$ g/L total recoverable petroleum hydrocarbons (TRPH); and up to 3.1  $\mu$ g/L 1,2-dichlorobenzene.

#### July 1996

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 1,400  $\mu$ g/L TPHg; 17, 5.6, 7.6 and 32  $\mu$ g/L BTEX, respectively; and 4,600  $\mu$ g/L TPHd.

#### October 1996

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 7,300  $\mu$ g/L TPHg; 16, 8.9, 20 and 15  $\mu$ g/L BTEX, respectively; and 14,000  $\mu$ g/L TPHd.

#### January 1997

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,600  $\mu$ g/L TPHg; 6.4  $\mu$ g/L benzene; 44  $\mu$ g/L toluene; and 2,800  $\mu$ g/L TPHd.

#### April 1997

CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,700  $\mu$ g/L TPHg; 16, 8, 10 and 25  $\mu$ g/L BTEX, respectively; and 500  $\mu$ g/L TPHd.

#### 5. PERMITS

EBS will procure applicable permits from the ACHCSA by filing an Underground Tank Closure Plan and State of California UST Permit Application Forms A and B. Permits will also be obtained from the ACFD, and the BAAQMD prior to project commencement.

An asbestos survey will be conducted on all structures slated for demolition by a properly licensed asbestos inspector. Copies of the permits will be maintained onsite at all times during the course of the project.

#### 6. FIELD PROCEDURES

The project will be divided into two main tasks, AGT demolition and UST removal. AGT demolition will be performed first to increase available work area and remove obstacles to facilitate the subsequent task. The USTs will be excavated and removed immediately following demolition of the AGTs. All tasks are being scheduled to take place prior to the first day of class at Edendale School (14 September 1998).

#### 6.1. AGT Demolition

EBS has contracted Zaccor Corporation Inc. (ZCI) of Alameda, California (contractor's license #A-Haz 478799) to demolish and scrap the 20 on-site AGTs. Each AGT will be inerted to a lower explosive limit (LEL) of 0 per ACFD specifications, and cut into transportable pieces using hydraulic sheers. The resulting scrap metal will be hauled off-site for recycling.

#### 6.2. UST Removal & Disposal

EBS has also contracted ZCI to inert and excavate the eight site USTs. Each UST will be pressure washed as necessary and inerted by addition of dry ice. All tanks will be measured to have an less than 10 percent of the LEL and a concentration of oxygen below 10 percent prior to removal.

All USTs will be properly transported under hazardous waste manifest by Ecology Control Industries (ECI) of Torrance, California and disposed of at their Richmond facility (EPA ID #CAD009466392).

The resulting excavations will remain open at the conclusion of this phase of work. The sidewalls of the pits will be sloped to decrease the chance of collapse.

#### 6.2.1. Sampling

Soil samples will be collected from freshly exposed soil beneath the ends of each UST within two feet of the tank's bottom if water is not encountered. In the event that pit water is encountered, soil samples will be collected from the pit sidewalls at the ends of the tanks within the unsaturated zone just above water (the capillary fringe). Pit water samples also will be collected from each pit in which water is encountered.

Soil samples will be manually collected from the backhoe bucket. A wood or plastic mallet will be employed to drive a stainless steel sample tube into the soil to be sampled. The tubes will be filled with dirt to exclude head space. The ends of the tubes will then be wrapped with Teflon sheets and sealed with plastic end caps. Each tube will be labeled with a unique designation for this project and either relinquished immediately to an on-site mobile laboratory, or stored on ice in a closed insulated container to be relinquished to a laboratory at a later time. Chain of custody documentation will be initiated at the site and will accompany all samples in transit to the laboratory(s).

### Ann Marie Holland Tiers Executor of the Estate of Jack Holland Sr. Removal of AGTs and USTs

16301 E. 14th Street, San Leandro, California

Water samples will be collected with a subsurface sample collection device. A one liter bottle will be loaded into the device and sealed with a spring powered stopper arm. The device will subsequently be extended into the pit at the end of a telescoping pole, placing the collection bottle below the surface of water. The collection bottle will then be remotely opened to allow water to fill it and then remotely resealed prior to retrieval from the pit. Water will be decanted from the collection bottle to fill individual sample containers. Water sample containers will include 1 liter amber bottles with threaded caps and hydrochloric acid preserved volatile organic analysis (VOA) vials with septa. All water containers will be clean and unused prior to sample collection. The sampler will be decontaminated and loaded with a fresh collection bottle between use at each tank pit.

#### 6.2.2. Field Screening of Samples

All samples will be field screened using a photoionization detector (PID). The Thermo Environmental Instruments, Co. Model 580D PID to be used for this purpose will be calibrated at the beginning of each day of use to a 100 part per million (ppm) isobutylene standard (one ppm is basically equivalent to 1 mg/kg).

Approximately 50 to 100 grams of soil will be collected from various locations during excavation, and from soil immediately adjacent to the locations of soil samples to be submitted for laboratory analysis. These 50 to 100 gram samples will be sealed within plastic bags labeled with a unique designation for the project and allowed to remain undisturbed for at least 20 minutes. The PID will then be used to measure the resultant accumulation of vapor in the head-space within the bag. The maximum value attained for each such sample will be recorded on a field log.

### Ann Marie Holland Tiers Executor of the Estate of Jack Holland Sr. Removal of AGTs and USTs

16301 E. 14th Street, San Leandro, California

#### 7. SAMPLE ANALYSES

Soil samples will be analyzed for some or all of the following constituents according to the former contents of the USTs from beneath which they were collected:

- TPHg using EPA Method 8015.
- BTEX and MTBE using EPA Method 8020 (confirm MTBE using 8260).
- Total lead using EPA Method 7421.
- TPHd using EPA Method 8015.
- TPHk using EPA Method 8015.
- TPHss using EPA Method 8015.

Analysis will be performed by Mobile Chem Labs, Inc. of Lafayette, California (MCL). This laboratory is accredited through the California State Department of Toxic Substances Control environmental laboratory accreditation program (ELAP) to perform the indicated analyses.

Minimum laboratory detection limits for the above analytes will be 1 mg/kg for TPHg and 5 µg/kg for BTEX. Detection limits may be raised due to matrix interference by other compounds present and/or high levels of analytes. All changes in detection limits will be documented on the laboratory reports.

#### 8. DOCUMENTATION

A final report documenting the observations, results, conclusions, and recommendations of the project will be prepared and submitted to the client within 30 days of the completion of the field work. Interpretations of the site conditions and the results of analyses will also be provided. Documentation will include scaled diagrams, logs of soil types encountered, copies of the chain of custody forms, laboratory reports, tabulated data, and interpretative figures as needed.

#### 9. WORK ITINERARY

The following time line is anticipated for this phase of work:

- 12 August 1998: Submit Work Plan to ACFD and ACHCSA.
- 17 August 1998: Submit Health and Safety Plan to ACFD and ACHCSA.
- 24 August 1998: Begin site prep work (cut ASTs to allow for removal of contents).
- 31 August 1998: Begin AST removal.
- 7 September 1998: Begin UST removal.
- 11 September 1998: Demobilize equipment, conclude project.

This schedule is subject to revision. The ACFD and ACHCSA will be apprised of any such changes as far in advance as feasible.

#### 10. LIMITATIONS

The project cost is based upon information and service rates acquired to date. Should any significant factor during project progression be other than at the time of this proposal, EBS reserves the right to adjust the charges in a reasonable manner. The maximum liability of EBS for any reason attendant to the services provided shall not exceed \$250,000.00.

In the event of non-payment of fees as outlined within this proposal, EBS may cease work, and/or withhold documentation and information gained during work progression until full compensation has been received. Under such circumstances, EBS will be held harmless by the client and/or tenants or lessees of the client, and the client will be held responsible for all costs incurred as a result of the stoppage of work.

EBS will contact Underground Service Alert to mark utilities on adjoining public lands. The use of a private utility locator to mark on-site utilities is not included in the scope of work, but may be arranged for an additional fee at the Client's request. It is the responsibility of the Client to mark all subsurface utilities, improvements, structures, or easements in the proposed work area. EBS will not be liable for any damages to underground structures as a result of subsurface activities while excavating in locations which the Client has not disapproved prior to excavation (or which have been cleared by a private utility locator if such service is added prior to commencement), and which are not within 3 feet of any utilities clearly marked by USA or private locator prior to excavation.

All regulated waste materials generated (if any) during the performance of this project not specifically addressed in this proposal will remain the property of the Client to be disposed of properly. The disposal of liquids referenced to in this proposal applies to fluids acceptable to the Client selected disposal/recycling facilities. All other disposal requested by the Client to be arranged for at additional charge.

### Ann Marie Holland Tiers Executor of the Estate of Jack Holland Sr.

Removal of AGTs and USTs 16301 E. 14th Street, San Leandro, California

The Client will be must be available to sign all uniform hazardous waste manifests at the time the work is performed. All manifest related standby delays will be billed to the Client at additional cost.

The conclusions and recommendations in the report will be developed in accordance with generally accepted standards of current environmental practice in California. These recommendations are time-dependent and should not be considered valid after a 1-year period from the issue of the report. After 1-year from the issue of the report, site conditions and recommendations contained within the report should be reviewed.

The study will be performed solely for the purpose of evaluating environmental conditions at the site. No engineering or geotechnical references will be implied or should be inferred.

Environmental Bio-Systems, Inc. is not liable for the discovery, documentation, or other consequences associated with obscured or otherwise not readily visible conditions encountered during any personal observations documented by staff and/or included in the report.

The project will be performed, and the report will be prepared for the sole use of our client, Ann Marie Holland Tiers, Executor of the Estate of Jack M. Holland. The report and the findings contained therein shall not be disclosed to nor used by any other party without the prior written consent of Environmental Bio-Systems, Inc. It is the responsibility of the client to convey all data, conclusions and recommendations to regulatory agencies and other parties, as appropriate.

All recommendations made will be professional opinions that our firm has endeavored to provide with competence and reasonable care. We are not able to eliminate the risks associated with environmental work. No guarantees or warrants, express or implied, are provided regarding such recommendations.

### Ann Marie Holland Tiers Executor of the Estate of Jack Holland Sr. Removal of AGTs and USTs

16301 E. 14th Street, San Leandro, California

#### 11. REFERENCES

Compliance & Closure, Inc. <u>Summary of Environmental Investigation Conducted at Jack Holland Sr. Oil Company Property, East 14th Street, San Leandro, California</u>, 4 June 1998.

**APPENDIX A:** 

**FIGURES** 

Site Mitigation Report 16301 E. 14th St. San Leandro, California

## APPENDIX C HEALTH AND SAFETY PLANS

#### **HEALTH AND SAFETY PLAN**

DRUM AND DRUM CONTENT REMOVAL ACTIVITIES HOLLAND OIL 16301 E. 14<sup>TH</sup> STREET SAN LEANDRO, CALIFORNIA

#### 1.0 INTRODUCTION AND SCOPE OF WORK

This Health and Safety Plan (Plan) will be in effect during drum and drum content removal activities at the Holland Oil site located at 16301 E. 14<sup>th</sup> Street in San Leandro, California. This Plan addresses the potential exposure to drums and containers containing petroleum hydrocarbons and solvents during drum and container decommissioning activities.

The scope of work for this phase of the project includes profiling, segregating, and decommissioning drums containing various petroleum products including motor oil, fuel oil, hydraulic oil, and stoddard solvents. Evergreen Environmental Services has been retained to perform the drum profiling activities and Zaccor Inc. has been retained to perform the drum segregation and decommissioning activities.

This Plan covers Environmental Bio-Systems, Inc. (EBS), and their subcontractors. If circumstances outside the scope of this Plan occur on site, the Plan will be amended to account for such circumstances, and the appropriate protective measures will be taken.

#### 2.0 PERSONNEL

Site Health and Safety Officer - The Site Health and Safety Officer, \_\_\_\_\_\_\_, will be responsible for briefing field personnel and contractors on the potential site hazards, personal protective equipment to be used on site, work rules and safe work practices, and implementation of the Plan, prior to initiation of work.

The Health and Safety Officer will also conduct tailgate safety meetings as appropriate during field operations, to inform the field personnel and contractors of changing field conditions and any potential changes in the Plan.

<u>Project Manager</u> - The Project Manager, Dave Sadoff, will be responsible for all technical aspects of the project, and will assure that the requirements of the Plan are implemented.

<u>Consulting Certified Industrial Hygienist</u> - The Consulting Certified Industrial Hygienist, Irene S. Fanelli, CIH, has reviewed this Health and Safety Plan, and will provide consulting support for the project activities on an as-needed basis.



<u>Field Personnel</u> - Field personnel will be responsible for understanding and complying with the requirements of this Plan. They will acknowledge and sign a copy of this Plan, and will attend tailgate safety meetings, as required.

Field personnel will have the appropriate prior experience and training, and will meet the medical monitoring requirements of 8 CCR 5192. The required training includes the 40-hour basic training, three days of supervised field experience, 8-hour update training, and 8-hour supervisory training, as appropriate.

#### 3.0 CONTAMINANTS

The potential chemical hazards on site consist of petroleum hydrocarbons and solvents. Specifically, motor oil, fuel oil, hydraulic oil, and stoddard solvents as bulk were stored and sold on site from the early 1960s until the mid 1980s. Some of the more common chemical constituents of petroleum hydrocarbons include Benzene, Ethyl benzene, Toluene, and Xylenes (BTEX). These constituents exist in petroleum products in different percentages depending on the particular type of oil or fuel. Material Safety Data Sheets (MSDS) should be reviewed to identify specific constituents and amounts found in that product.

General symptoms of exposure for petroleum products and their constituents include: irritation of the eyes, nose, mucous membranes, and respiratory system; headache; nausea, vomiting, abdominal pain; giddiness, excitement, dizziness, staggered gait; fatigue, weakness, lassitude; anorexia; corneal vacuolization; dermatitis; and bone marrow depression (benzene). Target organs include the central nervous system, eyes, skin, gastrointestinal tract, blood, liver, and kidneys.

Benzene is listed under California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as a chemical known to the State of California to cause cancer. Toluene is listed as a chemical known to cause reproductive harm. For this reason, the following warning will be given to all on-site personnel:

"This area contains chemicals known to the State of California to cause cancer (benzene) and reproductive harm (toluene)."

#### 4.0 POTENTIAL FOR EXPOSURE AND ROUTES OF ENTRY

Chemical hazards may be encountered during the drum decommissioning operations. During these operations, site personnel may be exposed to any or all of the chemicals noted in the table. Exposure may occur through inhalation, ingestion, and absorption though dermal contact. The potential for exposure, given reasonable precautions, is considered to be moderate. Overall exposure will be controlled through restriction of personnel from entering the restricted area. Exposure through inhalation will be controlled through ambient air monitoring and the use of approved respiratory protection as necessary. Dermal exposure will be controlled by limiting contact through safe work



practices, the use of chemical protective clothing, and personal hygiene. Ingestion hazards will be controlled by strict limitation of eating, drinking, and smoking in the work areas, and by rigorous application of decontamination and personal hygiene protocols.

The table below lists toxicological information for the site contaminants:

Chemical	Cal/OSHA PEL or TLV (ppm)	Carcinogen?	Absorbed through skin?
Gasoline	300	No	Yes
Diesel	None	No	Yes
Benzene	1	Yes	Yes
Toluene	50	No	Yes
Ethylbenzene	100	No	No
Xylenes	100	No	No
Fuel Oil	None	No	No
Stoddard Solvent	100	No	No

#### Notes:

- 1. Data is taken from Title 8 CCR 5155, the NIOSH Pocket Guide to Chemical Hazards, 1997, and the ACGIH Threshold Limit Values, 1997.
- 2. The PEL/TLV is the lowest of the two values.

#### 5.0 PHYSICAL HAZARDS

The physical hazards associated with drum decommissioning activities at the Holland Oil site are expected to be of equal or greater concern than the chemical hazards. The following is a list of physical hazards that may be involved in on-site activities and the control measures used to mitigate each hazard.

#### Fire/Explosion

Gasoline, diesel, and solvent vapors are flammable. Gasoline has a flash point of 104 - 158°F (40 - 70°C). Diesel fuel has a flash point of 100 - 129°F (38 - 54°C). Vapors present in and around drums can present a serious fire and explosion hazard. Non-sparking tools and methods will be utilized during drum profiling, purging and decommissioning activities where flammable vapors or liquids are



present. Proper bonding and grounding procedures will be utilized during flammable liquid transfer operations to prevent spark from static charge. Procedures for safe drum handling activities are included in Appendix A.

Type ABC fire extinguishers are required in each drum decommissioning work locations. At least two fire extinguishers are required in work areas where flammable liquids are handled or processed. Extinguishers must be inspected for damage and defects daily. Used fire extinguishers must be replaced immediately and tagged "out-of-service" until refilled. Extinguishers must be serviced and refilled at least annually by a licensed service firm. Written documentation of service and inspection dates must be attached to each fire extinguisher. Written records of monthly inspections and annual servicing must be available upon request to regulatory inspectors.

#### Heavy Equipment

Drum transport and crushing equipment will be used at the site. During the site-specific training, all site personnel will be advised of the types of this equipment being used at the site and the hazards of working around such equipment. All personnel operating such equipment will be properly trained and will be instructed to be constantly aware of the presence of other site personnel within their work area. Communication between workers on the ground and Operators will be by line-of-sight, utilizing standard construction hand signals. All personnel on the ground within the working range of trucks and heavy equipment shall assure eye contact AND acknowledgement from the Operator prior to approaching the equipment. Backup alarms and rollover protection will be utilized, as appropriate. Site personnel will be prohibited from standing or passing directly behind equipment or trucks, without first notifying the operator or driver of such movement.

#### Manual Material Handling

Transport of drums will be performed utilizing mechanical equipment including forklifts, drum grappling equipment and/or equivalent appropriate methods. Site personnel must not attempt to move drums containing product by hand, as these drums may weigh hundreds of pounds. Empty drums may be moved by hand only when movement by mechanical means is possible. If moving empty drums (or other equipment or supplies) by hand, care must be taken to use proper handling techniques in order to prevent injuries.

#### Noise

Personnel working in areas where heavy equipment and drum crushing is operating may be exposed to excessive noise, and will wear their choice of hearing protection as necessary.

#### Heat Stress



Heat stress may also be a potential physical hazard during the work. Personnel must be familiar with the symptoms of heat stress, and the conditions during which it may occur. Heat stress symptoms may include nausea, headache, lightheadedness, lack of coordination, or slurred speech. The use of protective clothing greatly enhances the likelihood of heat stress. Where site conditions warrant, site personnel will monitor for heat stress and implement work/rest regimens, as necessary. Potable water and/or an electrolyte replacement fluid such as Gatorade will be available on-site at all times.

#### 6.0 AIR MONITORING/ACTION LEVELS

Direct reading air monitoring will be conducted for organic vapors using a Flame Ionization Detector (FID) or Photo Ionization Detector (PID). All direct-reading monitoring results will be compared to background levels, as measured at locations upwind of the work area. All equipment will be calibrated at least daily, according to the manufacturer's instructions. Additional calibration will be carried out as necessary. Calibration and monitoring data will be recorded in the field log for the project.

All drums and containers will be tested for flammable vapors utilizing a Combustible Gas Indicator (CGI) before being moved or purged of contents. CGIs will be properly calibrated daily as per manufacturer's recommendations as a minimum before usage. Lower Explosive Limits (LELs) found above 0% in drum head spaces or empty drums will be the action level for procedures for profiling, segregating, and decommissioning drums and containers.

All site workers will be informed that they are always entitled to make use of respiratory protection prior to reaching a work area action level. Once an action level is reached, designated protection levels will be mandatory. All respiratory protection will be NIOSH/MSHA approved equipment. If PID readings consistently reach 10 ppm above background in the breathing zone for five minutes, workers will upgrade to respirators with organic vapor cartridges. If PID readings consistently reach 50 ppm in the breathing zone, workers will leave the area until vapor control measures are sufficient to bring organic vapor levels below this level.

# 7.0 PERSONAL PROTECTIVE EQUIPMENT

All personnel in the active work area will be required to wear a hard hat, chemical resistant PVC or equivalent steel-toed boots, and safety glasses to protect against injury. Personnel will utilize their choice of hearing protection while working around heavy equipment. Personnel will also be required to wear chemical resistant poly-coated Tyvek coveralls, nitrile gloves, and splash goggles or equivalent eye protection when working around drums during all drum decommissioning activities. During initial drum opening, personnel will wear full face cartridge respirators with organic vapor/acid mist cartridges in addition to poly-coated Tyvek coveralls, nitrile gloves, and chemical resistant steel-toe boots.



#### 8.0 DECONTAMINATION

Personnel will utilize appropriate decontamination techniques prior to leaving the work area. These measures include proper containment and disposal of disposable protective equipment, washing and rinsing of reusable equipment, and washing of hands before eating, drinking, or smoking.

#### 9.0 SITE ZONES

Before drum decommissioning activities begin on site an Exclusion Zone (EZ) and Decontamination Reduction Zone (Decon zone) will be established. The EZ and decon zones will generally be the drum staging, sampling, and decommissioning areas. Access will be restricted to the EZ and decon zone to properly trained and protected personnel who are involved with the drum decommissioning activities. The EZ /decon zone restricted areas will be visibly delineated with barricades, caution tape, fencing, or equivalent barriers to prevent unauthorized entry.

#### 10.0 EMERGENCIES IN THE FIELD

#### Spills

Spill containment supplies and equipment will be available on site in the event of spills. Supplies will include absorbent pads, booms, or equivalent. The quantity of spill containment supplies kept on site must be able to contain a spill from the entire contents of a full 55 gallon drum as a minimum.

#### Fire/explosion

In the event of a fire or explosion, on site personnel will evacuate to a pre-determined safe meeting area. The safe meeting area will be determined by the on site Project Manager or Site Supervisor and will be communicated to all site workers before site activities begin. Site personnel will not fight fires beyond the "incipient stage" which can easily be extinguished with one fire extinguisher.

### Medical Emergency

In case an accident should occur in the field the nearest appropriate emergency facility will be notified immediately. The contacts for the nearest emergency facilities to the project site are included on Table 1.



# TABLE 1 EMERGENCY TELEPHONE NUMBERS

CONTACT	PHONE NUMBER
AMBULANCE:	911
FIRE DEPARTMENT: Alameda County	911 or (510) 618-3490 670-589
POLICE: San Leandro Police Department	911 or (510) 577-3210
HOSPITAL: Alameda County Medical Center	(510) 667-7800
EBS: Dave Sadoff	(510) 317-1455
EHCI: Irene Fanelli  KING ETTINGER	(650) 3478-9205 12070 PAGE 881-5126 pager (888) 881-5128
EES: Kevin Krause	(510) 795-4400
ZACCOR: Gary Zaccor	(510) 522-6210
	-

To get to the hospital from the site take E. 14<sup>th</sup> Street north approximately 1 mile to Fairmont Street. Turn right at Fairmont and proceed approximately ½ mile to Foothill Blvd. Turn right at Foothill Blvd. The hospital is on the left – 15400 Foothill Blvd.



#### 9.0 ACCIDENT REPORT

Tree mordate

In case of accident, the on-site Health and Safety Officer will provide a report to the Project Manager describing the following:

- The nature of the event that required notification of off-site personnel or agencies.
- The date, time and names of personnel and agencies notified, and their response.
- A description of personal injury and/or property damage.
- A description of the resolutions of the incident.

## 10.0 ACKNOWLEDGEMENT AND UNDERSTANDING OF THIS PLAN

Field personnel will be briefed on the nature of work at the site, potential hazards, and protective clothing requirements prior to site work. The personnel will then be asked to sign the following statement:

This Health and Safety Plan has been explained to me. I acknowledge receipt of this Plan and obligate myself to read it. I agree to abide by the Plan and procedures outlined herein. I understand that non-compliance with the Plan may lead to termination of my employment.

Signature:

Date:

8/4/98

8/4/98

4/48

8/4/98

Sylys

Aunthord

8/4/98

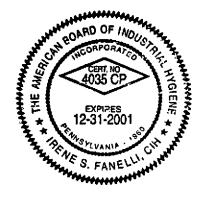
8/4/98

Environmental Health Consultants

(cout'D)

This health and safety plan has been developed for the removal of fuel oils, waste oils, and solvents from existing drums and containers at the Holland Oil site located at 16301 E. 14th Street in San Leandro, California. The plan has been prepared in accordance with 8 CCR 5192 and other applicable regulations, and good industrial hygiene practice.

This plan is intended to apply to the drum and drum content removal activities at the above listed site only, and must not be extrapolated to other substances, work activities or project locations without modification to address the specific hazards associated with those substances, activities and/or any other specific regulatory requirements.



# APPENDIX A DRUM HANDLING



### **DRUM HANDLING**

### 1.0 PURPOSE

This procedure describes the minimum requirements for the safe handling, sampling, overpacking and crushing of drums.

### 2.0 SCOPE

This procedure applies to all operations where drums and other similar containers are handled.

## 3.0 DRUM HANDLING

Drums are handled for purposes of staging, characterization, removal, and disposal. Hazards of drum handling include detonation, fire, explosion, vapor generation and physical injury.

#### 3.1 Pre-Inspection

Prior to handling, drums will be inspected for potential hazards. Personnel will look for:

- Symbols, words, or other marks on the drum indicating that its contents are hazardous; e.g., radioactive, explosive, corrosive, toxic, flammable.
- Symbols, words, or other marks on a drum indicating that it contains discarded laboratory chemicals, reagents, or other potentially dangerous materials in small-volume individual containers.
- Signs of deterioration such as corrosion, rust, and leaks.
- Signs that the drum is under pressure, such as swelling and bulging.
- Drum type (stainless steel, polyethylene, fiberboard, etc.).
- Configuration of the drum head.



#### 3.2 Air Monitoring

As a precaution, workers will assume that unlabeled drums contain hazardous contents until their contents have been characterized. Direct-reading instruments such as radiation meters, combustible gas indicators, flame ionization detectors, or photoionization detectors will be used to monitor for toxics, flammables and/or radiation around drums prior to and during handling, if the contents are unknown.

#### 3.3 Required Equipment

The following equipment will be available in the immediate work area during drum handling.

- · Fire extinguishers.
- · Non-sparking tools.
- · Spill adsorbent material (loose or in pads or booms).
- Direct-reading instruments for air monitoring.
- · Overpack containers.

Drums will only be handled/moved only to the extent that is absolutely necessary as the potential for leaks, rupture and exposure increases with the amount of handling. Personnel involved in drum handling and characterization will have prior training on potential hazards and safe work practices for these activities. Personnel will immediately notify their supervisor or the site safety and health officer of any changing conditions and new information that appear during drum handling.

#### 3.4 Safe Work Practices

All drums and containers will be approached cautiously until their contents and condition have been characterized. The following procedures will be followed for drum handling.

Drums will be handled one at a time.

Personnel are prohibited from standing, walking or sitting on drums.

Personnel will avoid the swing radius of drums during lifting and hoisting. Walking or standing under suspended loads is prohibited.

All ignition sources must be removed from a 75 foot radius around drum handling activities.

Drums that appear in imminent danger of failing will be overpacked as soon as possible.

Mechanical devices will be used to move drums due to their weight. Drums may weigh 200 - 600 pounds.

When lifting drums, operators must have a clear view of the path of the drum. Spotters will be used if the operator's view is blocked.

When using slings, yokes or other lifting devices to move drums; personnel assisting the lift will move away a safe distance from the area before the drum is lifted.

Critically swollen drums will not be moved until pressure is relieved.

Where explosive or shock-sensitive contents is suspected, drums will be handled and sampled remotely via mechanical means.

## 3.5 Personnel Protective Equipment and Respirators

Level B will be worn when working with unknowns. For known materials or those expected to present low hazard potential, Level C full-face cartridge respirators with organic vapor/acid mist cartridges will be worn in addition to appropriate skin protection.

# 4.0 DRUM STAGING, OPENING AND SAMPLING

Drums will be staged in a logical and orderly manner. The arrangement of drums will allow adequate aisles for entrance and exit when working around the drums. Movement of drums will be kept to a minimum. Drums of like contents will be staged together and away from drums of incompatible contents. Gas cylinders will be staged in a cool shaded area. Potentially explosive and shock-sensitive drums will be stored at a location distant from other site activities and in a diked, fenced area. Drums may be stacked no more than two high, with pallets between.

The following procedures will be handled for drum opening and sampling.

Air monitoring will be performed at the drum opening before and during opening.

Access to the drum opening area will be limited to essential personnel only.

Where explosive or shock-sensitive contents are suspected, drums will be opened remotely by mechanical means.



If the drum shows signs of bulging or swelling, excess pressure can be relieved by gently cracking the bung prior to opening.

Non-sparking tools such as plastic, bronze or beryllium will be used for drum opening.

Only one drum at a time will be opened. Drums will be left open only as long as is necessary to take samples. Drums will be closed and resealed as quickly as possible.

Samplers will stand to the side of an open drum and avoid leaning over the opening.

If the drum lid is unable to re replaced securely, the drum will be overpacked or its contents off-loaded to another container.

Sampling equipment will be decontaminated between drums to avoid cross-contamination and mixtures of incompatible compounds.

## 5.0 DRUM OVERPACKING

Drums exposed to the outdoor elements for a long period of time may be in poor physical condition. Many are rusted and have holes, thus creating a high risk for spills and splashes during handling.

Drums of questionable integrity will not be moved. Leaky or potentially leaking drums will be either off-loaded and demolished or will be overpacked.

Overpacking will be performed by mechanical means when possible. Drums will be lifted, using vise grips or a grappler, and lowered into an overpack drum. The drums will be lifted no higher than is necessary and swinging of the drums will be kept to a minimum. If overpacking must be performed manually, the overpack will be placed over the leaking drum, they will be tilted on their sides, and then uprighted.

Lids will be placed and sealed on overpack drums as quickly as possible. Emergency spill materials will be staged in the area of drum overpacking.

# 6.0 DRUM DEMOLITION

Empty drums may be crushed in preparation for disposal. Workers will stand clear of the crushing operation. Crushing, moving and loading the drums for storage or transport will be performed mechanically. The operator will maintain a clear evacuation route from his equipment at all times. Only empty drums will be crushed. Due to the high noise of drum crushing, workers in the area will wear hearing protection.



ZACCOR

LIC. #476799-A, C-21, ASB, HAZ

COMPANIES, INC.

### SITE HEALTH AND SAFETY PLAN

THE REMOVAL OF UNDERGROUND AND ABOVE GROUND STORAGE
TANKS
AT
16301 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

25/2/6

**%** .

SEE REVISIONS

ALAMEDA, CA 94501 (510) 522-6210 FAX (510) 522-6259 E-MAIL Zaccor1@aol.co

ì".

# SITE HEALTH AND SAFETY PLAN

#### 1.0 INTRODUCTION

The Site Health and Safety Plan (HSP) has been prepared by EBS and Zaccor Companies, Inc.. This HSP establishes procedures to address health and safety aspects of field work activities to be conducted by Zaccor Companies, Inc. employees at 16301 EAST 14TH STREET. SAN LEANDRO. CA.

This Plan addresses exposure to petroleum hydrocarbons, liquid and vapor during the underground (UST) and above ground (AST) tank removal and risk involved with working on and near heavy equipment...

This plan was prepared in accordance with federal (29 CFR 1910.120) and state (Title 8 CCR Section 5192) regulations and has been reviewed by the project manager and project health and safety officer. Prior to entering the site, EBS and Zaccor personnel shall read this plan and be familiar with health and safety procedures required when working onsite. A copy of the HSP shall be available onsite for inspection and review.

The observance of procedures in this plan are mandatory for all EBS and Zaccor employees at the site. All subcontractors, regulatory agency personnel, and other non-EBS and Zaccor personnel shall be made aware of the requirements of this plan; however, subcontractors and others will be responsible for the safety of their own employees and for following all applicable federal, state, and local regulations.

# 2.0 SITE BACKGROUND

The site encompasses approximately 3 acres and was used from approximately 1960 until the mid 1980's as a bulk fuel storage and sales facility. Approximately 20 aboveground tanks (SATs) and 8 underground tanks (USTs) have been identified at the property. Site history indicates the tanks contained petroleum hydrocarbons. The site is bounded to the south by a park and ball field, to the southwest by an elementary school, to the east and west by used car sales lots, and to the north and northeast by East 14th Street.

