

Report on

PRELIMINARY REMEDIAL INVESTIGATION
Seabreeze Yacht Center, Inc.
280 Sixth Avenue
Oakland, California

Prepared for:

Port of Oakland Oakland, California

November 1990

Prepared by:

BASELINE ENVIRONMENTAL CONSULTING 5900 Hollis Street, Suite D Emeryville, California 94608 (415) 420-8686

S9-171

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## BASELINE

#### ENVIRONMENTAL CONSULTING

30 November 1990 S9-171

Ms. Michele Heffes
Port of Oakland
Legal Department
530 Water Street, 4th Floor
Oakland, CA 94607

Subject: Preliminary Remedial Investigation at 280 Sixth Avenue, Oakland, California

Dear Michele:

Enclosed please find our report on the Preliminary Remedial Investigation for the subject site. Should you have questions or need additional information, please contact us at your convenience.

Please note that copies of this report should be submitted to Alameda County Hazardous Materials Division and the Regional Water Quality Control Board, San Francisco Bay Region.

Husa anaya
Teresa Anaya

Associate

Sincerely,

Yane Nordhav

Principal

Reg. Geologist No. 4009

YN/TA/my:S90c

Enclosure

cc: Mr. Craig Meredith, Attorney at Law, Farella, Braun & Martel

adlot

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## PRELIMINARY REMEDIAL INVESTIGATION Seabreeze Yacht Center, Inc. 280 Sixth Avenue, Oakland

#### INTRODUCTION

This report documents a preliminary remedial investigation (investigation) conducted for the Port of Oakland at Seabreeze Yacht Center, Inc. located at 280 Sixth Avenue in Oakland, California. This preliminary remedial investigation was conducted in accordance with a work plan prepared by BASELINE in September 1989. The work plan was reviewed and found acceptable by Alameda County Hazardous Materials Division (County) in November 1989; a copy of the work plan is provided in Appendix A.

The purpose of this investigation was to characterize the extent of soil contamination initially identified in soil samples collected by the County. The scope-of-work, as outlined in the September 1989 work plan (Appendix A), included: collection and analyses of soil samples; removal and disposal of hazardous waste stored in various containers on the property including drill cuttings and decontamination rinse waters; documentation of activities undertaken at the site; and recommendations for further action. This report describes site activities performed to date, evaluates analytical results of soil sampling, and provides recommendations for additional soil and groundwater investigations.

#### BACKGROUND

The Port of Oakland retained BASELINE to conduct a preliminary remedial investigation in response to a Notice of Violation issued by the County to Seabreeze Yacht Center, Inc. (Seabreeze) in October 1988 and a second Notice of Violation issued by the County to Seabreeze in May 1989. The first Notice of Violation was issued after soil samples collected by the County revealed high levels of metals in the soil. Based on the analytical results from the soil samples, the County requested Seabreeze to conduct an investigation to characterize the extent of contamination at the site. Seabreeze failed to respond to both Notices of Violation.

Seabreeze, a Port of Oakland tenant at the site from 1961 to 1989, declared bankruptcy in 1988. Because the Port of Oakland is the owner of the property, the County required the PORT to comply with the Notices of Violation in August 1989, after Seabreeze's lease had been terminated.

#### SITE DESCRIPTION

The site consists of approximately nine acres of land, located at the western terminus of Sixth Avenue, along Oakland Inner Harbor (Figure 1). A dry dock previously used for small boat repair and maintenance occupies approximately two acres. Six and one-half acres is occupied by the Clinton Basin Canal, where approximately 100 boats are berthed. A parking lot, located adjacent to Embarcadero, occupies the remaining one-half acre of the site.

#### CHARACTERIZATION OF CONTAMINATED SOILS

#### Site Safety Plan

Prior to commencement of preliminary remedial activities, a site safety plan (Appendix B) was prepared by BASELINE's health and safety officer. The site safety plan was developed specifically for the Seabreeze site based on chemical compounds previously identified by the County in the soil and in containers stored on the site. The site safety plan was reviewed by all BASELINE employees prior to on-site field activities.

#### **Permit Procurement**

Drilling activities were conducted in accordance with a Alameda County Flood Control and Water Conservation District Zone 7 permit (Appendix C). In addition, the Port of Oakland obtained a permit from the San Francisco Bay Conservation and Development Commission (BCDC) for those on-site activities within the jurisdiction of BCDC (Appendix D).

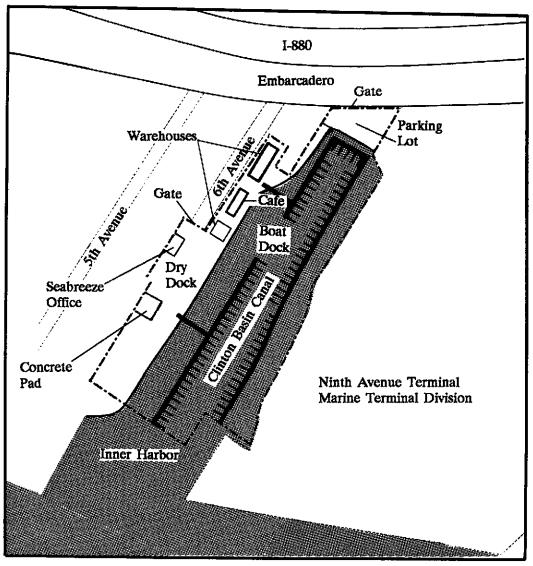
#### Methods and Procedures

The objectives of the preliminary remedial investigation were: 1) to define the lateral and vertical extent of soil contamination discovered by the County, and 2) to define the lateral and vertical extent of contaminants, which may be present elsewhere on the site. The lateral extent of soil contamination identified by the County was determined by sampling distances away from the approximate locations of the County sample sites (Figure 2). Vertical extent of contamination was determined by resampling in approximately the same locations as the County samples at specific intervals from the surface to the groundwater interface. Soil samples were collected from the dry dock area and from the parking lot (Figure 3).

Fifteen soil borings were drilled on 6 and 7 September 1990. Soil boring locations are shown in Figure 2. Thirteen borings were located in the dry dock area; the remaining two borings were completed in the parking lot.

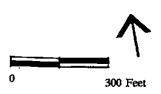
### SITE PLAN Seabreeze Yacht Center Oakland, California

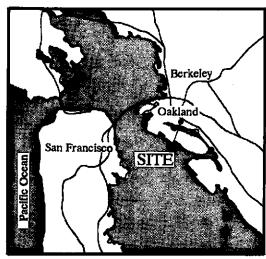
## Figure 1



#### Legend:

--- Site Boundary



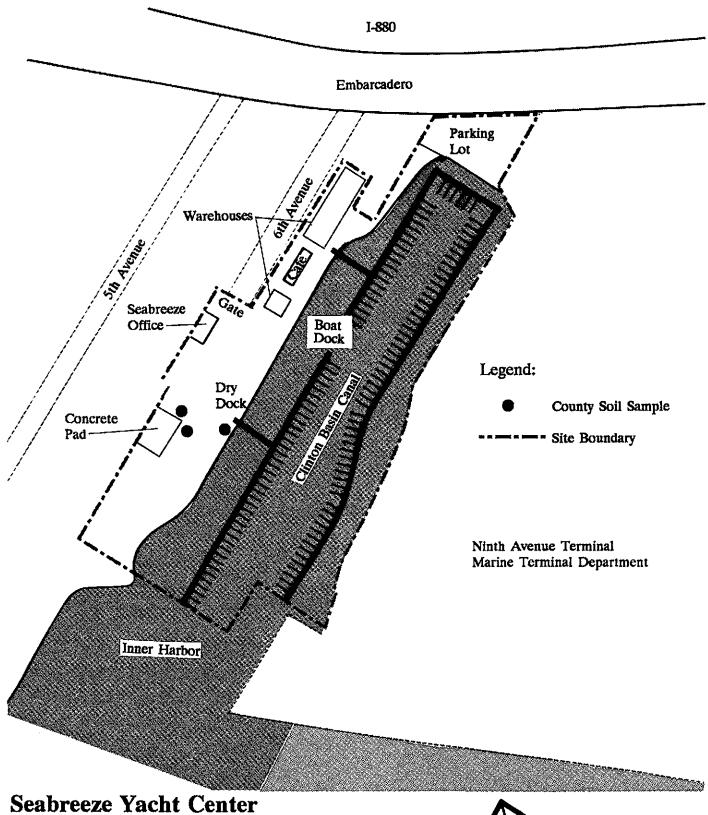


Not to Scale

BASELINE

## APPROXIMATE LOCATION OF COUNTY SOIL SAMPLES

Figure 2



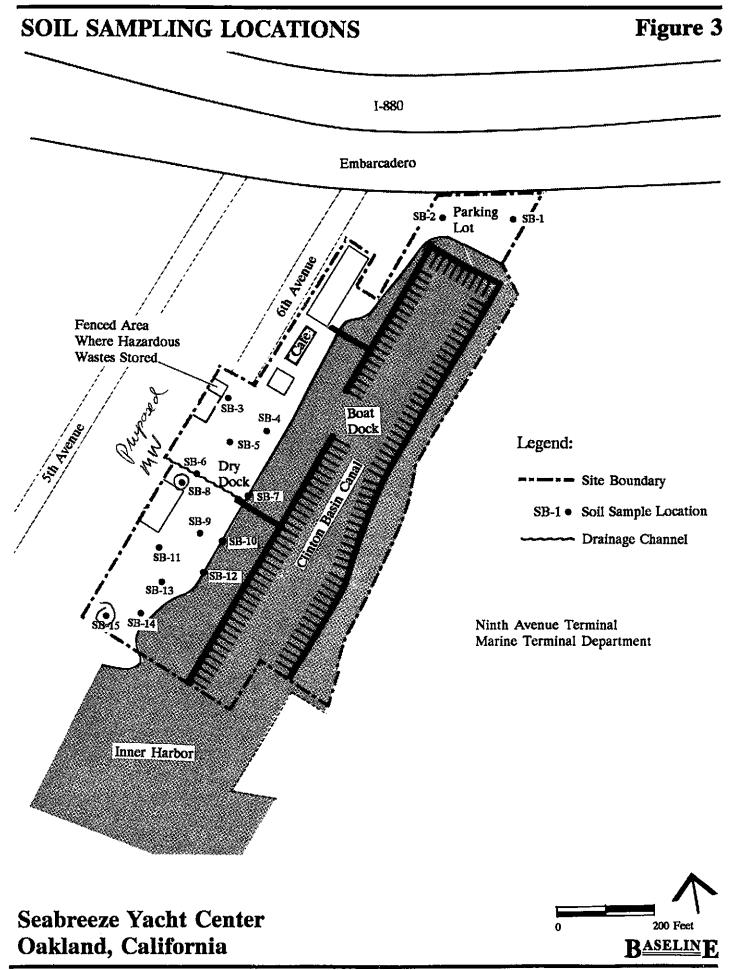
Oakland, California

Source: BASELINE Communication with Ariv Levy,

Alameda County Hazardous Materials Division 8 June 1989.



BASELINE



Soil borings were drilled by Aqua Science Engineers of San Ramon. Eight-inch bore holes were drilled using a hollow-stem auger. The total depths of the borings ranged from 2.0 to 6.5 feet below ground surface. Samples were collected from each boring at depths of six inches, one foot, and at the soil-groundwater interface. After each boring, the drilling equipment was steam cleaned on-site and the rinsate was stored in a labelled 55-gallon drum. Drill cuttings were also stored in labelled 55-gallon drums. Each borehole was backfilled to grade using a cement/bentonite grout. Drilling logs are included in Appendix E.

Soil samples were collected from each boring using a California Modified sampler (2-inch diameter) fitted with 6-inch brass liners. The sampler was driven into the ground by a 140-pound hammer. The filled brass liners were removed from the sampler, capped with aluminum foil and plastic caps, taped with masking tape, labelled, placed in a zip-lock bag, and placed in a refrigerated cooler. The samples were submitted under chain-of-custody to Curtis and Tompkins, Ltd., a laboratory certified by the Department of Health Services. Laboratory reports and chain-of-custody forms are included in Appendix F.

All soil samples were analyzed for the metals previously identified by the County as being present on the site. The metals' analyses included cadmium (EPA Method 7130), chromium (EPA Method 7190), copper (EPA Method 7210), lead (EPA Method 7420), nickel (EPA Method 7520), and tin (EPA Method 6010). Samples collected at the soil-groundwater interface were also analyzed for volatile organic compounds (EPA Method 8240). In addition, samples collected from borings located at areas of stained soil were analyzed for oil and grease (Method SMWW 17:5520E&F).

#### Applicable Regulatory Action Levels

The California Code of Regulations (CCR) Title 26, includes criteria for determination of a hazardous waste or material. For certain heavy metals, CCR Title 26 specifies concentrations above which a material is considered hazardous. The concentrations are listed in terms of Total Threshold Limit Concentrations (TTLC) and Soluble Threshold Limit Concentrations (STLC). If the total concentration of a listed metal is above the TTLC, the material or waste defined as hazardous. If the soluble concentration of a listed metal is above the STLC, the material or waste is defined as hazardous.

When the total concentration of a listed metal is greater than the STLC but less than the TTLC, CCR Title 26 requires that a waste extraction test (WET) be performed to determine the soluble concentration of a species in the sample. The soluble concentration is then compared to the STLC; if it exceeds the STLC, the material or waste is considered hazardous.

<sup>&</sup>lt;sup>1</sup> During sample preparation, the solid is combined with the extraction solution at a ratio of 1:10 (the solid is diluted by ten). Because of the dilution factor of ten, only those metals with a total concentration exceeding ten times the STLC were reanalyzed using the WET.

#### **Analytical Results**

Below is a description of the metal and organic compound concentrations identified in the soil samples collected from the site. All samples were analyzed for total concentrations of the specific metal species. The samples did not contain any metal concentration in excess of the TTLC; however, some samples from shallow depths contained soluble concentrations of copper and lead in excess of the STLCs.

#### Cadmium

Cadmium was identified above the detection limit at sampling locations SB-4, 5, 6, 8, 12, and 14 (see Figure 2 for sample locations and Table 1 for concentrations. The total concentrations did not exceed the TTLC or ten times the STLC.

#### Chromium

Chromium was identified above detection limits at all sampling locations, except at location SB-3. Total chromium concentrations were below the TTLC and STLC at all locations.

#### Copper

Copper was detected in all soil samples collected. Total concentrations in each sample were below the TTLC. The total concentration in SB-12 from 0.5 to one foot exceeded ten times the STLC value; therefore, the WET was performed to determine the soluble copper concentration. The WET analysis measured the soluble concentration at 44.0 mg/L, which is greater than the STLC for copper (25 mg/L).

#### Nickel

Levels of nickel were detected at all sampling locations at varying depths. The total concentrations did not exceed the TTLC or ten times the STLC.

#### Lead

Lead was detected at all sampling locations at varying depths. The total concentrations did not exceed the TTLC. At locations SB-2, 4, 6, 7, 8, 9, 10, 11, 12, and 14, the total concentrations of lead (at various depths) exceeded ten times the STLC for lead. Therefore, WETs were performed for those samples. The results of the WET identified soluble concentrations of lead greater than the STLC at sample locations SB-6, 9, 12, and 14. The soluble concentrations above the STLC were identified at depths ranging from 0.5 to 1.5 feet below ground surface.

#### Tin

Tin was identified above the detection limit at sampling locations SB-6 and SB-12 in samples collected from 0.5 to one foot below ground surface. At sampling location SB-6, tin was identified at 11.0 mg/kg and at sampling location SB-12, tin was identified at 6.2 mg/kg. CCR Title 26 does not specify TTLC or STLC values for tin.