Aug-26-98 02:38P Zaccor Companies, inc-

## 3.0 FIELD ACTIVITIES

The field activities to be conducted at the site may include any of the following work tasks;

## Heavy Equipment

An excavator, backhoe, loader, and or Bobcat will be used for the excavation and removal of ASTs and USTs located on the subject site. Care will be used to remain out of the working swing area of this equipment. Hard hat and steel toed boots will be worn at all times.

Equipment will be approached only when the operator is aware of the presence of someone approaching and has positioned the equipment into a non-operating status, such as hands and feet off of the controls, or the engine idled down.

#### Contaminants

The potential chemical hazards may include petroleum hydrocarbons such as motor oil, fuel oil, hydraulic oil, diesel, and stoddard solvent which were stored in bulk and sold onsite as previously referenced. Benzene, toluene, ethylbenzene and total xylenes may also be a concern.

All site field work will be conducted by properly trained personnel under the provisions of 29 CFR 1910.120

Appropriate fire extinguisher medium will be readily accessible in work areas to all personnel. All personnel will be aware of specific locations.

AST's and UST's will be evaluated for explosive vapors using a recently calibrated lower explosive limit (LEL) meter. THE ATMOSPHERE WILL BE MAINTAINED BELOW 10% OF THE LOWER EXPLOSIVE LIMIT (LEL) AT ALL TIMES for the purpose of pressure washing. Tanks will not be pressure washed if the atmosphere is above 10% of the LEL.

inert tanks will be looded on a flot bed truck, strapped down and transported using a licensed, trained hazardous waste hauler under Uniform Hazardous Waste Manifest (UHWM) to EES.

# 4.0 KEY PERSONNEL AND RESPONSIBILITIES

The following sections describe the health and safety responsibilities assigned to the project.

Project Manager: The Project Manager (PM) Dave Sadoff shall:

A direct all personnel involved in contracted activities at the site and vicinity.

- B. make the project Health and Safety Officer aware of all pertinent project developments and plans.
  - C. make the resources available for a safe working environment.
  - D. maintain communications with client, as necessary.

Project Health & Safety Officer: The Project Health and Safety Officer (PHSO) Kurt Ettinger shall:

- direct all health and safety aspects of contractual activities conducted by EBS and Zaccor personnel at the site vicinity.
- insure that all EBS and Zaccor personnel have received required training, are aware of potential hazards associated with  $\pi$ site operations, have been instructed in the work practices for health and safety, and are familiar with the site health and safety plan procedures for all scheduled activities and for dealing with emergencies.
- direct required exposure monitoring to assess site health and safety concerns.
  - prepare any accident/incident reports.

F. report all accidents/incidents and findings regarding personnel exposure and work practices to the P. M.

SITE SAFETY OFFICER The Site Safety Officer (SO) Dave Sador shall:

- A. ensure that appropriate personal protective equipment is available for EBS and Zaccor personnel and enforce proper utilization of personal protective equipment by on-site EBS and Zaccor personnel.
- B. with guidance from the PHSO, observe subcontractor's personnel with respect to health and safety. If the SSO believes that a subcontractors personnel are or may be exposed to an immediate health hazard, the SSO shall suspend the subcontractors site work. If the subcontractors personnel do not have the required protective equipment, the SSO shall consult with the PM or PHSO before processing with the work.
- C. implement the project health and safety plan and report any observed deviations from site conditions anticipated in the plan.
  - D. conduct site safety briefings as needed.

ì.

- E. calibrate monitoring equipment daily and properly record and file results.
- F. under direction of the PHSO, perform required exposure monitoring.
- G. maintain monitoring equipment or arrange maintenance as necessary.
  - H. assume other duties as directed by the PM or PHSO.

1

1. report observed accidents / incidents or inadequate work practices to the PHSO and the PM.

**PROJECT PERSONNEL**: Project personnel involved in on-site investigations and operations shall:

- A. take reasonable precautions to prevent injury to themselves and to their fellow employees and perform only those talks that they can do safely.
- B. immediately report accidents and/or unsafe conditions to the SSO or PHSO.
- C. follow the procedures set forth in the HSP and report to the SSO or PHSO any observed deviations from the procedures described in the plan on the part of EBS and Zaccor or subcontractor personnel.
- D. inform the PM and PHSO of any physical conditions that might affect their ability to perform.

Minimum Training and Medical Surveillance Requirements for Site Personnel

- <u>+</u> 40 hr. Health and Safety Training for Hazardous Waste Workers
- 📑 💮 👸 hr. Annual Refresher Training
- 🛨 First Aid and CPR Training for Site Health and Safety Officer
- 😑 8 hr. Supervisor Training for Site Health and Safety Officer
- Respirator Fit Testing
- ÷ Medical Surveillance
- $\pm$  Confined Space Entry Training (for personnel entering excavation)

ì.

# 5.0 CHEMICAL HAZARDS AND RISK

Possible exposure to chemicals when tanks are opened and inerted using dru ice, piping is drained and disconnected and during the excavation of soil to access the USTs. . Routes of entru include inhalation, absorption. To avoid ingestion of chemicals eating, drinking and smoking in the work area will be controlled by strict limiting. Injection would be a concern should a cut related injury occur, there fore any such injury will be cleaned and treated immediately.

Based upon site history USTs and ASTs are expected to contain petroleum hudrocarbons. It is anticipated that Level D protection will be adequate, however Level C protection will be used on an as needed basis determined bu field monitoring.

General symptoms for exposure to anticipated petroleum $^{\prime\prime}$ hydrocarbons are irritation to eyes and nose mucous membranes and respiratory system, burning skin, rash;, nausea, abdominal pain, vomiting; giddiness, excitement, staggering, fatigue, weakness, lassitude; anorexia, cornea vacualization; and bone marrow depression (benzene). Targeted organs include the central nervous system, skin, mucous membrane, eyes, nose, gastrointestinal system, liver, kidney and blood.

Benzene is listed as a chemical known to cause cancer. Toluene is listed as a chemical to cause reproductive harm. Therefore according to the California Safe Drinking Water and Toxic Enforcement Act (prop. 65) the following warning should be given to all onsite personnel.

"This area contains chemicals known to the State of California to cause cancer (benzene) and reproductive harm (toluene).

ĵ.,

Chemical	Cal/OSHA PEL or TLY (ppm)
Gasoline	300
Diesel	None
Benzene	1
Toluene	50
Ethylbenzene	100
Xylenes	100
Fuel Oils	None
Stoddard Solvent	100

## Other Risks

Ĩ.,

Trips, slips, falls, heavy equipment. Operators and ground employees to exercise awareness and caution at all times. Area will be kept as tidy as possible. Cold and heat exposure not expected to be a concern, however workers will be informed of prevention, symptoms and treatment.

# 6.0 CHEMICAL EXPOSURE MONITORING PLAN

# 6.1 AIR MONITORING

Direct reading air monitoring will be conducted for organic vapors using a Flame ionization Detector (FID) or Photo Ionization Detector (PID). All direct-reading monitoring results will be compared to background levels, as measured at locations upwind of the work area. If PID readings consistently reach 10 ppm above background in the breathing zone for five minutes, workers will upgrade to respirators with organic vapor cartridges and down-wind fence line levels will be evaluated. If PID readings consistently reach 50 ppm in the breathing zone, workers will leave the area until vapor

control measures are sufficient to bring organic vapor levels below this level. Any fence line levels observed above background will require discontinuation of activities until work practices/procedures can be modified to reduce fence line levels to background. All equipment will be calibrated at least daily, according to the manufacturer's instructions. Additional calibration will be carried out as necessary. Calibration and monitoring data will be recorded in the field log for the project. All site workers will be informed that they are always entitled to make use of respiratory protection prior to reaching a work area action levels. The Once an action level is reached, designated protection levels will be mandatory. All respiratory protection will be NIOSH approved equipment.

All tanks will be tested for flammable vapors utilizing a Combustible Gas indicator (CGI) before tank decommissioning activities begin on each tank. CGIs will be properly calibrated daily as per manufacturers recommendations as a minimum before usage. All tanks must be inert to less than 10% LEL before being decommissioned. Decommissioning includes excavation (For USTs), removal, and loading of tanks for off site transport and disposal. Any onsite demolition of tanks will be through cold cutting techniques. No torching or spark producing tank demolition activities will be allowed.

# 6.2 DUST MONITORING

Dust monitoring will not be performed. Significant quantities of dust will is not anticipated to be generated by site activities. Water will be available on site to use as dust suppression if visible dust emissions occur.

# 7.0 POTENTIAL PHYSICAL HAZARDS AND RISKS

In addition to potential chemical hazards, potential physical hazards are present at the site. a description of the potential physical hazards, the tasks (identified in Section 3.0) of which each hazard applies, and precautions to be taken to minimize the hazards are presented in the following sections.

# 7.1 SAFETY HAZARDS (ALL TASKS)

Various safety hazards and the precautions to be taken to minimize the hazards are summarized below:

- a) fall/flying objects: Hard hats and safety glasses will be worn.
- b) slippery surfaces; sharp objects such as nails, metal shards, and broken glass; Steel toed boots will be worn and personnel will watch where they are walking.
- c) Hot equipment; Personnel will wear heavy gloves if handling hot equipment (i.e. steam cleaners, winches & motors).
- d) Rotating equipment (excavators, cranes, etc.); Personnel will  $\sigma$  remain visible to equipment operators at all times.

# 7.2 ELECTRICAL HAZARDS & UNDERGROUND UTILITIES (TASK 1 & 2)

Before beginning any work, the SSO shall locate above-ground and underground utilities (electrical, gas, water, telephone, sewer and storm drain) and indicate overhead power lines to all site personnel and contractors.

# 7.3 NOISE

Large heavy equipment often creates excessive noise. Noise at the site is expected to be quite variable depending upon location and nearby construction activities. Noise monitoring will not be conducted; however, on-site personnel will wear hearing protection

when working near operating or other noisy conditions. EBS and Zaccor includes annual audiometric testing as part of our medical monitoring program.

#### **HEAT STRESS**

1

The signs and symptoms of heat stress include;

- a) Heat rash may result from continuous exposure to heat or humid air.
- b) Heat cramps are caused by heavy sweating with inadequate electrolyte replacement. Signs and symptoms include: muscle spasms and pains in the hands feet and abdomen.
- c) Heat exhaustion occurs from increased stress on various body organs including inadequate blood circulation due to cardio-vascular insufficiency or dehydration. Signs and symptoms include; pale, cool, moist skin; heavy sweating; dizziness; nausea; and fainting.
- d) Heat stroke is the most serious form of heat stress. Temperature regulation fails and the body temperature rises to critical levels. Immediate action must be taken to cool the body before serious injury and death occur. Competent medical help must be obtained. Signs and symptoms are; red, hot, unusually dry skin; lake of or reduced perspiration; nausea; dizziness and confusion; strong rapid pulse and coma.

If protective clothing must be worn, the suggested guidelines for ambient temperature and maximum work per, from the NIDSH/OSHA/HSGG/EPA "Occupational Safety and Health Guidelines Manual for Hazardous Waste Site Activities" are as follows;

# Suggested Frequency of Physiological Monitoring for Fit and Acclimated Workers

Adjusted Temperature Normal Worker Ensemble	impermeable Ensemble				
90∞ F (32.2 C) or above After each 45 min. of work	After each 15 min of work				
87.5∞ -90∞ F(30.8-32.2C) After each 60 min. of work or above	After each 30 min. of work				
82.5∞ -87,5∞ F(28.1-30.8C) After each 90 min. of work	After each 60 min. of work				
77.5∞ -82.5∞ F(25.3-28.1C) After each 120 min. of work or above	After each 90 min. of work				
72.5∞ -77.5∞ F(22.5-25.3C) After each 150 min. of work or above	After each 120 min. of work				

#### Notes:

ì"

- a For work levels of 250 kilocalories/hour
- calculate the adjusted air temperature (ta/adj) from the measured air temperature (ta) by using this equation; ta adj F=ta  $F+(13 \times \%$  sunshine). Measure air temperature (ta) with a standard mercury in glass thermometer, with bulb shielded from radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow (100 percent sunshine = no cloud cover and a sharp distinct shadow; 0 percent sunshine = no shadow).
- c A normal work ensemble consists of cotton coveralls or other common clothing with long sleeves and pants.
- d Impermeable ensemble includes Tyvek and Saranex coveralls with rubber boots.

Pulse rates and oral temperatures may be monitored as early as possible in the rest period.

#### د . . -

 $(x_i, y_i)^{\alpha} T_i^{\alpha} = (x_i, y_i)^{\alpha} T_i^$ 

# **HEAT STRESS** -continued

If the pulse exceeds 100 beats per minute or temperature exceeds 99 degrees Fahrenheit at the beginning of the rest period, the work cycle will be shortened by one-third

# 7.6 SUNBURN (ALL TASKS)

Skin exposure to ultraviolet radiation can produce sunburn. Hats or hardhats, long sleeved shirts, and sunscreen will be used to protect against sunburn.

# 8.0 PERSONAL PROTECTIVE EQUIPMENT

The following personal protective equipment will be used or available as specified below.

	Floatation devise
***	Chemical-resistant rubber boots, steel toed
***	Steel toed boots
***	Hard hats
***	Ear plugs
***	Gloves
****	Disposable suit (Tyvek or Saranex)
***	Half or full face respirator
***	Cartridges
***	Safety Glasses/goggles

# Activitu\_\_

11.

71.

# Equipment Clothing

Mandatory

Eye Protection—
when appropriate
Steel—Toed boots
Tyvek or Saranex—
when appropriate
Gloves
Hard Hat

Non-Mandatory
Ear Protection-when appropriate

Respirator - when appropriate

#### 9.0 SITE CONTROL

The purpose of site control is to minimize the potential exposure to site hazards, to prevent vandalism at the site, and to provide adequate facilities for the workers

#### 9.1 WORK ZONES

Before tank decommissioning activities begin on site an Exclusion Zone (EZ) and Decontamination Reduction Zone (Decon Zone) will be established. The EZ will generally be the yard area near the existing tanks. A decon zone will be established adjacent to the EZ. Access will be restricted to the EZ and decon zone to properly trained and protected personnel who are involved with the tank decommissioning activities. The EZ/decon zone restricted areas will be visibly delineated with barricades, caution tape, fencing, or equivalent barriers to prevent unauthorized entry. See attached map for proposed EZ areas.

#### 9.2 SITE SECURITY

Site security shall consist of site personnel overseeing the work area and allowing only persons with proper OSHA certification and adequate personnel protection to enter the work area. A security guard will be onsite when site personnel depart.

# 9.3 SANITATION FACILITIES

# 11.0 SAFETY PRACTICES & STANDARD OPERATING PROCEDURES

In working around any hazardous or potentially hazardous substances or situations, site personnel shall plan all activities before starting any task. Site personnel shall identify health and safety hazards involved with the work planned and consult with the PHSO or SSO as to how the task can be performed in the safest manner, if he/she has any uncertainties.

The SSO shall conduct periodic safety briefings so that any precautions that are required will be fully understood by site personnel and contractors, and any questions personnel may have can be addressed. Adherence to the following general safety rules:

- Wear protective clothing as provided, when required.
- Wear protective hard hat in construction areas.
- Wear sturdy work boots or shoes at the site. Steel toed boots required.
- Prevent splashing of contaminated materials, if applicable.
- 5. Prevent back injury by never lifting or carrying a load that is more than you can handle. When lifting heavy objects; bend the knees and use, the leg muscles.
  - 6. Keep all heat sources away from combustible liquids, gases, or any flammable materials. When working in areas where combustible gases are present, use only intrinsically safe equipment (non-sparking).
  - 7. Be familiar with the physical characteristics of investigations, including;
    - a. Accessibility of other personnel, equipment, and vehicles
    - b. Site access
    - c. Nearest water sources
    - d. Location of communication devices
  - B. Dispose of all wastes generated during work activities at the site as directed by the P. M.

- Inspect power cords for damage such as cuts and frays.
- 10. When in doubt of your safety it is better to over protect.
- 11. Practice defensive driving.
- 12. Keep a first aid kit and several type ABC fire extinguishers at labeled and designated locations when performing all field work.

## 12.0 EMERGENCY RESPONSE

 $\tilde{V}^{1}$ 

In the event of an accident or emergency conditions, the procedures listed below shall be followed immediately. Emergency conditions are:

- $\Sigma$  An accident (physical or chemical) involving personnel or anyone experiencing adverse effects or symptoms of exposure.
- $\Sigma$  Discovery of a situation more hazardous than anticipated.
- $\Sigma$  Accidental release of hazardous materials or wastes.

The site safety officer shall take charge, and follow the emergency procedures listed.

# 12.1 MEDICAL EMERGENCY

The following steps shall be taken as appropriate in the event of a medical emergency:

- 1. Remove the injured or exposed person(s) from immediate danger, if possible. Transport the injured person(s) to a hospital if they can be transported safely. The hospital location can be shown on Figure 2.
- 2. If a serious injury or life threatening condition exists, <u>CALL AN AMBULANCE</u> (dial 911). Clearly describe the location, injuries and conditions to the ambulance dispatcher. Designate a person to direct emergency equipment to the injured person.
- Provide emergency first aid, if possible.
- 4. Evacuate other on site personnel to a safe place until the P. M. or the PHSO determines that it is safe for work to continue.

- 5. Immediately implement steps to prevent recurrence of the accident, and to conduct a critique of response and follow up.
- 6. If there is any question as to the nature of the injury or what should be done, call 911 or appropriate emergency numbers listed below.

Ambulance - 911

ħ",

Fire Dept. - 861-8181 or 911

Police Dept. - 911

Poison Control Center - 1-800-777-6476 or 213-484-5151

National Emergency Response Center: 1-800-424-8802 (24 hr.)

California State Office of Emergency Services: 1-800-852-7550

Location of nearest hospital. See Fig. 2

# 13.0 TRAINING, MEDICAL SURVEILLANCE, AND RECORD KEEPING

# 13.1 TRAINING REQUIREMENTS

All project personnel must be in compliance with OSHA regulations specified in 29 CFR 1910.120 and CCR Title 8, Section 5192. These include completion of a 40 hour health and safety training course, annual 8 hour refresher training, and participation in a medical manitoring program and respiratory protection program.

Documentation of required training for diving subcontractors shall be submitted to EBS and Zaccor Companies, Inc. prior to starting work.

Additional site specific training that covers on site hazards, personal protection requirements, decontaminating procedures, and emergency response information as outlined in the site safety plan will be given by the PHSO or SSO before beginning on site work.

# 13.2 MEDICAL SURVEILLANCE

All EBS and Zeccor project personnel shall participate in a medical monitoring program, which includes annual audiometric and physical exams for employees involved in hazardous waste or materials projects. It requires that all such personnel have medical clearance before being issued a respirator and participating in field activities. Frequency of medical exams complies with CCR8 5192(f3) and is summarized as follows:

- 1. Prior to performing field work.
- 2. At least once every 12 months.
- 3. At termination of employment.
- 4. Upon occurrence of possible over-exposure.
- 5. More frequently if deemed necessary by a physician.
- 6. Documentation of medical clearance will be required from contractors and subcontractors prior to the start of work. (if applicable)

ì.

ĵ,

SITE NAME: UST & AST REMOVAL

# **HEALTH AND SAFETY PLAN** REVIEW AND APPROVAL

CLIENT: EBS	SITE NAME: USI & AS	LKENUYAL
PROJECT NAME: AST & US STREET. S	T REMOVAL, AT 16301 EA SAN LEANDRO, CA.	AST 14TH
		·
Plan Completed By	Signature	Date
Diese Sull	DAVE SACUFF	9/3/98
Project Manager	Signature	Date
6ht Stans		
Health & Sefety Coordinator	Signature	Date
Site Health & Safety Officer	Signature	Date
	Signature	Dete
Alternata Health & Safety Officer	Jignater	
Industrial Hygienist	Signature	Date
Excavation Competent Person	Signature	Date
Sub-Contractor Field Supervisor	Signeture	Date
Sub-Contractor #2 Field Supervi	sor Signature	Date

This Health & Safety Plan has been written for the EBS and Zaccor Companies, Inc. and its employees. It may also be used as a guidance document by properly trained and experienced subcontractors. However, EBS and Zaccor Companies, Inc. does not guarantee the health or safety of any person entering this site.

Due to the potential hazardous nature of this site and the activity occurring thereon, and is not possible to discover, evaluate, and provide protection for all possible hazards which may be encountered. Strict edherence to the health and safety guidelines set forth herein will reduce, but not eliminate, the potential for injury at this site. The health and safety guidelines in this Plan were prepared specifically for this site and should not be used on any other site without prior research by a trained health and safety specialist.

1.

1

EBS and Zaccor Companies, Inc. claims no responsibility for its use by others. The Plan is written for the specific site conditions, purposes, dates, and personnel specified and must be amended if these conditions change.

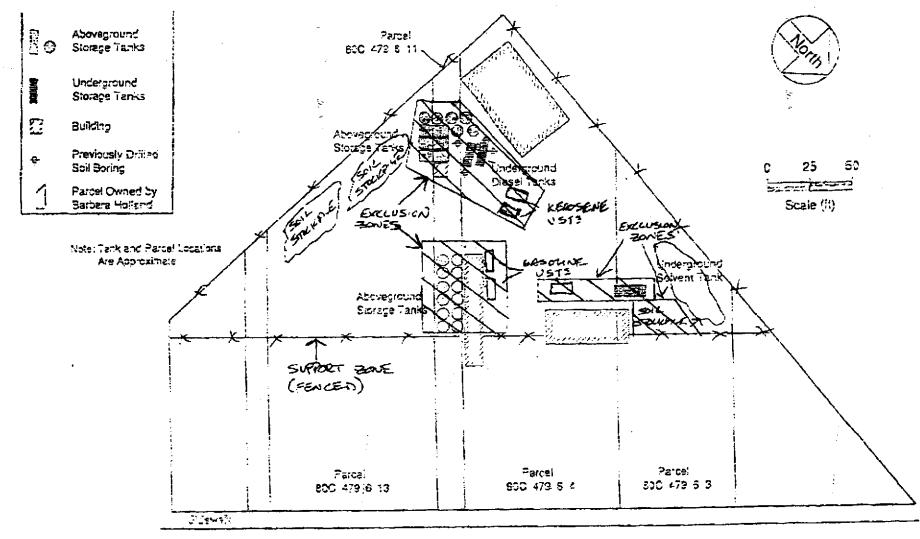
18 20

ĵη,

# FIELD NOTES **ADDITIONAL COMMENTS** HEALTH AND SAFETY ISSUES & PREVENTAIVE **MEASURES**

Rehard Campbell	9/4/98
Daylon-	9-3-78
A Roman	9-3-78
<i>y</i>	
	5 - 24°





East 14th Street

<u>ana</u>	DATE: 7/1/98	FIGURE 1: SITE MAP
<b>B</b> E	DRAWK EY: DAS	Hap Source Cambria, Pigore 1, 6/4/93 HOLLAND OIL
ENVIRONMENTAL BIO-SYSTEMS, INC.	SCALE: 1"=50"	16301 EAST 14th STREET SAN LEANDRO. CALIFORNIA

9 December 1998

# Estate of Jack M. Holland Sr. Site Mitigation Report

Appendix D

16301 E. 14th St. San Leandro, California

# APPENDIX D UNIFORM HAZARDOUS WASTE MANIFESTS

Approved OMB No. 2050-0039 (Expires 9-30-99) se print or type. Form designed for use on elite (12		ions on back	of page 6	).	F	ent af Toxic Substances Con iacramento, California	
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Documen		2. Page I		n in the shaded areas ired by Federal law.	
3. Generator's Name and Mailing Address	PAPIONIPIST PAPE	1	A. State Mo	inifest Document		8264852	
4. Generator's Phone (570) 774			B. State Ge	nerator's ID			
5. Transporter 1 Company Name EVERGREEN ENVIRONMENTAL	6. US EPA ID Number SERVICES			nsporter's ID	4000A C	170. EGGL - A.C. (18)	
7. Transporter 2 Company Name	C A D 9 8 2 4	1 3 2 6 2		nsporter's ID	(avv) :		
			F. Transpor		<u> </u>		
Designated Facility Name and Site Addre     EVERGREEN OIL, INC.	ss 10. US EPA ID Number			cility's ID A D S 8	0 8 8	7 4 1 8	
6980 Smith Avenue Newark, CA 94560	[C A D 9 8 0 8	8 7 4 1 8	H. Facility's	Phone	(510) 7	r98-4400	
11. 'JS DOT Description (including Proper Sh		12. Co		13. Tatal Quantity	14. Unit Wt/Vol	1. Waste Number	
NON-RCRA HAZARDOUS WAS	re i louid					\$tate 221	
b.		0 0 1	TITE	3119110	G	EPA/QUITO	
		1 1	. 1	1 1 1 1		EPA/Other	
с.				<u> </u>		State	
						EPA/Other 4	
d.					;	State 44	
J. Additional Descriptions for Materials Listed	Abaua		K Handline	Codes for Waste	u Lidad Abo	EPA/Other	
3. Additional assertation for Mulantus Estate	Autit		g.		<b>b</b> .		
			c.		d,		
15. Special Handling Instructions and Addition 24. Hour Emergency Response	enal Information	-9300 Invo	ice #		/ <b>5</b> / 7		
24 Hour Emergency Response Telephone No.: CHEMTREC 1-800-424-9300 Invoice # DOT ERG 171 WEAR PROTECTIVE EQUIPMENT Sales Order #							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and occurately 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 taxicity 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							
available to me and that I can afford.	I quantity generator, I have made a good faith effor	to minimize my was	te generation	and relect the be			
Printed/Typed Name.  17. Transporter 1 Acknowledgement of Recei		V// 4	19 d V	1     	()	The Doy Year	
Printed/Typed Name  A N S C	Signature	) آ اڪن ا ا	/ \ <u></u>	<b>V</b>	O I	nth Day Year	
18. Transporter 2 Acknowledgement of Recei Printed/Typed Name	pt of Materials Signature			7	Мо	nth Day Year	
19. Discrepancy Indication Space	<u> </u>						
20. Facility Owner or Operator Certification Printed/Typed Name	of receipt of hazardous materials covered by this man	fest except as noted	in Item 19.		Мо	nth Day Year	
						.	

DO NOT WRITE BELOW THIS LINE.

Form Plea	App se pri	roved OMB No. 2050-0039 (Expires 9:30-99) it or type. Form designed for use on elite (12-pitch) typewriter.	See Instructions	on back o	t page	6.		nt of Taxic Substances Cantrol acramento, California		
	<b>A</b>	UNIFORM HAZARDOUS WASTE MANIFEST		est Document	No.	2. Page 1		in the shaded areas ired by Federal law. A		
		3. Generator's Name and Mailing Address			A. State Manifest Document Number 98264505%  B. State Generator's ID					
7550										
1-800-852-7550		5. Transporter 1 Company Name 6. U  EVERGREEN ENVIRONMENTAL SERVICES	C. State Transporter's ID							
800					D. Transporter's Phone (800) 972-5284  E. State Transporter's ID  F. Transporter's Phone					
CALL										
			JS EPA ID Number	<del></del>	G. State Facility's ID C A D 9 8 0 8 7 4 1 8					
CALIFORNIA,		EVERGREEN OIL, INC. 6880 Smith Avenue			H. Facilit		North Co	95-4400		
	1	Newark, CA 94560 C A  11. US DOT Description (including Proper Shipping Name, Hazard Class, or	1 D 9 8 0 8 8 7 nd ID Number)	12. Con No.	lainers Type	13. Total Quantity	14. Unit WI/Vol	I. Waste Number		
		<b>a</b> .		140.	yype	Godiny	7777 751	Siole		
₹	ė	NON-RCRA HAZARDOUS WASTE, LIQUID		0 0 1	TIT	6 11.6	G	EPA/Other None		
1-800-424-8802: WITHIN	N E R	b.		1 1				State EPA/Other		
0-42	Ä	С.		<u> </u>	<u></u> _			State		
8	R							EPA/Other		
CENTER		d.	· <del>-</del>					State		
								EPA/Other		
Š		J. Additional Descriptions for Materials Listed Above		, ** _ 25	K. Handl	ing Codes for Waste	s Listed Abo			
NATIONAL RESPONSE				·	c.		<b>q</b>			
¥		15. Special Handling Instructions and Additional Information	· .	·	<u> </u>	<b>-1</b> , , ) , "	1 (3- /	5/1		
HE NATI		24 Hour Emergency Response Telephone No.: CHEMTREC 1-800-424-9300 Invoice # 703275   DOT ERG 171 WEAR PROTECTIVE EQUIPMENT Sales Order #								
CALL THE		16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of the marked, and labeled, and are in all respects in proper condition for tro	is consignment are fully and according :	urately descri o applicable i	bed above	by proper shipping no	ame and are	e classified, packed, lations.		
SPILL,		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								
NCY OR	¥	available to me and that I can afford.  Printed/Typed Name  ON STATE AND STA	Signoture / MM	a.	10	M	Mor	nih Day Year		
EMERGENCY	R	17. Transporter   Acknowledgement of Receipt of Materials Priated/Typed Name	Signature	กล ลโ	610	710	Moi	nth Day Year.		
P. E.	S P O R	18. Transporter 2 Acknowledgement of Receipt of Materials	Light Annual Control		V.		Moi	nih Day Year		
CASE	Ę,	Printed/Typed Name	Signature		×10					
Z	F A C	19. Discrepancy Indication Space /						•		
	Ĺ	20. Facility Owner or Operator Certification of receipt of hazardous materi	_	ept as noted i	n Item 19.		r			
	Y	Printed/Typed Name	Signature				Moi	nth Doy Year		
L		DO 14	OT WRITE BELOW T	HE LINE				<u> </u>		

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

		1101812121011		37	2. Page 1 of ¶	is not requ	n in the shaded areas fred by Federal law.
	LIGHT IN TACK TO THE TOTAL	HAMMRICK L WALL CA 91	_		Manifest Document N	umber 9	8268037
	5. Transporter 1 Company Name EVERGREEN ENVIRONMENTAL SERVICES	6. US EPA ID Number  C A D 9 8 2 4 1  8. US EPA ID Number	3 2 6 2		ransparter's ID orter's Phone	(900) 9	772-5284
	7. Transporter 2 Campany Name	8. US EPA ID Number			ransparter's ID orter's Phone		
	SOLVENT SERVICES, INC. don LAIDLAW 1021 Berryese Road	10. US EPA ID Number			acility's ID 	4.0	
	San Jose, CA 95133  11. US DOT Description (including Proper Shipping Name, Hazard Cla	C A D 0 5 9 4 9	12. Con	_	13. Total	14. Unit	61-6000
	RQ Waste Combustible Liquid, N.O.S. NA 1993, III	<u> </u>	n  0 1	Туре	Quantity	WI/Vol	Waste Number.
. ]	ь.						State EPA/Other
)	с.						State EPA/Other
	d.			ı			State EPA/Other
•	J. Additional Descriptions for Materials Listed Above 11.a. Used oil with greater than 1,000 ppm halogas Profile #	ned solvents.		K. Handli a.	ng Codes for Wastes	Listed Abo	
	DOCH DOOL DOOT DOOR DOIC	F001 F003 F0		с.		<b>d.</b>	
	15. Special Handling Instructions and Additional Information 24 Hour Emergency Response Telephone No.: Cl DOT ERG 160 WEAR PROTECTIVE CLOT  5 12 ADERES 16301 E 1444  16. GENERATOR'S CERTIFICATION: 1 hereby declare that the contents marked, and labeled, and are in all respects in proper condition of the contents of th	THING SAN L	Sale: CAIU (1812.0) I occurately descrit	E Order ( (A) bed above t	ay proper shipping no	ome and ar	e classified, packed,
	If I am a lorge quantity generator, I certify that I have a program practicable and that I have selected the practicable method of tree and the environment; OR, if I am a small quantity generator, I have available to me and that I can afford.	atment, storage, or disposal curi	rently available to	me which	minimizes the presen	t and futur	e threat to human health
'	Printed/Typed Nome A. SMIFF, MITHER	2 Signature	W A	Lef	/	c <sup>Mo</sup>	8 096 98
	77. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials	Signature 4	(1) a. e	int		0	8 06 9
	Printed/Typed Name	Signature				Moi	nih Day Year
	19. Discrepancy Indication Space .	÷					
.	20. Facility Owner or Operator Certification of receipt of hazardous m Printed/Typed Name	naterials covered by this manifest Signature	t except as noted i	n liem 19.		Мо	nth Day Year
'		-					

EMERGENCY OR

9

982681J37 RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

VINT A. SAINT, ALGOT TOO	V (hor / Hall)	15	06	100
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Month	Day	Year
	1	014	1 6	P
18. Transporter 2 Acknowledgement of Receipt of Materials	,		_	
Printed/Typed Name	Signoture	Month	Day	Year
				<u> </u>
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

DO NOT WRITE BELOW THIS LINE.

9

CASE

C

Day

Year

Month

Printed/Typed Name  ANG A. G. D. J.	Signature	Bull	Mon	th Doy Si UU 9	ምር   
17. Transporter 1 Acknowledgement of Receipt of Materials	*				
Printed/Typed Name	شمر Signolure		Моп	th Day Ye	ear
TONN STOKER	14/10/20	and Election	$ \mathcal{O} $	8062	12

18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature

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 Day Signature Printed/Typed Name

DO NOT WRITE BELOW THIS LINE.

ö

MB No. 2050-0039 (Expires 9-30-99) Form designed for use on elite (12-pitch) typewriter.	See Instruction	ons on back (	ot page	6.	•	nt of Toxic Subst acromento, Calif	
UNIFORM HAZARDOUS WASTE MANIFEST	's US EPA ID No.	Manifest Dacument	1 No.	2. Page 1	Information	in the shaded a red by Federal k	ireas
3. Generator's Name and Mailing Address 17.701 (2)	02 192 St. C C 94518	. W.		lanifest Document I	Yumber 9	8269	128
4. Generator's Phone ( " ) 3/7 // 5							
5. TEVEROREEN ENVIRONMENTAL SERVICES	6. US EPA ID Number		C. State Tr	ansporter's ID			
	C A D 9 8 2 4 1	1 3 2 8 2	D. Transpo	orter's Phone	(800) 97	72-6284	拼音的
7. Transporter 2 Company Name	8. US EPA ID Number		L	ansporter's ID			
				rter's Phone	1. 2.	<u> </u>	
Segendifiservices, inc. adatalouxv 1001 Enriyesa Read	10. US EPA ID Number		G. State F	AD B	• 4 • •	4 3 1 0	L
San Jose, CA 95133	C A D 0 5 9 4 9	3  4  8  1  0	raciniy	3 Filone	1-408-4	51-600C	
11. US DOT Description (including Proper Shipping Name, Haza	ird Class, and ID Number	12. Cor	Type	13. Total Quantity	14. Unit Wt/Vol	l. Waste Num	ber
o.			1	5.0		State 223	- S-P.
Hon-RERA Huzardous-waste, Solid- S.D.			D-M	. , , , <del>(2</del>	<u>-p_5</u> /	EPA/Other Da	DA.S.
3, UN 1993, PGIII.	o acs			<u> </u>	1	State 3	3
3,001993, PGIII.	·	cr11	$  au_{ T} $	02240	G	EPA/9DOC	7
c.						State	As ne P
·				1 1 1 1		EPA/Other	1123
d.		<del> </del>				Skate 2	在 1773
						EPA/Öther	
J. Additional Descriptions for Materials Listed Above			K. Hondlir	ng Codes for Waste	Listed Abov	AC PORT OF THE PROPERTY OF THE	
-Non-RBRA-Olly-Debris, Profile #		<b>*</b>	0.		<b>b</b> .	61.45	
118 water toos High BTU		1-			4.2		
						. 1	
15. Special Handling Instructions and Additional Information. 24 Hour Emergency (1689966) Telephono No.		Invol	C8 # 7	11303	501		į
Deserve the second content of	UOTHING	Sales	s Order#	96350	046		•
GENERATOR'S CERTIFICATION: I hereby declare that the ca marked, and labeled, and are in all respects in proper cond							ed,
If I am a large quantity generator, I certify that I have a propracticable and that I have selected the practicable method and the environment; OR, if I am a small quantity generator available to me and that I can afford.	of treatment, storage, or disposal cu	rrrently available to	me which π	ninimizes the prese	nt and luture	threat to huma	n health
Printed/Typed Name	Signature	11,		1 1	Mon	5 31	GYEOF.
17. Transporter 1 Acknowledgement of Receipt of Materials Printed (Typed Name	Signature V	4.)			Mon	3 13 Doy	(CYear)
Steven Ducharme	Atue.	- Duck	tari	مريكس	0	3 37	1918
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature		-		Мол	th Day	Year
	3.3.3.3						
19. Discrepancy Indication Space	· ··						
20. Facility Owner or Operator Certification of receipt of hazard		st except as noted i	n Item 19.		1	ıt. ~	
Printed/Typed Name	Signature				Mon	ith Day	Year

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

2.00		
17 Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature //h2.	Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials		T
Printed/Typed Name	Signature	Month Day Year

, the blackpane, management				
	sceipt of hazardous materials covered by this manifest except as noted in h	item 19. Month	Day	Year
Printed/Typed Name	and the second s		<u></u>	<u> </u>
<u> </u>	DO NOT WRITE BELOW THIS LINE			

ö

DO NOT WRITE BELOW THIS LINE.

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Month

Day

Year

Department of Toxic Substances Contro Sacramento, California

WASTE MANIFEST CALABOTE TO A STATE OF A STAT	1/19/92/96 4	ر ا ندا	101	of /	is not required by Federal law.
	,	<u></u>	A. State	Acrifed Userlaid	
	- P-19	_ // .			
4. Generator's Phone (1971) 77 3 177 (1974) 77 4 177 (1974) 77 3 177 (1974) 77 (19	4 5 500 5 W9		B State	Generation V.C.	
5. Transporter 1 Company Name 6.	US EPA ID Number		C., State	Transporter s (0.2)	The state of the s
	31 <b>~!</b> · ! ~ ! <b>?</b> ! ~! ~! <b>?</b>	15 17 13	D. Transp		
7. Transporter 2 Company Name B.	US EPA ID Number	15 16 13	1 12	(ansporer (I)	74 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -
		1 1 1	F. Transp	orter & Phone 3	
Designated Facility Name and Site Address     10.	US EPA ID Number	<del> </del>	Ex Nati November 1978	/aelin//.ic.	
Sattley Klein (Allage 1877) 1600 11600 Aboth Aprils Fish		•		/s Phone (Second	aridiskini
APGCOUTE LIMB 84020 111	110171-111512	<u> </u>			
11. US DOT Description (including Proper Shipping Name, Hazard Class	ss, and ID Number)	12. Cor No.	tainers Type	13. Total Quantity	14, Unit Sales See See See See See See See See See S
Cal companion of the contest	型 召员 . )				Sign 3
9 8 250 2 P 27	" ' hiphraylist	CK 12	01/3	CIC.151010	t mark
b. /		1 1 1 2		<u> </u>	CUL
: 	· · · ·	, ,	:	1 1 1 1	EPA/Ohat 2027 A
с.			<u> </u>		
	:				PACE
d.					
			ĺ		197.4/coll./1978
J. Additional Descriptions for Materials Listed Above		and second	المنظرة الأخوا	ng Codes for Was	
IN BUS CONTAINING POBS B	77 ule 2700 - L	ito 1			
A September 1		111		material and the	
				5. NOTA 9	
15. Special Handling Instructions and Additional Information  Use frequence Charles, Charles	Se CONTRACT #	C 15	~-	_	3,70 A630
1000 1190 min	y	3 W	<b>7</b> 75 - 7	7100	
1,7,5					<b>.</b>
GENERATOR'S CERTIFICATION: I hereby declare that the content     packed, marked, and labeled, and are in all respects in proper con-					
If I am a large quantity generator, I certify that I have a progra	, , , , ,	_	**		
economically procticable and that I have selected the practicable r threat to human health and the environment; OR, if I am a small	method of treatment, storage, o	r disposal ce	urrently avo	ailable to me which	minimizes the present and future
waste management method that is available to me and that I can a Printed/Typed Name			<del>-</del>	·	Month Day Year
				*	111/1/11
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature				Month Day Year
MAICLESCUTH	1,1,200084	<u> </u>	T/		1/19/1/5/9/5
18. Transporter 2 Attriowiedgement of Receipt of Materials Printed/Typed Name	Signature				Month Day Year
19 Disconness Indication Space					
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous me	aterials covered by this manifest	except as n	oted in Hen	n 19.	
Printed/Typed Name	Signature				Month Day Year
1	I .				

DO NOT WRITE BELOW THIS LINE.

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	PINCE IBLLING	Signature		091949
17. Transporter 1 Acknowledgemei	nt of Receipt of Materials			
Painted/Typed Name	a . a .1	Signature	1	Month Day

18. Transporter 2 Acknowledgement of Receipt of Materials Signature Printed/Typed Nomi

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 Signature Printed/Typed Name

Day

DO NOT WRITE BELOW THIS LINE.

28.1.10.3e



# Gertificate of Recycling



- Evergreen certifies that the used all, used antifreeze, oily water, and used oil filters collected from your facility were fully recycled in eccordance with all applicable state and federal regulations.
- Evergreen Environmental Services also provides emergency spill response: vacuum cleaning of tanks, clarifiers, and sumps; transportation of hazardous waste, steam cleaning, management of oily solids, and treatment of non-hazardous wastewater.
- For more information regarding the services Evergreen provides, please call:

1-800-972-5284

# We appreciate your business!

This certificate also serves as notification, as required by Title 22, Section 66264.12, that Evergreen Oil, Inc. has the appropriate permits for, and will accept the wastes manifested to Evergreen facilities.



"dedicated to the protection of the environment"



	UNIFORM HAZARDOUS	1. Generator's L	JS EPA ID No.	Manifest Doc	ument	No.	2. Page 1		n in the shaded areas ired by Federal law.
	WASTE MANIFEST	CARDO	1108512110	3 14 1	6	816	of <b>1</b>	is non redis	
	3. Generator's Name and Mailing Address		. k Hollo d. Si.	<u> </u>		A. State N	Agnifest Document N		00016
	) ·	198 the wiel	$\mathscr{L}$		ŀ	B. State G	ienerator's ID	3	<u>82346</u>
	4. Generator's Phone (510 ) 782 - 11	ajour d. Car	वम्हमान			_اُ		1.1.1	
	5. Transporter 1 Company Name		6. US EPA ID Number			C. State T	ransparter's ID		The services
	ECOLOGY CONTROL INDU	STRIES	C A D 9 8 2 0	3 <sub> </sub> 0 <sub> </sub> 1 <sub> </sub> 7	3		orter's Phone	5	10-235-13
	7. Transporter 2 Company Name	·	8. US EPA ID Number				ransporter's ID		
ŀ							orter's Phone acility's ID	<del></del>	
	9. Designated Facility Name and Site Address ERICKSON INC.	55	10. US EPA ID Number						
1	255 PARR BLVD RICHMOND CA 94801		C  A D  0  0  9 4	۵، ۵ <sub>۱</sub> ۵ ، ۵	12	H. Facility	r's Phone	- 51	0-235-13
			<u> </u>			ainers	13. Total	14. Unit	<u> </u>
l	11. US DOT Description (including Proper Shi			N	ь.	Туре	Quantity	Wt/Vol	I. Waste Number State 512
	WASTE EMPTY STO					TP		Р	EPA/Other NON
G E	Non-RCRA hazardou	s waste so	IIQ	00	2	* 1	13485	<u> </u>	State
Ñ	b.								EPA/Other
Ř									
A T	<b>c</b> .		a a						Slote
O R				1 1	1				EPA/Other
	d.					-			State
1					1		1		EPA/Other
ł	J. Additional Descriptions for Materials Listed	d Above	,			K. Handli	ing Codes for Waste	s Listed Abo	ove
	QTY. 2 EMPTY STOR		23811 23812			a.			
ļ	15 LBS DRY ICE PER 1000 GAL		HAVE BEEN INERTED 'Y	AAITU	ž.	<b>c</b> .	, , , A.W.	<b>d</b>	
i	West spring or tare of the			20 517		OCA	TION		
1	24 Hour Emergency Te	Jenhone Nu	ing when nandin	N. 31	12/		mal 04		
1	24 Hour Ellicigency 10	ontact: DAV	SADEF	5.	9 <b>0</b> N	j <b>e.</b> j	tor, ca. 91	1578	ERO
	124 Hour Emergency Co								re classified, packed,
	24 Hour Emergency Co		note of this considerment are fully a	and accurately		nternotion	al and national gove	ernment regu	ulations.
	16. GENERATOR'S CERTIFICATION: Therebe marked, and labeled, and are in all res	y declare that the contr	ents of this consignment are fully on for transport by highway acco	and accurately ording to appli	cable	,	/		
	16. GENERATOR'S CERTIFICATION: I hereb marked, and labeled, and are in all resp If I am a large quantity generator, I cer	by declare that the continue to pects in proper conditions of the continue to proper the co	ram in place to reduce the valur	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press		
	16. GENERATOR'S CERTIFICATION: I hereb marked, and labeled, and are in all rest  If I am a large quantity generator, I cer practicable and that I have selected the and the environment; OR, if I am a small	by declare that the continue to pects in proper conditions of the continue to proper the co	ram in place to reduce the valur	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press		
	16. GENERATOR'S CERTIFICATION: I hereb marked, and labeled, and are in all rest  If I am a large quantity generator, I cer procticable and that I have selected the and the environment; OR, if I am a sma ovailable to me and that I can afford.  Printed/Typed Name 4	by declare that the control pects in proper condition tify that I have a prog practicable method of all quantity generator,	ram in place to reduce the volur treatment, storage, or disposal of these mode a good taith effort	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press		anagement method th
<b>▼</b>	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all responsible to the practicable and that I have selected the and the environment; OR, if I am a small and the environment of the practicable to me and that I can afford.  Printed/Typed Name  A SATUM	by declare that the control pects in proper condition rify that I have a prog practicable method of all quantity generator,	ram in place to reduce the volur treatment, storage, or disposal of these mode a good taith effort	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press	est waste ma	anagement method th
TRAM	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all results of the marked, and labeled, and are in all results of the marked, and labeled, and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment of I am a small and the environment of the environmen	py declare that the control pects in proper condition rify that I have a prog practicable method of all quantity generator, first of Materials	ram in place to reduce the volur treatment, storage, or disposal of these mode a good taith effort	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press	st waste ma	anagement method th
TRANSPA	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all results of the marked, and labeled, and are in all results of the marked, and labeled, and the environment; OR, if I am a small ovailable to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receiver of the market	py declare that the control pects in proper condition rify that I have a prog practicable method of all quantity generator, first of Materials	ram in place to reduce the valur treatment, storage, or disposal thave mode a good faith effort	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press	st waste ma	anagement method the
TRAKSPORTS	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all results of the marked, and labeled, and are in all results of the marked, and labeled, and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment; OR, if I am a small and the environment of I am a small and the environment of the environmen	py declare that the control pects in proper condition rify that I have a prog practicable method of all quantity generator, first of Materials	ram in place to reduce the volur treatment, storage, or disposal I have mode a good faith effort	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press	Mc	anagement method the
TRANSPORTER	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all responses of the marked, and labeled, and are in all responses of the marked, and labeled, and the environment; OR, if I am a small ovailable to me and that I can afford.  Printed/Typed Name  BRIAN I MCKNUL  18. Transporter 2 Acknowledgement of Received/Typed Name	py declare that the control pects in proper condition rify that I have a prog practicable method of all quantity generator, first of Materials	ram in place to reduce the voluntrealment, storage, or disposal thave mode a good faith effort  Signature  Signature	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press	Mc	and Day onth Day
TRANSPORTER FA	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all responses in all responses and in a large quantity generator, I comprocticable and that I have selected the and the environment; OR, if I am a small control of the environment; OR, if I am a small control of the environment; OR, if I am a small control of the environment; OR, if I am a small control of the environment; OR, if I am a small control of the environment; OR, if I am a small control of the environment of the environm	py declare that the control pects in proper condition rify that I have a prog practicable method of all quantity generator, first of Materials	ram in place to reduce the voluntrealment, storage, or disposal thave mode a good faith effort  Signature  Signature	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press	Mc	and Day onth Day
F	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all responses of the marked, and labeled, and are in all responses of the marked, and labeled, and the environment; OR, if I am a small ovailable to me and that I can afford.  Printed/Typed Name  BRIAN I MCKNUL  18. Transporter 2 Acknowledgement of Received/Typed Name	py declare that the control pects in proper condition rify that I have a prog practicable method of all quantity generator, first of Materials	ram in place to reduce the voluntrealment, storage, or disposal thave mode a good faith effort  Signature  Signature	ne and loxicit	y of w	oste genero	/ sted to the degree I minimizes the press	Mc	and Day onth Day
F A	16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all responses of the marked, and labeled, and are in all responses of the marked, and labeled, and the environment; OR, if I am a small ovailable to me and that I can afford.  Printed/Typed Name  BRIAN I MCKNUL  18. Transporter 2 Acknowledgement of Received/Typed Name	py declare that the control pects in proper condition this that I have a prag- practicable method of all quantity generator, first of Materials	Signature  Signature	ne and toxicit currently avail to minimize m	y of wo	aste generation me witch e generation	/ sted to the degree I minimizes the press	Model Model	and Day onth Day

DTSC 8022A (4/97) EPA 8700—22

Yellow: GENERATOR RETAINS

d.  J. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(S) # 238/7  TANK(S) HAVE BEEN INERTED WITH  11. Special Intelligentary and Additional Information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 1455 16301 6 174 57. 945  16. GRINAROS SERIFICATION: Thereby decide that his contents of this consignment are fully and accurately described above by proper shipping name and are classified, packet 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 procession and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the degree I have determined to be econom protection to me and that I can affect the small property of the procession of the consistency of the process of the consistency of the process of the proce	T	HAUSANI HITIBRANG	1. Generator's US EPA	HD No. Mo	nifest Document	No.	2. Page 1		n in the shaded are
3. Generation's Norma and Multiple Address  15 of 11 19 MANNICK 19  4. Generator's Phone  1 19 MANNICK 19  5. Incapporter I Company Norma  1				ج امینار وری کرین	· . / / <del>7</del> :	7. 11	1 -1	is not requ	ired by Federal law
Senerotor's Phone 1					7 /	A. State M	Ignifest Document	Number	- સુક્ષ્મ કર્યું - ૧ - ફાન્સફોફેલ્ડ
A Generator's Phone I "YINDING ON SUBSTANCES IN Substances		Est at A	F THAIL HO	gland Se.		7 0	the second secon		82347
Part		1498 A	JAMILICK LM	,		8. State G		<u> Salatan na Salata</u>	· 中華山東蘇
Part		4. Generator's Phone ( ) ^/	want ca.	94544		1			
Second Company Name   Second Street Address   10. US (FA ID Number   10. Second Street Address   10. US (FA ID Number   10. Second Street Address   10. US (FA ID Number   10. Second Street Address   10. US (FA ID Number   10. Second Street Address   10. US (FA ID Number   10. Second Street Address   10. US (FA ID Number   10. Second Street Address   10. US (FA ID Number   10. Second Street Address   10. US (FA ID Number   10. Second Street Address   10. Second Street Addr		1	= 1	= :	-	C. State Te	'ansporter's ID	····	
7. Transparer 2 Company Nome  8. Us EPA ID Number  9. Designated Facility Name and Site Address  10. Us EPA ID Number  FERCKSON INC. 235 PARR BLVD  RICHMOND. CA 94801  11. Us DOT Description including Proper Shipping Name. Hazard Class, and ID Number)  9. WASTE EMPTY STORAGE TANK  Non-RCRA hazardous waste solid  1. Month Park Number  1. Additional Descriptions for Moterials Listed Above  OTY 2 EMPTY STORAGE TANK  Non-RCRA hazardous waste solid  1. Additional Descriptions for Moterials Listed Above  OTY 2 EMPTY STORAGE TANK(8) # 232/7  2. 32/4  TANK(S) HAVE BEEN INERTED WITH  1. Special Park Number (1)		BYARS TAKI	49 <u>~</u> ,	11118234	6207				
9. Chairpowed facility Name and Site Address 9. Chairpowed facility Name and Site Address 10. US EPA D Number ERICKSON INC. 255 PARR BLVD RICHMOND: CA 94801 11. US DOT Description including Proper Shipping Name, Hazard Class, and ID Number) 11. US DOT Description including Proper Shipping Name, Hazard Class, and ID Number) 11. US DOT Description including Proper Shipping Name, Hazard Class, and ID Number) 11. US DOT Description including Proper Shipping Name, Hazard Class, and ID Number) 12. Additional Descriptions for Materials Used Above 13. Additional Descriptions for Materials Used Above 14. Additional Descriptions for Materials Used Above 15. Additional Descriptions for Materials Used Above 16. Ship Number 17. Additional Descriptions for Materials Used Above 17. Additional Descriptions for Materials Used Above 18. Ship Number 19. Additional Descriptions for Materials Used Above 19. Ship Number 19. Additional Descriptions for Materials Used Above 19. Ship Number 19. Additional Descriptions for Materials Used Above 19. Ship Number 19. Central Control			STRIES G	AIFI-OF ST210131	0111713			4/95	<del>10-235-</del> 1
9. Designosed facility. Name and Site Address 10. US SPA ID Number  ERICKSON INC. 255 PARR BLVD  RICHMOND: CA 94801 11. US DOT Description including Proper Shipping Name. Hozard Class, and ID Number)  No. Type  Occurring Work  II. World Number  O. State EMPTY STORAGE TANK  NOn-RCRA hazardous waste solid  II. Additional Descriptions for Materials Listed Above  O. State  ERICKSON INC.  II. World Number  O. State  II. Us DOT Description including Proper Shipping Name. Hozard Class, and ID Number)  O. Type  III. Us World Number  O. Type  III. Us World Number  III. Us World Number  III. Additional Descriptions for Materials Listed Above  O. State  ERICKSON INC.  III. World Number  III. Us World Number  III. Us World Number  III. Us World Number  III. Us World Number  III. Additional Descriptions for Materials Listed Above  O. State  III. Additional Descriptions for Materials Listed Above  III. Addi					1 1 1	F Transpa	rter's Phone		
ERICKSON INC. 235 PARR BLVD  RICHMOND: CA 94801  1US DOT Description functioning Proper Shipping Name, Hazard Clans, and ID Number)  No. 1792  WASTE EMPTY STORAGE TANK  Non-RCRA nazardous waste solid  J. Additional Descriptions for Materials Listed Above  TANKS) HAVE BEEN INERTED WITH  Store  L. Additional Descriptions for Materials Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes for Wastes Listed Above  TANKS) HAVE BEEN INERTED WITH  Store International Codes for Wastes Listed Above  A Honding Codes		9 Designated Excility Name and Site Address	. 10	IIS EPA ID Number		<u> </u>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
255 PARR BLVD RICHMOND: CA 94901 II. US DOT Description Including Proper Shipping Name. Hazard Class, and ID Number!  D. C. WASTE EMPTY STORAGE TANK Non-RCRA hazardous waste solid  D. L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(0) # 27 26 7.  L. Additional Descriptions for Materia			, , , ,	00 (1) 10 110 110					
RICHMOND: CA 94801  11 US DOT Description including hoper Shipping Name, Hozard Class, and ID Number)  No. Type Occentry  No. T						H. Facility	's Phone	X an or	y Maria and Sala
11. US DOT Description fincluding Proper Shipping Name, Hazard Class, and IO Number)  No.   Type   Quantity   W/Vol   World Number    No.   Type   Quantity   W/Vol   World Number    State   State   State   State    PARCHAR   No.   State   State   State    PARCHAR   No.   State   State   State    PARCHAR   State   State   State   State    I. Additional Descriptions for Materials Listed Above    OTY   Z   EMPTY STORAGE TANK(s) & 2 2 5 / 7.  TANK(s) HAVE BEEN INERTED WITH    11   State   State   State   State   State   State   State    Descriptions for Materials Listed Above    OTY   Z   EMPTY STORAGE TANK(s) & 2 2 5 / 7.  TANK(s) HAVE BEEN INERTED WITH    12   State   Sta				N H A A A A A	لولولداي			- 51	0-235-1
WASTE EMPTY STORAGE TANK Non-RCRA hazardous waste solid    Color		11. US DOT Description (including Proper Ship	oping Name, Hazard Class,	and (D Number)	<b>—</b>	, —		Wt/Vol	I. Waste Numbe
Non-RCRA hazardous waste solid    State   Stat									State .
J. Additional Descriptions for Materials Listed Above  d.  L. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(S) # 23 8/7  23 2/4 TANK(S) HAVE BEEN INERTED WITH  11. Special Physician and Additional Information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 5/0 3/7 / 1/7 5  CONTROLLED TO SECULATION: 1/2 1/7 5  CONTROLLED TO SECURATION: 1/2 1/7 5  CONTROLLED TO SECU		WASTE EMPTY STO	PRAGE TANK	(				l	EPA/Other
d.  J. Additional Descriptions for Moterials Listed Above  OTY. Z. EMPTY STORAGE TANK(S) # 23 5/3  TANK(S) HAVE BEEN INERTED WITH  J. Special Handling Institutions and Additional Information  TANK(S) HAVE BEEN INERTED WITH  J. Special Handling Institutions and Additional Information  Wear appropriate protective Coloning when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 1455  LOGOL E 144 57  White State of the State of		Non-RCRA hazardous	s waste solid		0012	115	70000		Stote NO
d.  1. Additional Descriptions for Moterials Listed Above  OTY. 2 EMPTY STORAGE TANK(S) # 235/3  232/4  TANK(S) HAVE BEEN INERTED WITH  1. Special Hadding Introchons and Additional Information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 1455  10. Tole 14 57 455  24 Hour Emergency Contact  DELL Special Hadding and blooked, and one in all respects in proper condition for transport by highway occarding to applicable intermentational and actional growners trappling in one and are dossified, packet market, and lobeled, and one in all respects in proper condition for transport by highway occarding to applicable interminental and actional growners trappling in an analysis of the protectioble maked of treatment, storage, or disposal currently available to me which shainings the present and future invested to the market, and to be an analysis of the protectioble method of treatment, storage, or disposal currently available to me which shainings the present and future invested to be a contained to me and find I can a small quantity generator, I have made a good fall will fort in minimize my waste generated to the degree I have determined to be economicable to me and find I can afford  Finited/Typed Name  Signature  12. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  Printed/Typed Name  Signature  Month Day  Printed/Typed Name  Signature  Month Day  Printed/Typed Name  Signature  Month Day		b.						-	
d.    September   State   Stat							1111		EPA/Other ::
d.  Series  Environmental State Above  OTY 2 EMPTY STORAGE TANK(S) & 238/7  TANK(S) HAVE BEEN INERTED WITH  11. Special franking instructions and Additional information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 1455 1630 6 174 57. 445  15. GRIPPATORS CERTIFICATION: 100 16 174 57. 445  16. GRIPPATORS CERTIFICATION: 100 16 174 57. 445  17. In an a large quantity generator, I certify that have a program in place to radius the volume and toxicity of water and national government regulations.  If I am a large quantity generator, I certify that have a program in place to radius the volume and toxicity of water and national government regulations.  If I am a large quantity generator, I certify that have a program in place to radius the volume and toxicity of water generated to the deperation of the convolument. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the depart have the human and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the depart have the human and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the depart have the human and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the depart have the human and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the depart have the human and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the depart have the human and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the depart have the human and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my w		c.	······································					-	State
1. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(8) # 238/3  TANK(9) HAVE BEEN INERTED WITH  13. Special Professory Services and Additional Information	)	į						1.	EPA/Other an
1. Additional Descriptions for Materials Listed Above  OTY				<del></del>				<u> </u>	磁性動物等
1. Additional Descriptions for Materials Listed Above  OTY. 2 EMPTY STORAGE TANK(S) # 238/7.  TANK(S) HAVE BEEN INERTED WITH  13. Special Handling Instructions and Additional Information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Contact: David Signature  16. GENERATIONS: Tensify 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 econom practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which mylmizes the present and future threat to human and the entrements; (N, II am a small quantity generator, I have made a good told affort to minimize my waste generated to the degree I have determined to be econom and that is a marked and future threat to human and that is more and future threat to human and the entrements. (N, II am a manufacture threat to human and the entrements of the best waste management enthal conciliate to me and that is an advantagement of the best waste management and the printed Typed Name  Printed/Typed Name  Signature  Month Day  19. Discrepancy Indication Space  Month Day  Printed/Typed Name  Signature  Month Day  Printed/Typed Name  To Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Month Day	٠,	d.				e e			oldie:
Annual State of the properties							1111		EPA/Other
A STANKIS) HAVE BEEN INERTED WITH  13. Special First And Additional Information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 1455 16301 E 14 57 945  24 Hour Emergency Contact: Deux Stiller Still		J. Additional Descriptions for Materials Listed	Above			K. Handlis	ng Codes for Wasi	es Listed Abo	we Tale
TANK(S) HAVE BEEN INERTED WITH  13. Special Handling Instructions and Additional Information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 1455 16301 6 14 57, 445  24 Hour Emergency Contact: Druct Salve Statistical Statistics Statistical Statistics Statistics Statistical Statistics Statist		<u>_</u>		-3 -0%		o.		þ	
TANKES HAVE BEEN INERTED WITH  13. Special Handling Instructions and Additional Information  Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 195 10701 E 197 9 9 1 197 9 10701 E 197 9 1 197 9 10701 E 197 9 1 197 9 10701 E 197 9 1 1						c.		d	
Wear appropriate protective clothing when handling. SITE LOCATION:  24 Hour Emergency Telephone Number: 510 317 1455 10301 E 144 57  24 Hour Emergency Contact: 1886 Smile Smi		QTYEMPTY STORA	TANKIN HAV	E BEEN INERTED W	ITH	-		43,4-33	
16. GENERATOR'S CERTIFICATION: Thereby 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 transpart 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 econom practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which mynimizes the present and future threat to human and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the degree I have determined to be econom 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 to variable to me and that I can afford  Printed/Typed Name  Signature  Month Day  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  19. Discrepancy Indication Space		23814					<b></b>	,	
16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are clossified, packet marked, and labeled, and are in all respects in proper condition for transparet by highway occording to applicable international and notional 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 econom 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 and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the degree I have determined to be econom 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 available to me and that I can afford.  Printed/Typed Name  Signature  Month Day  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  19. Discrepancy Indication Space		232/4 13 USO PRY ICE PER 1000 JOAN IN 13 Special Handling Instructions and Addition	TAIS CAPACITY						•
16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are clossified, packet marked, and labeled, and are in all respects in proper condition for transparet by highway occording to applicable international and notional 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 econom 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 and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated to the degree I have determined to be econom 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 available to me and that I can afford.  Printed/Typed Name  Signature  Month Day  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  19. Discrepancy Indication Space		232/4 13 USO PRY ICE PER 1000 JOAN IN 13 Special Handling Instructions and Addition	TAIS CAPACITY	when handling	. SITE !	LOCĂ	TION:	#A	` . •
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 econom 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 and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generated and select the best waste management method available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  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  Month Day		232/4 13 Special Monday Control of State of Addition of State of S	ctive clothing	when handling er: 510 317	. SITE!	LOCA'	TION:	14 A	57. 445;
practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and tuture threat to human 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 available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  19. Discrepancy Indication Space		232/4 13 Special Monday Control of State of Addition of State of S	ctive clothing	when handling er: 510 317 Salveff	SITE I	LOCA'	TION: 1301 E LEAND	14 h	57. 445 1. ER
practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and tuture threat to human 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 available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  19. Discrepancy Indication Space		232/4  13 LBO DRY JOE PER 1999 JANA 13 LBO DRY JOE PER 1999 JANA 13 LBO DRY JOE PER 1999 JANA 14 LBO DRY JOE PER 1999 JANA 15 LBO DRY JOE PER 1999 JANA 16 JENERATOR'S CERTIFICATION: Thereby	ctive clothing ephone Numb	this consignment are fully and o	ccurately descri	bed above b	y proper shipping	name and are	e classified, packet
available to me and that I can afford  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month Day  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		232/4/ 13 Special Hondling Instructions and Addition Wear appropriate prote 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: 1 hereby marked, and labeled, and are in all respe	ective clothing lephone Numb	this consignment are fully and c ranspart by highway occording	rccurately descrit g to applicable i	bed above b nternational	y proper shipping and national gove	name and are ernment regu	e classified, packed latians.
17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Nonth Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  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  Month Day  Month Day		23 2 44 13. Special Handling Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: Thereby marked, and labeled, and are in all respe	ctive clothing ephone Numb	this consignment are fully and c ranspart by highway occording	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and are ernment regu have determent and future	e classified, packed platians.
Printed/Typed Name  Signature  Nonth Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  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  Month Day		23 2 44  13. Special Handling Instructions and Addition  Wear appropriate prote  24 Hour Emergency Co  16. GENERATOR'S CERTIFICATION: Thereby marked, and labeled, and are in all respectively.  If I am a large quantity generator, I certification and the environment; OR, if I am a small	ctive clothing ephone Numb	this consignment are fully and c ranspart by highway occording	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and are ernment regu have determent and future	e classified, packed platians.
Printed/Typed Name  Signature  Nonth Day  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  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  Month Day	r	13. Special Handling Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all respectively.  If I am a large quantity generator, I certification and the environment; OR, if I am a small available to me and that I can afford.	ctive clothing ephone Numb	this consignment are fully and c ranspart by highway according place to reduce the volume at ent, storage, or disposal curre made a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and are ernment regu have determent and futur- est waste mai	e classified, packed latians. nined to be econome threat to human nagement method
18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day  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	7	Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: 1 hereby marked, and labeled, and are in all respectively  If I am a large quentity generator, I certification and the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  Printed/Typed Name	ctive clothing lephone Numb ntact: Drevided are that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	this consignment are fully and c ranspart by highway according place to reduce the volume at ent, storage, or disposal curre made a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and are ernment regu have determent and futur- est waste mai	e classified, packed latians. nined to be econome threat to human nagement method
Printed/Typed Name  Signature  Month Day  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	7	13. Special Handling Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: 1 hereby marked, and labeled, and are in all respectively.  If I am a large quantity generator, I certificable and that I have selected the pand the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip	ctive clothing lephone Numb ntact: Drevided are that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	his consignment are fully and cransport by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and arrenment regular have determent and futurest waste mai	e classified, packed latians.  nined to be econon e threat to human nagement method
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	7	Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: 1 hereby marked, and labeled, and are in all respectively and the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name	ctive clothing lephone Numb ntact: Private declare that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	his consignment are fully and cransport by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and arrenment regular have determent and futurest waste mai	e classified, packed latians.  nined to be econon e threat to human nagement method
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	· ·	13. Special Honding Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all respectively in a large quantity generator, I certificable and that I have selected the pand the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip	ctive clothing lephone Numb ntact: Private declare that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	his consignment are fully and cranspart by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and arrennent regular have determent and futurest waste mai	e classified, packed latians.  Initial to be economic ellipse to human magement method on the Day of
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	7	13. Special Honding Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all respectively in a large quantity generator, I certificable and that I have selected the pand the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip	ctive clothing lephone Numb ntact: Private declare that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	his consignment are fully and cranspart by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and arrennent regular have determent and futurest waste mai	e classified, packed latians.  Initial to be economic ellipse to human magement method on the Day of
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		13. Special Handling Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all respectively in a large quantity generator, I certificable and that I have selected the pand the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip Printed/Typed Name	ctive clothing lephone Numb ntact: Private declare that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	his consignment are fully and cranspart by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and arrennent regular have determent and futurest waste mai	e classified, packed latians.  Initial to be economic ellipse to human magement method on the Day of
Printed/Typed Name Signature Month Day		13. Special Handling Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all respectively in a large quantity generator, I certificable and that I have selected the pand the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip Printed/Typed Name	ctive clothing lephone Numb ntact: Private declare that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	his consignment are fully and cranspart by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and arrennent regular have determent and futurest waste mai	e classified, packed latians.  Initial to be economic ellipse to human magement method on the Day of
Printed/Typed Name Signature Month Day	-	13. Special Handling Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all respectively in a large quantity generator, I certificable and that I have selected the pand the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip Printed/Typed Name	ctive clothing lephone Numb ntact: Private declare that the contents of ects in proper condition for the first that I have a program in racticable method of treatment quantity generator, I have	his consignment are fully and cranspart by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m	recurately descrit g to applicable in and toxicity of we only available to	bed above b nternational aste generat	y proper shipping and national government of the degree Infinitely the presentation of	name and arrennent regular have determent and futurest waste mai	e classified, packed latians.  Initial to be economic ellipse to human magement method on the Day of
		15. Special Handling Instructions and Addition Wear appropriate prote 24 Hour Emergency Tel 24 Hour Emergency Co 16. GENERATOR'S CERTIFICATION: I hereby marked, and labeled, and are in all respectively in a large quantity generator, I certificable and that I have selected the pand the environment; OR, if I am a small available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receip Printed/Typed Name  18. Transporter 2 Acknowledgement of Receip Printed/Typed Name  19. Discrepancy Indication Space	ective clothing lephone Numb ntact: Of National Information of the contents of	his consignment are fully and cransport by highway according place to reduce the volume or ent, storage, or disposal curremade a good faith effort to m  Signature  Signature	iccurately descrit g to applicable i and toxicity of wo nity available to inimize my wast	bed above b international aste general me which n e generatio	y proper shipping and national government of the degree Infinitely the presentation of	name and arrenment regular have determent and futurest waste mai	e classified, packed platians.  Initial to be economic threat to human magement method  Initial Day  Initial Day  Initial Day  Initial Day  Initial Day  Initial Day