TABLE 1

#### SUMMARY OF ANALYTICAL RESULTS FROM SOIL SAMPLING

#### Seabreeze Yacht Center Inc. 280 Sixth Avenue, Oakland September 1990

(mg/kg unless otherwise noted)



Sample	Total Concentrations								Volatile Organic		Oil and Grease8		WET <sup>9</sup> (mg/L)	
I.D.	Depth (feet)	Cd <sup>1</sup>	Cr <sup>2</sup>	Cu <sup>3</sup>	Ni⁴	Pb <sup>5</sup>	Sn <sup>6</sup>		Compounds <sup>7</sup>		Non-polar	Pb	Cu	
SB-1	0.5 - 1.0	ND	9.1	31.0	8.1	40.0	ND							
	1.0 - 1.5	ND	14.0	20.0	25.0	36.0	ND							
	3.5 - 4.0	ND	ND	12.0	2.9	14.0	ND	0.014	(acetone)					
SB-2	0.5 - 1.0	ND	ND	17.0	ND	ND	ND							
	1.0 - 1.5	ND	ND	19.0	ND	ND	ND							
	3.0 - 3.5	ND	18.0	19.0	27.0	36.0	ND							
	5.0 - 5.5	ND	4.5	11.0	13.0	87.0	ND	0.012 0.0051	(acetone) (carbon disulfide)			1.1		
SB-3	0.5 - 1.0	ND	ND	10.0	ND	ND	ND							
	1.0 - 1.5	ND	ND	12.0	ND	3.0	ND							
	3.5 - 4.0	ND	ND	9.0	2.5	2.5	ND	ND						
SB-4	0.5 - 1.0	0.5	11.0	100.0	24.0	69.0	ND					2.7		
	1.0 - 1.5	ND	6.7	21.0	15.0	ND	ND							
	3.5 - 4.0	ND	3.5	16.0	6.6	14.0	ND	0.029 0.009 0.012	(acetone) (toluene)					
								trace	(total xylenes) (2-butanone)					
SB-5	0.5 - 1.0	0.6	18.0	34.0	19.0	6.5	ND							
	1.0 - 1.5	ND	ND	26.0	ND	ND	ND							
	3.5 - 4.0	ND	13.0	19.0	17.0	11.0	ND	0.079 0.022	(acetone) (2-butanone)					

Table 1 - continued

Sample				Total Co	ncentratio	ns		Vol	atile Organic	Oil and	Grease <sup>8</sup>	WET (mg/L	
I.D.	Depth (feet)	Cd <sup>1</sup>	Cr <sup>2</sup>	Cu <sup>3</sup>	Ni⁴	Pb <sup>5</sup>	Sn <sup>6</sup>		ompounds <sup>7</sup>	Total	Non-polar	Pb	Cu
SB-6	0.5 - 1.0 2.0 - 2.5	1.6 ND	22.0 6.6	140.0 11.0	120.0 21.0	650.0 ND	11.0 ND	0.014 0.025 trace	(carbon disulfide) (total xylenes) (benzene)			28.0	
SB-7	1.0 - 1.5	ND	19.0	37.0	27.0	67.0	ND	ND			••	0.34	
SB-8	0.5 - 1.0 1.0 - 1.5 2.5 - 3.0	0.8 ND ND	9.1 20.0 20.0	79.0 7.3 16.0	14.0 20.0 32.0	51.0 2.9 5.9	ND ND ND	 0.100 0.023 0.0076	(acetone) (2-butanone) (1,2-dichloropropar	230.0  1,200.0 ne)	ND  350.0	1.6  	
SB-9	0.5 - 1.0 1.0 - 1.5 3.5 - 4.0	ND ND ND	36.0 9.2 12.0	18.0 12.0 9.5	26.0 15.0 14.0	200.0 160.0 2.5	ND ND ND	  0.030 trace	(acetone) (2-butanone)		  	19.0 12.0	  
SB-10	0.5 - 1.0 1.0 - 1.5 3.0 - 3.5	ND ND ND	6.0 4.0 12.0	130.0 79.0 18.0	14.0 9.5 38.0	12.0 ND 25.0	ND ND ND	  ND		  	 	  	 
SB-11	0.5 - 1.0 1.0 - 1.5 3.0 - 3.5	ND ND ND	21.0 26.0 28.0	33.0 18.0 29.0	38.0 69.0 28.0	72.0 22.0 5.5	ND ND ND	 0.180 0.011	(acetone) (carbon disulfide)	 	  	3.7  	
SB-12	0.5 - 1.0 1.0 - 1.5 2.5 - 3.0	1.5 0.5 ND	22.0 5.4 22.0	730.0 20.0 19.0	37.0 7.4 26.0	340.0 17.0 67.0	6.2 ND ND	0.045   0.027 trace	(2-butanone) - M (acetone) (2-butanone)		  	9.0	44.0

Table 1 - continued

Sample				Total C	oncentratio	ons		_ Vo	latile Organic	WET <sup>9</sup> (mg/L)			
I.D.	Depth (feet)	Cd1	Cr <sup>2</sup>	Cu <sup>3</sup>	Ni <sup>4</sup>	Pb <sup>5</sup>	Sn <sup>6</sup>		Compounds <sup>7</sup>	Total	Non-polar	Pb	Cu
SB-13	0.5 - 1.0 1.0 - 1.5 2.5 - 3.0	ND ND ND	23.0 13.0 17.0	10.0 9.9 76.0	17.0 18.0 28.0	31.0 19.0 33.0	ND ND ND	  ND		  	  	 	  
SB-14	0.5 - 1.0 1.0 - 1.5 3.0 - 3.5	0.7 ND ND	23.0 15.0 25.0	47.0 81.0 18.0	35.0 25.0 20.0	61.0 55.0 ND	ND ND ND	  ND		 		6.6 1.4 	
SB-15	0.5 - 1.0 1.0 - 1.5 3.5 - 4.0	ND ND ND	12.0 14.0 14.0	8.4 9.8 11.0	25.0 28.0 32.0	12.0 39.0 14.0	ND ND ND	0.033 trace trace	(acetone) (carbon disulfide) (2-butanone)	18,000 7,900 1,700	7,800 4,200 520	  	
Detection Limit STLC (mg/L) TTLC		0.5 1.0 100	2.5 560 2,500	2.5 25 2,500	2.5 20 2,000	2.5 50 1,000	5.0 * *	0.010 * *		125.0 * *	125.0	0.05 5.0 1,000	0.5 25.0 2,500

Notes: ND = Not detected

-- = Not analyzed

Samples 1 through 10 were collected by BASELINE on 6 September 1990; samples 11 through 15 were collected by BASELINE on 7 September 1990.

Cd = Cadmium; samples analyzed using EPA Method 7130
 Cr = Chromium; samples analyzed using EPA Method 7190
 Cu = Copper; samples analyzed using EPA Method 7210

Ni = Nickel; samples analyzed using EPA Method 7520
Pb = Lead; samples analyzed using EPA Method 7420

<sup>&</sup>lt;sup>6</sup> Sn = Tn; samples analyzed using EPA Method 6010

<sup>&</sup>lt;sup>7</sup> Samples collected at soil-groundwater interface; samples analyzed using EPA Method 8240

<sup>&</sup>lt;sup>8</sup> Oil and Grease; samples analyzed using method SMWW 17:5520E&F (503D and 503E, total and non-polar, respectively)

<sup>9</sup> WET = Waste Extraction Test: CCR Title 26 Section 22-66700

<sup>\* =</sup> No TTLC or STLC values are identified for these substances in CCR Title 26

#### Volatile Organic Compounds

Those soil samples collected at the soil-groundwater interface, were also analyzed for volatile organic compounds (EPA Method 8240). Compounds were identified above detection limits at sample locations SB-1, 2, 4, 5, 6, 8, 9, 11, 12, and 15 (Figure 2). The compounds identified were acetone, carbon disulfide, 2-butanone, 1,2-dichloropropane, toluene, total xylenes, and a trace of benzene. There are no STLC or TTLC values for any of these compounds; however, most of the compounds are listed in CCR Title 26 as having at least one potentially hazardous property.

#### Oil and Grease

Samples collected from borings located in areas of stained soil were analyzed for total and non-polar oil and grease (Method SMWW 17:5520E&F). Samples were collected from locations SB-8 and SB-15 from depths ranging from 0.5 to 4 feet below ground surface (Figure 3). Total oil and grease and non-polar oil and grease levels ranged from 230 mg/kg to 18,000 mg/kg and 350 mg/kg to 7,800 mg/kg, respectively. CCR Title 26 does not specify a hazardous threshold level for oil and grease.

#### HAZARDOUS WASTE REMOVAL ACTIVITIES

In accordance with the September 1989 work plan (Appendix A), BASELINE removed and disposed of waste containers at the site. The waste was present in various containers located throughout the site. The containers and their known contents were inventoried in the September 1989 work plan (Appendix A). The contents of the containers included paints, oils, solvents, grease, gasoline, adhesives, and acid; some contents were unknown. The Port of Oakland made significant efforts to secure the site; however, because of the nature of site activities, complete restriction was difficult to achieve. Therefore, the containers were placed inside a fenced, secured area on the property (Figure 3). BASELINE contracted with North State Environmental (NSE) of South San Francisco to characterize the waste, collect samples for laboratory analyses where necessary, profile the waste for disposal at an appropriate disposal facility, and transport the waste in properly labelled containers under manifest to the disposal facility. Copies of Uniform Hazardous Waste Manifests (manifest) are included in Appendix G.

Boat repair and maintenance activities continued to occur on the site by private boat owners throughout the preliminary remedial investigation. In spite of the Port of Oakland's efforts to stop this practice, the boat owners continued to generate waste oils, paints, and thinners; these wastes were left on the site in plastic buckets and other containers on several occasions. Upon discovery of the waste containers, BASELINE or NSE moved the containers into the fenced, secured area. Following discovery of the wastes on each occasion, the wastes were characterized and profiled for disposal.

In two 55-gallon drums containing soil cuttings were generated during drilling and sample collection activities. A sample was collected from each drum and analyzed for lead. Based on the results of the analysis, the drums were picked up and transported by NSE to Environmental Services, Inc. in Idaho in November 1990. Copies of the manifests are included in Appendix G.

#### Remaining Hazardous Waste at the Site

To date, the majority of hazardous waste containers has been removed from the site and transported to appropriate disposal facilities. Nine 55-gallon drums containing grease, polyurethane foam, and waste paints and thinners remain at the site. The drums and containers have been profiled for disposal at Solvent Services in San Jose and Environmental Services, Inc. in Idaho. Transport of the drums is pending approval by the disposal facilities.

In addition, one 55-gallon drum containing rinse water from steam cleaning was generated during drilling activities. The drum is labelled and is currently being stored in the fenced, secured area. Based on analytical results of soil sampling, the drum has been profiled for disposal at Solvent Services. Upon disposal facility approval, the drums will be removed for disposal under manifest. in November 1990.

#### Waste Characterization, Profile, and Disposal Procedures

NSE, under the supervision of BASELINE, characterized on-site wastes using standard HazCat field test methods. The field tests included tests for pH, flammability, combustibility, solubility, and water reactivity. Based on the field test results, samples were collected from selected containers for analysis in the laboratory. NSE profiled the waste to a designated disposal facility based on field test and laboratory analytical results. The waste was profiled for disposal/treatment by landfill or incineration. Following approval for disposal by the disposal/treatment facility, the wastes were transported under proper manifest to Solvent Services in San Jose, California, Environmental Services, Inc. in Idaho, or Marine Shale Processors in Louisiana.

#### **Fuel Tanks**

Five abandoned, empty fuel tanks were transported from the site under manifest by Dillard Trucking to Erickson, Inc. in Richmond in October 1990. The origin of the tanks is unknown; the tanks were probably once used as fuel tanks on boats and abandoned on the property by boat owners. The certificates of disposal for the fuel tanks are included in Appendix H.

#### CONCLUSIONS

#### Metals

Soluble concentrations of lead and copper exceeding STLC values were identified at sample locations SB-6, 9, 12, and 14. These locations are at approximately the same locations or immediately seaward from the locations where the County previously collected soil samples. The hazardous concentrations were identified at a depth of 0.5 to 1.5 feet below ground surface. The samples collected at greater depths did not exceed threshold limits. The source of these compounds could be associated with past on-site boat maintenance activities.

Tin was identified at sample locations SB-6 and 12, at 11.0 mg/kg and 6.2 mg/kg, respectively; however, there are no STLC or TTLC values for tin listed in CCR Title 26. The tin present in the soil may have been a component of tributyl tin, which has been used in the past in copper-based paint for the prevention of barnacle growth. While tributyl tin has been shown to be toxic to marine organisms, there are currently no regulatory limits.

#### **Organics**

Volatile organic compounds were detected at the soil-groundwater interface at sample locations SB-1, 2, 4, 5, 6, 8, 9, 11, 12, and 15. The source of these compounds may have been organic solvents associated with boat repair and maintenance.

#### Oil and Grease

Oil and grease was detected at sample locations SB-8 and 15, at depths ranging from 0.5 to 4.0 feet below ground surface (including the soil-groundwater interface). At location SB-8, the concentrations increased with depth, and at location SB-15, the concentrations decreased with depth. The high levels of oil and grease indicate that the groundwater may have been affected. The source of these compounds may have been on-site boat maintenance activities.

#### Removal of Hazardous Waste

The majority of hazardous waste containers at the site has been removed. A total of ten 55-gallon drums (including rinsate water) remain at the site. Preparation arrangements have been made for removal of the remaining waste containers. The containers will be transported for disposal once approval is received from the disposal facilities.

#### RECOMMENDATIONS AND WORK PLAN

Based on the results of this preliminary remedial investigation, BASELINE recommends that additional soil samples be collected, groundwater monitoring wells be installed, and remaining hazardous waste to be removed as part of the second phase of the remedial investigation. These recommendations are described in detail below, and constitute the work plan for Phase II of the remedial investigation.

#### Site Safety

All field activities would be conducted in accordance with a site safety plan. Field activities would commence after a permit from the Alameda County Flood Control and Water Conservation District Zone 7 and utility clearance established through Underground Service Alert are secured.

#### Collection of Additional Soil Samples

To further quantify the lateral extent of soil contamination, discovered by BASELINE and the County, additional soil samples would be collected at four locations, at 5- and 10-foot radii from previous sampling locations, where soluble metal concentrations exceeded STLC (locations 6, 9, 12, and 14 on Figure 2). The samples would be collected from two depths at each location: 0.5 to 1.0 feet and 1.0 to 1.5 feet. All samples would be analyzed for total and soluble lead (EPA Method 7420) and the samples collected from around sample location SB-12, would also be analyzed for total and soluble copper (EPA Method 7120). The results of the sample analyses would assist in determining soil remediation strategies.

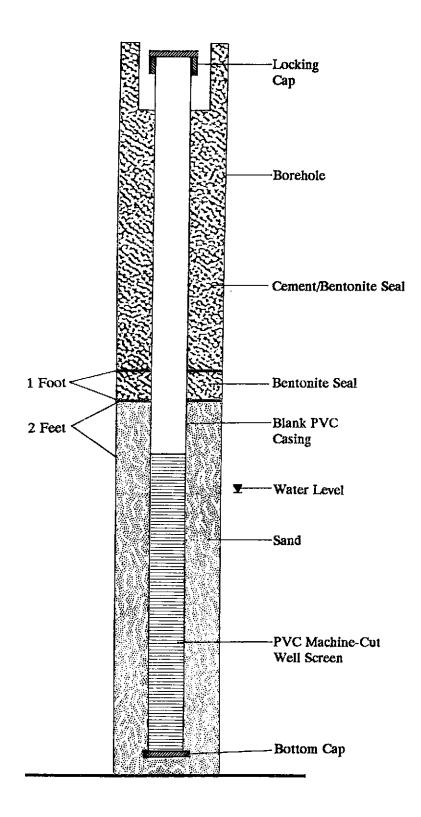
Samples would be collected from soil borings drilled by Aqua Science Engineers (ASE) of San Ramon. The borings would be drilled using a hollow-stem auger. The drilling equipment would be steam-cleaned on-site prior to each boring; the rinsate, as well as drill cuttings, would be temporarily stored on-site in labelled 55-gallon drums.