DO NOT WRITE BELOW THIS LINE.

		See instructions	on pack o	ot bade	o.		nt of Toxic Substances Control acramento, California
-	UNIFORM HAZARDOUS WASTE MANIFEST  1. Generator's	US EPA ID No. Mgg	lest Document	No. 5	2. Page 1		in the shaded areas red by Federal law.
	Generator's Name and Mailing Address  FITTHE CF TARK INLLIAM S  1498 HAMPICIC LANGE 1494  1494 HAMPICIC LANGE 4. Generator's Phone 510 1722-430		A. State Manifest Document Number 98234688  B. State Generator's ID				
-	5. Transporter 1 Company Name	6. US EPA ID Number		C. State	ransporter's ID	100	
- 1-	ECOLOGY CONTROL INDUSTRIES	CIAIDI9 8 2 0 3 0	11 7 3		parter's Phone		10-235-1393
	7. Transporter 2 Company Name	8. US EPA ID Number	1 1 1		ransporter's ID		
	9. Designated Facility Name and Site Address	10. US EPA ID Number	<u> </u>	G. State	Facility's ID		
- 1	ERICKSON INC. 255 PARR BLYD			H. Facilit	y's Phone	المساسلين	
Ļ	RICHMOND CA 94801	CAD009466	392	Ininers	13. Total	51	0-235-1393
	11. US DOT Description (including Proper Shipping Name, Hazard	Class, and ID Number)	No.	Туре	Quantity	Wi/Vol	1. Waste Number
	WÄSTE EMPTY STORAGE TA		/7/0 <b>2</b>	TO	16000	Р	State 512 EPA/Other
1	<u>Non-RCRA hazardous waste sc</u> <sub>ь.</sub>	DIId	992	17.	011600	1	NONE State
		×.		ļ ļ			EPA/Other
	c.			, <b>.</b>			State
					1_ _		EPA/Others
	d						State
L						<u> </u>	EPA/Other
1	J. Additional Descriptions for Maferials Listed Above  OTYEMPTY STORAGE TANK(S) #	TXNR 230A 23:	G/Z)	K. Handl	ing Codes for Waste	s Listed Abo	
1	EMPTY STORAGE TANK(S)	HAVE BEEN INERTED WIT	H ·	c.		d.	
	15 LBS DRY ICE FR 1000 GALLONS CAPACIT  15. Special Handling Instructions and Additional Information	ماهمت حسين بمسا	, . 	<u> </u>	- <u> </u>	201 3	- WH. 8T
	Wear appropriate protective cloth	ing when handling.	SITE	_OCA	TION: 70	را الرام المرار الرام	ONDO 14 9152
	24 Hour Emergency Telephone Nu	ımber:			وا بخبير		
	24 Hour Emergency Contact:  16. GENERATOR'S CERTIFICATION: I hereby declare that the cont	ante of this consideration fully and an		had ahaya	hy proper shipping p	ame and ass	ERG 171
	marked, and labeled, and are in all respects in proper conditi	on for transport by highway according	to applicable	internation	al and national gover	rnment regu	lations.
	If I am a large quantity generator, I certify that I have a prog practicable and that I have selected the practicable method of and the environment; OR, if I am a small quantity generator, available to me and that I can afford.	treatment storage, or disposal current	lv avaitable ta	me which	minimizes the preser	nt ona iviure	e mregr io nymon necilin
,	Printed/Typed Name VAF A ADUT NOTAT FOR	Signature	T. /	Till	<i></i>	0	409 98
	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature		• <del></del>		Mod	nth Day Year
	Pepito Jones	Tole (	2016	}		0	9 10 19 19 18
1	18. Trahsporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	<i></i>	nw.		Mo	nth Day Year
1	19. Discrepancy Indication Space			<del></del>			
						•	
1	20. Facility Owner or Operator Certification of receipt of hazardo	-	cept as noted	in Hem 19.		1	ath David
	Printed/Typed Name	Signature				Мо	nth Day Year
	1	OO NOT WRITE BELOW T	HIS LINE.	•			

GENERATOR RETAINS

A SHIL, CALL THE NATIONAL RESIDENSE CENTER 1-850

roved OMB No. 2050–0039 (Expires 9-30-99) nt or type. Form designed for use on elite (12-pitch	See Instructi			<del></del>	Se	nt of Toxic Substances Ca acramento, California
UNIFORM HAZARDOUS	Generator's US EPA ID No.	Manifest Document	No.	2. Porgel		in the shaded areas red by Federal law.
WASTE MANIFEST	(A14001/1081512141C	7 140	54	of 1		
3. Generator', Name and Mailing Address				Agnifest Document N	Sumber 9	8234589
11/14WAPO, CA 91/5	14		B. State C	Generator's ID		・
5. Transporter I Company Name	6. US EPA ID Number		C. State T	ransporter's ID	<del>- 1 - 1 - 1</del>	
	C.A.D.O.O.2.4	2.4.2.7.0	D. Transp	orter's Phone	18	10)783-288
7. Transporter 2 Company Name	C A D 9 8 2 4	04310	E. State T	ransporter's ID	(5)	101/03-200
7. Honsporter 2 Company Name				orter's Phone		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9. Designated Facility Name and Site Address	10. US EPA ID Number			acility's ID		
ERICKSON INC.						
255 PARR BLVD	C IN IDEALOUGH AL	616131013	H. Facility	y's Phone	51	0-235-1393
RICHMOND, CA 94801	C A D 0 0 9 4	12. Cor	tainers	13. Total	14. Unit	1991年
11. US DOT Description (including Proper Shipping	-	No.	Туре	Quantity	WI/Vol	1. Waste Number
WASTE EMPTY STOR			<b>T</b>		a	51,2 EPA/Other
Non-RCRA hazardous v	vaste solid	- $0$ $0$ $1$		1200	1	NONE
b.						Stote
		1 1				EPA/Other
<b>c</b> .						State
		.   , ,				EPA/Other
d.			<del>                                     </del>	<u> </u>		State
."						EPA/Other 7
			1 1 "		an Historia Mal-	3100
J. Additional Descriptions for Materials Listed Abo	اسبهار زار		K. Handli	ing Codes for Wast	b.	
QTYEMPTY STORAGE	TANK(8) #	WITH	<u></u>	2 - 3		
15 LBS DRY ICE PER 1000 GALLON	<del></del>	*****	¢.		Q. 37	
15 Special Handling Instructions and Additional I Wear appropriate protect		nd SITE	OCA	TION: 1/	2/1/	F INTHE
24 Hour Emergency Telep			w~~~~~~		100 M	M. 14 945
24 Hour Emergency Cont				577 Lt	ンイリーシグ	<i>ID) (A 915)</i> ERG 1
14 CENERATORIS CERTIFICATIONI I horoby dos	class that the contents of this consignment are fully	and accurately descr	ibed above	by proper shipping	name and ar	e classified, packed,
marked, and labeled, and are in all respects	in proper condition for transport by highway acc	ording to applicable	internation	al and national gove	ernment regu	lations.
If I am a large quantity generator, I certify the	hat I have a program in place to reduce the valu licable method of treatment, storage, or disposal	me and toxicity of w	raste genera	ited to the degree I	have determ	nined to be economically e threat to human health
and the environment; OR, if I am a small que	antity generator, I have made a good faith effort	to minimize my was	te generalis	and select the be	est waste ma	nagement method that i
migitable to me and that I see afford	15:	11/1		<u> </u>	Mo	nth Day
available to me and that I can afford.  Printed/Typed/Name A	Signature		1 141			910717
Printed Typed Name	IN FERE NW	01.	41—			
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of	IN FERE NW	11/1	1		Мо	nth Day Ye
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Materials Signature	2	<u> </u>		Mo	nth Day Ye
Printed/Typed Name  17. Fransporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of	Materials Signature	2	<u>I</u>		Mo Mo	SUSIS
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Materials  Signature  Materials	2	1		لما	SUSIS
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of	Materials  Signature  Materials	2			لما	SUSIS
available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials  Signature  Materials	2			لما	SUSIS
available to me and that I can offord.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name  19. Discrepancy Indication Space	Materials  Signature  Materials  Signature		1		لما	SUSIS
available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials  Signature  Materials  Signature	ilest except as noted	in Item 19.		Mo	SUSISI

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALFORME, CALL T-600-852 7550

#### CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard - Richmond, California 94801

NO. 23915

CUSTOMER

JOB NO. 974054

ENV. BIO SYSTEMS

•		FOR:	ERICKSON, INC.	TANK NO	23808
		LOCATION:	RICHMOND, CA	DATE: <u>9/15/98</u>	TIME: 8:30:44 AM
EST N	METHOD	VISUAL	SASTECH/1314 SMPN	LAST PRODUCT _	DIESEL
Pet Thi	roleum i s certifi	Institute and ha cate is based	ve found the condition	on to be in accordar ng at the time the	in accordance with the American nce with its assigned designation. inspection herein set forth was nd instructions.
TA	NK SIZE	5,000 GA	LLON TANK	_ CONDITION_	SAFE FOR FIRE
REI	MARKS:	ABOVE NUMBI	ERED TANK HAS BEEN CU AZARDOUS WASTE FACILI	T OPEN, PROCESSED, AN	D THEREFORE DESTROYED AT OUR
		FOR PROCESS	SING.		
imn	he event onediately singes occu	stop all hot work ar	tmospheric changes affec nd contact the undersigne	ting the gas-free conditio	ons of the above tanks, or if in any doubt, or 24 hours if no physical or atmospheric
SAF 19.5 jude	E FOR MI 5 percent I gment of t	EN: Means that in the solume; and that the solume; and that the solume in the rector, the rector, the rector, the rector.	(b) Toxic materials in the	e atmosphere are within p	ygen content of the atmosphere is at least permissable concentrations; and (c) In the als under existing atmospheric conditions
atm not and suff	osphere is capable of while ma ficiently to	s below 10 percent of producing a high- tintained as directed	of the lower explosive line er concentration that pern d on the Inspector's certifi	nit; and that (b) In the ju nitted under existing atmo icate, and further, (c) All	centration of flammable materials in the idgment of the Inspector, the residues are ospheric conditions in the presence of fire adjacent spaces have either been cleaned f fuel tanks, have been treated as deemed
which	undersign ch it was is presenta	nce Ole	cknowledges receipt of th	is certificate and understa	ands the conditions and limitations under

# CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard - Richmond, California 94801

**NO.** 28923

CUSTOME	R
JOB NO.	974054
ENV	BIO SYSTEMS

FOR:ERICKSON, INC	TANK NO
LOCATION: RICHMOND, CA	DATE: 9/15/98 TIME: 8:43:31 AM
TEST METHODVISUAL GASTECH/1314 SMPN	LAST PRODUCT DIESEL
Petroleum Institute and have found the condition	d that this tank is in accordance with the American to be in accordance with its assigned designation. at the time the inspection herein set forth was all qualifications and instructions.
TANK SIZE 6,000 GALLON TANK	CONDITION SAFE FOR FIRE
REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LE	SS THAN 0.1% ERICKSON, INC. HERBY CERTIFIES THAT THE
ABOVE NUMBERED TANK HAS BEEN CUT O	PEN, PROCESSED, AND THEREFORE DESTROYED AT OUR
PERMITTED HAZARDOUS WASTE FACILITY.	
ERICKSON, INC. HAS THE APROPRIATE PER	RMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US
FOR PROCESSING.	
	·
immediately stop all hot work and contact the undersigned. changes occur.  STANDARD SAFETY DESIGNATION  SAFE FOR MEN: Means that in the compartment or space so 19.5 percent by volume; and that (b) Toxic materials in the ai judgment of the Inspector, the residues are not capable of p	the gas-free conditions of the above tanks, or if in any doubt, This permit is valid for 24 hours if no physical or atmospheric  designated (a) The oxygen content of the atmosphere is at least tmosphere are within permissable concentrations; and (c) In the producing toxic materials under existing atmospheric conditions
atmosphere is below 10 percent of the lower explosive limit; not capable of producing a higher concentration that permitte and while maintained as directed on the Inspector's certificat	ignated (a) The concentration of flammable materials in the and that (b) in the judgment of the inspector, the residues are ed under existing atmospheric conditions in the presence of fire e, and further, (c) All adjacent spaces have either been cleaned orted, or in the case of fuel tanks, have been treated as deemed
The undersigned representative acknowledges receipt of this control which it was issued.  REPRESENTATIVE  TITLE	ertificate and understands the conditions and limitations under

# CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard • Richmond, California 94801

**NO.** 28317

CUSTOMER

JOB NO. 974054

ENV. BIO SYSTEMS

	FOR: _	ERICKSON, INC.	TANK NO	23810	
•	ron				
LOC	CATION:	RICHMOND, CA	DATE:	TIME: 8:32:16 AM	
EST METHOD	VISUAL GAS	TECH/1314 SMPN	LAST PRODUCT _	KEROSENE	
Petroleum Inst This certificate	itute and have e is based on	found the condition conditions existing	on to be in accorda	in accordance with the American nce with its assigned designation. inspection herein set forth was and instructions.	
TANK SIZE	5,000 GALL	ON TANK	_ CONDITION_	SAFE FOR FIRE	-
DEMARKS.	OXYGEN 20.9% L0	OWER EXPLOSIVE LIMIT	LESS THAN 0.1% ERICK	SON, INC. HERBY CERTIFIES THAT THE	_
REMARKS:		· · · · · · · · · · · · · · · · · · ·		ID THEREFORE DESTROYED AT OUR	
	PERMITTED HAZ/	ARDOUS WASTE FACILI	TY.		
	ERICKSON, INC.	HAS THE APROPRIATE F	PERMITS FOR, AND HAS	ACCEPTED THE TANK SHIPPED TO US	
	FOR PROCESSIN	G.			
					_
In the event of ar immediately stop changes occur.	ny physical or atmo all hot work and	ospheric changes affect contact the undersigne	ting the gas-free conditioned. This permit is valid f	ons of the above tanks, or if in any doubt, or 24 hours if no physical or atmospheric	
STANDARD	SAFETY	DESIGNATION			
19.5 percent by v judgment of the	olume; and that (b Inspector, the resi	<ul> <li>Toxic materials in the</li> </ul>	e atmosphere are within	eygen content of the atmosphere is at least permissable concentrations; and (c) In the ials under existing atmospheric conditions	
atmosphere is be not capable of pr and while mainta	flow 10 percent of oducing a higher ined as directed o event the spread o	the lower explosive lin concentration that perm in the inspector's certifi	nit; and that (b) In the ji nitted under existing atm icate, and further, (c) All	centration of flammable materials in the udgment of the Inspector, the residues are ospheric conditions in the presence of fire adjacent spaces have either been cleaned of fuel tanks, have been treated as deemed	
The undersigned which it was issued	ice (aller	nowledges receipt of th	is certificate and unders	tands the conditions and limitations under	

# CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard • Richmond, California 94801

**NO.** 28918

CUSTOMER

JOB NO. 974054 ENV. BIO SYSTEMS

J	FOR: .	ERICKSON, INC.	TANK NO	23811
Lo	OCATION:	RICHMOND, CA	DATE: <u>9/14/98</u>	TIME: 8:33:44 AM
EST METHOD	VISUAL GA	STECH/1314 SMPN	LAST PRODUCT .	UG
Petroleum Ins This certifica	titute and have te is based or	found the condition conditions	on to be in accorda	s in accordance with the American ince with its assigned designation. inspection herein set forth was and instructions.
TANK SIZE	10,000 GAL	LON TANK	_ CONDITION_	SAFE FOR FIRE
REMARKS: _	ABOVE NUMBER		T OPEN, PROCESSED, AM	SON, INC. HERBY CERTIFIES THAT THE
· 	ERICKSON, INC.		PERMITS FOR, AND HAS	ACCEPTED THE TANK SHIPPED TO US
In the event of a	iny physical or atm	ospheric changes affect contact the undersign	iting the gas-free conditied. This permit is valid	ons of the above tanks, or if in any doubt, for 24 hours if no physical or atmospheric
SAFE FOR MEN: 19.5 percent by judgment of the	Means that in the volume; and that (	b) Toxic materials in th	e atmosphere are within	xygen content of the atmosphere is at least permissable concentrations; and (c) In the rials under existing atmospheric conditions
SAFE FOR FIR atmosphere is b not capable of p and while maint	E: Means that in elow 10 percent or producing a higher ained as directed of revent the spread of	the compartment so f the lower explosive lin concentration that per on the Inspector's certif	mit; and that (b) In the j nitted under existing atm icate, and further, (c) Al	ncentration of flammable materials in the udgment of the Inspector, the residues are nospheric conditions in the presence of fire I adjacent spaces have either been cleaned of fuel tanks, have been treated as deemed
The undersigned which it was issue		nowledges receipt of th	nis certificate and unders	tands the conditions and limitations under

REPRESENTATIVE

#### CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard • Richmond, California 94801

**NO.** 28919

CUSTOMER

JOB NO. 974054

ENV. BIO SYSTEMS

ŀ	FOR: .	ERICKSON, INC.	TANK NO	23812
LOC	ATION:	RICHMOND, CA	_ DATE: 9/16/98	TIME: 8:38:15 AM
ST METHOD	VISUAL GAS	STECH/1314 SMPN	LAST PRODUCT	KEROSENE
Petroleum Instit This certificate	tute and have is based or	found the conditio	n to be in accordang at the time the	s in accordance with the American ance with its assigned designation. e inspection herein set forth was and instructions.
TANK SIZE	6,000 GALL	ON TANK	CONDITION	SAFE FOR FIRE
TEMATIKO.	REMARKS:  OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ERICKSON, INC. HERBY CERTIFIES THAT THE  ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR  PERMITTED HAZARDOUS WASTE FACILITY.  ERICKSON, INC. HAS THE APROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US  FOR PROCESSING.			
In the event of any	v physical or atm	ospheric changes affect	ing the gas-free condit	ions of the above tanks, or if in any doubt,
immediately stop a changes occur.	all hot work and	contact the undersigne	d. This permit is valid	for 24 hours if no physical or atmospheric
SAFE FOR MEN: N 19.5 percent by vo judgment of the In	Means that in the lume; and that (laspector, the res	<ul> <li>Toxic materials in the</li> </ul>	atmosphere are within	exygen content of the atmosphere is at least permissable concentrations; and (c) In the rials under existing atmospheric conditions
atmosphere is belo not capable of pro and while maintain	ow 10 percent of ducing a higher ned as directed of rent the spread of	the lower explosive lime concentration that permon the Inspector's certific	it; and that (b) In the itted under existing atroate, and further, (c) A	ncentration of flammable materials in the judgment of the Inspector, the residues are nospheric conditions in the presence of fire II adjacent spaces have either been cleaned of fuel tanks, have been treated as deemed
The undersigned re which it was issued.		nowledges receipt of thi	s certificate and unders	stands the sonditions and limitations under

TITLE

INSPECTOR

# CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard • Richmond, California 94801

NO. 28920

CUSTOMER

JOB NO. 974054

**ENV. BIO SYSTEMS** 

	FOR:ERIC	KSON, INC.	TANK NO.	23813
Lo	OCATION: RICHMO	ND, CA	DATE: <u>9/15/98</u>	TIME: 8:40:47 AM
EST METHOD _	VISUAL GASTECH/13	314 SMPN	LAST PRODUCT _	UG
Petroleum Ins This certifica	stitute and have found	the condition itions existing	to be in accordar at the time the	in accordance with the American nce with its assigned designation. inspection herein set forth was nd instructions.
TANK SIZE	10,000 GALLON TAN	ıĸ	CONDITION_	SAFE FOR FIRE
REMARKS: _	ABOVE NUMBERED TANK	HAS BEEN CUT O	PEN, PROCESSED, AN	D THEREFORE DESTROYED AT OUR
	FOR PROCESSING.			
				ons of the above tanks, or if in any doubt, or 24 hours if no physical or atmospheric
SAFE FOR MEN 19.5 percent by judgment of the	volume; and that (b) Toxic	ment or space so materials in the a e not capable of p	tmosphere are within p	ygen content of the atmosphere is at least permissable concentrations; and (c) In the als under existing atmospheric conditions
SAFE FOR FIR atmosphere is be not capable of pand while maint	E: Means that in the comelow 10 percent of the lower or oducing a higher concentration as directed on the lower event the spread of fire, are	npartment so des er explosive limit; ration that permitte spector's certificat	and that (b) In the ju ed under existing atmo e, and further, (c) All	centration of flammable materials in the adgment of the Inspector, the residues are espheric conditions in the presence of fire adjacent spaces have either been cleaned fuel tanks, have been treated as deemed
The undersigned which it was issue	reé Calles	es receipt of this o	certificate and underst	ands the conditions and limitations under

#### CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard • Richmond, California 94801

**NO.** 28921

CUSTOMER

JOB NO. 974054

ENV. BIO SYSTEMS

FOR: ERICKSON, INC. TANK NO. 23814	
LOCATION: RICHMOND, CA DATE: 9/15/98 TIME: 8:41:16 AM  VISUAL GASTECH/1314 SMPN LAST PRODUCT UG	
This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.	_
TANK SIZE 10,000 GALLON TANK CONDITION SAFE FOR FIRE	_
REMARKS:  OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ERICKSON, INC. HERBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.  ERICKSON, INC. HAS THE APROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.	
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.  STANDARD SAFETY DESIGNATION  SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.  SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.	
The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.  AEPRESENTATIVE  TITLE  INSPECTOR	

# CERTIFICATE

# **CERTIFIED SERVICES COMPANY**

255 Parr Boulevard - Richmond, California 94801

**NO.** 28922

CUSTOMER

JOB NO. 974054

ENV. BIO SYSTEMS

				<del></del>	
l	FOR:ERICKS	ON, INC. TANK	NO	23815	
LO	CATION: RICHMOND	.CA DATE	9/15/98	_ TIME: 8:42:09 AM	
EST METHOD	VISUAL GASTECH/1314	SMPN LAST	PRODUCT	STODDARD SOLVENT	
Petroleum Inst This certificat	ify that I have personally titute and have found the e is based on condition is issued subject to comp	e condition to be ons existing at the	in accordan e time the	ce with its assigned inspection herein s	designation.
TANK SIZE	12,000 GALLON TANK	co	NDITION	SAFE FOR FIRE	
REMARKS:	OXYGEN 20.9% LOWER EXPL		· · · · · · · · · · · · · · · · · · ·		<del> </del>
	PERMITTED HAZARDOUS WA				
	ERICKSON, INC. HAS THE AP	ROPRIATE PERMITS FO	OR, AND HAS AC	CCEPTED THE TANK SHIP	PED TO US
	FOR PROCESSING.				
 ]					
		· · · · · · · · · · · · · · · · · · ·			
	ny physical or atmospheric ch all hot work and contact the				
STANDARD	SAFETY DESIGN	ATION			
SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.					
atmosphere is be not capable of pr and while mainta	E: Means that in the comparelow 10 percent of the lower of ducing a higher concentration in the Inspendent the spread of fire, are salespector.	explosive limit; and that on that permitted unde ctor's certificate, and f	it (b) In the jud r existing atmos urther, (c) All a	Igment of the Inspector, spheric conditions in the adjacent spaces have eith	the residues are presence of fire er been cleaned
which it was issued	è Pello		e and understa	nds the conditions and li	mitations under
REPRÉSENTATIVE		TITLE		INSPECTOR . }	



#### NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY

JOB ACCEPTANCE NO.

### PATRICK OF JACK HOLLAND SK OLL SOME GOOGLES   RESPIRATOR   HARD HAT   GLOSS   GOOGLES   GOOGLES   GLOSS   GL		The state of the s
THE HARRICK (ANC.    THE HARRICK (ANC.   SPECIAL HANDLING PROCEDURES:		
SPECIAL HANDLING PROCEDURES:  SPECIA		
SPECIAL HANDLING PROCEDURES  SPECIAL HANDLING PROCEDURES  **    SLUDGE	AND COURS OF SECTION AND AND AND AND AND AND AND AND AND AN	☐TY-VEK ☐OTHER
TRACEPIC.    TREATMENT SOIL   SLUDGE   NON-FRIABLE ASBESTOS   SINDEPOSAL SOIL   SOIL   STOCK PILE	137 1448 HAMKICK CANE	SPECIAL HANDLING PROCEDURES:
**    TREATMENT SOIL   SLUDGE   NON-FRIABLE ASBESTOS   DISPOSAL SOIL   9999 SOUTH AUSTIN ROAD   MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE (209) 982-4298 PHONE (209) 982-1009 FAX    TREATMENT SOIL   PROPERTY   PROPER	STAVING STATE OF THE STATE OF T	or Estational Moseponies.
**    SLUDGE   SLUDGE   SLUDGE   SUDGE   SUDGE   SUDGE   SUDGE   SUDGE   SUDGE   STOCK PILE   ST	HAINARD GA 17077	
**    SLUDGE   SLUDGE   SLUDGE   SUDGE   SUDGE   SUDGE   SUDGE   SUDGE   SUDGE   STOCK PILE   ST	F 6 727-4387	
# SLUDGE   NON-FRIABLE ASBESTOS   NON-FRIABLE RICK		
TREATMENT SOIL   SLUDGE   NON-FRIABLE ASBESTOS   9999 SOUTH AUSTIN ROAD   MANTECA, CALIFORNIA 95336   (209) 982-4298 PHONE   (209) 982-1009 FAX  TRACEGORISES  TRALER LC. *  FORWARD INC. LANDFILL   ENDIUMP   BOTTOM DUMP   TRANSFER   CONSTRUCTION BOIL   BOTTOM DUMP   TRANSFER   CONSTRUCTION BOIL   CONSTRUCT	ANN HOURND ON	
TREATMENT SOIL   SUDGE   NON-FRIABLE ASBESTOS   9999 SOUTH AUSTIN ROAD   MANTECA, CALIFORNIA 95336   (209) 982-4298 PHONE   (209) 982-4298 PHONE   (209) 982-1009 FAX	BONATORE OF AUTHORIZED AGENT AND BEEN LOATE	2 6 4
TREATMENT SOIL   SUDGE   NON-FRIABLE ASBESTOS   9999 SOUTH AUSTIN ROAD   MANTECA, CALIFORNIA 95336   (209) 982-4298 PHONE   (209) 982-4298 PHONE   (209) 982-1009 FAX		
GREATMENT SOIL   SLUDGE   NON-FRIABLE ASBESTOS   SIPPOSAL SOIL   STOCK PILE   POPPOSAL METHOD: (209) 982-4298 PHONE (209) 982-4298 PHONE (209) 982-1009 FAX    MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE (209) 982-1009 FAX    MANTECA, CALIFORNIA 95336 (209) 982-1009		
TRAILER LIC.    STOCK PILE   NON-FRIABLE ASBESTOS   9999 SOUTH AUSTIN ROAD   MANTECA, CALIFORNIA 95336   (209) 982-4298 PHONE   (209) 982-1009 FAX      TRAILER LIC.		RECEIVING FACILITY
TRAILER LIC.    STOCK PILE   NON-FRIABLE ASBESTOS   9999 SOUTH AUSTIN ROAD   MANTECA, CALIFORNIA 95336   (209) 982-4298 PHONE   (209) 982-1009 FAX      TRAILER LIC.		
DISPOSAL SOIL   WOOD   ASH   WOOD   WOOD   ASH   WOOD   WOOD   WOOD   ASH   WOOD   ASH   WOOD   WOOD   WOOD   WOOD   WOOD   WOOD   ASH   WOOD	No. 1	FORWARD INC. LANDEILL
GONSTRUCTION SOIL STOCK PILE OTHER  MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE (209) 982-1009 FAX  TRAILER LIC.  FORWARD INC. LANDFILL Forward shall have no odigation to accept the waste of view search or other conditions impair the safe and effective disposal of the waste or of the waste for waste for any reason. If Forward's relusal to accept the waste is based on weather or other state conditions are expected to change such that Forward will be able to accept the waste is based on weather or other size conditions are expected to change such that Forward will be able to accept the waste is based on the conditions are expected to change such that Forward will be able to accept the waste is based to		
MANTECA, CALIFORNIA 95336  (209) 982-4298 PHONE (209) 982-1009 FAX  THALER LIC.  FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for owestern or other on weather or other singular the waste in owestern or other state and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste it waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  BEMARKS    MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE (209)		9999 SOUTH AUSTIN ROAD
(209) 982-4298 PHONE (209) 982-1009 FAX  TRAILER LIC. *  TRAILER LIC. *  FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for owerther or other state conditions. Forward shall not obligation to accept the waste in weather or other state conditions. Forward shall use reasonable efforts to promptly notify Disposer when site conditions are expected to change such that Forward will be able to accept the waste in weather or other site conditions. Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste. In SOIL  SOIL  NON-FRIABLE  NON-FRIABLE  NON-FRIABLE  SERSONS  WOOD		MANITECA CALIEODNIA 05226
### ADDRESS  TRAILER LIC.  TRA		IVIAIN I ECA, CALIFORINIA 95336
### ADDRESS  TRAILER LIC.  TRA	SENERAL VOLTY	(209) 982-4298 PHONE
TRAILER LIC.   TRAILER LIC.   TRAILER LIC.   FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify bisposer of its inability to accept the waste for any reason. If Forward shall does no weather or other steeponditions, Forward shall use or other steeponditions, Forward shall use on other conditions are expected to change such that Forward will be able to accept the waste for any reason. If Forward shall notify the Disposer when site conditions forward shall notify the Disposer when site conditions forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste of the waste in the waste in the waste.  FORWARD INC. LANDFILL  FORWARD INC. LANDFILL  FORWARD INC. LANDFILL  SUBJECT OF SECOMPLETED BY FORWARD INC. (TO BE COMPLETED BY FORWARD)  DISPOSAL METHOD:  SOIL  SOIL  SOIL  SUDGE  NON-FRIABLE  ASBESTOS  WOOD  ASH	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
TRAILER LIC. #  END DUMP BOTTOM DUMP TRANSFER  BOLL-OFF(S) FLAT-BED VAN DRUMS  *  FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste is based on weather or other site conditions. Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  PEMARKS  DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSE BIO AERATE STOCKPILE OTHER SULUDGE  NON-FRIABLE ASBESTOS  WOOD  ASSH		(209) 982-1009 FAX
TRAILER LIC. #  END DUMP BOTTOM DUMP TRANSFER  BOLL-OFF(S) FLAT-BED VAN DRUMS  *  FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste is based on weather or other site conditions. Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  PEMARKS  DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSE BIO AERATE STOCKPILE OTHER SULUDGE  NON-FRIABLE ASBESTOS  WOOD  ASSH		
TRAILER LIC. #  END DUMP BOTTOM DUMP TRANSFER  BOLL-OFF(S) FLAT-BED VAN DRUMS  *  FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste is based on weather or other site conditions. Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  PEMARKS  DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSE BIO AERATE STOCKPILE OTHER SULUDGE  NON-FRIABLE ASBESTOS  WOOD  ASSH		
TRAILER LIC.   END DUMP BOTTOM DUMP TRANSFER  SIGNITURE OF AUTHORIZED AGENT OF DRIVER DATE  *  FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer or its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  FMARKS  TRAILER LIC.   END DUMP BOTTOM DUMP TRANSFER  ROLL-OFF(S) FLAT-BED VAN DRUMS  DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSE BIO AERATE STOCKPILE OTHER ASSESTOS  SOIL  NON-FRIABLE ASSESTOS  WOOD  ASH  ASH		
TRAILER LIC.   END DUMP BOTTOM DUMP TRANSFER  SIGNITURE OF AUTHORIZED AGENT OF DRIVER DATE  *  FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer or its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  FMARKS  TRAILER LIC.   END DUMP BOTTOM DUMP TRANSFER  ROLL-OFF(S) FLAT-BED VAN DRUMS  DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD) DISPOSE BIO AERATE STOCKPILE OTHER ASSESTOS  SOIL  NON-FRIABLE ASSESTOS  WOOD  ASH  ASH	The transfer of the state of th	The second of th
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective objection of the Landfill. Forward shall see as and effective operation of the Landfill. Forward shall see reasonable efforts to promptly notify Disposer of its inability to accept the waste is based on weather or other site conditions. Forward shall lave to other site conditions. Forward shall lave to other site conditions. Forward shall lave to other site conditions. Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.    SOIL		24.24 - 1.34 - 1.35 - 1.55 - 1
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.    SOIL	CAN SINCE DE	TRAILER LIG.
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.    SOIL		The second secon
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  PLIMARIS  ASH  CUBIC YARDS  CUBIC YARDS  CUBIC YARDS  OISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)  IN SPOSAL METHOD: (TO BE COMPLETED BY FORWARD)  OTHER  SOIL  SOIL  NON-FRIABLE  ASBESTOS  WOOD  ASH	PRONE TO A TOTAL TO A	END DUMP BOTTOM DUMP TRANSFER
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  PLIMARIS  ASH  CUBIC YARDS  CUBIC YARDS  CUBIC YARDS  OISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)  IN SPOSAL METHOD: (TO BE COMPLETED BY FORWARD)  OTHER  SOIL  SOIL  NON-FRIABLE  ASBESTOS  WOOD  ASH	5 5 6 20 20 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS.    DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)	SIGNATURE OF AUTHORIZED AGENT OF DRIVER DATE	ROLL-OFF(S) FLAT-BED VAN DRUMS
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS.    DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)	Ž.↓ · · · · · · · · · · · · · · · · · · ·	
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS.    DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)		
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS.    DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)		CURIC YARDS
conditions are expected to change such that Forward will be able to accept the waste.  SLUDGE  NON-FRIABLE ASBESTOS  WOOD  ASH	FORWARD INC. LANDFILL	
conditions are expected to change such that Forward will be able to accept the waste.  SLUDGE  NON-FRIABLE ASBESTOS  WOOD  ASH	Forward shall have no obligation to accept the waste if weather or other	イダなシ
conditions are expected to change such that Forward will be able to accept the waste.  SLUDGE  NON-FRIABLE ASBESTOS  WOOD  ASH	conditions impair the safe and effective disposal of the waste or if the waste	DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)
conditions are expected to change such that Forward will be able to accept the waste.  SLUDGE  NON-FRIABLE ASBESTOS  WOOD  ASH	reasonable efforts to promptly notify Disposer of its inability to accept the	DISPOSE BIO AERATE STOCKPILE OTHER
conditions are expected to change such that Forward will be able to accept the waste.  SLUDGE  NON-FRIABLE ASBESTOS  WOOD  ASH	waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions. Forward shall notify the Disposer when site	
NON-FRIABLE ASBESTOS  WOOD  ASH	conditions are expected to change such that Forward will be able to accept	
ASBESTOS  WOOD  ASH  ASH		SLUDGE
ASBESTOS  WOOD  ASH  ASH	をはないます。 これには、これには、これには、これには、これには、これには、これには、これには、	NON-FRIABLE
SEMATURE OF AUTHORIZED AGENT		
BRANAPURE OF AUTHORIZED AGENT		□ woop
□ ASH	SERVATURE OF ALTHORIZED AGENT	
		□ ASH
	<u> </u>	
		OTHER

Estate of Jack M. Holland Sr.
Site Mitigation Report

16301 E. 14th St. San Leandro, California

# APPENDIX E LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

B. I. II BB B C B III CON C	CITIEST OF CODIODITY OF CITE	LOIDER	
SAMPLE SUBMITTED BY:	RAY	DATE	4/4/98
PERSON WHO SAMPLED:	ķ.ΛУ	NUMBER OF SAMPLES	u Are Na
REPORT RESULTS TO:	Vin Krimse	HOW SAMPLED (GRAB, THIEF, COMP):	9. L
PROFILE NUMBER	7166	SOURCE (COMPANY):	. j. 1

☐Feedstock for plant	☐ Fuel Oil	Out of State Fuel
☐Water for Treatmen	t in 704 tanks	□Water to Lift
□Butterfield 12 McKit	trick	•

Test	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identification:	SAMI	1,92	5AM 5	- AMG	444.7
Certificate Required ?	te	in the	John Ule	2. Vit.	
Acceptance Testing: Oil		<del></del>		,	
O Percent Water					
O API					1.7
O Chlorine screen					<del></del>
O.PC8			8 4 2 4	×	المادوعا
<b>⊘</b> .Flash	4		F		
O LUX Electron 100 F		OA S.C	FAIL 3-	PASS	pA:5
○ Total Organic Halogens	1.0	₹ 74	,	NP	5 6
O Silicon Screen	1 12		<u> </u>	1	<u> </u>
O Fuel Metals					
O Sulfur	-				
O APPROVAL: FEED or FUEL				,	
O DISAPPROVAL-Offsite Disp.					
O Other Tests: specify				. <u>-</u>	
O Waste Water Profiling		·			<u> </u>
O - Oil & Grease 418.3 or %	20%	<b>10</b> %	40 %	95%。	107.
O Total Organic Halogens					
⊙ pH	7.0	٥. ټ	70	7 3	46
O BS & W					_
O API Gravity	: : :		2	2	18,10
O Color/ Odor	, , , , , , , , , , , , , , , , , , , ,				
O BETX / TTOs					
O Phenols					
O USD Metals					
O COD					
Approval to unload (treat)					
O Approval to Discharge: USD					
O Other test needed: specify				**	
RELINQUISHED BY PRINT N	NAME/COMPANY	D	ATE/TIME	sig	nature
		14/1/4	8 2000	Rober	" ,

<b>~</b>				
SAMPLE	SUBMISSION	CHAIN OF	CUSTODY/WORK	ORDER

SAMPLE SUBMITTED BY:	PAY	DATE	8/4/18
PERSON WHO SAMPLED:	/ AV	NUMBER OF SAMPLES	
REPORT RESULTS TO:	11/ Houngame	HOW SAMPLED (GRAB, THIEF, COMP):	· L
PROFILE NUMBER	7157	SOURCE (COMPANY):	Hillard OLD

☐Feedstock for plant	☐ Fuel Oi	l □ Out of State Fuel
☐Water for Treatmen	t in 704 tan	ıks □Water to Lift
□Butterfield □McKit	trick	

Test	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identification:	SAMB	- Apr 9	11410	SAMIL	M. S. (1.1
Certificate Required ?	Pa. Va	- 1 - 1	Vite	in the	12 h. 1/2 te
Acceptance Testing: Oil					
O Percent Water					
O API					
O Chlorine screen					
Ø PCB	100	ND			ND
<b>9</b> Flash			F	$\triangleright$	Į.,
QUE Flack III		P.255			-
Q Total Organic Halogens		1	<i>i</i>	19	
O Silicon Screen					· · · · ·
O Fuel Metals					
O Sulfur					
O APPROVAL: FEED or FUEL					-
O DISAPPROVAL-Offsite Disp.					
O Other Tests: specify					
O Waste Water Profiling	-				
O Oil & Grease 418.3 or %		10%	1 %	3 %	<i>ಿ</i> ಕುಿ್ಳ
O Total Organic Halogens					
<b>○</b> pH	7.0	96	(1-0	70	
O BS & W					7 1
S API Gravity	1.4		ر مستور	, >	
O Color/ Odor	1				,
O BETX / TTOs					
O Phenois					
O USD Metals				<del>_</del> -	
O COD	"			- · <del>- · ·</del>	
O Approval to unload (treat)					
O Approval to Discharge: USD		· · · · · · · ·	- · · · · ·		
O Other test needed: specify			¥		
RELINQUISHED BY PRINT NAM	ME/COMPANY	D/	TE/TIME	sign	nature
		8/1/		- I	Men

#### EVERGREEN LABORATORY CALIF. CERTIFIED #1900 SAMPLE SUBMISSION CHAIN OF CUSTODY/WORK ORDER

	THE STATE OF THE S	THE CONTRACT OF CO	OMPER	
A	SAMPLE SUBMITTED BY:	RAS	DATE	8/4/44
	PERSON WHO SAMPLED:	- A'-	NUMBER OF SAMPLES	7.3
	REPORT RESULTS TO:	MAY/Kovin use	HOW SAMPLED	ž.
	PROFILE NUMBER	7.59	SOURCE (COMPANY):	Home ( ) Ef

☐Feedstock for plant	☐ Fuel Oi	l Out of State Fuel
□Water for Treatmen	t in 704 tan	iks []Water to Lift
□Butterfield MMcKit	ttrick	

Test	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identification:	SAM3	Auly	SAM 1	Sur3	<u> </u>
Certificate Required ?	Delive	Ly 6/ [2.	I ky MA.	Oley WARE	
Acceptance Testing: Oil	7, 7		· · · · · · · · · · · · · · · · · · ·		
O Percent Water					
O API					
O Chlorine screen			<del></del>	İ	
O PCB			, : i	* 7(1)	
Q Flash		<u> </u>	P		<u></u>
ON LUDY		· · · · · · · · · · · · · · · · · · ·		D# 3	
O Total Organic Halogens		1 1)			<u></u>
O Silicon Screen	* * * * * * * * * * * * * * * * * * * *	<del>1 7 4 1</del>			
O Fuel Metals					
O Sulfur					
O APPROVAL: FEED or FUEL					
O DISAPPROVAL-Offsite Disp.					
O Other Tests: specify			·-·		
O Waste Water Profiling					
O Oil & Grease 418.3 or %	A02.	do 01.			
O Total Organic Halogens					
O pH			6.2		<b></b> .
O BS&W		7.1	<u> </u>		
O API Gravity		į 7		2.7.7	
O Color/ Odor			<del></del>		• • •
O BETX / TTOs					
O Phenols					<del></del>
O USD Metals					
O COD					
O Approval to unload (treat)					<u> </u>
O Approval to Discharge: USD		.,.			
O Other test needed: specify		· · · · · · ·			
RELINQUISHED BY PRINT	NAME/COMPANY	D,	ATE/TIME	sign	ature
			15/000		1/14-

BANT ED SUDMISSION CHAIN OF CUSTOD I WORK ORDER						
SAMPLE SUBMITTED BY:	RAY	DATE	3/4/98			
PERSON WHO SAMPLED:	BAY	NUMBER OF SAMPLES				
REPORT RESULTS TO:	RAY Verm 1 use	HOW SAMPLED (GRAB, THIEF, COMP):	Ja . L.			
PROFILE NUMBER	7159	SOURCE (COMPANY):	and Ol			

☐Feedstock for plant	🛘 Fuel Oil 🗘 Out	of State Fuel
☐Water for Treatmen	it in 704 tanks □Wat	er to Lift
☐Butterfield ☐ McKit	ttrick	

Test	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identification:		7-6	)	-14	
Certificate Required ?		1	1 ly 11/11	Ju NA	nel
Acceptance Testing: C	)il			7	7~~~
O Percent Water					7.7
O API					1
Chlorine screen	PASS	Pass	PASS	Pass	PACI
O PCB	110	× 11()			MIN B
O Flash		1		1	15
Q LUX	1	<del></del>	t		
O Total Organic Halogens					., .
O Silicon Screen	A A A			(iv ( 4)	132
O Fuel Metals		-			1
O Sulfur			,		
APPROVAL: FEED or FUI	EL				
O DISAPPROVAL-Offsite Di	sp.				
Other Tests: specify	-				
O Waste Water Profilir	na				· · · · · · · · · · · · · · · · · · ·
Oil & Grease 418.3 or %			17		
O Total Organic Halogens			, ,		
Hq C			·		
D BS&W		<del> </del>	•	<del></del>	<del>  -</del>
O API Gravity	/	. [	1		مر زر
Ocolor/ Odor			<i> </i>		
O BETX / TTOs					
O Phenols		'			<del></del>
O USD Metals					
O COD					
Approval to unload (treat)					<del> </del>
O Approval to Discharge: US	D	-		·	
Other test needed: specify					
RELINQUISHED BY PRI	INT NAME/COMPANY	D.	ATE/TIME	sig	nature
		1/4			30 K

EVERGREEN LABORATORY CALIF. CERTIFIED #1900 SAMPLE SUBMISSION CHAIN OF CUSTODY/WORK ORDER

SAMPLE SUBMITTED BY:	AL M.	DATE	a/ts/100.	
PERSON WHO SAMPLED:	l l	NUMBER OF SAMPLES	٨	
*REPORT RESULTS TO:	M. MPAUSE	HOW SAMPLED (GRAB, THIEF, COMP):		
PROFILE NUMBER		SOURCE (COMPANY):		

☐Feedstock for plant	☐ Fuel Oil	Out of State Fuel
☐Water for Treatmen	t in 704 tank	s □Water to Lift
□Butterfield □ McKit	ttrick	

Test		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identifica	ation:	0-4u	5-44	D- 10	D. 52	
Certificate Requi	red ?			<del> </del>		
Acceptance Testing	g: Qil					
O Percent Water						
O XPI COST	<i>f</i>	i — oogaa.	THE N		,	
O Chlorine screen				71	0,0	
MIPGB	1	1.41161 M	A, A=C Fin	MO	ND	
O Flash			45.7	7		
O LUX			-	· <u> </u>		
O Total Organic Haloge	ens					
O Silicon Screen						
O Fuel Metals						
O Sulfur						-
O APPROVAL: FEED o	r FUEL					
O DISAPPROVAL-Offs	ite Disp.					
O Other Tests: specify						
O Waste Water Pro	ofiling					
O Oil & Grease 418.3	or %					
O Total Organic Haloge	ens					
O pH						_
O BŞ&W.						
O API Gravity						
O Color/ Odor						
O BETX / TTOs				·		
O Phenols						
O USD Metals	·········			-		
O COD			*			
O Approval to unload (t	reat)					
O Approval to Discharge	e: USD					
O Other test needed: sp	ecify			-	1	
RELINQUISHED BY	PRINT NAM	/IE/COMPANY	D.	ATE/TIME	sig	nature

E V E R G R E E N L A B O R A T O R Y CALIF. CERTIFIED #1900 SAMPLE SUBMISSION CHAIN OF CUSTODY/WORK ORDER

N2 7168

BITTH BE BUDINISSION CHAIN OF CO.	STODITWORK ORDER
SAMPLE SUBMITTED BY:	DATE
PERSON WHO SAMPLED:	NUMBER OF SAMPLES
REPORT RESULTS TO:	HOW SAMPLED (GRAB, THIEF, COMP):
PROFILE NUMBER	SOURCE (COMPANY):

☐Feedstock for plant	☐ Fuel Oil ☐ Out of State Fuel
☐Water for Treatmen	t in 704 tanks
□Butterfield □ McKit	ttrick

Test		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identific	ation:	61	62	63		
Certificate Requi	ired ?					
Acceptance Testin	g: Oil					
O Percent Water				V12.28		
Q API				1		
O Chlorine screen	<del></del>					
O FCB			MD	V ND		
O Flash 6 140	F	PASS	0/155	P		
O LUX	<u> </u>		<del></del>	, , , , , ,		
O Total Organic Halogo	ens	·		/ Sank	m	·
O Silicon Screen	<u> </u>	1		V 5 m 1/2	/	
O Fuel Metals				<del>                                     </del>		
O Sulfur	· · · · · · · · · · · · · · · · · · ·	<u> </u>				
O APPROVAL: FEED	or FUEL	<del>                                     </del>		-		
O DISAPPROVAL-Offs	ite Disp.	† · · · · · · · · · · · · · · · · · · ·		<del> </del>		
Other Tests: specify	CIOR	<del>  </del>		Fail		
O Waste Water Pro		-		1 8 6 7	t.c+ 1	
O Oil & Grease 418.3		1/1	40	-		
O Total Organic Halog	ens	PND	Pin			
O pH		5.71	- 13 - 13			
O BS&W					-	
O API Gravity	<del></del>					
O Color/ Odor						
O BETX / TTOs		1				
O Phenois		†           †				
O USD Metals		†				
O COD	· ·				3	
O Approval to unload (t	reat)					
O Approval to Discharge					}	
O Other test needed: sp						
RELINQUISHED BY	<del></del>	ME/COMPANY	D	ATE/TIME	sign	nature
			<u> </u>			111

EVERGREEN LABORATORY CALIF. CERTIFIED #1900

Nº 7167

SAMPLE SUBMISSION CHAIN OF CUS	TODY/WORK ORDER	
SAMPLE SUBMITTED BY:	DATE	
PERSON WHO SAMPLED:	NUMBER OF SAMPLES	
REPORT RESULTS TO:	HOW SAMPLED (GRAB, THIEF, COMP):	
PROFILE NUMBER	SOURCE (COMPANY):	

☐Feedstock for plant	☐ Fuel Oil	☐ Out of State Fuel
☐Water for Treatmen	t in 704 tanks	s □Water to Lift
□Butterfield □ McKit	trick	

Test		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identifica	ition:	B	<u></u>	$\mathcal{D}$	E	F17F4
Certificate Requir	red?					, , ,
Acceptance Testing	g: Oil					
O Percent Water		VO.85	V 1.28	V 5.14	V 7,34	
O API				_		
O Chlorine screen	· · · · ·	P	P	1	P	
O PCB		VND	MID	NO NO	V ND	
O Flash QUUOF		VD	VP	4 ~	ZP	
O LUX		<del>\</del>			1	
<ul> <li>Total Organic Haloge</li> </ul>	ns	NO	VNO	V NO	VND	
O Silicon Screen		V NO	1/3m5/L	レダブル	V 11 m3/L	
O Fuel Metals						
O Sulfur						
O APPROVAL: FEED o	r FUEL					
O DISAPPROVAL-Offsi	te Disp.					
O Other Tests: specify						
<ul> <li>Waste Water Pro</li> </ul>	ofiling					
O Oil & Grease 418.3 o	or %					V 2
O Total Organic Haloge	ens			•		V PND
O pH	•					レカン
O BS&W						VI
O API Gravity						v 37
O Color/ Odor						
O BETX / TTOs	•					
O Phenols						
O USD Metals						
O COD						
O Approval to unload (to	reat)					
O Approval to Discharge	e: USD					
Other test needed: sp	ecify					
RELINQUISHED BY	PRINT NAI	ME/COMPAN	Y D	ATE/TIME	sig	nature

EVERGREEN LABORATORY CALIF. CERTIFIED #1900

7168-77-SAMPLE SUBMISSION CHAIN OF CUSTODY/WORK ORDER SAMPLE SUBMITTED BY: DATE PERSON WHO SAMPLED: NUMBER OF SAMPLES HOW SAMPLED REPORT RESULTS TO: (GRAB, THIEF, COMP): PROFILE NUMBER SOURCE (COMPANY):

☐Feedstock for plant	☐ Fuel	Oil [	Out of	State Fuel
☐Water for Treatment	t in 704	tanks	□Water	to Lift
□Butterfield □ McKit	trick			

Test	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sample Identification	1:				<del>-4</del>
Certificate Required	?		-	<u> </u>	<del></del>
Acceptance Testing:	Oil				
O Percent Water					
O API					
O Chlorine screen			: 2		
O PCB			<b>i</b>		<del></del>
O Flash		7.7	12	1)	D
O LUX			•	*	
O Total Organic Halogens					
O Silicon Screen					
O Fuel Metals					
O Sulfur					
O APPROVAL: FEED or FU	JEL				·
O DISAPPROVAL-Offsite D	Disp.			. ,	•
O Other Tests: specify					
O Waste Water Profil	ing				
O Oil & Grease 418.3 or %		4.		1.1	
O Total Organic Halogens	V A	1 1 1 1		1 713	مرواه! سأ
O pH		, a			
O BS & W		7. 1			1
O API Gravity		F-48			1
O Color/ Odor					
O BETX / TTOs		,			
O Phenols					
O USD Metals		<del></del>			
O COD					
O Approval to unload (treat)	)				
O Approval to Discharge: U	SD				<u>.                                    </u>
O Other test needed: specif	y				
RELINQUISHED BY PI	RINT NAME/COMPANY	D	ATE/TIME	sig	nature
LE ACT VIDE		/		11	



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

October 26, 1998

Mark Valentini Analytical Sciences PO Box 750336 Petaluma, CA 94975

RE: Mark Valentini/P810027

Dear Mark Valentini

Enclosed are the results of analyses for sample(s) received by the laboratory on September 30, 1998. The Bioassay analysis was run at Sequoia Redwood City. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

ms

Matt Sakai Project Manager

CA ELAP Certificate Number 2245



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical Sciences PO Box 750336 Petaluma, CA 94975 Project: Mark Valentini
Project Number: Holland (8092902)
Project Manager: Mark Valentini

Sampled: 9/19/98 Received: 9/30/98 Reported: 10/26/98

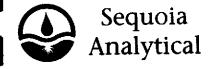
#### **ANALYTICAL REPORT FOR P810027**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
Bin A-B (2354)	P810027-01	Soil	9/19/98



Sequoia Analytical - Petaluma

£\$



Redwood City. CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical Sciences PO Box 750336 Petaluma, CA 94975 Project: Mark Valentini
Project Number: Holland (8092902)
Project Manager: Mark Valentini

Sampled: 9/19/98 Received: 9/30/98 Reported: 10/26/98

#### STLC CAM Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Bin A-B (2354) Lead	8100250	10/21/98	<u>P8100</u> : 10/22/98	<b>27-01</b> EPA 6010A	375	39500	Soil ug/l	

B



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical Sciences PO Box 750336 Petaluma, CA 94975 Project: Mark Valentini
Project Number: Holland (8092902)
Project Manager: Mark Valentini

Sampled: 9/19/98 Received: 9/30/98 Reported: 10/26/98

#### STLC CAM Metals by EPA 6000/7000 Series Methods/Quality Control Sequoia Analytical - Petaluma

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% 1	Notes*
Batch: 8100250	<u>Date Prepa</u> 8100250-BI		<u>/98</u>		Extrac	tion Method: Tit	le 22-STL	<u>.c</u>		
<u>Blank</u> Lead	10/22/98	<u> </u>		ND	ug/l	375				
LCS Lead	8100250-B5 10/22/98	<u>81</u> 2500		2620	ug/l	80.0-120	105			
<u>Matrix Spike</u> Lead	<u>8100250-M</u> 10/22/98	<u>S1</u> <u>P</u> 2	810025-01 ND	2670	ug/l	75.0-125	107			
<u>Matrix Spike Dup</u> Lead	<u>8100250-M</u> 10/22/98	SD1 P	810025-01 ND	2700	ug/l	75.0-125	108	20.0	0.930	



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical SciencesProject:Mark ValentiniSampled:9/19/98PO Box 750336Project Number:Holland (8092902)Received:9/30/98Petaluma, CA 94975Project Manager:Mark ValentiniReported:10/26/98

#### **Notes and Definitions**

# Note

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Sequoia Analytical Petaluma 1455 McDowell Blvd, North Suite D, Petaluma CA 94954 Attention: Matt Sakai

Client Project ID: P810027-01 Sample Descript: P810027-01 Analysis Method: See below

Sampled: 9/19/98 Received: 10/5/98

Lab Number: 9810360-01A

Reported: 10/13/98

#### STATIC HAZARDOUS ABBREVIATED SCREEN BIOASSAY

Species: Pimephales promelas

Common Name: Fathead Minnow

Organisms/Tank: 10 Organisms/Conc.: 20 Tank Depth: 16 cm

Tank Volume:

8 L Acclimation Temp.: 21 °C +/- 1

Mean length: 43.0 mm

Min. length; 38.0 mm Max. length: 48.0 mm Min. weight; 0.3 g

Sticklebacks Unlimited/ Supplier:

Mean weight: 0.45 g

Max. weight: 0.55 g

Thomas Fish

Dilution Water: Synthetic Softwater

Hardness 40-48

Control 750 ppm Duplicate 750 ppm

Alkalinity, mg/L Hardness, mg/L Initial Final Initial Final 32 34 46 44 60 100 60 80 60 80 60 80

	Initial	24 Hr	48 Hr	72 Hr	96 Hr
DATE	10/8/98	10/9/98	10/10/98	10/11/98	10/12/98

	DO	C	рΗ	DO	C	рΗ	# M	DO	C	рН	# M	DO	С	рН	# M	DO	С	рΗ	# M
	mg/L	Temp	Units	mg/L	Temp	Units	Dead												
Control	8.9	21	7.4	6.6	20	6.5	0	5.9	20	6.8	0	5.4	20	6.6	0	5.2	20	6.4	0
750 ppm	9.1	21	7.8	7.3	20	7.1	0	3.5	20	6.5	5	6.6	20	6.8	3	7.8	20	7.1	1
300 ppm	9.1	21	7.8	7.1	20	7.0	1	3.4	20	6.5	1	7.7	20	6.9	0	8.0	20	7.0	0

Duplicate

750 ppm	9.1	21	8.0	7.2	20	7.1	0	2.5	20	6.5	2	8.2	20	6.8	1	8.5	20	7.2	2
300 ppm	9.1	21	7.9	7.3	20	7.1	0	2.6	20	6.5	-	7.8	20	6.9	0	8.1	20	7.1	Q

0 9 2

Total Dead

Remarks:

The screen fails if > 40% of the fish die in the 750 ppm concentration.

Aerated all tanks except control 10/10/98. This screen fails.

Analyst:

M. Grislis

Method Reference: Static Acute Bioassay Procedures for Hazardous Waste Samples,

November 1988, California Department of Fish and Game WPCL.

SEQUOIA ANALYTICAL, ELAP# 1210

Athony P. McMahon

Client Services Representative



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Sequoia Analytical - Petaluma 1455 McDowell Blvd. North

Matt Sakai

Client Proj. ID: P810027-01

Received: 10/05/98

Suite D

Attention:

Lab Proj. ID: 9810360

Reported: 10/14/98

#### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of \_\_\_\_\_\_\_ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data,

€\$

SEQUOIA ANALYTICAL

Millahon.