Soil samples would be collected using a California Modified sampler (2-inch diameter) fitted with 6-inch brass liners; the sampler would be driven into the ground by a 140-pound hammer. Upon retrieval of the sample, the brass liners would be removed from the sampler, capped with aluminum foil and plastic caps, taped, labelled, placed in a zip-lock bag, and refrigerated. The samples would then be submitted under chain-of-custody to Curtis and Tompkins, Ltd., a Department of Health Services certified laboratory. Sampling equipment would be decontaminated with TSP and deionized water between each sampling event. Following collection of samples, the boreholes would be backfilled to grade using a cement/bentonite grout.

Monitoring Well Installation Were 56-8 & SB15 Chosen solely from observed strong ? (TOG), it would been Vil. Org. Should talso be anadout To evaluate the potential groundwater effects from oil and grease and organics in the unsaturated soils, two TOG

groundwater monitoring wells would be installed at sample locations SB-8 and SB-15. The wells would be installed in accordance with Zone 7 requirements. Following installation of the wells, groundwater samples would be collected and analyzed for metals, volatile organic compounds, and oil and grease (total and hydrocarbon). All work associated with well installation would be supervised by a geologist registered in the State of California.

The wells would be installed by ASE and would be constructed with 2-inch PVC casing with a 10-slot screen. The wells would be drilled to a maximum depth of 20 feet, with a maximum screened interval of 15 feet. A typical well construction diagram is shown in Figure 4. The wells would be drilled using a hollow-stem auger; the annular space between the borehole and the well would be filled with sand overlain by bentonite and grout. The installation would be completed with a locking well cap and a traffic box set in concrete.



All drilling equipment would be decontaminated by steam-cleaning before mobilization onto the site and between each monitoring well location. Drill cuttings and decontamination rinsate would be stored temporarily on-site in labelled 55-gallon drums.

Following well installation, the wells would be developed by pumping and surging until fines have been removed from the development water. After 24 hours, the wells would be checked for floating product and water levels with a dual-interface probe. The wells would be sampled after purging of a minimum of five well volumes. Purged water, including well development water, would be temporarily stored on-site in labelled 55gallon drums.

Groundwater samples would be collected from each well using a clean disposable bailer. The samples, including one duplicate sample and a field blank, would be transferred directly into pre-cleaned glass vials, iced, and transported to Curtis and Tompkins under chain-of-custody. The samples would be analyzed for lead (EPA Method 7210), copper (EPA Method 7420), and volatile aromatics (EPA Method 602). Shech Goz angres

carbon des alfide

UOA

Removal of Remaining Hazardous Waste

The remaining hazardous waste containers at the site would be removed and disposed of in accordance with federal and state statutes and regulations. The collection of additional samples and well installation would generate additional 55-gallon drums containing soil cuttings, rinsate water, and well development water. Arrangements for the removal and disposal of these drums would be made following receipt of analytical results of soil and groundwater sampling.

#### Reporting

Following receipt of analytical results, BASELINE would prepare a report documenting the additional field work, evaluating analytical data, and providing recommendations for further remedial investigation and/or actions. Copies of the report would be submitted to the Alameda County Hazardous Materials Division and the Regional Water Quality Control Board, San Francisco Bay Region.

#### Proposed Schedule of Activity

The second phase of the remedial investigation would begin following approval of this work plan by Alameda County. Collection of the additional samples and installation of the monitoring wells would occur within three weeks of authorization from the County and the Port of Oakland to begin. Laboratory results would be available within seven weeks of authorization to begin, and a report would be submitted within ten weeks of authorization to begin. Removal of remaining waste currently stored on-site would be completed within the ten-week period. Removal of additional waste generated during drilling activities would be completed within five weeks following receipt of analytical results from soil sampling.

#### **LIMITATIONS**

The conclusions presented in this report are professional opinions based on the indicated data described in this report. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the subject property can occur with time, because of natural processes or the works of man, on the subject sites or on adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

#### APPENDIX A

WORK PLAN TO CONDUCT PRELIMINARY REMEDIAL INVESTIGATION (September 1989)

# WORK PLAN FOR REMEDIAL INVESTIGATION SEABREEZE YACHT CENTER, INC. Oakland, California

Prepared for

PORT OF OAKLAND Oakland, California

September 1989

Prepared by

BASELINE ENVIRONMENTAL CONSULTING 5900 Hollis Street, Suite D Emeryville, California 94608 415/420-8686

## WORK PLAN FOR REMEDIAL INVESTIGATION SEABREEZE YACHT CENTER, INC. Oakland, California

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## BASELINE

### ENVIRONMENTAL CONSULTING

11 September 1989 \$9-139

Ms. Michele Heffes PORT OF OAKLAND 77 Jack London Square Oakland, California 94607

Subject:

Remedial Investigation Work Plan for Soil Contamination at Seabreeze Yacht Harbor, Inc.

in Oakland, CA

Dear Michele:

Enclosed please find five copies of the finalized work plan for investigation of soil contamination at the Seabreeze Yacht Center, Inc. Should you have any questions regarding this report or need additional information, please call us at your convenience.

Sincerely,

Yane Nordhav Principal

Reg. Geologist No. 4009

Marta Williams

Marja W. Z. g

Associate

YN/MW/cr/S32

Enclosure

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## WORK PLAN FOR REMEDIAL INVESTIGATION SEABREEZE YACHT CENTER, INC. 280 6th Avenue, Oakland

#### I. INTRODUCTION

The following work plan is submitted in response to a certified letter received by the Port of Oakland from the Alameda County Department of Environmental Health, Hazardous Materials Program (County) on 4 August 1989. The letter notified the Port that the Seabreeze Yacht Center (Seabreeze), located on Port property at 280 6th Avenue, Oakland, California, was in violation of the California Health and Safety Code, Section 25189 (d), and the California Code of Regulations Title 22 (Title 22), Sections 66699 and 66328. The County has requested that the Port submit a plan for assessing contamination at this site. The Port has retained BASELINE Environmental Consulting to prepare this plan.

#### A. Scope of Work

The remedial investigation work plan provides information on available historical site ownership and use data for the property at 280 6th Avenue in Oakland, including a description of types and locations of hazardous materials known to have been used on-site; a description of the site setting and initial soil contamination results; the methods and procedures to be used in determining the lateral and vertical extent of identified soil contamination; the methods and procedures to be used to characterize and dispose of drums and containers located on-site; a plan for determining groundwater contamination; a site safety plan; a discussion of report procedures; and a proposed schedule.

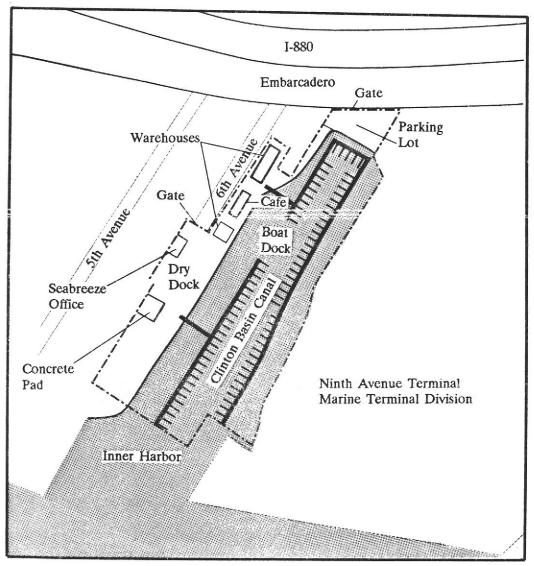
#### B. Site History

#### Site Ownership

The property consists of approximately nine acres (Figure 1), located at the foot of 6th Avenue. Approximately two acres are used as dry dock for small boat repair and maintenance. The Clinton Basin

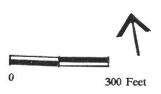
### SITE PLAN Seabreeze Yacht Center Oakland, California

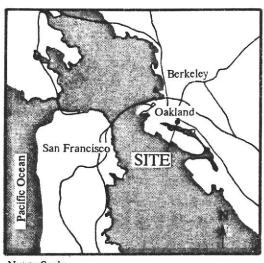
### Figure 1



Legend:

--- Site Boundary





Not to Scale

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Canal occupies approximately six and one-half acres and about 100 boats are currently berthed there. The remaining one-half acre is a parking lot located adjacent to the Embarcadero (see Figure 1).

The earliest recorded owner of the site in the Port of Oakland files dates to 1905. At that time the property was owned by the Oakland Harbor Development Company and the Magnesite Dock and Land Company. No information for the period between 1905 and 1929 was available from the Port of Oakland files. The property was owned by the Pacific Carbonic Gas Company in 1929, but no information on the ownership history during the intervening years between 1929 and 1946 was available. In 1946, the PORT of Oakland purchased the property from Richfield Oil Corporation (BASELINE Communication with Robert Jones, PORT of Oakland, 8 June 1989).

The PORT of Oakland's record of tenants for the site indicate that it was leased to Kamelart Boat Works in 1955. In 1961 the property was leased to Hans Glaser Boat Service Inc. (aka Seabreeze Yacht, Inc.) which has operated on the site since 1961 to the present.

#### Historical Site Uses

Aerial photographs from Pacific Aerial Survey were reviewed for the years 1947, 1953, 1959, 1969, 1975, 1981, 1985, and 1988. Throughout these years, the photographs indicate the presence of one large building and numerous small boats in dry dock on the property. Large vessels, presumably Navy ships, are visible in Clinton Basin, which is adjacent to the site, in the 1947 photograph. The 1985 photograph shows a dry dock repair area in the triangle of land which is currently an asphalt-paved parking lot (see Figure 1).

Historical Sanborn Insurance company maps for the area dating to 1911 and a map of the area published in 1868 in the Map of Oakland and Vicinity, by W. F. Boardman, indicate that the site was formerly the approximate location of the historic outlet between Lake Merritt and the Oakland Estuary/San Antonio Creek. The nature of any fill material which may have been used to create the site is not known.

There was no information on this property in the United States Environmental Protection Agency (EPA) data bases searched by BASELINE. Nor was there any information in the State of California, Department of Health Services (DHS) data bases for this site. The site has never operated under a National Pollution Discharge Elimination System permit, for discharge of wastewaters to the waters of the State, according to files reviewed at the Regional Water Quality Control Board. The East Bay Municipal Utility District does

not list this site as ever having been permitted to discharge industrial wastewater to the utility's wastewater treatment plant.

#### History of County Involvement at Site

The site was inspected by Mr. Thomas Peacock of the County in 1985, 1986, and 1987; paint sandblast waste, used oil, and used thinners were identified on-site, but no formal action was taken by the County as a result of these inspections (BASELINE communication with Ariu Levi, Alameda County Hazardous Materials Division, 7 June 1989). On March 24, 1988, Seabreeze filed for bankruptcy. In 1988, Mr. Ariu Levi performed the County site inspection and collected soil samples on-site. As described in detail in the following section on "Initial Soil Contamination Results", the samples Mr. Levi collected were found to be high in copper and other metals. A Notice of Violation describing the levels of metals found in soils and delineating corrective action required by the County was sent by certified mail to Seabreeze on October 20, 1988. Seabreeze responded by mail to the County on November 16, 1988 indicating that further soil sampling would by conducted on-site and that results would be forwarded to the County. Since that time, there is no record of sampling having been conducted by Seabreeze.

A motion was filed by the Port on May 8, 1989 for an Order declaring Seabreeze's lease with the Port deemed rejected by operation of law. On July 31, 1989, after oral argument was presented, the Court ruled that Seabreeze's lease was deemed rejected by operation of law and ordered the Trustee of the debtor's estate to vacate the premises by August 14, 1989. On August 3, 1989, the Alameda County District Attorney's Office notified the Trustee that as part of the Trustee's surrender of possession of the premises to the Port, the Trustee was required to properly manifest and remove the hazardous wastes on the premises. The Trustee and the Port are in the process of negotiating a stipulation which would result in compliance with the District Attorney's August 3, 1989 notice to the Trustee.

#### Site Reconnaissance

BASELINE conducted three site reconnaissances of this property. During the first, on 8 June 1989, approximately 25 small sail and power boats, at an average size of 30 feet, were present in dry dock on the property (Figure 1). Boat owners were observed hand sanding and painting the boats. Except for a small parcel of the property, an area of approximately 20 by 50 feet, the dry dock boat repair activities are

carried out on unpaved soil. A slight discoloration, possibly from oil, was observed under some of the boats in dry dock.

Oily discoloration was also observed in the following two drum storage areas: 1) The first area was located toward the back of the lot and 2) on the opposite side from the Basin, where twelve 55-gallon drums were stored on a pallet against the fence. Most drums were open and appeared to be filled with waste oil. One closed drum was labeled as flammable and was a Kopper Chemical drum (contents otherwise unknown). The second drum storage area was adjacent to the office at the end of 6th Avenue. Six drums of unknown content were observed there. In both cases, the stained soil areas were approximately five feet long by five feet wide.

The second site reconnaissance was conducted on 9 August 1989. Forty-three closed 55-gallon drums and more than one hundred other containers, ranging in size from two pints to five gallons were inventoried. The contents of the 55-gallon drums and the smaller containers were verbally described to BASELINE by employees of Seabreeze. The specific contents of each drum and container are described below in the section entitled "Characterization, Removal, and Disposal of On-site Drums and Containers". It appeared that some of the drums were mislabelled (based on interviews with on-site personnel). MSDS information was not available.

The third site reconnaissance was conducted on 28 August 1989, for the purpose of finalizing the soil sampling plan. Site buildings were inspected and no evidence of hazardous materials/waste usage or spillage was evident inside any of the buildings. The small one-half foot strip of land included in the site boundary on the south side of Clinton Basin Canal is not accessible to pedestrians or boats. BASELINE concluded that contamination of this site by tenants or lease-holders of Seabreeze was unlikely. No stained soils or stressed vegetation were observed in this area.

#### II. SITE DESCRIPTION

#### A. Setting

The Seabreeze site is adjacent to the Oakland Inner Harbor (see Figure 1). Industries in the area include boat works, restaurants, marine supply stores, and yacht sales. The Ninth Street Marine Terminal is located

to the south, and I-880 is located a few hundred yards to the northeast of the site. The depth to shallow groundwater on-site is expected to be approximately four feet based on the distance from the site ground surface to the high tide water line in Clinton Basin Canal. The flow of shallow groundwater on-site would be expected to be toward the open waters of the Oakland Inner Harbor.

#### **B.** Initial Soil Contamination Results

On 28 July 1988, Mr. Levi of Alameda County inspected the site and collected three soil samples for analysis. The samples were collected at a depth of three to six inches from the ground surface from the central portion of the site as shown in Figure 2 (BASELINE communication with Ariu Levi, Alameda County Hazardous Materials Division, 7 June 1989). The samples were analyzed for the following total metals using EPA Method 3020 for sample preparation: cadmium (Method 7130), chromium (Method 7190), copper (Method 7120), lead (Method 7420), nickel (Method 7520), and tin (atomic emission spectroscopy). The analyses were performed by the Alameda County Environmental Health Laboratory.

Two of the three soil samples contained copper in concentrations exceeding the DHS criteria for the definition of hazardous wastes contained in Title 22. The Total Threshold Limit Concentration (TTLC) for copper is 2,500 mg/kg according to Title 22; the copper concentrations in the two samples exceeding the TTLC were 33,000 and 4,000 mg/kg, respectively. The remaining metals which were analyzed for in the collected samples did not exceed the TTLC concentrations, but were present above laboratory detection levels.

Tin was identified in the soil samples. However, there is no TTLC for tin in Title 22. Because tri-butyl tin has been used as extensively as copper-based paint for the prevention of barnacle growth, it is possible that the site soils may contain some level of this chemical. Tri-butyl tin is extremely toxic to marine organisms, causing neurotoxicity, retarded regeneration, and deformity in crustaceans at levels equal to or greater than 0.5 micrograms per liter (personal communication, Pesticide Hotline, June 8, 1989). The concentrations of total tin in the collected samples ranged from 600 to 5,000 mg/kg. The use of this chemical in marine paints has been generally discontinued and will probably by prohibited by Environmental Protection Agency regulations to be promulgated in September of this year (BASELINE communication with Pesticide Hotline, 8 June 1989). No regulatory limits currently exist for tri-butyl tin.

# APPROXIMATE LOCATION OF COUNTY SOIL SAMPLES

Figure 2

I-880 Embarcadero **Parking** Lot Warehouses Seabreeze Boat Dock Office Legend: Dry Docl County Soil Sample Concrete Site Boundary Ninth Avenue Terminal Marine Terminal Department Inner Harbor Seabreeze Yacht Center

Oakland, California
Source: BASELINE Communication with Ariv Levy,

Alameda County Hazardous Materials Division 8 June 1989.



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#### III. CHARACTERIZATION OF CONTAMINATED SOILS

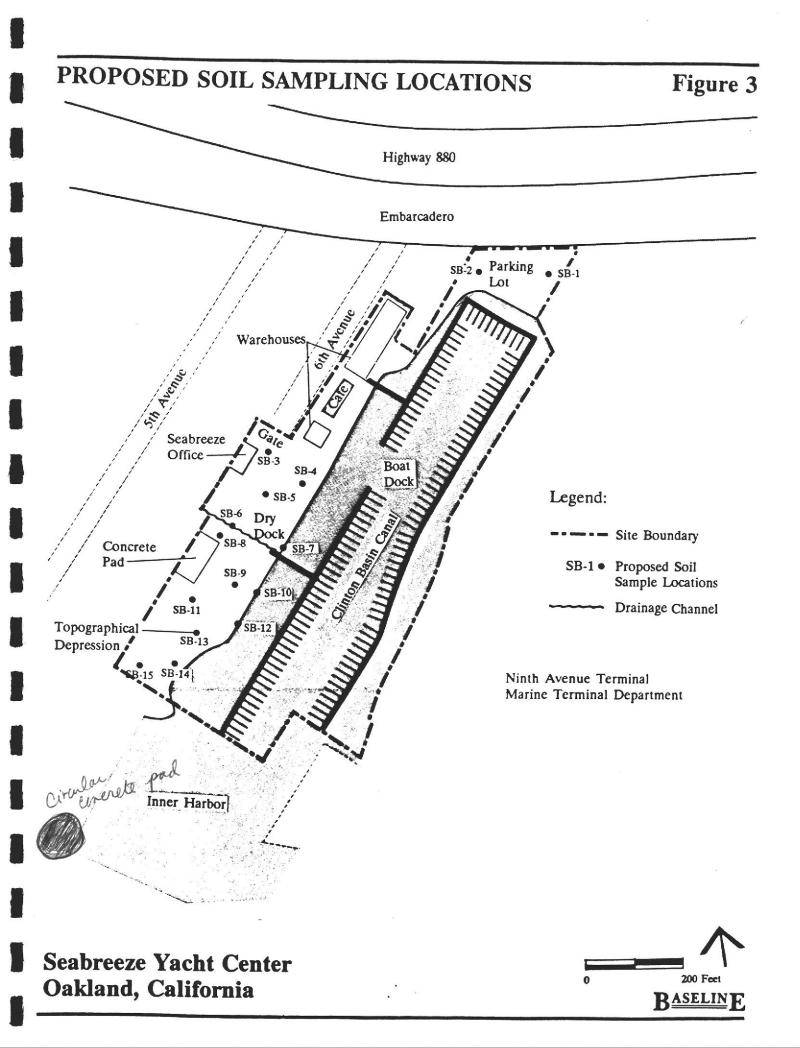
#### A. Methods and Procedures

Soil sampling to be conducted on-site will have two objectives: 1) to further quantify the lateral and vertical extent of soil contamination discovered by the County, and 2) to quantify the lateral and vertical extent of chemical compounds that may be present in soils elsewhere on-site. During site reconnaissance BASELINE determined that soil samples should be collected from the dry dock area and from the parking lot which had formerly been a dry dock. The lateral extent of soil contamination discovered by the County will be determined by sampling downgradient from the approximate locations of the County sample sites (see Figures 2 and 3). Vertical quantification will be achieved by resampling in approximately the same locations as the County and sampling at specific intervals (specified below) until the soil-groundwater interface is reached (see Figures 2 and 3).

To quantify possible presence of metals and volatile organic compounds in the dry dock area samples will be collected at all locations where stained soils were observed; along the mud in Clinton Basin Canal near a drainage channel on-site; at areas of depression where water might pool; and in boat dry dock berths (see Figure 3). Two samples will be collected from the parking lot. All samples will be collected at a depth of six inches, at one foot, and subsequently at two-foot intervals until the soil-groundwater interface is reached. Figure 3 shows proposed soil sampling locations.

Sample collection will follow state and federal guidelines (Appendix A), and all work on-site will be conducted according to a site-specific health and safety plan (Appendix B). BASELINE staff member William Scott will collect the soil samples on-site. Soil boring will be completed by AquaScience, a subcontractor to BASELINE based in San Ramon, California. Subsequent to drilling and sampling at each boring location, the boring will be grouted. No open bore holes will remain in place at the end of any day when drilling has occurred. All samples will be refrigerated and brought to the laboratory for analysis under strict chain-of-custody (Appendix A and C).

The analytical laboratory will be Curtis and Tomkins, located in Berkeley, California. This laboratory is certified by the State of California to perform the required chemical analyses. All samples collected will be analyzed for the metals detected by the County. Samples collected at the soil-groundwater interface will also be analyzed for volatile organic compounds to determine whether use of solvents on-site may have



affected soils and could potentially constitute a threat to the groundwater. Samples collected in areas of stained soils will be analyzed for metals and for oil and grease. The following methods specified by the EPA will be used to analyze soil samples:

Cadmium - Method 7130
Chromium - Method 7190
Copper - Method 7210
Lead - Method 7420
Nickel - Method 7520
Tin - Atomic Emission Spectroscopy
Volatile Organic Compounds - Method 8240
Oil and Grease - Method 503D and E.

#### **B.** Security

A chain link fence surrounds the property, and the gate leading into the property will be locked after working hours. Any soil cuttings and rinse water generated from sampling and equipment decontamination will be placed in 55-gallon drums to be stored on-site. Each drum will be labeled and locked.

#### C. Management of Soil Cuttings

All drill cuttings will be stored on-site in 55-gallon drums until laboratory analyses are completed. Drums will be marked to identify the sample numbers which correspond to the drill cuttings contained in each drum. Once analyses are completed each drum will be properly labeled as hazardous or non-hazardous according to regulations set forth in the EPA 40 Code of Federal Regulations (40 CFR), Parts 260 through 280 and Title 22. The disposition of each drum will also be determined in conformity with these regulations. Once appropriate disposition has been determined, BASELINE will subcontract the work of drum removal and disposal to Hydro-Chem Services, Inc., located in San Francisco, California. Transportation of hazardous wastes is conducted according to the above-referenced regulations and in accordance with the Department of Transportation regulations contained in 49 CFR and Title 22. All hazardous wastes will be transported according to hazardous waste manifest procedures outlined in 40 CFR and Title 22.

# IV. CHARACTERIZATION, REMOVAL, AND DISPOSAL OF ON-SITE DRUMS AND CONTAINERS

#### A. Description of On-site Drums and Containers

During the site reconnaissance on 9 August 1989, Seabreeze employees identified the following drums and containers, present on-site<sup>1</sup>:

- · Nine 55-gallon drums contained paint.
- · One 55-gallon drum contained crank case oil.
- · Two 55-gallon drums contained urethane foam.
- One 55-gallon drum contained gasoline.
- · Five 55-gallon drums contained waste oil.
- One 55-gallon drum was labelled as containing carboxymethyl cellulosis.
- · Seven 55-gallon drums contained grease.
- · One 55-gallon drum contained water.
- · Fourteen 55-gallon drums were empty.
- · About thirty 5-gallon containers contained paint.
- About ten 250-ml bottles contained hydrochloric acid.
- About twenty-five less-than-five-gallon containers contained paint.
- · About twenty less-than-five-gallon containers contained sealing compound.
- Two 5-gallon buckets contained gasoline.
- Two 5-gallon containers contained an unknown substance.
- One 5-gallon container contained pinion grease.
- · About ten containers were observed to be empty, but had contained motor oil.

#### B. Characterization of Drum and Container Contents

BASELINE will field screen the on-site drums and containers using standard HazCat methods. Unused product containers and drums will be identified by labels. If HazCat procedures are inconclusive, the drum contents will be sampled and submitted to the laboratory for analysis. After sampling, all 55-gallon drums

<sup>&</sup>lt;sup>1</sup>Two 55-gallon drums, one containing hydraulic oil and the other containing motor oil, were described as belonging to one of the employees, and it was indicated that these drums would be removed immediately by the owner of the drums.

will be fitted with individual locks and remain on-site pending the results of the analytical analyses. Smaller containers will be secured in overpack drums according to compatibility. BASELINE staff members Marta Williams and Teresa Anaya will assist Hydro-Chem in characterizing on-site drums and containers.

#### C. Removal and Disposal

Once analyses are completed and all drum/container contents have been identified, labels will be applied and disposal will be carried out by Hydro-Chem. The applicable regulatory guidelines, previously cited in the discussion of drill cutting disposal, will be followed.

#### V. CHARACTERIZATION OF GROUNDWATER CONTAMINATION

Characterization of groundwater contamination is tied to the analytical results of soil sampling. Wherever soil contamination has reached the soil-groundwater interface, further investigation to determine whether groundwater has been contaminated will be required. At present, it cannot be determined whether a groundwater investigation will be warranted on the site. The documentation discussed in the following "Reporting" section of this work plan will include recommendations for specific groundwater investigation activities which will be based on the results obtained from the soil sampling activities on-site.

## VI. REPORTING

After receipt and evaluation of the analytical results for collected soil samples BASELINE will submit a preliminary report to the Port detailing the laboratory results, documenting all soil sampling activity, and describing any activities undertaken with regard to disposal of drums, containers, drummed drill cuttings, and decontamination rinse waters located on-site. The report will include specific recommendations and provide a schedule of activity for a groundwater investigation at the site, if soil sample analytical results indicate potential contamination of groundwater has occurred. Upon completion of groundwater investigations, the preliminary report would be revised and submitted to the County as a final report documenting all remedial investigative work that has occurred on-site. All reports will be signed by BASELINE's principal, Yane Nordhav, a registered geologist, whose qualifications are provided in Appendix D of this work plan.

# VII. PROPOSED SCHEDULE

After work plan approval from the County, BASELINE will begin work on-site immediately upon notification from the Port. Soil sampling activity will require approximately two weeks. Sample analysis requires approximately three weeks. Screening and analysis of drums and containers on-site will be conducted concurrently and should also be completed by the fifth week of the investigation. Disposal of drums and containers requires approximately two additional weeks. By the eighth week the draft preliminary report will be submitted to the Port. As soon as the Port has commented on the draft, the report can be finalized and submitted to the County within one week. The details and schedule for any groundwater investigation which may be required will be specified in the preliminary report.

#### SAMPLING PROCEDURES

#### SOILS

- In-place soil samples are collected with a stainless steel corer, fitted with a 6-inch brass liner. The
  corer is driven into the ground by a slide hammer. The brass liner is removed from the steel corer,
  capped with aluminum foil and a plastic cap,t aped with masking tape, placed in a zip-lock bag, and
  iced prior to delivery to the laboratory for analysis. Proper chain-of-custody and sample labeling
  procedures are followed.
- All sampling equipment is decontaminated with tri-sodium phosphate (TSP) and deionized water prior to collection of each sample.
- 3. In-place soil samples may also be collected during drilling activities. The samples are collected with a California Modified sampler (2-inch diameter) fitted with 6-inch brass sleeves. The sampler is driven into the ground by a 140-pound hammer falling 30 inches. The samples are handled similarly to the procedures described above and the equipment is decontaminated in the same fashion.

#### DRUMS AND CONTAINERS

- Liquid samples are collected using glass pipets, drum thief, liquid sampler. Solids are collected
  using spade or dipper. Samples are transferred to glass containers. Lids will be Teflon-lined. In
  the case of strong bases, hydrofluoric acid or phosphoric acid, Teflon sample equipment will be
  used.
- Usually, sample equipment is disposed in the drum being sampled after each sample. If decontamination is required, the solvent to be used will be determined based on the characteristics of the waste as determined by HAZ CAT procedures.
- 3. Volatile samples are collected in 40 ml vials. Other samples are collected in liter containers.
- 4. Photosensitive samples are stored in amber sample containers.
- All field-determined HAZ CAT information will be transferred to the laboratory along with the samples.
- 6. Sample labeling and transporting follows the same procedures outlined for soil sampling.

BASELINE Environmental Consulting 5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

Project No.: S9-139

Field Activities Date:

Client: Port of Oakland

Address: 77 Jack London Square, Oakland, CA

Contact Person: Michele Heffes

Telephone No.: (415) 839-2656

Job Location: 280 6th Avenue, Oakland, CA

<u>Project Description</u>: Characterization of soil contamination at Seabreeze Yacht Center. Soil sampling (drilling to be done by Aqua Science of San Ramon, CA). Oversight of sampling of drums and containers (sampling to be conducted by Hydro-Chem Services, San Francisco). Drums may contain waste oil, paint, solvents. Both subcontractors will submit proof of site safety plan and employee training before work, but plans will not be evaluated by Baseline.

Project Manager: Marta Williams

Site Health & Safety Manager: Irene Kan

<u>Site History</u>: Site has been a boat yard since early 1900s. Alameda County Hazardous Materials Division sampled soil and found hazardous waste levels of copper and high levels of nickel, tin, and lead. County requested characterization of site, which is owned by Port.

#### CHEMICAL HAZARDS

CHEMICAL NAME	DESCRIPTION	HEALTH & SAFETY STANDARDS	PERSONS EXPOSED* AND POTENTIAL ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE
Tri-butyl tin	Marine paint	TWA-0.1 mg/m <sup>3</sup>	Inhale, with heat will generate chlorine gas	Respiratory arrest, irritation
Lead	Inorganic in dust and soil	0.05 mg/m <sup>3</sup> - use high efficiency filter with respirator	Inhale, ingest, dermal	Usually long term: neurologic anemia, weight loss
Solvents	Can be carcino- genic; specific type unknown, probably volatile	At over 5 ppm above background, use air purifying respirator with organic vapor cartridge	Inhale, dermal	Dizzy and dis- oriented. Long term can be carcinogenic
Copper	In dust on-site	1 mg/m <sup>1</sup>	Inhale, dermal, ingest	Long term: liver, kidney damage. Respiratory irritant
Nickel	In dust on-site	10 hr. TWA (NIOSH) 15 μg/m³ 1 mg/m³ (ACGIH)	Inhale, dermal, ingest	Can cause allergic reaction. Long term: possible carcinogen

<sup>\*</sup> Contractor and samplers.