Project Manager

Page: 1

# Sequoia Analyticai - Petaluma Subcontract Order P810027

# Sending Laboratory quoia Analytical - Petaluma

1455 N. McDowell Blvd. Suite D

Petaluma, CA 94954

Phone: 707/792-1865 Fax: 707/792-0342

Project Manager: Matt Sakai

Receiving Laboratory

Sequoia Analytical - Redwood City

680 Chesapeake Dr.

Redwood City, CA 94603

Phone: 650-364-9600

Fax: 650-364-9233

9810360

#### **Subcontract Order Comments**

09/30/98 11:42

Sample/Analysis Information											
Sample Name	Matrix	Sampled/ Expires	Analysis Requested	Due	Lab Number	Container	Comments				
P810027-01	Other (W)	9/19/98				A					
		9/20/98	[Set up analysis]-1	10/14/98			Bioasay-%SurvivalSub to RWC				

Released By Date 10/2 Received By Date 10-5 Received By Date 10-6 


SIGNATURE

**Analytical Sciences** 

P.O. Box 750336, Petaluma, CA 94975-0336 1130 Industrial Ave., #11, Petaluma, CA 94952 (707) 769-3128

DATE

# CHAIN OF CUSTODY

J	<b>&gt;</b>	CLIENT INFORMATION						Lab P	ROJEC	T <b>N</b> U	MBER:		3100	27/		
	F V 1970	1		1				CLIENT'S				$\overline{}$	LAND	7	902)	
	COMPANY NAME: Address:	1	01 7	<u>Science</u> 1 <u>50330</u> 1A 94	, 9	-0336	<u> </u>	TURNA Mobile Lab	AROU		<del></del>	heck		C	DOLER TEMPE SALUE ACÉ	
	CONTACT: PHONE#: FAX#:	MAEK 707 707	: VA 769	1-3128 1-3128 1-809=	<i>5</i>			SAME DAY _ 48Hours _ 5 days _			4 Hour 2 Hour Norm	₹\$	<u> </u>		OC / AGE/_ OF	<u>/</u> _
	•	_							NALYS	IS (cir	:le me	thods)				
TEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	Trucke	Meteo de la	Sono EPA S	16 10°	pi tero	PLE P	B P A S	Sylving Control of the Control of th	COMMENTS	LAB SAMPLE #
1	BINA-B (2354)	9-19-98		SOIL	1						X	X		Composi	TED BY	Psic ?7-1
2	Composite	1											ļ		<u>n Sciences</u>	1
3												<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
4										,		<u> </u>	<u> </u>			-
6			<u> </u>			ļ							+			<del> </del>
6		ļ		<u> </u>	<u> </u>	<u> </u>	<del> </del>				<u> </u>	<u> </u>	<del> </del>			<u> </u>
7		<del> </del>	<del>                                     </del>	<del>                                     </del>			<u> </u>					<u> </u>	+			<del> </del>
8		<u> </u>		<del> </del>	<u>.</u>	<u> </u>	<del> </del>									-
10			<u> </u>		<del> </del>											
	<b>東東 部</b> 東 - 15						SIGNA	TURES								
	RELINQUISHED BY:	Wen	·		<u>/8:</u>	11. 5	Time	RECEIVED SIGNATURE	By Labo	DRATORY				)   Zi/	92 [].	TIME



#### **Analytical Sciences**

P.O. Box 750336, Petaluma, CA 94975-0336 1130 Industrial Ave., #11, Petaluma, CA 94952 (707) 769-3128

# CHAIN OF CUSTODY

<u>_</u>	Fax (/0/) /64-6093							LAB F	ROJECT	NUMBER:	ý	1092	902	
		CLIENT								CT NAME:			ETATE (150.	-504B)
	COMPANY NAME: Address:	P. U. F	30 X	<u>7/7/</u>		ems I. - 717)		TURN Mobile Lab	AROUN	<i>D TIME</i> (c			COOLER TEMPE	RATURE
	CONTACT: PHONE #: Fax #:	PAVE	<u> </u>	920 F F	<u> </u>			SAME DAY 48Hours 5 days		24 Hour 72 Hour Norm	:5		COC Page /_ of	
		•							NALYSI	S (circle met	hods)			
TEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	This of	HE TO THE PROPERTY OF THE PROP	A SOLO EPA SE	TO LEVEL	12 1 P	D A TE	COMMENTS	LAB SAMPLE #
1	BIN A-B COMP.	9-19-90								X	X	LL	silogald sample	2354
2	DIN A B COM	1.											from tal- job	
3													4 8090905	
4		-										k	addition Sandyse	<b></b>
5													requested by	
6													SAVE SABOFF	
7											<u></u>			
8												<u> </u>	<u> </u>	<u></u>
9									<del>  -</del>					ļ
10				<u> </u>		<u> </u>					<u> </u>			<u> </u>
igos						<del></del>	SIGNA	TURES						
- 1	RELINQUISHED BY:			DATE			TIME	RECEIVED SIGNATURE	By LABOR	ATORY: Alle—	-		9/29/98 DATE	Time
	CMMATHE			DAIL										



## ENVIRONMENTAL BIO-SYSTEMS, INC. Innovative Solutions for a Better Environment

Innovative Solutions for a Better Environment (408) 979-8600 P.O. Box 7171

CH	ΑIΑ	I OF	CU	ST	ODY
~		•	$\sim$	$\sim$ 1	$\sim$ $\sim$ $\sim$

LAB	Jog #	8090905
		• , , –

P.O. Box 7171				ANAL	YSIS				ALL SAMPLES TO BE AN		14. A. C.
San Jose, CA 95150-7171  PROJECT NUMBER 150-504B				·	METHES	7			METHODS AND DETECTE ESTABLISHED BY REGIO OF THE STATE WATER F	ON LIMITS	
CLIENT HOLLAND ESTATE  SITE 16301 E. 14TH					ME	RPH			CONTROL BOARD.		
SITE 1630) E. 14TH					5	17			INSTRUCTIONS:	20517	
SAN LEANDRY, CA			Q	2	1	2					t ≟
	140	H	7560	270	7	5					•
SAMPLE 10 MATRIX CONTAINED	1	1	W	Ø	17	5				Canania I	
SAMPLE LD.  MATRIX  NUMBER OF CONTAINERS  O		\ \ \ \					-		TURNAROUND	SAMPLE CONDITION	LABSAMPLE#
BIN-B		·-<\S	₹		~	×			STANDARD		2354
									• • • • • • • • • • • • • • • • • • • •		
											<u> </u>
3.1									······································		
SAMPLING COMPLETED BY DATE TIME SAMPLING PERFORMED BY AND SAMPLING	, A	\$ l	SA	DOF	<u> </u>	MA	h212 (	JALL	entin Analytica	1 Siemo	5
RELEASED BY DATE OF THE PROPERTY OF THE PROPER	gs	AME	512		RECE	7//	uh A	120	utur	DATE /1/2/2	TIME 8 15:20
RELEASED BY DATE	<del></del>	IME			RECE	IVED NY				DATE	TIME
RELEASED BY DATE	т	IME			RECE	IVED BY			•	DATE	TIME
SHIPPED VIA DATE SEN	IT T	IME SENT	r c	OOLER #	¥					······································	



### **Analytical Sciences**

Report Date: September 28, 1998

Environmental Bio-Systems, Inc. P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

## **LABORATORY REPORT**

Project Name:

**Holland Estate** 

150-504B

Lab Project Number:

8090905

This 10 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director



#### **TPH Gasoline in Soil Composite**

<u>Lab #</u> 2354	Sample ID Bin A&B Composite	Analysis TPH/Gasoline	Result (mg	g/kg)	<b>RDL (mg/kg)</b> 10
ate Sampled: te Received: olding Time M	09/09/98 09/09/98 et: Yes		23/98 x 5030/8015M/8020	QC Ba	teh #: <u>547</u>
	•	TPH Diesel in Se	oil Composite		
Lab #	Sample ID	Analysis	Result (m		RDL (mg/kg) 100
2354	Bin A&B	Diesel	×10,000		100
	Composite natogram indicates s		of hydrocarbons are pre ne motor oil and grease		ese hydrocarbons
	Composite natogram indicates sher boiling point tha	Date Extracted: 09/2  Date Analyzed: 09/2	ne motor oil and grease	e range. 	<del></del>
have a hig ate Sampled: ate Received: olding Time M	Composite  atogram indicates sher boiling point that  09/09/98  09/09/98  et: Yes  No	Date Extracted: 09/2 Date Analyzed: 09/2	ne motor oil and grease 23/98 QC Bat 23/98 Me	ch #: 54! thod: EP	5 A 3550/8015M
have a hig ate Sampled: ate Received: olding Time M	Composite  atogram indicates sher boiling point that  09/09/98  09/09/98  et: Yes No	Date Extracted: 09/2 Date Analyzed: 09/2	ne motor oil and grease	ch #: 548thod: EP	5 A 3550/8015M
have a hig ate Sampled: ate Received: olding Time M	Composite  atogram indicates sher boiling point that  09/09/98  09/09/98  et: Yes  No	Date Extracted: 09/2 Date Analyzed: 09/2	drocarbons in Soi	ch #: 54! thod: EP	5 A 3550/8015M
have a hig ate Sampled: ite Received: olding Time M	Composite  atogram indicates sher boiling point that  09/09/98  09/09/98  et: Yes  No  otal Recoverab  Sample ID	Date Extracted: 09/2 Date Analyzed: 09/2  Date Analyzed: 09/2  Analysis	drocarbons in Soi	ch #: 54! thod: EP	5 A 3550/8015M D <b>site</b> RDL (mg/kg)
have a hig ate Sampled: ate Received: olding Time M	Composite  atogram indicates sher boiling point that  09/09/98  09/09/98  et: Yes  No  otal Recoverab  Sample ID  Bin A&B	Date Extracted: 09/2 Date Analyzed: 09/2  Date Analyzed: Hy  Analysis TRPH  Date Extracted: 09/	drocarbons in Soi	ch #: 548 thod: EP	5 A 3550/8015M D <b>site</b> RDL (mg/kg)



#### **Metals in Soil Composite**

Lab#	Sample ID	Analy	ysis	Result (mg/kg)	RDL (mg/kg)
2354	Bin A&B	Cadmium	1 (Cd)	9.0	1.0
	Composite	Chromiur	m (Cr)	67	1.5
	•	Lead (Pb)		330	4.0
		Nickel (Ni		26	2.0
		Zinc (Zn)	•	800	1.0
Date Sampled:	09/09/98	Date Digested:	09/10/98	Q	C Batch #: _ 532
Date Received:	09/09/98	Date Analyzed:	09/11/98, 09/15	/98	
Method:	EPA 3050/7000 se	eries			



## Volatile Hydrocarbons by GC/MS in Soil Composite

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
2354	Bin A&B	dichlorodifluoromethane	ND	500
	Composite	chloromethane	ND	500
		vinyl chloride	ND	500
		chloroethane	ND	500
		bromomethane	ND	500
		trichlorofluoromethane	ND	500
		1,1-dichloroethene	ND	500
		methylene chloride	ND	500
		trans-1,2-dichloroethene	ND	500
		1,1-dichloroethane	ND	500
		cis-1,2-dichloropropane	ND	500
		cis-1,2-dichloroethene	ND	500
		2,2-dichloropropane	ND	500
		chloroform	ND	500
		bromochloromethane	ND	500
		1,1,1-trichloroethane	ND	500
		1,2-dichloroethane	ND	500
		1,1-dichloropropene	ND	500
		carbon tetrachloride	ND	500
		benzene	ND	500
		trichloroethene	ND	500
		1,2-dichloropropane	ND	500
		dibromomethane	ND	500
		bromodichloromethane	ND	500
		cis-1,3-dichloropropene	ND	500
	•	toluene	*2,500	500
		1,1,2-trichloroethane	ND	500
		1,3-dichloropropane	ND	500
		dibromochloromethane	ND	500
				500
		1,2-dibromoethane	ND	500
		chlorobenzene	ND	500
		1,1,1,2-tetrachloroethane	ND	500
		ethyl benzene	11,800	500
	į	m,p-xylene	14,000	500
		styrene	ND	500
		0-x <del>ylene</del>	12,000	500
		bromoform	ND	500



	ple ID	Compo	und Nam	e	Result (ug/kg)	RDL (ug/km)
	1 1 1 1 1 1 1,	1,1,2,2-tetrach isopropyl han 1,2,3-trichloro bromobenzene n-propyl henze 2-chlorotoluen 1-chlorotoluen 1-chlorotoluen 1-chlorotoluen 1-chlorotoluen 1-chlorotoluen 1-chlorotoluen 1-chloroben 1-chlor	lloroetha zene propane e pne le	<del></del>	ND N	500 500 500 500 500 500 500 500 500 500
Surrogates		Result (ug/kg				500
dibromofluoromethane toluene-d <sub>8</sub> (25,000) 4-bromofluorobenzene		21,000 24,100 23,800	<u> </u>	84.0 96.4 95.2	80 - 1 80 - 1 80 - 1	20 20
Date Sampled: 09/09/98 Date Received: 09/09/98 Holding Time Met: Yes			9/23/98 PA 8260		QC Batch #:	549



# LABORATORY QUALITY ASSURANCE REPORT

QC Batch #: 547

**Lab Project #**: 8090905

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
2362	CMS	TPH/Gas	(9/9/	NS	
2002	CMS	Benzene	0.0370	0.0385	96.1
	CMS	Toluene	0.0337	0.0385	87.5
÷	CMS	Ethyl Benzene	0.0356	0.0385	92.5
	CMS	Xylenes	0.1170	0.1150	102

Sample #	Sample ID	Compound	Result (mg/kg)	Spike <u>Level</u>	% Recv.	RPD
2362	CMSD CMSD CMSD CMSD CMSD	TPH/Gas Benzene Toluene Ethyl Benzene Xylenes	0.0343 0.0321 0.0340 0.1100	NS 0.0385 0.0385 0.0385 0.1150	89.1 83.4 88.3 95.7	7.6 4.9 4.6 6.0



QC Batch #: 541

Lab Project #: 8090905

Sample		Result
ID	Compound	(mg/kg)
MB	TPH/Diesel	ND

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 548

Lab Project #: 8090905



QC Batch #: 532

Lab Project #: 8090905

Sample ID	Compound	Result (mg/kg)			
MB	Cadmium (Cd)	ND			
MB	Chromium (Cr)	ND			
MB	Lead (Pb)	ND			
MB	Nickel (Ni)	ND			
MB	Zinc (Zn)	ND			

Sample			Result	Spike	%
Sample #	ID	Compound	(mg/kg)	Level	Recv.
2329	CMS	Cadmium (Cd)	45	45	100
	CMS	Chromium (Cr)	200	182	89.6
	CMS	Lead (Pb)	89	91	90.8
	CMS	Nickel (Ni)	286	182	116
	CMS	Zinc (Zn)		NS	

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv	RPD
2329	CMSD	Cadmium (Cd)	47	45	104	4.3
	CMSD	Chromium (Cr)	210	182	95.1	4.9
	CMSD	Lead (Pb)	<del>9</del> 1	91	93.0	2.2
	CMSD	Nickel (Ni)	298	182	123	4.1
	CMSD	Zinc (Zn)		NS		

Sample 2329 metal levels (mg/kg): Cd - ND; Cr - 37; Pb - 6.4; Ni - 75



QC Batch #: 549

Lab Project #: 8090905

Sample ID	Compound Name	Result (ug/kg)
MB	1,1-dichloroethene	ND
MB	benzene	ND
MB	trichloroethene	ND
MB	toluene	ND
MB	chlorobenzene	ND

Surrogates	Result (ug/kg)	% Recovery	Acceptance Range (%
dibromofluoromethane (125)	109	87.2	80 - 120
oluene-d <sub>8</sub> (125)	122	97.6	80 <b>–</b> 120
4-bromofiuorobenzene (125)	119	<b>95</b> .2	60 <b>– 12</b> 0

Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.
LCS	1,1-dichloroethene	51.0	62.5	81.6
LCS	benzene	51.2	62.5	81.9
LCS	trichloroethene	51.0	62.5	81.6
LCS	toluene	54.0	62.5	86.4
LCS	chlorobenzene	56.5	62.5	90.4

Surrogates	Result (ug/kg)	% Recovery	Acceptance Range (%)
dibromofluoromethane (125)	105	84.0	80 – 120
toluene-d <sub>8</sub> (125)	122	97.6	80 – 120
4-bromofluorobenzene (125)	116	92.8	80 – 1 <b>20</b>



Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.	RPD
LCSD	1,1-dichloroethene	55.0	62.5	88.0	7.5
LCSD	benzene	54.1	62.5	86.6	5.5
LCSD	trichloroethene	51.4	62.5	82.2	0.78
LCSD	toluene	53.9	62.5	86.2	0.19
LCSD	chlorobenzene	57.2	62.5	91.5	1.2

Surrogates	Result (ug/kg)	% Recovery	Acceptance Range (%)
dibromofluoromethane (125)	103	82.4	80 – 120
toluene-d <sub>6</sub> (125)	117	93.6	80 – 120
4-bromofluorobenzene (125)	109	87.2	80 <b>–</b> 120

Innovative (408) 979-8	MENTAL BIO-S Solutions for a Bet 8600	ter Environment			<u> </u>	HAI	OF	CUS	TOD	<b>Y</b>		LAB JOB	. (	3090905
P.O. Box 7 San Jose, C		B TH e, CA				(2)	ANAL Q	T S METHUS F	20/TRPH		M E C C	ALL SAMPLES TO METHODS AND ESTABLISHED BY OF THE STATE WE CONTROL BOAR ISTRUCTIONS:	PETECTI Y REGIO VATER F D.	ON LIMITS ON RESOURCES
SAMPLE I.D. BIN-A BIN-B	MATRIX	NUMBER OF CONTAINERS	X X COMPOSITE	F3-1-X	HAT X	82	28	107 X	55 X	-		TURNAROI STANDAG i 1		SAMPLE
SAMPLING COMPLETED COMPLETED		PLING FORMED BY					<u> </u>	<u> </u>						

DATE

DATE SENT

TIME

TIME SENT

RELEASED BY

RELEASED BY

SHIPPED VIA

RECEIVED BY

RECEIVED BY

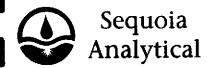
COOLER #

2354

TIME 15126

TIME

DATE



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

September 29, 1998

Mark Valentini Analytical Sciences PO Box 750336 Petaluma, CA 94975

RE: Mark Valentini/P809172

Dear Mark Valentini

Enclosed are the results of analyses for sample(s) received by the laboratory on September 14, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

1

Matt Sakai Project Manager

CA ELAP Certificate Number 2245



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical Sciences PO Box 750336 Petaluma, CA 94975

Project: Mark Valentini Project Number: Holland (8090905) Project Manager: Mark Valentini

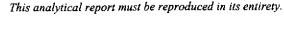
Sampled: 9/9/98 9/14/98 Received: 9/29/98 Reported:

#### **ANALYTICAL REPORT FOR P809172**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
Bin A-B (2354)	P809172-01	Soil	9/9/98



Sequoia Analytical - Petaluma



**£** 

The results in this report apply to the samples analyzed in accordance with the chain of custody document.



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical Sciences PO Box 750336 Petaluma, CA 94975 Project: Mark Valentini
Project Number: Holland (8090905)
Project Manager: Mark Valentini

Sampled: 9/9/98 Received: 9/14/98 Reported: 9/29/98

#### Semivolatile Organic Compounds by EPA Method 8270B Sequoia Analytical - Petaluma

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Bin A-B (2354)			P8091	72-01			<u>Soil</u>	
Acenaphthene	8090368	9/22/98	9/24/98	<u> </u>	8250	ND	ug/kg	
Acenaphthylene	"	"	"		8250	1.49400	"	
Anthracene	**	п	n		8250	ND	it.	
Benzoic acid	н	п	н		41800	ND	H	
Benzo (a) anthracene	**	п	•		8250	ND	••	
Benzo (b) fluoranthene	н	п	**		8250	ND	**	
Benzo (k) fluoranthene	+5	п	41		8250	ND	11	
Benzo (g,h,i) perylene	**	п	11		8250	ND	11	
Benzo (a) pyrene	**	и	11	•	8250	ND	**	
Benzyl alcohol	**	п	п		16500	ND	17	
Bis(2-chloroethoxy)methane	11	п	н		8250	ND	19	
Bis(2-chloroethyl)ether	11	It	**		8250	ND	11	
Bis(2-chloroisopropyl)ether	11	19	**		8250	ND	11	
Bis(2-ethylhexyl)phthalate		10	11		8250 8250	3000		
4-Bromophenyl phenyl ether	11	19	19		8250 8250	ND	11	
Butyl benzyl phthalate		н	10		8250 8250	ND	16	
4-Chloroaniline	н	<b>!</b>	н		16500	ND		
4-Chloro-3-methylphenol	**	17	17		16500	ND		
2-Chloronaphthalene			19		8250	ND	19	
2-Chlorophenol	**	0	17		8250 8250	ND	le .	
	**	14	17		8250 8250	ND ND	.,	
4-Chlorophenyl phenyl ether	"	(1	11		8250 8250	ND	**	
Chrysene						ND ND	н	
Dibenz (a,h) anthracene		H			8250		*1	
Dibenzofuran	"	"			8250	ND	*1	
Di-n-butyl phthalate	"	"			8250	ND	"	
1,2-Dichlorobenzene		"	**		8250	ND	"	
1,3-Dichlorobenzene	**				8250	ND		
1,4-Dichlorobenzene	11	"	**		8250	ND	"	
3,3'-Dichlorobenzidine	11		.,		16500	ND		
2,4-Dichlorophenol	п	0	11		8250	ND		
Diethyl phthalate	11	11	*1		8250	ND		
2,4-Dimethylphenol	n .	Iŧ	н		8250	ND .	I <b>f</b>	
Dimethyl phthalate	II .	II .	II .		8250	ND	D.	
4,6-Dinitro-2-methylphenol	II .	11	н		41800	ND	II	
_ 2,4-Dinitrophenol	)ı	U	П		41800	ND	II	
2,4-Dinitrotoluene	и	н	п		8250	ND	п	
2,6-Dinitrotoluene	ıı .	,	II .		8250	ND	п	
Di-n-octyl phthalate	п	**	п		8250	ND	It	
Fluoranthene	It	н	п		8250	ND	II	
Fluorene	D.	n	п		8250	ND	п	
Hexachlorobenzene	It.	*1	п		8250	ND	п	

Sequoia Analytical - Petaluma





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical Sciences PO Box 750336 Petaluma, CA 94975 Project: Mark Valentini
Project Number: Holland (8090905)
Project Manager: Mark Valentini

Sampled: 9/9/98 Received: 9/14/98 Reported: 9/29/98

#### Semivolatile Organic Compounds by EPA Method 8270B Sequoia Analytical - Petaluma

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes'
Bin A-B (2354) (continued)			P8091	72-01			Soil	
Hexachlorobutadiene	8090368	9/22/98	9/24/98	<del></del>	8250	ND	ug/kg	
Hexachlorocyclopentadiene	n		P.		8250	ND	"	
Hexachloroethane	н	н	1+		8250	ND	**	
Indeno (1,2,3-cd) pyrene	11		14		8250	ND	17	
Isophorone	11	II.			8250	ND	19	
2-Methylnaphthalene	11	n	19		8250	31800	11	
2-Methylphenol	n	IF	18		8250	ND	н	
4-Methylphenol	**	It	10		8250	ND	17	
Naphthalene	+1	IF	v		8250	ND	10	
_2-Nitroaniline	*1	tt.	"		41800	ND	n.	
3-Nitroaniline	**	R	tr .		41800	ND	D.	
4-Nitroaniline	*1	п	*1		41800	ND	11	
Nitrobenzene	**	п	*1		8250	ND	11	
2-Nitrophenol	ti	п	*1		8250	ND	**	
4-Nitrophenol	ů.	п	ti .		41800	ND	**	
N-Nitrosodiphenylamine	**	ц	+	•	8250	ND	"	
N-Nitrosodi-n-propylamine		п	**		8250	ND	**	
Pentachlorophenol	<b>61</b>	и	•		41800	ND	**	
Phenanterene	*1	п			8250	12300	**	
Phenol	**	и	**		8250	ND	**	
Рутепе	. •	н	••		8250	ND	**	
1,2,4-Trichlorobenzene	11	п	#		8250	ND	**	
2,4,5-Trichlorophenol	п	п	#		8250	ND	**	
2,4,6-Trichlorophenol	**	п	**		8250	ND	11	
Surrogate: 2-Fluorophenol	"	ır	н	_		49.0	%	
Surrogate: Phenol-d6	n	tt	H	_		83.2	n	
Surrogate: Nitrobenzene-d5	"	п	"	-		76.6	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	_		82.9	"	
Surrogate: 2,4,6-Tribromophenol	"	n	ff.	-		162	"	S-AC
Surrogate: Terphenyl-dl4	"	Ħ	"	_		129	,,	



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical SciencesProject:Mark ValentiniSampled:9/9/98PO Box 750336Project Number:Holland (8090905)Received:9/14/98Petaluma, CA 94975Project Manager:Mark ValentiniReported:9/29/98

#### Semivolatile Organic Compounds by EPA Method 8270B/Quality Control Sequoia Analytical - Petaluma

· <del>· · · · · · · · · · · · · · · · · · </del>	Date	Spike	Sample	QC		Reporting Limit Recov.	RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits %	Limit	% Notes*
Batch: 8090368	Date Prepa	red: 9/22/9	98		Extrac	tion Method: EPA 3550A		
Blank	8090368-B							
Aniline	9/24/98	<del></del>		ND	ug/kg	330		
Benzidine	11			ND	"	1670		
N-Nitrosodimethylamine	11			ND	R	330		
Anthracene	**			ND	11	330		
Benzoic acid	11			ND	11	1670		
Benzo (a) anthracene	11			ND	P.	330		•
Benzo (b) fluoranthene	**			ND	It	330		
Benzo (k) fluoranthene	•			ND	It	330		
Benzo (g,h,i) perylene	11			ND	19	330		
Benzo (a) pyrene	11			ND		330		
Benzyl alcohol	**			ND	t <del>t</del>	660		
Bis(2-chloroethoxy)methane	u .			ND	te.	330		
Bis(2-chloroethyl)ether	17			ND		330		
Bis(2-chloroisopropyl)ether	H,			ND	tt.	330		
Bis(2-ethylhexyl)phthalate	н			ND	i ii	330		
4-Bromophenyl phenyl ether	н			ND		330	•	
Butyl benzyl phthalate	•			ND	"	330		
4-Chloroaniline	4			NĎ	e e	660		
4-Chloro-3-methylphenol	н			ND	IT	660		
2-Chloronaphthalene	**			ND	u	330		
2-Chlorophenol	*			ND	It.	330		
4-Chlorophenyl phenyl ether	н			ND	п	330		
Chrysene	n			ND	It	330		
Dibenz (a,h) anthracene	++			ND	п	330		
Dibenzofuran	•			ND	п	330		
Di-n-butyl phthalate	11			ND	п	330		
1,2-Dichlorobenzene	11			ND	н .	330		
1,3-Dichlorobenzene	"			ND	. "	330		
1,4-Dichlorobenzene	17			ND	l!	330		
3,3'-Dichlorobenzidine	16			ND	lt.	660		
2,4-Dichlorophenol	•			ND	.,	330		
Diethyl phthalate	· ·			ND	11	330		
2,4-Dimethylphenol	11			ND	**	330		
Dimethyl phthalate	10			ND	16	330		
4,6-Dinitro-2-methylphenol	11			ND	**	1670		
2,4-Dinitrophenol	*			ND	+	1670		
2,4-Dinitrotoluene	H			ND	н	330		
2,6-Dinitrotoluene	н			ND	n	330		•
Di-n-octyl phthalate	+1			ND	*1	330		
Fluoranthene	"			ND	**	330		

Sequoia Analytical - Petaluma





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical SciencesProject:Mark ValentiniSampled:9/9/98PO Box 750336Project Number:Holland (8090905)Received:9/14/98Petaluma, CA 94975Project Manager:Mark ValentiniReported:9/29/98

## Semivolatile Organic Compounds by EPA Method 8270B/Quality Control Sequoia Analytical - Petaluma

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Blank (continued)	8090368-BI	I K 1								
Fluorene	9/24/98	<u>LK1</u>		ND	ug/kg	. 330				
Hexachlorobenzene	), <u>2</u> 4, 70			ND	11	330				
Hexachlorobutadiene	"			ND	п	330				
Hexachlorocyclopentadiene	H			ND	It	330				
Hexachloroethane				ND	u ·	330				
Indeno (1,2,3-cd) pyrene	(1			ND	Iŧ.	330				
Isophorone	**			ND	11	330				
2-Methylnaphthalene	н			ND	IP	330				
2-Methylphenol	+1			ND	19	330				
4-Methylphenol	н			ND	It	330				
Naphthalene	*1			ND	It.	330				
2-Nitroaniline	"			ND	Iŧ.	1670				
3-Nitroaniline	11			ND	17	1670				
4-Nitroaniline	19			ND ND	11	1670				
Nitrobenzene	11			ND	14	330				
2-Nitrophenol	,,			ND	н	330				
4-Nitrophenol	н			ND	**	1670				
N-Nitrosodiphenylamine	*1			ND	Ħ	330				
N-Nitrosodi-n-propylamine	11			ND	Ħ	330				
Pentachlorophenol	н			ND	**	1670				
Phenanthrene	n .			ND	**	330				
Phenol	ш			ND	**	330				
Pyrene	ш			ND	77	330				
1,2,4-Trichlorobenzene	п			ND	10	330				
2,4,5-Trichlorophenol	ш			ND	1+	330				
2,4,5-Trichlorophenol	ıt			ND	19	330				
Surrogate: 2-Fluorophenol		5000	·	3020		330	60.4			
Surrogate: 2-Ftworophenoi Surrogate: Phenol-d6	11	5000		3230	,,		64.6			
Surrogate: Phenot-ao Surrogate: Nitrobenzene-d5	н	3330		2080	"		62.5			
Surrogate: Nurobenzene-us Surrogate: 2-Fluorobiphenyl	н	3330		2390	п		71.8			
Surrogate: 2-Finorooiphenyi Surrogate: 2,4,6-Tribromophenol	#	5000		3760	11		75.2			
	"	3330		2790	11		83.8			
Surrogate: Terphenyl-dl4		3330		2/90			05.0			
LCS	8090368-B	<u>S1</u>								
Acenaphthene	9/24/98	3330		2180	ug/kg		65.5			
4-Chloro-3-methylphenol	•	5000		3180	п		63.6			
2-Chlorophenol	•	5000		2980	II .		59.6			
1,4-Dichlorobenzene	**	3330		1780	И		53.5			
2,4-Dinitrotoluene	11	3330		2200	D		66.1			
4-Nitrophenol	**	5000		2800	14		56.0			
N-Nitrosodi-n-propylamine	10	3330		1930	I+		58.0			
		-								

Sequoia Analytical - Petaluma



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical SciencesProject:Mark ValentiniSampled:9/9/98PO Box 750336Project Number:Holland (8090905)Received:9/14/98Petaluma, CA 94975Project Manager:Mark ValentiniReported:9/29/98

## Semivolatile Organic Compounds by EPA Method 8270B/Quality Control Sequoia Analytical - Petaluma

_	Date	Spike	Sample	QC		Reporting Limit R		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
LCS (continued)	8090368-BS	61								
Pentachlorophenol	9/24/98	5000		3170	ug/kg		63.4			
Phenol	et .	5000		2500	11		50.0			
Рутепе	н	3330		1660	II		49.8			
1,2,4-Trichlorobenzene	н	3330		1930	It.		58.0			
Surrogate: 2-Fluorophenol	#	5000		3020	"		60.4			
Surrogate: Phenol-d6	"	5000		2750	rr		55.0			
Surrogate: Nitrobenzene-d5	tt .	3330		1930	n		58.0			
Surrogate: 2-Fluorobiphenyl	tt	3330		2140	"		64.3			
Surrogate: 2,4,6-Tribromophenol	"	5000		3450	"		69.0			
Surrogate: Terphenyl-dl4	H	3330		2590	Tf		77.8			
Matrix Spike	8090368-M	S1 P	809157-06							
Acenaphthene	9/24/98	3330	ND	2260	ug/kg		67.9			
4-Chloro-3-methylphenol	*1	5000	ND	3610	"		72.2			
2-Chlorophenol	tr	5000	ND	3010	п		60.2			
4-Dichlorobenzene	11	3330	ND	1670	п		50.2			
2,4-Dinitrotoluene	11	3330	ND	2500	и		75.1			
4-Nitrophenol	11	5000	ND	3370	п		67.4			
N-Nitrosodi-n-propylamine	H	3330	ND	2170	п		65.2			
Pentachlorophenol	II .	5000	ND	3880	п		77.6			
Phenol		5000	ND	2690	. "		53.8			
Pyrene	11	3330	ND	1800	п		54.1			
1,2,4-Trichlorobenzene	11	3330	ND	1790	п		53.8			
Surrogate: 2-Fluorophenol	"	5000		2930	H	·	58.6			
Surrogate: Phenol-d6	"	5000		2930	**		58.6			
Surrogate: Nitrobenzene-d5	"	3330		1970	н		59.2			
Surrogate: 2-Fluorobiphenyl	"	3330		2150	11		64.6			
Surrogate: 2,4,6-Tribromophenol	"	5000	•	3810	"		7 <b>6</b> .2			
Surrogate: Terphenyl-dl4	"	3330		3080	"		92.5			
Matrix Spike Dup	8090368-M	SD1 P	809157-0 <u>6</u>							
Acenaphthene	9/24/98	3330	ND	2310	ug/kg		69.4		2.18	
4-Chloro-3-methylphenol	**	5000	ND	3580	"		71.6		0.834	
2-Chlorophenol	**	5000	ND	3100	It		62.0		2.95	
1,4-Dichlorobenzene	••	3330	ND	1620	II.		48.6		3.24	
2,4-Dinitrotoluene	**	3330	ND	2610			78.4		4.30	
4-Nitrophenol	11	5000	ND	3510	10		70.2		4.07	
N-Nitrosodi-n-propylamine	**	3330	ND	2260			67.9		4.06	
Pentachlorophenol		5000	ND	4030	#		80.6		3.79	
Phenol	н	5000	ND	2760	**		55.2		2.57	
Pyrene	**	3330	ND	1910	re		57.4		5.92	

Sequoia Analytical - Petaluma

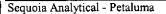


Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical SciencesProject:Mark ValentiniSampled:9/9/98PO Box 750336Project Number:Holland (8090905)Received:9/14/98Petaluma, CA 94975Project Manager:Mark ValentiniReported:9/29/98