BASELINE Environmental Consulting 5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686 SITE
SAFETY
PLAN
(continued)

<u>Physical Hazards</u>: Fire, exploding drums, trip, possible cuts from scrap metal an debris on-site, possible injury from heavy equipment (e.g., drill rig).

<u>Personal Protective Equipment Required</u>: Tyveks, nitrite gloves, safety boots, safety glasses, first aid kit, air purifying respirator with high efficiency filter and organic vapor cartridge (for use during drum and container and soil sampling), hard hat, portable eye wash.

Air Monitoring Strategy (including action levels): Monitor drum area and drum openings before and during sampling. HNU - greater than 5 ppm, use respiratory (during soil and drum and container sampling); LEL meter - at greater than 20% LEL, stop work until return to less than 20%.

Site Control Measures: Store soil cuttings and decontaminated rinse water and contaminated personal protective gear (e.g., Tyveks) in labeled, locked drums. Arrange for disposal of same upon receipt of lab analyses for corresponding samples. Underground Service Alert will be contacted to get clearance before sampling. Site is fenced and gate will be locked during nonworking hours. Public will be restricted from sampling areas during sampling. All soils borings will be grouted after samples are collected. Only persons with hazardous waste, OSHA-required trianing will be involved in sampling. Drinking water located at Seabreeze warehouse and cafe. Clear area, decontaminated area will be designated. Copy of Site Safety Plan will be sent to subcontractors: 1) Aqua Science; 2)Hydro-Chem.

<u>Decontamination Procedures (personal and equipment)</u>: Steam clean drilling augers between each boring, decontaminate soil sampling equipment with TSP, rinse equipment with deionized water. Contain rinse waters in temperature basin, store in labeled, locked drum. Dosposable sampling equipment will be stored in labeled, locked drum. Disposable personal protective gear will be placed in plastic bag in locked drum end of each day. Boots, respirators, safety glasses wash with TSP and rinse. Rinse water stored in locked drum. Wash hands before leave site.

Hospital/Clinic: Peralta Hospital Phone: (415) 451-4900

Hospital Address: 450 30th Street, Oakland, CA

Paramedic: 911 Fire/Police Dept.: 911

Emergency Procedures: Notify Yane Nordhav or Irene Kan in emergency: (415) 420-8686.

Prepared by: Marta Williams Reviewed/Approved by:

Date: Date:

Read by: Date:

Read by: Date:

Read by: Read by:

BASELINE Environmental Consulting 5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686 SITE
SAFETY
PLAN
(continued)

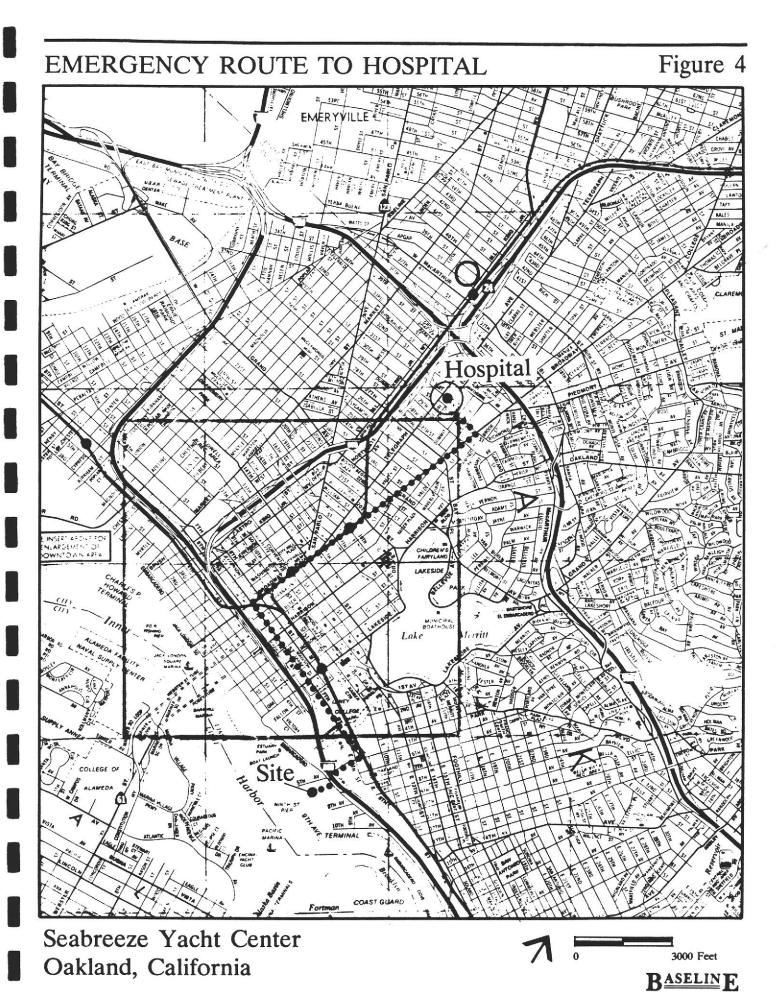
See page 4 for map to hospital.

Hospital/Clinic: Peralta Hospital

**Telephone No.**: (415) 451-4900

Hospital Address: 450 30th Street, Oakland, CA

Directions: Proceed north on 5th, west on 7th, north on Broadway, and west on 39th.



# BASELIN

5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

# CHAIN OF CUSTODY RECORD

Turn-Around Time	
Lab	
1.9	
Contact Person	

Project No.  Samplers: (Signature)	gnature)	Project	Name an	d Locatio	on					Analysis			nalysis								
No. Station	Date	Time	Media	Depth	Compo- sites	No. of Con- tainers	Stati	on Locatio	on		$\angle$	_	$\angle$	$\angle$	$\angle$		$\angle$	_	R	emarks	Detection Limits
			x.																		
																					-
Relinquished b	y: (Signatu	re)	D	ate / Time		Received	by: (Signatı	ire)		Date	/Tim	ne		Cor	ndition ival at	of Sa Labo	mples ratory:	upon			
Relinquished b	y: (Signatu	re)	D	ate / Time		Received	by: (Signatu	ıre)		Date	/Tim	ie		Par	narks:						
Relinquished b	y: (Signatu	ге)	D	ate / Time		Received (Signature	for Laborat )	ory by:	20	Date	/Tim	ıe		IXCI	ndi R3 -						

APPENDIX D
STATEMENT OF QUALIFICATION

# APPENDIX C

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ZONE 7 WELL INSTALLATION PERMIT

88/31 9/ 11:07

2 415 420 1707

ASELINE

P.83

A Z	ON	
327	MOUNT	eti (C)

#### ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 5997 FARKSIDE DRIVE PLEASANTON, CALIFORNIA 94586 (415) 484-2800

COUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMP	EF
-----------------------	----

( )	Oakland, Celifornia
	OLIENT Name Port of Oakland Address 530 Water Street Phone 272-1100 City Oakland, CA zip 94507
(5)	APPLICANT Name BASELINE Environmental Consulting
	Address 5000 Hollis St. "D" Phone 420-8686 City Emeryville, CA Zip 94608
(4)	DESCRIPTION OF PROJECT Water Well Construction General Well Destruction Contemination X
(5)	PROPOSED WATER WELL USE Domestic Industrial irrigation Municipal Monitoring Other
	PROPOSED CONSTRUCTION Drilling Method: Mud Rotery Air Rotery Auger X Oeble Other
	DRILLER'S LICENSE NO. A. C-57 #487000
	WELL PROJECTS  Drill Hole Dismeter In. Maximum Casing Dismeter In. Depth 1t. Surface Sesi Depth 11, Number
;	GEOTECHNICAL PROJECTS  Number of Borings 15  Hole Diemeter 8 in. Depth 10 ft.
(7)	ESTIMATED STARTING DATE 6 September 1000

# FOR OFFICE USE

PERMIT NUMBER LOCATION NUMBER

PERMIT CONDITIONS

Circled Fermit Requirements Apply

A. GENERAL

- (1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
- 2. Submit to Zone 7 within 60 days after completion of permilitud work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
- (3.) Permit is void if project not begun within 90 days of approval date.
- B. WATER WELLS, INCLUDING PIEZOMETERS
  - 1. Minimum surface seel thickness is two inches of comuni grout placed by tremis.
  - 2. Minimum seal depth is 50 feet for municipal and industrial walls or 20 feet for domestic, irrigation, and monitoring wells unless a lesser depth is specially approved.
- (C.) GEOYECHNICAL, Beckfill bore hole with compacted cuttings or heavy benionite and upper two feet with compacted material. In areas of known or suspected contamination, transed cament grout shall be used in piece of compected cuttings.
- D. CATHODIC. Fill hole above anode zone with concrete placed by fromlo.
- E. WELL DESTRUCTION. See attached.

6 September 1990 ESTIMATED COMPLETION DATE 7 September 1990

(8) I hereby agree to comply with all requirements of this permit and Alemeda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE

# APPENDIX D

SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION PERMIT

#### YANE NORDHAV

Yane Nordhav is the principal of Baseline Environmental Consulting. She is a registered geologist in California with a Masters of Science degree in geology. She has more than twelve years of experience in the environmental and hydrogeology fields. She is the principal-in-charge for BASELINE projects related to hazardous materials management, including soil and groundwater investigations, development of remedial actions, and site assessments.

As principal investigator, she has managed and conducted groundwater investigations on major Superfund sites involving sampling activities, monitoring well installations, and delineation of extent of contaminant plumes, and quality control/quality assurance programs.

For private clients, she has been the project manager for similar investigations within the semi-conductor industry and various other industries; these investigations involved contaminant characterization, development and implementation of remedial actions, and extensive regulatory agency coordination and negotiations.

Through her work, she has developed extensive working knowledge of

regulatory requirements and established working relationships with regulatory agency staff on the state and local levels.

Ms. Nordhav is the principal manager for work related to obtaining land use and TSD facility permits for industrial clients, including manufacturers using or generating hazardous wastes and major hazardous waste disposal facility owners/operators.

In addition, Ms. Nordhay has been the project manager for the preparation of major environmental documents in California, including EIRs for controversial projects, ranging from open pit mines, hazardous waste disposal facilities, and housing projects. She was the project manager for the Homestake McLaughlin Gold Mine EIR/EIS, which received the 1983 award from the Association of Environmental Professionals as the Outstanding Environmental Document of the year.

## **Professional Registrations**

Registered Geologist, California No. 4009

Registered Environmental Assessor No. 722

#### **Professional Affiliations**

Association of Engineering Geologists, San Francisco Chapter

Association of Women Geoscientists

Association of Environmental Professionals

#### Presentations and Publications

"The Long Journey from Discovery to Clean-Up of Superfund Sites", presented at the Annual Meeting of Association of Engineering Geologist, Boston, MA, 1984; published in the Bulletin of the Association of Engineering Geologists, Vol. 12:2, May 1986.

"Closure and Clean-up of Underground Storage Tanks"; a one-day training course presented at HAZMACON 1987 for Association of Bay Area Governments and to local implementing agencies throughout California for the State Water Resources Control Board.

#### SITE SAFETY PLAN

<u>Project No.</u>: S9-171 <u>Field Activities Date</u>: Drum sampling and removal - 1/90;

Soil sampling and removal, pending

BCDC permit - 2/90

Client: Port of Oakland Address: 77 Jack London Square, Oakland, CA

Contact Person: Michele Heffes Telephone No.: (415) 839-2656

Job Location: Seabreeze Yacht Center, 280 6th Avenue, Oakland, CA

<u>Project Description</u>: Characterization of subsurface soil contamination, sampling of drum contents, and disposal of drums. Soil and drum sampling will be performed by subcontractors. BASELINE will provide oversight of sampling of soils, drums, and containers. Drum contents will be evaluated using Haz Cat procedure and laboratory analysis. Subcontractors will submit proof of site safety plan and employee training before field activities, but plans will not be evaluated by BASELINE. Contractors will be responsible for safety of their employees.

Project Manager: Teresa Anaya Site Health & Safety Manager: Irene Kan

<u>Site History</u>: Site has been a boat yard since the early 1900s. Alameda County Hazardous Materials Division sampled soil and found hazardous waste levels of copper and high levels of nickel, tin, and lead. County requested characterization of site, which is owned by Port. Site contains numerous drums that contain liquid material.

# Chemical Hazards:

CHEMICAL NAME	DESCRIPTION	HEALTH & SAFETY STANDARDS <sup>1</sup>	PERSONS EXPOSED <sup>2</sup> AND POTENTIAL ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE
Tri-butyl tin	Organo-tin	NIOSH recommended TWA=0.1 mg/m <sup>3</sup>	Dermal (highly toxic), inhalation	Respiratory arrest, irritation
Lead	Inorganic metal, suspected carcinogen	0.05 mg/m <sup>3</sup> - use high efficiency filter with respirator	Inhalation, ingestion	Symptoms occur with chronic exposure
Solvents	Volatile chemical compounds; can be carcinogenic; specific chemicals unknown	Chemical-specific; use organic vapor cartridge with respirator	Inhalation, dermal	Dizziness, headache, disorientation, nausea
Copper	Metal	TLV=1 mg/m <sup>3</sup> ; use high efficiency filter with respirator	Inhalation, dermal, ingestion	Skin and respiratory irritation

(continued)

# SITE SAFETY PLAN - continued

CHEMICAL NAME	DESCRIPTION	HEALTH & SAFETY STANDARDS <sup>1</sup>	PERSONS EXPOSED <sup>2</sup> AND POTENTIAL ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE
Nickel	Metal, carcinogen	TLV=1 mg/m <sup>3</sup> ; use high efficiency filter with respirator	Inhalation, dermal, ingestion	Allergic reaction, skin irritation
Diesel	Flammable liquid	No TLV	Dermal	Minor skin and eye irritation
Oil and grease	Generic	None	Dermal	Skin irritation
Hydrochloric acid	Corrosive	TLV=5 ppm	Inhalation, dermal	Burns to eyes and skin; nose and throat irritation

I Standards refer to airborne concentrations to which nearly all workers may be repeatedly exposed daily without harmful effects. The concentrations are time-weighted averages for a normal 8-hour work period.

Contractor and sampling personnel.

Physical Hazards: Fire and explosion, scrap metal and debris, splashing liquids.

<u>Personal Protective Equipment Required</u>: Tyvek overalls, nitrile gloves, rubber boots, safety glasses, first aid kit, airpurifying respirator with high efficiency filter and organic vapor cartridge (for use during drum, container, and soil sampling), hard hat.

Air Monitoring Strategy (including action levels): Monitor general work area using HNU; contractor should monitor drums during sampling using HNU. At greater than 5 ppm above background, use air-purifying respirator. Monitor general work area using LEL meter. At greater than 0% LEL in general work area, stop work and identify source of combustible vapors. Notify Irene Kan for further instructions. If HNU indicates high concentrations in a drum, let drum contents air out, remonitor with LEL meter and HNU. Do not sample until LEL meter records 0% and HNU measures less than 30 ppm above background. BASELINE should not participate in drum opening or sampling (sample handling is permitted).

Site Control Measures: Store soil cuttings, decontamination rinse water, and contaminated personal protective gear (e.g., Tyveks) in labeled, locked drums. Arrange for disposal of same upon receipt of lab analyses for corresponding samples. Underground Service Alert will be contacted to get clearance before sampling. Site is fenced and gate will be locked during nonworking hours. Public will be restricted from sampling areas. All soil borings will be grouted after samples are collected. Drinking water located at Seabreeze warehouse and cafe. Clean area and contaminated area will be designated. Copy of Site Safety Plan will be sent to subcontractors.

<u>Decontamination Procedures (personal and equipment)</u>: Steam clean drilling augers between each boring; decontaminate soil sampling equipment with TSP; rinse equipment with deionized water. Contain rinse waters in temporary basin; store in labeled, locked drum. Store disposable sampling equipment in labeled, locked drum. Place disposable personal protective gear in plastic bag in locked drum at end of each day. Wash boots, respirators, safety glasses with TSP and rinse. Store rinse water in locked drum. Wash hands before leaving site.

# SITE SAFETY PLAN - continued

Hospital/Clinic: Peralta Hospital

**Phone**: (415) 491-4900

Hospital Address: 450 30th Street, Oakland, CA

Paramedic: 911

Fire/Police Dept.: 911

Emergency Procedures: Notify Yane Nordhav or Irene Kan in an emergency: (415) 420-8686.

Prepared by: Irene Kan Jan Kan

Reviewed/Approved by:

Date: 1/10/90

Date:

Read by: My Anay

Date:

Read by:

Date:

Read by:

Date:

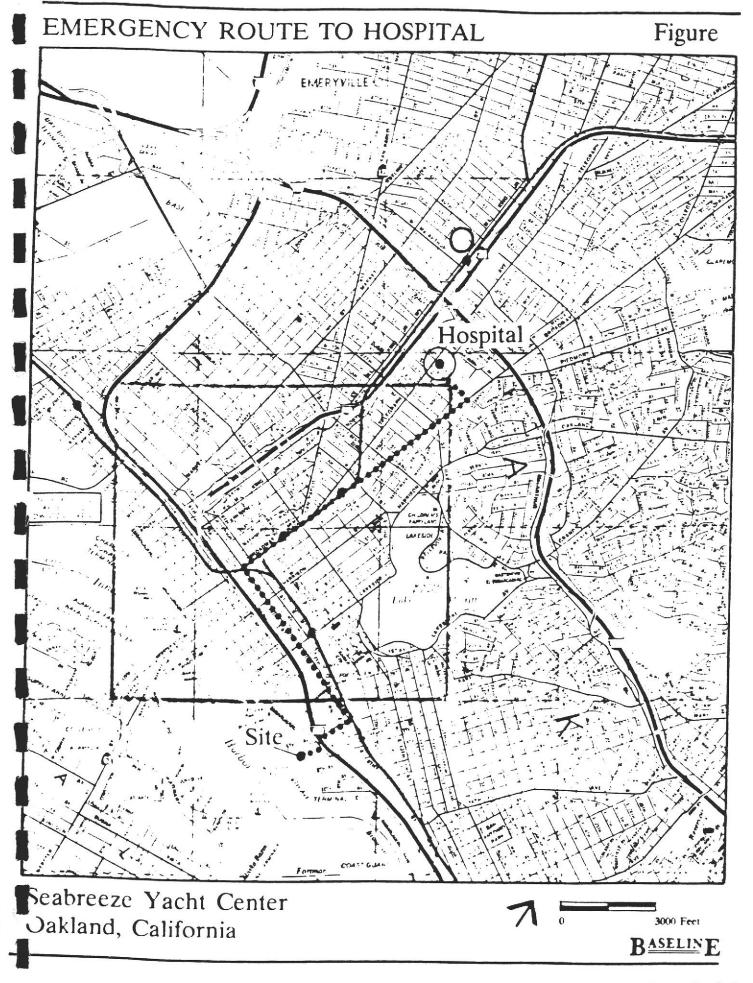
(See page 4 for map to hospital.)

Hospital/Clinic: Peralta Hospital

Telephone No.: (415) 451-4900

Hospital Address: 450 30th Street, Oakland, CA

Directions: Proceed north on 5th, west on 7th, north on Broadway, and west on 39th.



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# SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION

THIRTY VAN NESS AVENUE, SUITE 2011 AN FRANCISCO, CA 94102-6080 HONE: (415) 557-3686



March 21, 1990

Port of Oakland 66 Jack London Square Oakland, California 94607-3798

ATTENTION: Neil Werner,

Port Environmental Compliance

SUBJECT: BCDC Permit No. M90-6

Gentlemen:

MAR 23 1990

MAR 23 1990

MAR 23 1990

MAR 23 1990

Ludstrom

port of Oakland

ENVIRONMENTAL DIVISION

Enclosed please find an original permit, stamped "BCDC Original," and a copy, stamped "Permittees' Copy," executed by the Executive Director, of BCDC Permit No. M90-6. The permit is not in effect until you have (1) completed the acknowledgment section of the permit stamped "BCDC Original," which indicates that you both have read and that you understand all of the terms and conditions of the permit, and (2) returned the entire "BCDC Original" to the Commission's office within the ten-day time period. The copy stamped "Permittees' Copy" should be retained by you for your records along with the Notice of Completion and Declaration of Compliance form which you must return to us upon project completion. Attached is a checklist to assist you in following the correct procedures.

If you have any questions concerning the permit or the procedure outlined above, please contact me.

Very truly yours,

JOAN L. LUNDSTROM

Permit Analyst

Enc. JLL/rr

cc: Alameda County Department of Environmental Health

# SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION

THIRTY VAN NESS AVENUE, SUITE 2011 SAN FRANCISCO, CA 94102-6080 PHONE: (415) 557-3686





PERMIT NO. M90-6

March 21, 1990

Port of Oakland 66 Jack London Square Oakland, California 94607-3798

Gentlemen:

## Authorization

A. Subject to the conditions stated below, the permittee, the Port of Oakland, is hereby authorized to do the following:

Location: In the Bay and within the 100-foot shoreline band, on the norther shore of Alameda Estuary, at Clinton Basin within the former Seabreeze Yacht Center, at 286 Sixth Avenue in the City of Oakland, Alameda County.

Description:

Conduct a remedial investigation for soil contamination at the former yacht harbor by: (1) removing a 160-square-foot floating gangway and installing portions of a temporary chain link fence around the site to protect the public from possible exposure to contaminants during the investigation; (2) installing a 150-square-foot temporary floating walkway to provide alternative access to docks previously accessed via the gangway to be removed; and (3) taking soil samples to test for hazardous wastes.

- B. This authority is generally pursuant to and limited by your application dated January 29, 1990, including its accompanying exhibits, and all conditions of this permit.
- C. Work authorized herein must commence prior to September 1, 1990, or this permit will lapse and become null and void. Such work must also be diligently pursued to completion and must be completed by March 1, 1991, whichever is earlier, unless an extension of time is granted by amendment of this permit.

# II. Special Conditions

The authorization made herein shall be subject to the following special condition, in addition to the standard conditions in Part IV:

A. <u>Debris Removal</u>. All construction debris shall be removed to a location outside the jurisdiction of the Commission. In the event that any such material is placed in any area within the Commission's jurisdiction, the permittee, its assigns, or successors in interest, or the owner of the improvements, shall remove such material, at its expense, within ten days after it has been notified by the Executive Director of such placement.

# III. Findings and Declarations

On behalf of the Commission, I find and declare that:

- A. The project authorized by this permit involves the installation of a 150-square-foot floating walkway which is no larger than the construction of a new single boat dock of 1,000 square feet as defined in Regulation Section 10601(a)(4); (2) the taking of soil samples to test for hazardous wastes which involves the extraction of small amounts of material in a manner that does not have a significant adverse effect on present or possible future maximum feasible public access to the Bay consistent with the project as defined in Regulation Section 10601(b)(1); and (3) the installation of a temporary chain link fence, which involves the placement of small amounts of inert inorganic fill in a manner that does not have a significant adverse effect on present or possible future maximum feasible public access to the Bay consistent with the project, or on present or possible future use for a designated priority water-related use, or on the environment, as defined in Regulation Section 10601 (b)(1).
- B. The temporary placement of a chain link fence around the site will not affect public access along the shoreline as no public access pathways exist at this location. The soil analysis is being conducted in response to an order issued by the Alameda County Department of Environmental Health to investigate heavy metal soil contamination detected on the site. Future remediation of any contamination would reduce the possible threat to public health of anyone walking along the shoreline at this location, thereby benefitting possible future public access.
- C. The project authorized by this permit is consistent with the McAteer-Petris Act and with the San Francisco Bay Plan in that it will not adversely affect the Bay nor public access to and enjoyment of the Bay.
- D. The Commission further finds, declares, and certifies that the activity or activities authorized herein are consistent with the Commission's Amended Management Program for San Francisco Bay, as approved by the Department of Commerce under the Federal Coastal Zone Management Act of 1972, as amended.

- E. Pursuant to Regulation Section 11501, the project authorized by this permit is categorically exempt from the requirement to prepare an environmental impact report.
- F. Pursuant to Regulation Section 10620, the original project was listed with the Commission on March 15, 1990.

## IV. Standard Conditions

- A. All required permissions from governmental bodies must be obtained before the commencement of work; these bodies include, but are not limited to, the U. S. Army Corps of Engineers, the State Lands Commission, the Regional Water Quality Control Board, and the city and/or county in which the work is to be performed, whenever any of these may be required. This permit does not relieve the permittee of any obligations imposed by State or Federal law, either statutory or otherwise.
- B. The attached Notice of Completion and Declaration of Compliance form shall be returned to the Commission within 30 days following completion of the work.
- C. Work must be performed in the precise manner and at the precise locations indicated in your application, as such may have been modified by the terms of the permit and any plans approved in writing by or on behalf of the Commission.
- D. Work must be performed in a manner so as to minimize muddying of waters, and if diking is involved, dikes shall be waterproof. If any seepage returns to the Bay, the permittee will be subject to the regulations of the Regional Water Quality Control Board in that region.
- E. The rights derived from this permit are assignable as provided herein. An assignment shall not be effective until the assignee shall have executed and the Commission shall have received an acknowledgment that the assignee has read and understood the application for this permit and the permit itself and agrees to be bound by the terms and conditions of the permit, and the assignee is accepted by the Executive Director as being reasonably capable of complying with the terms of the permit.
- F. Unless otherwise provided in this permit, all the terms and conditions of this permit shall remain effective for so long as the permit remains in effect or for so long as any use or construction authorized by this permit exists, whichever is longer.
- G. Unless otherwise provided in this permit, the terms and conditions of this permit shall bind all future owners and future possessors of any legal interest in the land and shall run with the land.

- H. Unless otherwise provided in this permit, any work authorized herein shall be completed within the time limits specified in this permit, or, if no time limits are specified in the permit, within three years. If the work is not completed by the date specified in the permit, or, if no date is specified, within three years from the date of the permit, the permit shall become null and void. If this permit becomes null and void for a failure to comply with these time limitations, any fill placed in reliance on this permit shall be removed by the permittee or its assignee upon receiving written notification by or on behalf of the Commission to remove the fill.
- I. Except as otherwise noted, violation of any of the terms of this permit shall be grounds for revocation. The Commission may revoke any permit for such violation after a public hearing held on reasonable notice to the permittee or its assignee if the permit has been effectively assigned. If the permit is revoked, the Commission may determine, if it deems appropriate, that all or part of any fill or structure placed pursuant to this permit shall be removed by the permittee or its assignee if the permit has been assigned.
- J. This permit shall not take effect unless the permittee execute the original of this permit and return it to the Commission within ten days after the date of the issuance of the permit. No work shall be done until the acknowledgment is duly executed and returned to the Commission.
- K. Any area subject to the jurisdiction of the San Francisco Bay Conservation and Development Commission under either the McAteer-Petris Act or the Suisun Marsh Preservation Act at the time the permit is granted or thereafter shall remain subject to that jurisdiction notwithstanding the placement of any fill or the implementation of any substantial change in use authorized by this permit.
- L. Any area not subject to the jurisdiction of the San Francisco Bay Conservation and Development Commission that becomes, as a result of any work or project authorized in this permit, subject to tidal action shall become subject to the Commission's "bay" jurisdiction up to the line of highest tidal action.
- M. Unless the Commission directs otherwise, this permit shall become null and void if any term, standard condition, or special condition of this permit shall be found illegal or unenforceable through the application of statute, administrative ruling, or court determination. If this permit becomes null and void, any fill or structures placed in reliance on this permit shall be subject to removal by the permittee or its assignee if the permit has been assigned to the extent that the Commission determines that such removal is appropriate. Any uses authorized shall be terminated to the extent that the Commission determines that such uses should be terminated.

Executed at San Francisco, California, on behalf of the San Francisco Bay Conservation and Development Commission on the date first above written. ALAN R. PENDLETON Executive Director Enc. 0143r-03/21/90 ARP/JLL/rr U. S. Army Corps of Engineers, Attn: Regulatory Functions Branch San Francisco Bay Regional Water Quality Control Board, Attn: Certification Section Environmental Protection Agency, Attn: Tom Yokum, P-5 Alameda County Department of Environmental Health Receipt acknowledged, contents understood and agreed to: Oakland, California Port of Oakland Executed at Applicant March 26, 1990

By:

Port Planning

Title

PERMIT NO. M90-6

PORT OF OAKLAND

(Permittee)

(Title)

# NOTICE OF COMPLETION AND DECLARATION OF COMPLIANCE

San Francisco Bay Conservation and Development Commission Thirty Van Ness Avenue, Room 2011 San Francisco, CA 94102					
Gentlemen:					
You are hereby informed that the work authorized by the above-referenced permit was completed on					
I have personally reviewed the terms and conditions of the permit, the final plans approved by or on behalf of the Commission, and the completed project and hereby certify that the project is in compliance with all terms and conditions of the permit and conforms to the plans previously reviewed and approved by or on behalf of the Commission. I further certify that all conditions of the permit, particularly with regard to plan review, public access areas and improvements, recordation, open space restrictions and other special conditions have been met.					
I,, hereby declare under penalty of					
perjury that the foregoing is true and correct and that if called upon to testify to the contents of this notice, I would so testify.					
Executed on this day of, 19, at, California.					