## Semivolatile Organic Compounds by EPA Method 8270B/Quality Control Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov.	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)	8090368-M	SD1 P	809157-06							
1,2,4-Trichlorobenzene	9/24/98	3330	ND	1 <b>79</b> 0	ug/kg		53.8		0	
Surrogate: 2-Fluorophenol	"	5000		3120	"		62.4			
Surrogate: Phenol-d6	H	5000		3050	rr .		61.0			
Surrogate: Nitrobenzene-d5	"	3330		2100	*		63.1			
Surrogate: 2-Fluorobiphenyl	"	3330		2350	11		70.6			
Surrogate: 2,4,6-Tribromophenol	"	5000		4110	rt .		82.2			
Surrogate: Terphenyl-dl4	n	3330		3350	rr .		101			





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Analytical Sciences PO Box 750336 Petaluma, CA 94975

Project: Mark Valentini
Project Number: Holland (8090905)
Project Manager: Mark Valentini

Sampled: 9/9/98 Received: 9/14/98 Reported: 9/29/98

#### Notes and Definitions

# Note

S-AC Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference



#### **Analytical Sciences**

P.O. Box 750338, Petaluma, CA 94975-0336 1130 Industrial Ave., #11, Petaluma, CA 94952 (707) 769-3128 Fax (707) 769-8093

# CHAIN OF CUSTODY

	CLIENT	INCARI							ROJEC							
<u></u>		INFURI	MATIO	N			Cı	IENT,	e Deo						1.2.	
COMPANY N	NAME: ANALY	VITICAL	Scien	UCES	•			_16141	3 F KU	JECTIV	PAIVIE.	1400	LANI	809	0905)	
Add	RESS: P.O. E	Sox 7	<u> 5033</u>	6				TURN	AROU	ND TII	ИE (c	heck	one)		OLER TEMPE	
0	PETALU	MA,	CA 9	497	15-03	36	1	BILE LAB		2	4 Hour	₹5		<u>eo c</u>	d/blue ICED	_ °C ,
	TACT: MARK	VAL	ENTIN	<u>U/</u>	<del></del>		j	Hours			2 Hour			- cc	,	,
	NE#: <u>(707)</u>		-31.28				ł	5 DAYS			Norm		1/	- PA	GE OF	
F	AX#: <u>[707]</u>	769	-809	3									<i>V</i>	-	05	30917
,									ANALYS	IS (circ	le me	thods)				)
TEM CLIENT SAMPI	LE I.D. DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	Tok C	SMETER TON	Office Po	A SONO LEPA S	10°	LEAD VILLE	AN S	10/		OMMENTS	LAB SAMPLE #
1 BINA-BG	1354) 9-9-98	,	SOIL	1				·			Χ			Composit	ed by	P307172-1
2 Compos														Arralyt	CAL	
3														Science	ES.	
4									<u> </u>							<u> </u>
5																<u> </u>
6																
7		<u> </u>								<del> </del>						<del> </del>
8																<u> </u>
9		ļ										ļ				<del> </del>
10													<u> </u>			<u></u>
						SIGN	ATURE	S								
RELINIQUISHED B	a. alle		9//3 DATE	4/98	llo	55 Time		ECEIVED GNATURE	By LABO	RATORY:		,		9/14/ DATE	158	1635 Time



## **Analytical Sciences**

Report Date: September 24, 1998

Environmental Bio-Systems, Inc. P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

## LABORATORY REPORT

Project Name:

**Holland Estate** 

150-504B

Lab Project Number:

8090906

This 20 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director



#### TPM Gasoline in Soil

T1-10'	TPH/Gasoline	3,900	200
	MTBE	ND	4.0
		10	1.0
	Toluene	16	1.0
		6.7	1.0
	Xylenes	45	3.0
	11-10	MTBE Benzene Toluene Ethyl Benzene	MTBE ND Benzene 10 Toluene 16 Ethyl Benzene 6.7

Date Sampled: 09/09/98  Date Received: 09/09/98	Date Analyzed: Method:	09/22/98 EPA 5030/8015M/8020	QC Batch #: 547
Holding Time Met: Yes	No		

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
2356	T2-1-10'	TPH/Gasoline	3,700	400
		MTBE	ND	8.0
		Benzene	7.0	2.0
		Toluene	6.9	2.0
		Ethyl Benzene	9.1	2.0
		Xylenes	40	6.0

Date Sampled: 09/09/98  Date Received: 09/09/98		09/22/98 EPA 5030/8015M/8020	QC Batch #: 547
Holding Time Met: Yes N	4o		

Lab#	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
2357	T2-2-10'	TPH/Gasoline	3,800	400
		MTBE	ND	8.0
		Benzene	8.7	2.0
		Toluene	11	2.0
		Ethyl Benzene	9.6	2.0
		Xylenes	44	6.0

Date Sampled: 09/09/98	Date Analyzed:		QC Batch #: _547
Date Received: 09/09/98	Method:	EPA 5030/8015M/8020	
Holding Time Met: Yes	No		



Lab#	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
2358	T3-1-10'	TPH/Gasoline	1,200	200
		MTBE	ND	4.0
		Benzene	3.0	1.0
		Toluene	5.2	1.0
		Ethyl Benzene	3.3	1.0
		Xylenes	12	3.0

 Date Sampled:
 09/09/98
 Date Analyzed:
 09/22/98
 QC Batch #:
 547

 Date Received:
 09/09/98
 Method:
 EPA 5030/8015M/8020

 Holding Time Met:
 Yes
 No

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
2359	T3-2-10'	TPH/Gasoline	6,900	200
		MTBE	ND	4.0
		Benzene	21	1.0
		Toluene	28	1.0
	•	Ethyl Benzene	16	1.0
	•	Xylenes	100	3.0

 Date Sampled:
 09/09/98
 Date Analyzed:
 09/22/98
 QC Batch #:
 547

 Date Received:
 09/09/98
 Method:
 EPA 5030/8015M/8020

 Holding Time Met:
 Yes
 ✓
 No

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
2362	T5,6-1-10'	TPH/Gasoline	1.7	1.0
	,	MTBE	ND	0.025
		Benzene	0.005	0.005
	•	Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.018	0.015

 Date Sampled:
 09/09/98
 Date Analyzed:
 09/23/98
 QC Batch #:
 547

 Date Received:
 09/09/98
 Method:
 EPA 5030/8015M/8020

 Holding Time Met:
 Yes
 ✓



Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
2363	T5,6-2-10'	TPH/Gasoline	4.0	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.039	0.015

 Date Sampled:
 09/09/98
 Date Analyzed:
 09/23/98
 QC Batch #:
 547

 Date Received:
 09/09/98
 Method:
 EPA 5030/8015M/8020

 Holding Time Met:
 Yes
 No



### **TPH Diesel in Soil**

Lab #	Sample ID	Analysi	s	Result (mg/kg)	RDL (mg/kg)
2355	T1-10'	Diesel		1,100	10
Date Sampled: Date Received: Holding Time Mo	09/09/98 09/09/98 et: Yes _		9/15/98 9/16/98	QC Batch #: Method:	541 EPA 3550/8015M

Lab #	Sample ID	Analy	/sis Ro	esult (mg/kg)	RDL (mg/kg)
2356	T2-1-10'	Diesel		3,200	100
Date Sampled:	09/09/98	Date Extracted:	09/15/98	QC Batch #:	541
Date Received: Holding Time Me	09/09/98 et: Yes <u>✓</u>	Date Analyzed: No	09/16/98, 09/23/98	_ Method:	EPA 3550/8015M

Lab#	Sample ID	Analysis	Result (mg/kg)	
2357	T2-2-10'	Diesel	2,600	10
Date Sampled:	09/09/98	Date Extracted: 09/15/ Date Analyzed: 09/16/	<del></del>	541 EPA 3550/8015M
Holding Time M		No		

Lab #	Sample ID	Analys	sis	Result (mg/kg)	RDL (mg/kg)
2358	T3-1-10'	Diesel		460	5.0
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 et: Yes _ /	Date Extracted: Date Analyzed:	09/15/98 09/16/98	QC Batch #: 541 Method: EP/	A 3550/8015M



Lab#	Sample ID	Analysis		Result (mg/kg)	RDL (mg/kg)
2359	T3-2-10'	Diesel	<u> </u>	390	5.0
Date Sampled: Date Received: Holding Time Mo	09/09/98 09/09/98 et: Yes	Date Extracted: Date Analyzed:	09/15/98 09/16/98	QC Batch #: Method:	541 EPA 3550/8015M

Lab#	Sample ID	Analy	sis	Result (mg/kg)	RDL (mg/kg)
2362	T5,6-1-10'	Diesel		ND	5.0
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 et: Yes ✓ N	Date Extracted: Date Analyzed:	09/15/98 09/18/98		541 EPA 3550/8015M

. Lab#	Sample ID	Analy	sis	Result (mg/kg)	RDL (mg/kg)
2363	T5,6-2-10'	Diesel		80	5.0
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 et: Yes _ ✓	Date Extracted: Date Analyzed:	09/15/98 09/18/98		541 EPA 3550/8015M



#### **TPH Stoddard Solvent in Soil**

Lab#	Sample ID	Analy	Analysis Re		RDL (mg/kg)
2360	T4-1-10'	Stoddard	Solvent	9,600	200
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 let: Yes <b>✓</b>	Date Extracted: Date Analyzed: No	09/15/98 09/16/98, 09/23/98		541 EPA 3550/8015M

Lab #	Sample ID	Analy		esult (mg/kg)	RDL (mg/kg)
2361	T4-2-10'	Stoddard		* 4,300	100
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 et: Yes	Date Extracted: Date Analyzed: No	09/15/98 09/16/98, 09/23/98	QC Batch #: Method:	541 EPA 3550/8015M

#### **BTEX in Soil**

Lab#	b # Sample ID Analysis		Result (mg/kg)	RDL (mg/kg)
	T4-1-10'	Benzene	ND	2.5
		Toluene Ethyl Benzene	ND 69	2.5 2.5
		Xylenes	130	7.5
Data Sampled:	00/00/08	Date Analyzed: 09/22/98	QC Bato	h#: 547

Date Sampled: 09/09/98  Date Received: 09/09/98	Date Analyzed: Method:	09/22/98 EPA 5030/8015M/8020	QC Batch #: _547
Holding Time Met: Yes	No		

2361	Sample ID T4-2-10'	Analy Benzene Toluene Ethyl Ben Xylenes	<u> </u>	Result (mg/k 4.0 5.7 11 36	g) RDL (mg/kg) 1.0 1.0 1.0 3.0
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 et: Yes	Date Analyzed:  Method:	09/22/98 EPA 5030/8015	5M/8020	QC Batch #: _547



### **Total Lead in Soil**

Lab #	Sample ID	Analysis Lead (Pb)		Result (mg/kg)	RDL (mg/kg)
2355	T1-10'			15	4.0
Date Sampled:	09/09/98	Date Digested:	09/09/98	QC Ba	tch #: 532
Date Received:	09/09/98	Date Analyzed:	09/11/98		
Method:	EPA 3050/7420				

Sample ID	Analysis Lead (Pb)		Result (mg/kg)	RDL (mg/kg)
T2-1-10'			15	4.0
09/09/98	Date Digested:	09/09/98	QC Ba	atch #: 532
09/09/98 EBA 3050/7420	Date Analyzed:	09/11/98		
	<b>T2-1-10'</b> 09/09/98 09/09/98	T2-1-10'         Lead (Pb)           09/09/98         Date Digested:           09/09/98         Date Analyzed:	T2-1-10' Lead (Pb)  09/09/98 Date Digested: 09/09/98	T2-1-10'         Lead (Pb)         15           09/09/98         Date Digested: 09/09/98         09/09/98         QC Bate Analyzed: 09/11/98

Lab #	Sample ID T2-2-10'	Lead (Pb)				Result (mg/kg) 17	RDL (mg/kg) 4.0
Date Sampled:	09/09/98	Date Digested:	09/09/98	QC I	Batch #:532		
Date Received: Method:	09/09/98 EPA 3050/7420	Date Analyzed:	09/11/98				

Lab # 2358	Sample ID T3-1-10'	Analy Lead (Pb)		Result (mg/kg) 5.0	RDL (mg/kg) 4.0
Date Sampled: 09/09/98		Date Digested:	09/09/98	QC I	Batch #:532
Date Received: Method:	09/09/98 EPA 3050/7420	Date Analyzed:	09/11/98		



Lab #	Sample ID	Analy	/sis	Result (mg/kg)	RDL (mg/kg)
2359	T3-2-10'	Lead (Pb)		7.0	4.0
Date Sampled: Date Received: Method:	09/09/98 09/09/98 EPA 3050/7420	Date Digested:	09/09/98 09/11/98	QC	Batch #: 532

Lab #			ysis	Result (mg/kg)	RDL (mg/kg) 4.0
Date Sampled:	09/09/98	Lead (Pb)  Date Digested:	09/09/98		Batch #: 532
Date Received: Method:	09/09/98 EPA 3050/7420	Date Analyzed:	09/11/98		

Lab #         Sample ID           2363         T5,6-2-10'	Analysis		Result (mg/kg)	RDL (mg/kg)
	Lead (Pb)		5.0	4.0
09/09/98	Date Digested:	09/09/98	QC I	Batch #: 532
09/09/98	Date Analyzed:	09/11/98		
	T5,6-2-10'	75,6-2-10' Lead (Pb)  09/09/98 Date Digested: 09/09/98 Date Analyzed:	T5,6-2-10'     Lead (Pb)       09/09/98     Date Digested: 09/09/98       09/09/98     Date Analyzed: 09/11/98	T5,6-2-10'     Lead (Pb)     5.0       09/09/98     Date Digested: 09/09/98     09/09/98     QC II       09/09/98     Date Analyzed: 09/11/98



### **Analytical Sciences**

September 24, 1998

Dave Sadoff Environmental Bio-Systems, Inc. P.O. Box 7171 San Jose, CA 95150-7171

Dear Dave,

Enclosed you will find Analytical Sciences' final report 8091501 for your Holland Estate (150-504B) project site. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini



## **Analytical Sciences**

Report Date: September 24, 1998

Environmental Bio-Systems, Inc. P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

# **LABORATORY REPORT**

Project Name:

J. Holland Estate

150-504B

Lab Project Number:

8091501

This 5 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director



### **BTEX in Soil Composite**

Lab #	Sample ID	Analy	sis Resul	lt (mg/kg) R	DL (mg/kg)
2373	SS1-4 Composite	Benzene Toluene		ND ND ND	0.005 0.005 0.005
		Ethyl Ben Xylenes		ND	0.015
Date Sampled: Date Received: Holding Time M	09/14/98 09/15/98 et: Yes 🗸 N	Date Analyzed: Method:	09/24/98 EPA 5030/8015M/8020	QC Batch #	547

Lab#	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
2374	KS1-4	Benzene	ND	1.0
	Composite	Toluene	ND	1.0
	Composito	Ethyl Benzene	ND	1.0
		Xylenes	ND	1.0

Significant levels of hydrocarbons necessitated a dilution which resulted in elevated detection limits.

Date Sampled:		Date Analyzed:		QC Batch #: _547
Date Received:	09/15/98	Method:	EPA 5030/8015M/8020	
Holding Time Me	t: Yes	No		



### **TPH Stoddard Solvent in Soil Composite**

Result (mg/kg) RDL (mg/kg) Analysis Sample ID Lab# 2373 **Stoddard Solvent** ND **SS1-4** Composite 541 Date Extracted: \_09/15/98 QC Batch #: 09/14/98 Date Sampled: Method: EPA 3550/8015M 09/15/98 Date Analyzed: 09/18/98 Date Received: Holding Time Met:

### **TPH Kerosene in Soil Composite**

Lab # Sample ID  2374 KS1-4 Composite		Analy Kerosene		5,200	RDL (mg/kg) 200	
Date Sampled: Date Received: Holding Time N	09/15/98	Date Extracted: Date Analyzed:	09/15/98 09/18/98, 09/22/98	QC Batch #: Method:	541 EPA 3550/8015M	



# LABORATORY QUALITY ASSURANCE REPORT

QC Batch #: 547

Lab Project #: 8091501

Sample ID	Compand	Result
U	<u>Compound</u>	(mg/kg)
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

	Sample		Result	Spike	%
Sample #	ID	Compound	(mg/kg)	Level	Recv.
2362	CMS	TPH/Gas		NS	
•	CMS	Benzene	0.0370	0.0385	96.1
	CMS	Toluene	0.0337	0.0385	87.5
	CMS	Ethyl Benzene	0.0356	0.0385	92.5
	CMS	Xylenes	0.1170	0.1150	102

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
2362	CMSD	TPH/Gas		NS		
	CMSD	Benzene	0.0343	0.0385	89.1	7.6
	CMSD	Toluene	0.0321	0.0385	83.4	4.9
	CMSD	Ethyl Benzene	0.0340	0.0385	88.3	4.6
	CMSD	Xylenes	0.1100	0.1150	95.7	6.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate

NS = Not Spiked; OR = Over Calibration Range



Lab Project #: 8091501 \_\_

	Sample ID MB	Compound TPH/Diesel	Result (mg/kg) ND			
Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	
2330	CMS	TPH/Diesel	391	438	89.3	
	Sample		Result	Spike	· %	
Sample #	ID	Compound	(mg/kg)	Level	Recv.	RPD
2330	CMSD	TPH/Diesel	390	438	89.0	0.26

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate NS = Not Spiked; OR = Over Calibration Range

<b>B</b> 5

### **ENVIRONMENTAL BIO-SYSTEMS, INC.**

Innovative Solutions for a Better Environment

# CHAIN OF CUSTODY LABRESTEET # 8091501

(408) 979-86				L		ANAL	YSIS				ALL SAMPLES TO BE AN	AI VZED IIQI	ING
PROJECT NUMBER 150-	504B			\ \ \ \ \							METHODS AND DETECTION ESTABLISHED BY REGIO OF THE STATE WATER R CONTROL BOARD.	ON LIMITS N	
CLIENT J. HOLLAN	D ES	TATE		RES	<u>8</u>						INSTRUCTIONS:		<del></del>
SITE 16301	E. 14	TH ST.		4	+								
SAN LEN	noro, c	A		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	1 2		:						
	<u>-</u>		OSITE	77	107								
SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE		1					-	TURNAROUND	SAMPLE CONDITION	LAB SAMPLE#
551-4	SOIL	4/	X		1						STANDARID		2373
KS1-4	SOIL	4	1×		X						"/		2374
			_	<del> </del>							<del></del>		
			<del>-  </del>	<del> </del>									
						1							
				ļ									
				-						-			<u></u>
SAMPLING COMPLETED COMPLICATION COMPLETED COMPLETED COMPLETED COMPLETED COMPLETED COMPLICATION COMPLETED COMPLETED COMPLETED COMPLICATION COMPLETED COMPLICATION COMPLETED COMPLICATION COMPLICATION COMPLICATION COMPLI	TIME USAMP	PLING COPINED BY	$\frac{1}{2}$	<u> </u>	1	/ 10	سىچىمەرد		- AA o		VAJENTINI A		190000
	15:15	1	)AV		A.	SAC	N RECE	IVED BY	-4//		VALENINI A	DATE	TIME
RELEASED BY	Auly	1	9/J	5/9/5	TIME	10:3/		IVED BY		4 <i>H</i>	· Valenteiir	DATE PATE	9 (0:3/
				·			<b>P</b>		$\perp$			•	TIME
RELEASED BY			DATE		TIME		RECE	IVED BY				DATE	LIME
SHIPPED VIA			DATES	ENT	TIME SENT	COOLER	l #						<u> </u>



### **TPH Gasoline in Water**

Lab#	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
2364	T1&T2-H <sub>2</sub> O	TPH/Gasoline	41,000	5,000
	-	MTBE	ND	200
		Benzene	1,400	40
		Toluene	5,400	40
		Ethyl Benzene	1,000	40
		Xylenes	4,000	120

A floating product was evident. Water from below the floating product layer was analyzed.

	alyzed: 09/22/98 Method: EPA 5030/8015M/8020	QC Batch #: 546
Holding Time Met: Yes _ No		

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
2365	T3-H <sub>2</sub> O	TPH/Gasoline	35,000	10,000
		MTBE	ND	400
		Benzene	1,400	80
		Toluene	440	80
		Ethyl Benzene	1,600	80
		Xylenes	6,500	240

A floating product was evident. Water from below the floating product layer was analyzed.

Date Sampled: 09/09/98 Date Received: 09/09/98	Date Analyzed: Method:	09/22/98 EPA 5030/8015M/8020	QC Batch #:	546
Holding Time Met: Yes	No			



Lab#	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
2367	T5,6-H <sub>2</sub> O	TPH/Gasoline	78,000	10,000
	,	MTBE	ND	400
		Benzene	1,500	80
		Toluene	8,400	80
		Ethyl Benzene	1,900	80
		Xylenes	14,000	240

A floating product was evident. Water from below the floating product layer was analyzed.

Date Sampled: 09/09/98	Date Analyzed:		QC Batch #:	546
Date Received: 09/09/98	Method:	EPA 5030/8015M/8020		
Holding Time Met: Yes	No			

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
2368	T7,8-H₂O	TPH/Gasoline	30,000	10,000
	,	MTBE	ND	400
		Benzene	700	80
		Toluene	4,100	80
		Ethyl Benzene	760	80
•		Xylenes	6,000	240

A floating product was evident. Water from below the floating product layer was analyzed.

Date Sampled: 09/09/98  Date Received: 09/09/98	Date Analyzed: Method:	09/22/98 EPA 5030/8015M/8020	QC Batch #: 546	-
Holding Time Met: Yes	No			1



### **TPH Diesel in Water**

<u>Lab #</u>	Sample ID	Analy	<del></del>	Result (ug/L)	RDL (ug/L)
2364	T1&T2-H <sub>2</sub> O	TPH/Dies		300,000	10,000
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 let: Yes ✓ No	Date Extracted: Date Analyzed: o	09/22/98 09/22/98	QC Batch #: Method:	545 EPA 3510/8015M

Lab # 2365	Sample ID T3-H <sub>2</sub> O	Analys TPH/Diese		Result (ug/L) 52,000	RDL (ug/L) 2,500
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 et: Yes		09/22/98 09/22/98	QC Batch #. Method:	545 EPA 3510/8015M

Lab #         Sample ID           2367         T5,6-H <sub>2</sub> O		Analysis TPH/Diesel		Result (ug/L) 67,000	RDL (ug/L) 2,500	
Date Sampled: Date Received: Holding Time Mo	09/09/98 09/09/98 et: Yes /	Date Extracted: Date Analyzed:	09/22/98 09/22/98	QC Batch #: Method:	545 EPA 3510/8015M	

2368 Sample ID T7,8-H <sub>2</sub> C		Analysis TPH/Diesel		Result (ug/L) 1,600,000	RDL (ug/L) 50,000	
Date Sampled: Date Received: Holding Time Me	09/09/98 09/09/98 et: Yes	Date Extracted: Date Analyzed:	09/22/98 09/22/98	QC Batch #: Method:	545 EPA 3510/8015M	



### **TPH Stoddard Solvent in Water**

<u>Lab #</u>	Sample ID	Analy		Result (ug/L)	RDL (ug/L)
2366	T4-H₂O	Stoddard		490,000	10,000
Date Sampled: Date Received: Holding Time M	09/09/98 09/09/98 let: Yes	Date Extracted: Date Analyzed: No	09/22/98 09/22/98	QC Batch #: Method:	545 EPA 3510/8015M

### **BTEX** in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
2366	T4-H <sub>2</sub> O	Benzene	34	10
		Toluene	32	10
		Ethyl Benzene	170	10
		Xylenes	660	30

A floating product was evident. Water from below the floating product layer was analyzed.

Date Sampled: 09/09/98 Date Received: 09/09/98	*****	09/22/98 EPA 5030/8015M/8020	QC Batch #:	546
Holding Time Met: Yes	No			



### **Total Lead in Water**

	Lab#	Sample ID	Analy	sis	Result (mg/L)	RDL (mg/L)
	2364	T1&T2-H₂O	Lead (Pb)		ND	0.50
-	Date Sampled:	09/09/98	Date Digested: Date Analyzed:	09/10/98 09/11/98	QCI	Batch #:535
	Method:	EPA 3050/7420			<del></del>	

Lab # 2365	Sample ID T3-H₂O	Analy Lead (Pb)		Result (mg/L) ND	RDL (mg/L) 0.50
Date Sampled:	09/09/98	Date Digested: Date Analyzed:	09/10/98	QC B	atch #: 535
Method:	EPA 3050/7420	······································			

Lab # 2367	Sample ID T5,6-H <sub>2</sub> O	Lead (Pb)		Result (mg/L) ND	RDL (mg/L) 0.50
Date Sampled: Date Received: Method:	09/09/98 09/09/98 EPA 3050/7420	Date Digested: Date Analyzed:	09/10/98 09/11/98	QC B	atch #: 535

<u>Lab #</u> 2368	Sample ID T7,8-H <sub>2</sub> O	Lead (Pb)	sis	Result (mg/L) ND	RDL (mg/L) 0.50
Date Sampled: Date Received: Method:	09/09/98 09/09/98 EPA 3050/7420	Date Digested: Date Analyzed:	09/10/98 09/11/98	QC	Batch #: 535



# LABORATORY QUALITY ASSURANCE REPORT

QC Batch #: 547

Lab Project #: 8090906

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
2362	CMS	TPH/Gas	(***37***	NS	
	CMS	Benzene	0.0370	0.0385	96.1
	CMS	Toluene	0.0337	0.0385	87.5
	CMS	Ethyl Benzene	0.0356	0.0385	92.5
	CMS	Xylenes	0.1170	0.1150	102

Sample #	Sample !D	Compound	Result (mg/kg)	Spike Level	% 	RPD
2362	CMSD CMSD CMSD CMSD CMSD	TPH/Gas Benzene Toluene Ethyl Benzene Xylenes	0.0343 0.0321 0.0340 0.1100	NS 0.0385 0.0385 0.0385 0.1150	89.1 83.4 88.3 95.7	7.6 4.9 4.6 6.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range



Lab Project #: 8090906

Sample		Result
ID	Compound	(mg/kg)
MB	TPH/Diesel	ND

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range



Lab Project #: 8090906

Sample		Result
ID	Compound	(mg/kg)
MB	Lead (Pb)	ND

	Sample		Result	Spike	%	
Sample #	ID	Compound	(mg/kg)	Level	Recv.	RPD
2329	CMSD	Lead (Pb)	91	90.9	93.1	2.2

Sample 2329 metal levels (mg/kg): Pb - 6.4

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate NS = Not Spiked; OR = Over Calibration Range



**Lab Project #:** 8090906

Sample		Result
ID	Compound	(ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample		Result	Spike	%
ID	Compound	(ug/L)	Level	Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	7.34	8.00	91.8
LCS	Toluene	7.09	8.00	88.6
LCS	Ethyl Benzene	7.42	8.00	92.8
LCS	Xylenes	22.9	24.0	95.4

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas	-	NS		
LCSD	Benzene	7.02	8.00	88.4	4.5
LCSD	Toluene	6.84	8.00	85.5	3.6
LCSD	Ethyl Benzene	7.20	8.00	90.0	3.0
LCSD	Xylenes	21.8	24.0	90.8	4.9

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range



QC Batch #: \_545\_\_\_\_\_

Lab Project #: 8090906

6.3

95.6

Sample ID MB	Compound_ TPH/Diesel	Result (ug/L) ND			
Sample ID LCS	Compound TPH/Diesel	Result (ug/L) 2,630	Spike Level 2,930	% Recv. 89.8	
Sample ID	Compound	Result (ua/L)	Spike Level	% Recv.	RPD

2,800

2,930

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate NS = Not Spiked; OR = Over Calibration Range

TPH/Diesel



Lab Project #: 8090906

Sample		Result
ID	Compound	(mg/L)
MB	Lead (Pb)	ND

	Sample		Result	Spike	%	
Sample #	ID	Compound	(mg/L)	Level	Recv.	RPD
2365	CMSD	Lead (Pb)	0.90	1.00	90	0.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate NS = Not Spiked; OR = Over Calibration Range

4	<i></i>
E	<b>B5</b>

### **ENVIRONMENTAL BIO-SYSTEMS, INC.**

Innovative Solutions for a Better Environment (408) 979-8600

**CHAIN OF CUSTODY** 

Larg pros # 8090906

P.O. Box 71							ANAL	YSIS				ALL CAN	IDI EE	TO DE AN	ALYZED USI	NC
	95150-7171						•					METHOD	S AND	DETECTION	N LIMITS	NG
PROJECT NUMBER HOLE	(AND E	STATE			IN HATE	 بز						I	STATE		NESOURCES	_
150-50	14/3	A.	2		1	17	<b>)</b>							·		
SITE 16301	E. 14	14			13	+BTEX	ਰੀ					M3TAGCTI	ONS.			
SAN LE	ANDRO,	CA		-	£	N N	1 ,									_
	/				46	Z S	OTA									page 10/2
			COMPOSITE	1	E	15	-									
SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	8										TURNAR	OUND	SAMPLE CONDITION	LAB SAMPLE#
T1-10'	5016	)		<u> </u>	$\geq$			•				517	920	HPP)		2355
TZ-1-10'		1	,	<u> </u>			×	1					1			2356
JZ-2-10'		1			*		$\times$	7								2357
T3-1-10		1			><		$\searrow$						}			2358
T3-Z-10'		1		×	<b>&gt;</b> <		$\times$						-1			2359
T4-1-101						>	\$									2360
T4-2-10)		1				$\times$	<u> </u>									2361
75,6-1-10		1		X	$\geq$		$\times$	7								2362
T5,6-2-10'	7			×	$\swarrow$		×						V	<u> </u>		2363
	0 /												, , , , ,			
SAMPLING COMPLETED OF A SAMPLING	TIME SAM	CORMED BY	ANE		A.		104°			Arml	yhy	i/Science	ės	MARK	ALENTIN	ý.
RELIASED BY	Sulf		DATE	ĵ\$	TIME 15	W		RECEIVE	//w	hA	lac	leutun			DAJE / 9/92	TIME 15:20
RELEASED BY			DATE		TIME			RECEIVE	DBY						TUA <b>J</b> E P	TIME
RELEASED BY			DATE		TIME		<u> </u>	RECEIVE	D BY						DATE	TIME
SHIPPED VIA			DATE SE	NT	TIME SEN	IT	COOLER	#								

EDE P	NVIRONMENTA novative Solutions 1 08) 979-8600 O. Box 7171 an Jose, CA 95150-	for a Better I	TEMS, INC.			+MBE 0	15.1	ANALY	CUSTODY	,	ALL S METH ESTAR	AMPLES TO BE DOS AND DETE BLISHED BY RE E STATE WATE ROL BOARD.	ANALYZ	ED USI	NG
SITE 163 SAN	CAND E COI E, LEAND		ST/ A NUMBER OF CONTAINERS	COMPOSITE	TPHQ	TPH9+BIBS	TP4S + BTE	70TR- Pb			INSTRU		SAM	IPLE DITION	P27
SAMPLE I.D.		YETE 1Z	CONTAINERS	+				$\triangleleft$	-		47	TURNAROUND	COND	HTION	LABS
171172.		nierz-	<u> </u>	+			-		<b>-</b>		/د_	ANDARI 1	<del>-   -</del>	$\dashv$	<u>.</u>
13-11	- Ó		$\frac{\mathcal{A}}{\mathcal{U}}$	+-1							<del>                                     </del>	-		$\dashv$	0
75/2	11-1		<u>il</u>	+		$\sim$						+		+	
12/00	11 0	$\nearrow$	4	+			,	$\Rightarrow$			1			+	
7/18-1	70 Y				~							Wr		$\dashv$	
				+							<u> </u>		.	-	
								$\dashv$						-	
				+	<u> </u>										
	<del></del>			4			L								

RECEIVED B

RECEIVED BY

RECEIVED BY

COOLER #

SAMPLING COMPLE ED

RELEASED E

RELEASED BY

RELEASED BY

SHIPPED VIA

SAM LING PERFORMED BY

DATE

DATESENT

TIME

TIME SENT

LAB SAMPLE#

2364

236/5 2367 2368

TIME 15-3.