Location Driller Method Logger	Aqua Science Hollow-sterr	Dakland  te Engineers, San Ramon  n, continuous flight  DatumN/A Bore size 8-inch	Boring No. SB-1 Project No. S9-171 Date 9/6/90
Depth	Graphic	Lithology	Casing size N/A  Notes
•	SC 150 A		
0	012002 BARANCA	Asphalt top	18-16-11
1	∭ GW	Reddish-brown, sandy GRAVEL, damp (fill)	
2	SC	Very dark gray, gravelly sandy CLAY, medium-low plasticity, Angular gravel, moist (fill)	
3		Red and pale yellow brick piecing, with SAND (fill)	8-17-32
4	∭ SC	moist, 3.25-4.25 feet	
<b>±</b> 5	- SC	Very dark gray, silty CLAY, wet (Bay mud)	
6			
7		Total depth = 6.5 feet	
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

# **DRILLING LOG**

Location	Seabreeze, Oakland		Boring No.	SB-2
Driller	Aqua Science Engineers, San Ramon		Project No.	S9-171
Method	Hollow-stem, continuous flight		Date	9/6/90
Driller Method Logger	WKS Datum Bore size	8-inch	Casing size	N/A
Depth	Graphic Lithology		Notes	

Method Logger		n, continuous flight  Datum Bore size 8-inch	Date 9/6/90 Casing size N/A
Depth	Graphic	Lithology	Notes
0		Asphalt top	33-25-45
1	Ⅲ Ⅲ GW	Reddish brown, sandy GRAVEL, damp-dry, base rock (fill)	
2			
3		Very dark gray, greenish gray gravelly sandy CLAY, moist, subangular-angular gravel, ½-1 inch diameter, medium plasticity	Became easy; 7-16-50 for 4.5 inches Brick pieces
4	- ¢c	Brown, silty clayey GRAVEL, medium plasticity, moist, subangular-angular gravel, ½-1 inch diameter	7-12-5
5		Moisture increases	
6		Total depth = 6.0 feet.	
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

Location Driller Method Logger	Aqua Science Hollow-stem	ce Engineers, San Ramon n, continuous flight	Boring No. SB-3 Project No. S9-171 Date 9/6/90 Casing size N/A
Depth	Graphic	Lithology	Notes
0		Yellowish brown, sandy GRAVEL, base rock (fill), dr	у
1			17-16-15
2	G <b>w</b>	Increase in clay content and moisture	5-3-4-7
3			
4 ▼		Total depth = 4.0 feet	
5		×	
6			
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

Location Oriller		Oakland ce Engineers, S	San Ramon		Boring Project	No. SB-4 No. S9-171
Method		m, continuous			Date _	
Logger	WKS	Datum	Bore size	8-inch	Casing	size N/A
Depth	Graphic		Lithology		1	Notes
0	cw	Brown, sand	ly GRAVEL, dry, su	brounded-round		8-26-24
1	III OLIGE		ray, sandy gravelly C rick pieces (fill)	LAY/clayey GR		6-20-24
2			wn, sandy clayey GF ½ inch, (fill)	AVEL, moist,		
3	T GC				1	5-5-3
4						
5			ces at contact of Bay		nd	
6		lenses (Bay				
7		Total depth	= 6.5 feet			
8						
9						
10						

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

			(113) 120 0000
Location	Seabreeze, C	Dakland	Boring No. SB-5
Driller		e Engineers, San Ramon	Project No. S9-171
Method	Hollow-stem	n, continuous flight	Date9/6/90
Logger	WKSI	Datum Bore size <u>8-inch</u>	Casing size N/A
Depth	Graphic	Lithology	Notes
0	ĞŴ	Yellowish-brown, sandy GRAVEL, damp-dry (fill)	24-30-36
1	GP	Reddish-brown, clayey sandy GRAVEL, damp-moist (fill)	
2	GC	Dark greenish-gray, sandy clayey GRAVEL, moist, subangular-angular, ½-¾ inch diameter (crushed)	12-15-17
3	ML	Very dark gray, gravelly clayey SILT, moist	
4		SILT, coarse, low plasticity, minor gravel, 1/4-1/2 inch diameter, subrounded	Possible forming sand from smelter
5		Total depth = 4.5 feet	
6			
7		9	
8			

Scale: 1 inch = 1.5 feet

10

(10/15/90)

Signature\_\_\_\_

# **DRILLING LOG**

				(110) 120 0000
Location			Boring No.	SB-6
Driller		e Engineers, San Ramon	Project No	
Method		n, continuous flight	Date	9/6/90
Logger	<u>WKS</u> D	Datum Bore size <u>8-inch</u>	Casing size _	N/A
Depth	Graphic	Lithology	Notes	
0	∭ GW	Yellowish-brown, sandy GRAVEL, damp-dry	23.7	no recovery of
1		Very dark gray, sandy clayey GRAVEL, moist, ½-¾	last foo	
2 ▼	∭ GC	inch diameter, subangular, low plasticity (fill)	1-1-2-1	
3	<b>19</b>	Very dark gray, silty CLAY, wet, minor sand lenses (Bay mud)		
4		Total depth = 4.0 feet		
5				
6				
7				
8				
9				
10				

Scale: 1 inch = 1.5 feet (10/15/90)

Signature\_\_\_\_\_

Location	Seabreeze, (	Dakland	Boring No. SB-8
Driller	Aqua Scienc	ce Engineers, San Ramon	Project No. S9-171
Method		n, continuous flight	Date9/6/90
Logger	WKSI	Datum Bore size8-inch	Casing size N/A
Depth	Graphic	Lithology	Notes
0	ĠW	Yellowish-brown, sandy GRAVEL, damp-dry (fill)	Stain on top soil
1	∭ SC	Pale yellow, clayey SAND, fine-grained, moist (fill)	18-25-20
2	(S)	Very dark gray, gravelly CLAY, moist, low-medium plasticity, subangular gravel, ½ inch diameter (fill)	Tar chips from roofing material and brick pieces 8-10-6-5
3 ▼		Dark greenish-gray, silty CLAY, moist-wet (Bay mud)	
4		Total depth = 4.0 feet	
5	æ		
6			
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

Location Driller Method Logger	Aqua Scienc Hollow-stem	Dakland te Engineers, San Ramon t, continuous flight Datum Bore size 8-inch	Boring No. SB-9 Project No. S9-171 Date 9/6/90 Casing size N/A
Depth	Graphic	Lithology	Notes
0		Yellowish-brown, sandy GRAVEL, damp-dry (fill)	
1	sw iii	Yellowish-brown, silty SAND, damp (fill)	25-25-17
2			10-10-10-10
3	(CL)		
4 ₹		Dark greenish-gray, gravelly silty CLAY, moist, rootlets, medium plasticity, subangular gravel, 1/4-1/2 inch diameter	
5		Total depth = 4.0 feet	
6			
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

Location Driller			Boring No. SB-10
Method		e Engineers, San Ramon	Project No. <u>S9-171</u>
Logger		n, continuous flight  Datum Bore size8-inch	Date 9/6/90
Logger	VASI	Datum Bore size 8-inch	Casing sizeN/A
Depth	Graphic	Lithology	Notes
0	sc	Yellowish-brown SAND, fine-grained, damp-dry (fill)	Large concrete pieces and blocks
1			30-38-25
2		Olive grove grovelly player CAND make fire to	10 10 10 10
3	SC III	Olive-gray, gravelly clayey SAND, moist, fine- to medium-grained (fill)	10-10-10-10  Large brick pieces and
			wood chips
4			
4		Total depth = 4.0 feet	
5			
6			
7			
8			
9			

Scale: 1 inch = 1.5 feet

10

(10/15/90)

Signature\_\_\_\_

T	0.1			
Location Driller				ng No. <u>SB-11</u>
Method	Aqua Science Engineers, San Ramon Pr Hollow-stem, continuous flight Da			ect No. <u>\$9-171</u> 9/7/90
Logger				ng size N/A
		2010 0.00		10/11
Depth	Graphic	Lithology		Notes
0	GW	Yellowish-brown, sandy GRAVEL, dry (fill)		Wood and metal pieces
1	∭ sc	Dark brown, gravelly clayey SAND, moist (fill)		11-11-26
2				
3 ▼		Greenish-gray, silty CLAY, medium- to high-plasticit rootlets, moist-wet, some interbedded sand lenses	у,	3-4-5, cement and asphalt pieces at 3.0 ft
4		(Bay mud)  Total depth = 4.0 feet		
5				
6				
7				
8		,		
9				
10				

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

Location Driller Method Logger	Aqua Science Hollow-stem	Oakland  ce Engineers, San Ramon  n, continuous flight  Oatum Bore size8-inch	Boring No.         SB-12           Project No.         S9-171           Date         9/7/90           Casing size         N/A
Depth	Graphic	Lithology	Notes
0		Light gray, gravelly SAND (fill)	8-13-20, concrete and asphalt pieces
1	<b>Ⅲ</b> sw		азрнан ріссся
2	— ew	Reddish-brown, clayey sandy GRAVEL, damp (fill)	
3 ▼	<b>a</b>	Greenish-gray to very dark gray, gravelly sandy CLAY, moist-wet (Bay mud?)	4-8-6, wood and glass pieces
4		Total depth = 3.5 feet	
5			
6			
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

BASELINE 5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

Location	Seabreeze, (	Dakland	Boring No. SB-13
Driller		ce Engineers, San Ramon	Project No. S9-171
Method		n, continuous flight	Date 9/7/90
Logger	WKS I	Datum Bore size <u>8-inch</u>	Casing size N/A
Depth	Graphic	Lithology	Notes
0	૽૽૾ૢૺ૾ૢ૽૾ૼ <b>GW</b> ૺ૾૽૾ૺ	Light yellowish-brown, sandy GRAVEL, dry (fill)	11.10.10
1	III Sc	Very dark brown, gravelly clayey SAND, moist (fill)	11-10-13, some brick pieces
2			
<sup>3</sup> ▼		Greenish-gray, silty CLAY, medium plasticity, wet (Bay mud)	10-10, no recovery
4	<b>C</b>		
5		Total depth = 4.5 feet	
6			
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

Page 1 of 1

BASELINE 5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

Location Driller Method Logger	Aqua Science Hollow-stem	Dakland  e Engineers, San Ramon  n, continuous flight  Datum Bore size8-inch	Boring No.         SB-14           Project No.         S9-171           Date         9/7/90           Casing size         N/A
Depth	Graphic	Lithology	Notes
0	GW	Reddish-brown, sandy GRAVEL, dry (fill)  Light gray-olive, SAND, fine-grained, moist (fill)	10-27-17
1			
2		Brown interbedding of silty CLAY at 2.5 feet,	20-6-9
3 ▼	CL////	≈ 3 inches thick	20-0-9
4		Total depth = 3.5 feet	
5			
6			
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_\_

Page 1 of 1

BASELINE 5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

Location Driller Method Logger	Aqua Science Hollow-stem	Dakland  ce Engineers, San Ramon  n, continuous flight  Datum Bore size8-inch	Boring No. SB-15 Project No. S9-171 Date 9/7/90 Casing size N/A
Depth	Graphic	Lithology	Notes
0		Olive to dark olive SAND, fine-grained, damp (fill)	Diesel stain on surface Petroleum odor
1	III SP		6-7-10
2			
3		Same as above, increase in moisture at 3.5-4.0 feet	Petroleum odor 8-5-5
4 ≖		Dark brown gravelly CLAY, moist-wet, medium plasticity, ½-inch subangular gravel	
5		Total depth = 4.5 feet	
6			
7			
8			
9			
10			

Scale: 1 inch = 1.5 feet

(10/15/90)

Signature\_\_\_\_

Page 1 of 1

# APPENDIX F LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS



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

2323 Fifth Street, Berkeley, CA 9471O, Phone (415) 486-0900

## RECEIVED

SEP 2.7 1990

BASEINE

DATE RECEIVED: 09/06/90

DATE REPORTED: 09/21/90

LAB NUMBER: 101598

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 28 SOIL SAMPLES

PROJECT #: S9-171 LOCATION: SEABREEZE

RESULTS: SEE ATTACHED

Berkeley

Wilmington

Los Angeles



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/11/90
DATE REPORTED: 09/11/90

DATE REPORTED: 09/21/90

ANALYSIS: CADMIUM

ANALYSIS METHOD: EPA 7130

LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
101598-1 101598-2 101598-3 101598-4 101598-5 101598-6 101598-7 101598-8 101598-1 101598-1	SB - 2 SB - 2 SB - 2 SB - 1 SB - 1 SB - 1 SB - 4 SB - 4 SB - 4	0.5-1.0 1.0-1.5 3.0-3.5 5.0-5.5 0.5-1.0 1.0-1.5 3.5-4.0 0.5-1.0 1.0-1.5 3.5-4.0	ND 0.5 ND ND ND	mg/Kg	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
101598-13 101598-13 101598-14	3 SB-5	1.0-1.5 3.5-4.0 0.5-1.0	ND ND ND	mg / Kg mg / Kg mg / Kg	0.5 0.5 0.5

ND = Not detected at or above reporting limit.

RPD, %	2
RECOVERY, %	93



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/11/90

DATE REPORTED: 09/21/90

ANALYSIS: CADMIUM

ANALYSIS METHOD: EPA 7130

LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
101598-1		1.0-1.5	ND	mg/Kg	0.5
101598-1	[10]	3.5-4.0	ND	mg/Kg	0.5
101598-1		0.5-1.0	1.6	mg/Kg	0.5
101598-1	8 SB-6	2.0-2.5	ND	mg/Kg	0.5
101598-1	9 SB-7	1.0-1.5	ND	mg/Kg	0.5
101598-2	0 SB-8	0.5-1.0	0.8	mg/Kg	0.5
101598-2	1 SB-8	1.0-1.5	ND	mg/Kg	0.5
101598-2	2 SB-8	2.5-3.0	ND	mg/Kg	0.5
101598-2	3 SB-9	0.5-1.0	ND	mg/Kg	0.5
101598-2	4 SB-9	1.0-1.5	ND	mg/Kg	0.5
101598-2	5 SB-9	3.5-4.0	ND	mg/Kg	0.5
101598-2	6 SB-10	0.5-1.0	) ND	mg/Kg	0.5
101598-2	7 SB-10	1.0-1.5	5 ND	mg/Kg	0.5
101598-2	8 SB-10	3.0-3.5	5 ND	mg/Kg	0.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %
RECOVERY, %
93



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/11/90 DATE REPORTED: 09/21/90

ANALYSIS: CHROMIUM

ANALYSIS METHOD: EPA 7190

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LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
101598-1 101598-2		0.5-1.0	ND	mg/Kg	2.5
101598-3	SB - 2	3.0-3.5	ND 18	mg /Kg mg /Kg	2.5 2.5
101598-4 101598-5	SB - 1	5.0-5.5 0.5-1.0	4.5 9.1	mg/Kg mg/Kg	2.5 2.5
101598-6 101598-7	SB-1	1.0-1.5 3.5-4.0	14 ND	mg / Kg mg / Kg	2.5 2.5
101598-8 101598-9	SB - 4	0.5 - 1.0 $1.0 - 1.5$	$\frac{11}{6.7}$	mg / Kg mg / Kg	2.5 2.5
101598-10 101598-11	SB - 5	3.5-4.0 0.5-1.0	3.5	mg / Kg mg / Kg	2.5 2.5
101598-12 101598-13	SB - 5	1.0-1.5 3.5-4.0	ND 13	mg / Kg mg / Kg	2.5 2.5
101598-14	SB - 3	0.5-1.0	ND	mg/Kg	2.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %

RPD, %
RECOVERY, %
100



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/11/90

DATE REPORTED: 09/21/90

ANALYSIS: CHROMIUM

ANALYSIS METHOD: EPA 7190

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101598-15 101598-16 101598-17 101598-18 101598-19 101598-20 101598-21 101598-22 101598-23 101598-23	SB-3 1.0-1. SB-3 3.5-4. SB-6 0.5-1. SB-6 2.0-2. SB-7 1.0-1. SB-8 0.5-1. SB-8 1.0-1. SB-8 2.5-3. SB-9 0.5-1. SB-9 1.0-1.	5 ND 0 ND 0 22 5 6.6 5 19 0 9.1 5 20 0 20 0 36 5 9.2	mg / Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101598-25 101598-26 101598-27 101598-28	SB-9 3.5-4. SB-10 0.5-1 SB-10 1.0-1 SB-10 3.0-3	. 0 6 . 0 . 5 4 . 0	mg / Kg mg / Kg mg / Kg mg / Kg	2.5 2.5 2.5 2.5

ND = Not detected at or above reporting limit.