TIME

TIME

Analytical Sciences MARK VALENTINI

DATE

9 December 1998

### Estate of Jack M. Holland Sr.

Site Mitigation Report 16301 E. 14th St. San Leandro, California Appendix F

# APPENDIX F PERMITS

(Revised 8/97)

### ALAMEDA COUNTY FIRE DEPARTMENT

# FIRE CODE REGULATED ACTIVITIES Application and Permit

[ ] City of San Leandro [ ] City of Dublin [/] Unincorporated Alamed.
TYPE OF PERMIT: UST REMOVAL - 8 TONES
APPLICATION DATE: $9/1/98$ ACTIVITY DATE(S): $9/3/98 - 9/11/98$
LOCATION WHERE ACTIVITY TO BE CONDUCTED: 16301 E. 14TH ST., SAN LEANDEL
NAME OF ORGANIZATION OR INDIVIDUAL MAKING APPLICATION:
NAME: ENVIRONMENTAL BIO-SYSTEMS PHONE: (510)317-1455 CONTACT PERSON: DAVE SADGE
ADDRESS: P.O. BOX 7171 CITY: SAN JOSE, CA ZIP: 95150-717
CONTRACTOR INFORMATION (IF REQUIRED) - ATTACH COPY OF WORKERS COMP AND BUSINESS LICENSE
COMPANY NAME: ENVIRONMENTAL BIO-SYSTEMS, WC. PHONE: (510) 317-1455  ADDRESS: P.O. BOX 7171 CITY: SAN DSE, CA.
ADDRESS: P.O. BOX 7171 CITY: SAN JOSE, CA.
LICENSE #: A-HAZ 687236 CONTACT PERSON: DAVE SAFOFF
DESCRIPTION OF ACTIVITY TO BE PERFORMED: - ATTACH COPIES OF REQUIRED LISTINGS, CERTIFICATES, ETC. TO FULLY ENPLAIN PROJECT. INSUFFICIENT INFORMATION OR DETAIL MAY DELAY APPROVAL OF PERMIT.
EXCAMPION, REMOVED OF USTER
ALL PERMITS ISSUED BY THE FIRE DEPARTMENT SHALL BE PRESUMED TO CONTAIN THE PROVISO THAT THE APPLICANT, HIS AGENTS AND EMPLOYEES SHALL CARRY OUT THE PROPOSED ACTIVITY IN COMPLIANCE WITH ALL THE REQUIREMNTS OF THE FIRE CODE AND ANY OTHER LAWS OR REGULATIONS APPLICABLE THERETO, WHETHER SPECIFIED OR NOT, AND IN COMPLETE ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THIS PERMIT SHALL NOT BE CONSTRUED AS AUTHORITY TO CANCEL, VIOLATE OR SET ASIDE ANY PROVISIONS OF THE FIRE CODE AND SHALL NOT TAKE THE PLACE OF ANY LICENSE REQUIRED BY LAW. PERMITS ARE NOT TRANSFERABLE AND ANY CHANGE IN USE, OCCUPANCY, OR OPERATION OR OWNERSHIP SHALL REQUIRED A NEW PERMIT. PERMITS MAY BE SUSPENDED OR REVOKED FOR CAUSE AT ANY TIME.  I HEREBY AFFIRM ALL INFORMATION PROVIDED AS A PART OF THIS PERMIT APPLICATION IS TRUE AND CORRECT  SIGNITURE OF APPLICANT  DATE  SPECIAL PERMIT REQUIRMENTS MAY BE LISTED ON THE REVERSE SIDE.
COMPLIANCE WITH THESE REQUIREMENTS IS A CONDITION OF THIS PERMIT.
APPROVAL DATE: Rejection Date: Reviewed By:
EXPIRATION DATE: Permit Fees Due: 360 Date Paid:
SIGNATURE OF INSPECTOR: (PERMIT NOT VALID WITHOUT APPROVED SIGNATURE)  DATE: 9 / 9

# ALAMEDA COUNTY FIRE DEPARTMENT

# FIRE CODE REGULATED ACTIVITIES

Application and Permit

[ ] City of San Leandro [ ] City of Dublin [ / Unincorporated Alameda County
TYPE OF PERMIT: AST REMOVE TO TANKS
APPLICATION DATE: 9/1/98 ACTIVITY DATE(S): 9/3/68-9/1/98
LOCATION WHERE ACTIVITY TO BE CONDUCTED: 16301 E. 14th ST., SAN LEANDRO
NAME OF ORGANIZATION OR INDIVIDUAL MAKING APPLICATION:
NAME: ENVIRONMENTAL BU-SYSTEMPHONE: (50)317-1455 CONTACT PERSON: DAVE SADOF
ADDRESS: P.O. BOX 7171 CITY: SAN JOSE, CA ZIP: 95150
CONTRACTOR INFORMATION (IF REQUIRED) - ATTACH COPY OF WORKERS COMP AND BUSINESS LICENSE
COMPANY NAME: FNVIRGNMENTAL BIB-SYSTEMY, INC. PHONE: (576) 317-145T
ADDRESS: P.O. BOX 7171 CITY: SAN JOSE, CA
LICENSE #: A-HAZ 687236 CONTACT PERSON: DAVE SADOFF
DESCRIPTION OF ACTIVITY TO BE PERFORMED: - ATTACH COPIES OF REQUIRED LISTINGS, CERTIFICATES, ETC. TO FULLY EXPLAIN PROJECT. INSUFFICIENT INFORMATION OR DETAIL MAY DELAY APPROVAL OF PERMIT.
CULD-CUTTING, PREMOVAL OF ASIS
ALL PERMITS ISSUED BY THE FIRE DEPARTMENT SHALL BE PRESUMED TO CONTAIN THE PROVISO THAT THE APPLICANT, HIS AGENTS AND EMPLOYEES SHALL CARRY OUT THE PROPOSED ACTIVITY IN COMPLIANCE WITH ALL THE REQUIREMNTS OF THE FIRE CODE AND ANY OTHER LAWS OR REGULATIONS APPLICABLE THERETO, WHETHER SPECIFIED OR NOT, AND IN COMPLETE ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THIS PERMIT SHALL NOT BE CONSTRUED AS AUTHORITY TO CANCEL, VIOLATE OR SET ASIDE ANY PROVISIONS OF THE FIRE CODE AND SHALL NOT TAKE THE PLACE OF ANY LICENSE REQUIRED BY LAW. PERMITS ARE NOT TRANSFERABLE AND ANY CHANGE IN USE, OCCUPANCY, OR OPERATION OR OWNERSHIP SHALL REQUIRE A NEW PERMIT. PERMITS MAY BE SUSPENDED OR REVOKED FOR CAUSE AT ANY TIME.  I HEREBY AFFIRM ALL INFORMATION PROVIDED AS A PART OF THIS PERMIT APPLICATION IS TRUE AND CORRECT  SIGNITURE OF APPLICANT  DATE
SPECIAL PERMIT REQUIRMENTS MAY BE LISTED ON THE REVERSE SIDE.  COMPLIANCE WITH THESE REQUIREMENTS IS A CONDITION OF THIS PERMIT.
APPROVAL DATE: Rejection Date: Reviewed By:
EXPIRATION DATE: Permit Fees Due: 840 Date Paid:
SIGNATURE OF INSPECTOR: (PERMIT NOT VALID WITHOUT APPROVED SIGNATURE)  DATE: 9, 98
. ALTROVED SIGNATURE)

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

The state of the s

UNDERGROUND TANK CLOSURE PLAN

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

	JACK HOLLAND SR OK CO, ZNC (SUSDENDED)
1.	Name of Business Estate of Jack Holland, Sr.
	Business Owner or Contact Person (PRINT) ANN MARIE HULLAND TIERS.
2.	Site Address 16301 E 14th ST. Executor
	City SAN LEANDRU, LA Zip 94578 Phone
3.	Mailing Address SAME
	City
4.	Property Owner Estate of Jack Holland, Sr., BARBARA HOLLANI
	Business Name (if applicable)
	Address 16301 E. 14th ST. (same address for both owners)
	City, State San Leundro, CA zip 94578
5.	Generator name under which tank will be manifested
	Estate of Jack Holland, Sr. AND/OR BARBARA HOLLAND
	EPA ID# under which tank will be manifested C A 6001085240

6.	Contractor ZACCOR COMPANIES, INC.
	Address 2900 MAIN ST.
	City ALMEDA, (A 9450) Phone (510) 522-6210
	License Type A, HAZ ID# 589237
7.	Consultant (if applicable) ENVIRONMENTAL BIO-SYSTEMS, INZ.
	Address P.O. Box 7171
	City, State SAN JOSE, LA 95150-7171 Phone (408) 979-8600
8.	Main Contact Person for Investigation (if applicable)
	Name DAVE A. SAPOFF Title MATEUT MUR., R.G., C.P. C.
	Company ENVIRUNMENTAL BIO-SYSTEMS, INC.
	Phone (510)317-1455
9.	Number of underground tanks being closed with this plan $\underline{\mathscr{S}}$
	Length of piping being removed under this plan APPLY, 150 FEET
	Total number of underground tanks at this facility (**confirmed with owner or operator) $\underline{\mathcal{S}}$
10.	State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground storage tanks must be handled as hazardous waste **
	a) Product/Residual Sludge/Rinsate Transporter
	Name EVERGREEN ENVIRONMENTAL EPA I.D. NO. CAD 982-413 762
	Hauler License No. 0242 License Exp. Date 7/99
	Address 6880 SMITH AVENUE
	City NEWARK State CA Zip 94560
	h) Droduct (Domidue) Glader (Diverse Diverse) Gite
	b) Product/Residual Sludge/Rinsate Disposal Site  Name <u>EVERGEN EWINGMENTE</u> EPA ID# <u>CAD 980 887 418</u>
	Address 6880 SMITH AVENUE
	City NEWARK State CA Zip 94560
	State

	c) Tank and Piping Transporter
	Name Eculogy Control Industrie EPA I.D. No. CAD 982030173
	Hauler License No. 1533 License Exp. Date 7/31/99
	Address 255 Part Blvd.
	city Bichmond state (A Zip 9480)
	d) Tank and Piping Disposal Site
	Name Foliogy (cutral Industries EPA I.D. No. CARDO9466392)
	Address 255 Pan Blvd.
	city Richard State (A Zip 9480)
11.	Sample Collector
	Name DAVE SADOFF
	Company ENVIRONMENTAL BIO-SYSTEMS, NC.
	Address P.O. Box 7/7/
	City SAN JUSE State CA Zip 95/50 Phone (5/0)3/7-145
12.	Laboratory
	Name _ AVALYTICAL SCIENCES
	Address P.O. Box 750336
	City PETALUMA State CA Zip 94975-0336
	State Certification No. <u>ELAP# 2118</u>
13.	No. of the control of
	If yes, describe.
14.	Describe methods to be used for rendering tank(s) inert:
	DRY ICE PER FIRE DEPT. REQUIREMENTS
Al	(SEE: July 15, 1998 "Hazard Alert" from Cal OSHA
. 17	regarding power or pressure washing
	· · · · · · · · · · · · · · · · · · ·

rev. 11/01/96 ust closure plan Before tanks are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.

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

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

Capacity incl	Use History ude date last l (estimated)	Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
10,000 6AS 1960 10,000 6AS 1960 5,000 KERUS. 1960 5,000 KERUS. 196 5,000 DIES. 196 6,000 DIES. 196	1-1985 0-1985 0-1985 0-1985 60-1985 60-1985	SOIL, 22' INTO NATIVE	BOTH ENDS MIDDLE

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

### Excavated/Stockpiled Soil

Stockpiled Soil Volume (estimated)
50 YARDS (GAS VSTS)
20 YARDS (DIESEL)
20 YARDS (KERUSENE)
10 YARDS (STOODARD)

Sampling Plan
4-POINT COMPOSITE
4-POINT COMPOSITE
4-POINT COMPOSITE
4-POINT COMPOSITE

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 <u>prior</u> approval from this office. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling activities.

16. Chemical methods and associated detection limits to be used for analyzing samples:

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

rev. 11/01/96 ust closure plan 17. Submit Site Health and Safety Plan (See Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
LASOLINE BREX, MTBE DIESEL KERESENE STODDARD Total Pb	5030 5030 3550 3550 3550	8015 (M) 8020 (MTBE LENGIAM 8016 8015 (M) 8015 (M) AA or ICAP	1.0 mg/kg  D. 0.005 mg/kg  D. 0 mg/kg  D. 0 mg/kg  D. 0 mg/kg
		·	

- 18. Submit Worker's Compensation Certificate copy

  Name of Insurer State Compensation Typicare Fond
- 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 (ULR) form.
- 22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.
- 23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one-B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

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

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

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

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

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

### CONTRACTOR INFORMATION

Name of Business ENIRONMENTAL BIO-SYSTEMS, INC.
Name of Individual DAVE A., SARVFF
Signature Nu A. Sauf Date 8/11/98
ROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)
Name of Business Estate of Juck Helland, Sr. & BANBARA
Name of Individual CO - TENANTS OWNERSHIP
Signature Chron M. Halland Leis Date 8/17/98
EXECUTARY ESTATE OF TACK HOLLAND SI
1/01/96

#### INSTRUCTIONS

### General Instructions

- \* Three (3) copies of this plan plus attachments and a deposit must be submitted to this Department.
- \* Any cutting into tanks requires local fire department approval.
- \* One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- \* State of California Permit Application Forms A and B are to be submitted to this office. One Form A per site, one Form B for each removed tank.

### Line Item Specific Instructions

2. <u>SITE ADDRESS</u>

Address at which closure is taking place.

- 5. <u>EPA I.D. NO. under which the tanks will be manifested</u>
  EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781.
- 6. CONTRACTOR

Prime contractor for the project.

- 10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
  - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
  - c) Tanks must be hauled as hazardous waste.
  - d) This is the place where tanks will be taken for cleaning.
- 15. TANK HISTORY AND SAMPLING INFORMATION

Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

16. CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS See attached Table 2.

### 17. SITE HEALTH AND SAFETY PLAN

A <u>site specific</u> Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) <u>For each hazard</u>, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- k) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- 1) A page for employees to sign acknowledging that they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

rev. 11/01/96 ust closure plan NOTE: These requirements are <u>excerpts</u> from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the <u>complete</u> requirements of this Rule.

### 19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tank(s) and piping in addition to the tank(s) being removed.

rev. 11/01/96 ust closure plan

TABLE #2

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANAI	YSIS	WATER AND	LYSIS
Unknown Fuel	TPH D BTX&E	GCFID(5030) GCFID(3550) 8020 or 8240 BTX&E 8260	TPH G TPH D BTX&E	GCFID(5030) GCFID(3510) 602, 624 or 8260
Leaded Gas	TOTAL LEA	BTX&E 8260	TPH G BTX&E TOTAL LEA	
	TEL EDB	DHS-LUFT DHS-AB1803	TEL EDB	DHS-LUFT DHS-AB1803
Unleaded Gas	BTX&E	'GCFID(5030) 8020 or 8240 BTX&E 8260	TPH G BTX&E	GCFID(5030) 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D BTX&E TPH AND I	GCFID(3550) 8020 or 8240 3TX&E 8260	TPH D BTX&E	GCFID(3510) 602, 624 or 8260
Fuel/Heating Oil	TPH D	GCFID(3550)	TPH D	GCFID (3510)
		8020 or 8240 BTX&E 8260	BTX&E	602, 62 <b>4</b> or 8260
Chlorinated Solvents	CL HC BTX&E CL HC AN	8010 or 8240 8020 or 8240 D BTX&E 8260	CL HC BTX&E CL HC AN	601 or 624 602 or 624 D BTX&E 8260
Non-chlorinated Solvents	TPH D BTX&E TPH AND	GCFID(3550) 8020 or 8240 BTX&E 8260	TPH D BTX&E TPH and 1	GCFID(3510) 602 or 624 BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be		GCFID(3550) BTX&E 8260	TPH G TPH D	GCFID(5030) GCFID(3510
completed and submitted)	O & G BTX&E	5520 D & F 8020 or 8240	O & G BTX&E	5520 B & F 602, 624 or
	CL HC	8010 or 8240	CL HC	8260 601 or 624
	ICAP or METHOD 8 PCB* PCP* PNA CREOSOTE	AA TO DETECT METALS 270 FOR SOIL OR WAS	S: Cd, Cr, P FER TO DETEC PCB PCP PNA CREOSOTE	T:

<sup>\*</sup> If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

### 20. DEPOSIT

A deposit, payable to "Treasurer of Alameda County" for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Bay Regional Water Quality Control Board (510/286-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

### 22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;
- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Detailed description of sampling methods; i.e. backhoe bucket, drive sampler, bailer, bottle(s), sleeves
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Documentation of the disposal of/and volume and final destination of all non-manifested contaminated soil disposed offsite.

### EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

- OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
- 2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
- 3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
- 4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
- 5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
- 6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
- 7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
- 8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.
- 9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	SOIL PPM	WATER PPB
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
0 & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE		MC	DDI	FIED	PROTOCOI	
<pre>≤ 10 ppm ≤ 5 ppm ≤ 1 ppm</pre>	(19%)	<	5	ppm	(10%) (21%) (60%)	

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- 10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- 11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

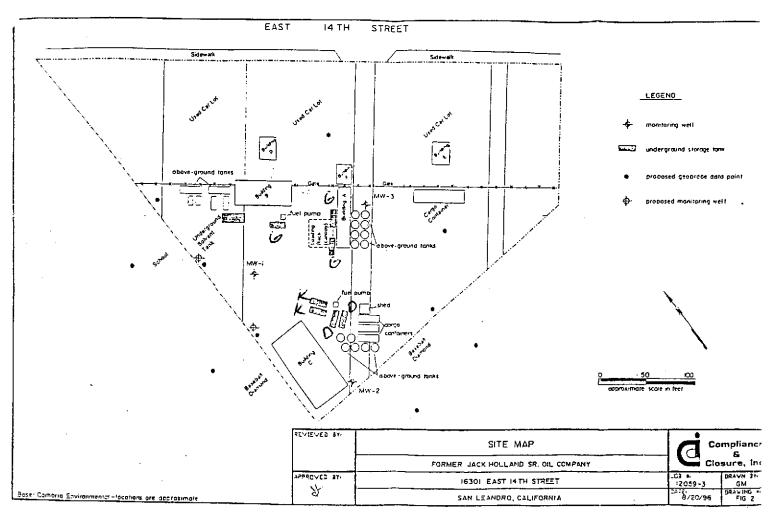
The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chroma-togram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

### EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

Closus v.



6 = 6AS K = KERUSENE D = DIESEL



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

ANT 8/24/98

# **REGULATION 8, RULE 40**

Aeration of Contaminated Soil and Removal of Underground Storage Tanks

. /	NOTIFICATION FORM
X	Removal or Replacement of Tanks
	Excavation of Contaminated Soil
<del></del>	

าเร	TE INFORMATION
SITE ADDRESS 16301 Eas	T 14th St.
city, STATE San Leand	ro, Ca zip 94577
OWNER NAME JACK + Barba Hol	land - Holland Oil
	ast 14th St
TANK REMOVAL	CONTAMINATED SOIL EXCAVATION
SCHEDULED STARTUP DATE 8-31-98	SCHEDULED STARTUP DATE
VAPORS REMOVED BY:	STOCKPILES WILL BE COVERED? YES NO
[ ] WATER WASH	ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):
1/1 vapor freeing (co <sup>2</sup> )	
[ ] VENTILATION	(MAY REQUIRE PERMIT)
CONTR	ACTOR INFORMATION
	1C. CONTACT Helen Mor Gory Z
	PHONE (5/0) 522-6210
	94501
CITY, STATE, ZIP	
CONSU	ILTANT INFORMATION (IF APPLICABLE)
NAME EBS	CONTACT Tim Babcock
	PHONE (408) 979-8600
	5150 - 7171
FOR OFFICE USE ONLY	
DATE RECEIVED FAX	BY
	(init.)
DATE POSTMARKED	BY(init.)
CC: INSPECTOR NO.	DATEBY
UPDATE: CONTACT NAME	(init.)
BAAQMD N #	DATA ENTRY(init.)



# **BAY AREA AIR QUALITY** MANAGEMENT DISTRICT

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

J# 28748

Date: Oct 1, 1998

ID number: 7761

TO:

Zaccor Corp. 2900 Main Street Alameda, CA 94501

ATTN:

Asbestos Demolition & Renovation Notification:

J# 28748

Site Owner - Jack & Barbara Holland Job Site - 16301 E 14th Street San Leandro, CA 94577 same address

Start/End Dates - Aug 31, 1998 to Sep 14, 1998 Reference Number - 16301 E 14th

\*\*\*\* A C K N O W L E D G E M E N T \*\*\*\*

>>>>> THIS IS NOT A BILL < 

This is to acknowledge full receipt of the asbestos operation fee required by the District's Regulation 3.

Invoice# 15388, paid \$150.00, CH# 16898



J# 28748

AUG 15, 1998

Zaccor Corp. 2900 Main Street Alameda, CA 94501

#### **ACKNOWLEDGEMENT**

Bay Area Air Quality Management Dis Renovation Plan described as:	trict acknowledges receipt of your Asbestos Demolition/ Demolition
site address	16301 E 14th Street San Leandro, CA 94577
start date	Aug 31, 1998
completion date	Sep 14, 1998
removal amounts 0	linear ft. 0 square ft. friable acm

Should it become necessary to revise this plan, please do so in the spaces provided below and immediately send a copy to the District by fax or by mail. Do not revise notifications which are exempt or for which you have not yet received acknowledgement.

ASBESTOS NOTIFICATION REVISION BAAGMD J#				28748
revision #	start date	completion date	removal amounts	
1	//	_/_/_	lin. ft	sq. ft.
2	_/_/_		lin. ft.	sq. ft.
3	_/_/_	_/_/_	lin. ft	sq. ft.
4	_/_/_	_/_/_	lin. ft	sq. ft.
5	//	//	lin. ft,	sa. ft.

NOTE: This form is not intended as a verification of either the completeness of your original notification or of its compliance with District Regulation 11-2.

16301 E. 14th St. San Leandro, California

APPENDIX G ASBESTOS SURVEY



Tim Babcock Environmental Bio-Systems, Inc. P.O. Box 7171 San Jose, CA 95150-7171

August 13, 1998

### RE: ASBESTOS SURVEY #8092

On August 12, 1998, HMA was asked to provide an inspection and report on present and/or potential asbestos hazards relative to asbestos containing building materials (ACBM) of client selected segments of a project site located at 16301 East 14th Street, San Leandro, California.

### PROTOCOL:

It was reported that selected portions of designated structures have been scheduled for demolition. Therefore, the survey was conducted in conformance with the Bay Area Air Quality Management District's Regulation 11, Rule 2, Section 303.8. The survey was conducted by an asbestos consultant who has been certified by the State of California's Division of Occupational Safety and Health, and accredited under the EPA AHERA program for building inspection and management planning for asbestos. PLM laboratory analysis was conducted by an independent NVLAP accredited facility.

#### **INSPECTION and SAMPLES:**

The site at the listed address consists of at least four (4) buildings, three of which were identified on the exterior with the listed address numbers. One building (south) was a multi-component wood frame structure housing an auto repair facility; the north building was similar to a multiple component wood frame single family residence; the east building was a metal warehouse building; and the fourth building was a small, 8 foot by 10 foot wood frame building between tanks T-6 and T-8. Additionally there was a fuel loading platform with overhead canopy; at least 21 above ground storage tanks; mobile tanks and/or tanker trucks; and one or more mobile residential facilities.

The fuel loading canopy, the small 8 foot by 10 foot fourth building, and the western end of the first (or South) building were the only structures identified as subject to potential demolition. All other building structures and/or portable structures are excluded from this © 1998 HMA 8092 page 1

survey.

NOTE: There was an abundance of other materials and items on this site which are outside the general category of *building materials* in use as such in the identified structures, ranging from cement bags to automobile parts. Items not in use as building material components in the identified structures are not included in this survey.

### **Building One:**

Building One (1) was a wood frame structure built in several stages or components. The western end roofing was a composite panel material which also extended to the southern siding of the western end. Results of laboratory analysis were reported as no asbestos detected. The eastern end, north side roofing was a green composite panel. Analysis found no asbestos detected. The eastern end, south side siding was a black composite panel (with some green paint overlay). Analysis identified no asbestos detected.

Only the western half of this building was accessible for inspection. The interior wall (see diagram for sample 8092-09) was covered with approximately 5 square feet of gray moisture barrier paper. Laboratory findings were no asbestos detected.

No hot water heater was identified.

No piping insulation was identified.

No heating system was present.

No windows (window grout) was present.

Flooring was concrete/dirt.

# **Building Four:**

The small 8 foot by 10 foot building was wood frame with wood siding and composition shingle roof. Results of analysis of the roofing were reported as no asbestos detected.

Interior was wood with a small amount of remaining wood panel. Flooring was rotted wood.

No other suspect materials were identified.

#### Fuel dock:

The fuel dock was a wood platform, with an overhead canopy of corrugated metal. Old fueling hoses were abraded, with fibrous cores exposed. Sample analysis found no asbestos detected.

No piping insulation was present.

No other suspect building materials were identified.

#### Tanks:

21 above ground storage tanks were located on the site (exclusive of portable tanks and/or small tanks of less than 500 gallon capacity). Tank T-6 was insulated with a black tar substance with fibrous binder component. Sample analysis found no asbestos detected.

Tanks T-1 and T-2 each had a tar-based coating on the exposed eastern side. Analysis indicated no asbestos detected on either tank.

No other structures or portions of structures were reported to be subject to demolition, therefore were not included in the survey.

### **SUMMARY**

Samples were collected of the suspect materials and none were found to contain greater than 1% asbestos.

Further, no materials sampled were found with asbestos content greater than 0.1%.

If there is additional information needed or if we can be of further assistance please feel free to contact us.

Sincerely,

Scott W. Compton

President

Certified Asbestos Consultant 92-0018

<sup>\*</sup> The inspection and inspection report is for the sole use and benefit of Client and is not intended for use by anyone but Client. Under no circumstances shall the inspection or report be for the benefit of any third party.

Note: Only those materials with greater than 1% asbestos content are considered to be asbestos for purposes of EPA and BAAQMD regulations for demolition, renovation and disposal. CAL-OSHA, however, has issued an interpretive letter indicating that they will require those materials with greater than 0.1% asbestos content to be removed by a Cal-OSHA registered abatement contractor, even though Class I, II, III or IV asbestos abatement procedures are not required.



Tim Babcock Environmental Bio-Systems, Inc. P.O. Box 7171 San Jose, CA 95150-7171

August 13, 1998

## RE: ASBESTOS SURVEY #8092

On August 12, 1998, HMA collected bulk samples of material and was asked to obtain laboratory analysis for possible asbestos content.

Analysis was performed by an independent NVLAP accredited laboratory and results are reported as:

Sample No.	<u>Material</u>	<u>Area</u>	% Asbestos1	<u>Type</u>
8092-01	shingle	small green building	none detected	
8092-02	coating	tank T-6	none detected	
8092-03	coating	tank T-1	none detected	
8092-04	coating	tank T-2	none detected	
8092-05	shingle	gray comp. bldg 1 west	none detected	
8092-06	fuel hose	fuel dock	none detected	
8092-07	shingle	green comp. bldg 1 NE	none detected	
8092-08	shingle	black comp. bldg 1 SE	none detected	
8092-09	tar paper	gray tarpaper, bldg 1	none detected	

If there is additional information required, or if we can be of further assistance, please feel free to contact us.

Sincerely,

Scott W. Compton

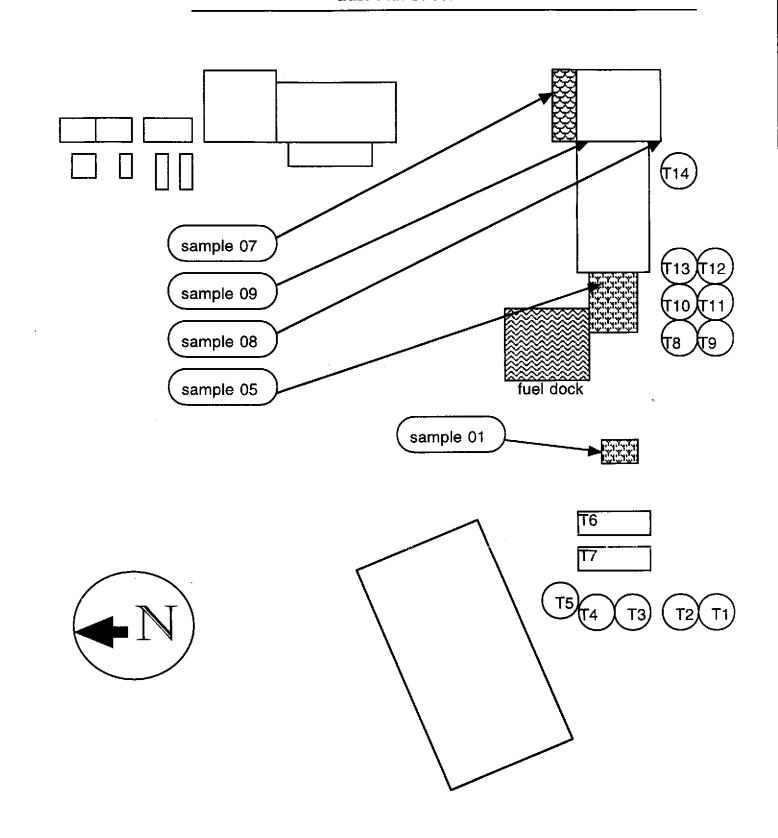
Certified Asbestos Consultant 92-0018

<sup>1</sup> Comments: Analysis employs Polarized Light Microscopy, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program at an NVLAP accredited laboratory. In cases where sample analysis finds asbestos present, but in concentrations of less than one percent (<1%), such samples are designated at "trace" amounts.

HMA Broject 800

Project 8092 Schematic, no scale

East 14th Street



Site Mitigation Report 16301 E. 14th St. San Leandro, California

# APPENDIX H ACHCSA INSPECTION REPORT

white -env.health y ellow -facility pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy Alameda CA 94502 510/567-6700

11, 111

	Site ID # 2423 Site Name Site Name Today's Date
	Site Address (630) 5. 142 54.
	City Zip 945 Phone
	MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
	<pre>Inspection Categories: I. Haz. Mat/Waste GENERATOR/TRANSPORTER</pre>
	II_ Hazar dous Materials Business Plan, Acutely Hazar dous Materials
	* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
	Comments:
	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
•	The state of the s
	the second of th
•	
•	
	the transfer of the first section with the first section of the first se
 	this is a feet of the garding the state of t
	-10 Earl Drough going Voles (2, to 3 a more more to a to a
ا د کوا	V Finds will steel -5700 gold & was 15 10 10 10 10 10
ميد. المرسيد	flore, no culture books or sixth si
• • •	
1	Single wall steel = 10,100 gass in 1145 1 1, 55 1 1, 55 1
	Troughaing lades not observed.
,	
	Contact Tange of 11, 111
	Title 555 No. WyGr I Inspector
	Signature Signature

white -env.health y ellow -facility pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy Alameda CA 94502 510/567-6700

11, 111

City Standed	Zip _ <b>94</b> 5	Phone	·		
MAX AMT stored ➤ 500 lbs, 55 gal., 200 cft.?  Inspection Categories:  I. Haz. Mat/Waste GENERATOR/TRANSPORTER  Hazar dous Materials Business Plan, Acutely Hazar dous Materials  III. Under ground Storage Tanks					
* Calif. Administration Code	e (CAC) or the Health	& Safety Code (HS	&C)		<del></del>
Comments:					
3 - Bu, 2 - 1 - 1 -		and the second		CHO CONT	7 121
			> 10 - 1 - 1 - 1 - 1	in and At-	ر. المراجع المراجع
Same of the same o	-			d 1946 of	٠. ٠٠٠
The property of the second	6	and the second s	<u>.                                    </u>		<u> </u>
R well given			1 2 to 2 2		
11 X 24 X 11 X 24		NA STATE			
	Tage of the second			<u> </u>	
215 07 5	and a			* 1	
the TH except of		g st			·
Europhic as to Kews		A Commence of the Commence of		(3)	
T4) - 2501, 16W	(75)/50	* 1, 1 = L		1 10 mm	
Arolysis (1) (1)			734 g 7	1-1375/	
(=4) - =	74.55 F E.V				<u>61 F</u>

門 = ="="

white -env.health yellow -facility pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy Alameda CA 94502 510/567-6700

II, III

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)  Comments:	Site Address E				
The state of the s					
	and Other				
	<u>- کیمی</u> ممرح				
The CAA	Ψ,				
The CAF	÷				
Den CAF					
Den C. 1. F					
Dec CAF					
Den Cd. F	·				
Dev CAF					
Dea CAF					
Dear CAF					
Deve CAF					
f(x) = f(x) and $f(x) = f(x)$	11				
Title 535 DVO WARY Inspector	II,				