RPD, %	2		
RECOVERY, %	100		



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/11/90 DATE REPORTED: 09/21/90

ANALYSIS: COPPER

ANALYSIS METHOD: EPA 7210

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LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
101598-1 101598-3 101598-4 101598-5 101598-6 101598-7 101598-8 101598-9 101598-10 101598-11 101598-12	SB-2 SB-2 SB-2 SB-1 SB-1 SB-1 SB-4 SB-4 SB-4 SB-4	0.5-1.0 1.0-1.5 3.0-3.5 5.0-5.5 0.5-1.0 1.0-1.5 3.5-4.0 0.5-1.0 1.0-1.5 3.5-4.0 0.5-1.0	17 19 19 11 31 20 12 100 21 16 34 26 19	mg/Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101598-14	SB - 3	0.5-1.0	10	mg/Kg	2.5

ND = Not detected at or above reporting limit.

RPD, %	2
RECOVERY, %	97



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/11/90

DATE REPORTED: 09/21/90

ANALYSIS: COPPER

ANALYSIS METHOD: EPA 7210

LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING	LIMIT
101598-1	a second declaration (45)	1.0-1.5	12	mg/Kg	2.5	
101598-1 101598-1		3.5-4.0 $0.5-1.0$	$9.0 \\ 140$	mg/Kg	2.5	
101598-1	N SI COMMISSION ASSESSED	2.0-2.5	11	mg / Kg mg / Kg	2.5	
101598-1		1.0-1.5	37	mg/Kg	2.5	
101598 - 2		0.5-1.0	79	mg/Kg	2.5	
101598 - 2 101598 - 2		1.0-1.5 2.5-3.0	7.3 16	mg/Kg	2.5	
101598-2		0.5-1.0	18	mg / Kg mg / Kg	2.5 2.5	
101598-2		1.0-1.5	1 2	mg/Kg	2.5	
101598 - 2 101598 - 2		3.5-4.0	9.5	mg/Kg	2.5	
101598-2		0.5-1.0		mg / Kg mg / Kg	2.5	
101598-2	J. 1700 T. 170	3.0-3.5		mg/Kg	2.5	

ND = Not detected at or above reporting limit.

RPD, %	2
RECOVERY, %	97



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/11/90 DATE REPORTED: 09/21/90

O 10 (100) 1 ( O.S. 5) (100) (100)

ANALYSIS: NICKEL

ANALYSIS METHOD: EPA 7520

LAB	1 D	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
	598-1		0.5-1.0	ND	mg/Kg	2.5
0.000 0.000000 0.00	598-2		1.0-1.5	ND	mg / Kg	2.5
	598-3		3.0-3.5	27	mg/Kg	2.5
was blesser &	598-4		5.0-5.5	13	mg/Kg	2.5
	598-5	SB - 1	0.5-1.0	8.1	mg/Kg	2.5
	598-6	SB - 1	1.0-1.5	25	mg/Kg	2.5
	598-7	SB - 1	3.5-4.0	2.9	mg/Kg	2.5
1015	98-8	SB - 4	0.5-1.0	2 4	mg/Kg	2.5
	98-9		1.0-1.5	15	mg/Kg	2.5
1015	98-10	SB-4	3.5-4.0	6.6	mg/Kg	2.5
1015	98-11	SB - 5	0.5-1.0	19	mg / Kg	2.5
1015	98-12	SB - 5	1.0-1.5	ND	mg/Kg	2.5
1015	98-13	SB - 5	3.5-4.0	17	mg/Kg	2.5
1015	98-14	SB-3	0.5-1.0	ND	mg/Kg	2.5

ND = Not detected at or above reporting limit.



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/11/90 DATE REPORTED: 09/21/90

ANALYSIS: NICKEL

ANALYSIS METHOD: EPA 7520

LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
101598-1 101598-1 101598-1 101598-1 101598-2 101598-2	5 SB-3 6 SB-3 7 SB-6 8 SB-6 9 SB-7 0 SB-8	1.0-1.5 3.5-4.0 0.5-1.0 2.0-2.5 1.0-1.5 0.5-1.0	ND 2.5 120 21 27 14 20	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101598-2 101598-2 101598-2 101598-2 101598-2 101598-2	2 SB-8 3 SB-9 4 SB-9 5 SB-9 6 SB-10 7 SB-10	2.5-3.0 0.5-1.0 1.0-1.5 3.5-4.0 0 0.5-1.0 1.0-1.5 3.0-3.5	32 26 15 14 14 9.5	mg / Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5

ND = Not detected at or above reporting limit.

RPD, %	1
RECOVERY, %	99



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/11/90

DATE REPORTED: 09/21/90

ANALYSIS: LEAD

ANALYSIS METHOD: EPA 7420

LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
101598-1 101598-2 101598-3 101598-4 101598-5 101598-6 101598-7 101598-8 101598-1 101598-1 101598-1 101598-1	SB-2 SB-2 SB-2 SB-1 SB-1 SB-1 SB-4 SB-4 SB-4 SB-5 SB-5	0.5-1.0 1.0-1.5 3.0-3.5 5.0-5.5 0.5-1.0 1.0-1.5 3.5-4.0 0.5-1.0 1.0-1.5 3.5-4.0 0.5-1.0	ND ND 36 87 40 36 14 69 ND 14 6.5 ND	mg / Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101598-14	SB - 3	0.5-1.0	ND	mg/Kg	2.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %
RECOVERY, %
98



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/11/90
DATE REPORTED: 09/21/90

ANALYSIS: LEAD

ANALYSIS METHOD: EPA 7420

LAB ID SAM	PLE ID	RESULT	UNITS	REPORTING LIMIT
	B-3 1.0-1.5	3.0	mg/Kg	2.5
101598-16 S	B-3 3.5-4.0	2.5	mg/Kg	2.5
101598-17 S	B-6 0.5-1.0	650	mg/Kg	2.5
101598-18 S	B-6 2.0-2.5	ND	mg/Kg	2.5
101598-19 S	B-7 1.0-1.5	67	mg/Kg	2.5
101598-20 S	B-8 0.5-1.0	51	mg/Kg	2.5
101598-21 S	B-8 1.0-1.5	2.9	mg/Kg	2.5
101598-22 S	B-8 2.5-3.0	5.9	mg/Kg	2.5
101598-23 S	B-9 0.5-1.0	200	mg/Kg	2.5
101598-24 S	B-9 1.0-1.5	160	mg/Kg	2.5
	B-9 3.5-4.0	2.5	mg/Kg	2.5
	B-10 0.5-1.		mg/Kg	2.5
	B-10 1.0-1.		mg/Kg	2.5
	B-10 3.0-3.		mg/Kg	2.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/09/90

DATE REPORTED: 09/21/90

ANALYSIS: TIN

ANALYSIS METHOD: EPA 6010

\_\_\_\_\_\_

LAB ID	SAMPLE	ID	RESULT	UNITS	REPORTING LIMIT
101598-1 101598-2 101598-3 101598-4 101598-5 101598-6 101598-7 101598-8 101598-9 101598-10	SB-2 SB-2 SB-2 SB-1 SB-1 SB-1 SB-4 SB-4 SB-4	0.5-1.0 1.0-1.5 3.0-3.5 5.0-5.5 0.5-1.0 1.0-1.5 3.5-4.0 0.5-1.0 1.0-1.5 3.5-4.0	ND N	mg / Kg	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0
101598-12 101598-13 101598-14	SB-5	1.0-1.5 3.5-4.0 0.5-1.0	ND ND ND	mg / Kg mg / Kg mg / Kg	5.0 5.0 5.0

ND = Not detected at or above reporting limit.

RPD, %	<1
RECOVERY, %	98



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/09/90

DATE REPORTED: 09/21/90

ANALYSIS: TIN

ANALYSIS METHOD: EPA 6010

\_\_\_\_\_\_

LAB ID S	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101598-15 101598-16 101598-17 101598-18 101598-19 101598-20 101598-21 101598-22 101598-23 101598-23 101598-25 101598-25	SB-3 1.0-1.5 SB-3 3.5-4.0 SB-6 0.5-1.0 SB-6 2.0-2.5 SB-7 1.0-1.5 SB-8 0.5-1.0 SB-8 1.0-1.5 SB-8 2.5-3.0 SB-9 0.5-1.0 SB-9 1.0-1.5 SB-9 3.5-4.0 SB-10 0.5-1.	ND ND 11 ND	mg / Kg	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0
101598-28	SB-10 3.0-3.	5 ND	mg/Kg	5.0

ND = Not detected at or above reporting limit.

RPD, %	<1
RECOVERY, %	98



LABORATORY NUMBER: 101598-7 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-1 3.5-4.0

DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/12/90 DATE REPORTED: 09/21/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
ch l o r ome t han e	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	14	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromod i ch l orome t han e	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
dibromochloromethane	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

### QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	115%
Toluene-d8	115%
Bromofluorobenzene	95%



LABORATORY NUMBER: 101598-4 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-2 5.0-5.5

DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

## EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
ah lanamat kan i	ug/kg	Limit (ug/kg)
chloromethane bromomethane	ND	10
	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	12	10
carbon disulfide	5.1	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromod i chlorome than e	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - h e x a n o n e	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105%
Toluene-d8	115%
Bromofluorobenzene	93%



LABORATORY NUMBER: 101598-16 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-3 3.5-4.0

DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/12/90

DATE REPORTED: 09/21/90

## EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromod i chlorome than e	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - h e x a n o n e	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

#### QA/QC SUMMARY: SURROGATE RECOVERIES

1, 2 - Di ch l or o e t han e - d 4

To l u e n e - d 8

109%

98%

Bromofluorobenzene

104%



LABORATORY NUMBER: 101598-10 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-4 3.5-4.0

DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
ch l o r ome t han e	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	29	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - but anone	DETECTED(7.4)	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromod i chlorome than e	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	9.0	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	12	5.0

ND = Not detected at or above reporting limit

#### QA/QC SUMMARY: SURROGATE RECOVERIES

1, 2-Dichloroethane-d4 105%

1, 2-Dichloroethane-d4105%Toluene-d8110%Bromofluorobenzene79%



LABORATORY NUMBER: 101598-13 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-5 3.5-4.0

DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/12/90 DATE REPORTED: 09/21/90

## EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	79	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	2 2	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome than e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - h e x a n o n e	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

#### QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100%
Toluene-d8	110%
Bromofluorobenzene	93%



LABORATORY NUMBER: 101598-18 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-6 2.0-2.5

DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/12/90 DATE REPORTED: 09/21/90

## EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	14	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodich loromethan e	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	DETECTED(3.0)	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	25	5.0

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

1.2 Dishlare (the control of the cont

 1, 2 - Dichloroethane - d 4
 112%

 Toluene - d 8
 107%

 Bromofluorobenzene
 95%



LABORATORY NUMBER: 101598-19 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-7 1.0-1.5

DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromod i chlorome than e	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

1, 2-Dichloroethane-d4
101%

Toluene-d8 111% Bromofluorobenzene 83%



LABORATORY NUMBER: 101598-22 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-8 2.5-3.0

DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

## EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

chloromethane ug/kg Limit (ug/k	g)
ch loromathana	
112	
bromome than e ND 10	
vinyl chloride ND 10	
chloroethane ND 10	
methylene chloride ND 5.0	
acetone 100 10	
carbon disulfide ND 5.0	
trichlorofluoromethane ND 5.0	
1,1-dichloroethene ND 5.0	
1,1-dichloroethane ND 5.0	
1,2-dichloroethene (total) ND 5.0	
chloroform ND 5.0	
freon 113 ND 5.0	
1,2-dichloroethane ND 5.0	
2-butanone 23 10	
1,1,1-trichloroethane ND 5.0	
carbon tetrachloride ND 5.0	
vinyl acetate ND 10	
bromodichloromethane ND 5.0	
1,2-dichloropropane 7.6 5.0	
cis-1,3-dichloropropene ND 5.0	
trichloroethylene ND 5.0	
dibromochloromethane ND 5.0	
1,1,2-trichloroethane ND 5.0	
benzene ND 5.0	
trans-1,3-dichloropropene ND 5.0	
2-chloroethylvinyl ether ND 10	
bromoform ND 5.0	
2 - h e x a n o n e ND 10	
4-methyl-2-pentanone ND 10	
1,1,2,2-tetrachloroethane ND 5.0	
tetrachloroethylene ND 5.0	
toluene ND 5.0	
chlorobenzene ND 5.0	
ethyl benzene ND 5.0	
styrene ND 5.0	
total xylenes ND 5.0	

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	106%
	- 0 0 10

Toluene-d8 112% Bromofluorobenzene 86%



LABORATORY NUMBER: 101598-25 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-9 3.5-4.0

DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	30	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	DETECTED(7.4)	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome than e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

### QA/QC SUMMARY: SURROGATE RECOVERIES

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1,2-Dichloroethane-d4	102%
Toluene-d8	110%
Bromofluorobenzene	9 3%



LABORATORY NUMBER: 101598-28 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-10 3.0-3.5

DATE RECEIVED: 09/06/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/k-g	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1, 1, 2, 2 - t e t r a c h l o r o e t h a n e	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

 1, 2 - Dichloroethane - d4
 102%

 Toluene - d8
 109%

 Bromofluorobenzene
 96%



LAB NUMBER: 101598

CLIENT: BASELINE ENVIRONMENTAL

PROJECT # : S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/21/90

DATE REPORTED: 09/21/90

ANALYSIS: HYDROCARBON OIL AND GREASE

METHOD: SMWW 17:5520 E&F

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
	SB-8 0.5-1.0	ND	mg/Kg	125
	SB-8 2.5-3.0	350	mg/Kg	125

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %
RECOVERY, %
83



LAB NUMBER: 101598

CLIENT: BASELINE ENVIRONMENTAL

PROJECT # : S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90 DATE ANALYZED: 09/21/90

DATE REPORTED: 09/21/90

ANALYSIS: TOTAL OIL AND GREASE METHOD: SMWW 17:5520E (503D)

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101598-20	SB-8 0.5-1.0	230	mg/Kg	125
101598-22	SB-8 2.5-3.0	1,200	mg/Kg	125

QA/QC SUMMARY



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

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

SEP 27 1990

RACEINE

DATE RECEIVED: 09/07/90 DATE REPORTED: 09/21/90

LAB NUMBER: 101610

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 15 SOIL SAMPLES

PROJECT #: S9-171 LOCATION: SEABREEZE

RESULTS: SEE ATTACHED



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90 DATE ANALYZED: 09/11/90 DATE REPORTED: 09/21/90

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ANALYSIS: CHROMIUM

ANALYSIS METHOD: EPA 7190

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101610 - 1 101610 - 2 101610 - 3 101610 - 4 101610 - 5 101610 - 6 101610 - 7 101610 - 8 101610 - 9 101610 - 10 101610 - 11	SAMPLE ID  SB-12 0.5-1.0 SB-12 1.0-1.5 SB-12 2.5-3.0 SB-11 0.5-1.0 SB-11 1.0-1.5 SB-11 3.0-3.5 SB-13 0.5-1.0 SB-13 1.0-1.5 SB-13 2.5-3.0 SB-14 0.5-1.0 SB-14 1.0-1.5	RESULT  2 2 5 . 4 2 2 2 1 2 6 2 8 2 3 1 3 1 7 2 3 1 5	UNITS  mg/Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101610-12 101610-13 101610-14 101610-15	SB-14 3.0-3.5 SB-15 0.5-1.0 SB-15 1.0-1.5 SB-15 3.5-4.0	25 12 14 14	mg / Kg mg / Kg mg / Kg mg / Kg	2.5 2.5 2.5 2.5 2.5

RPD, %	1
RECOVERY, %	102



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90
DATE ANALYZED: 09/11/90
DATE REPORTED: 09/21/00

DATE REPORTED: 09/21/90

ANALYSIS: CADMIUM

ANALYSIS METHOD: EPA 7130

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LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101610 - 1 101610 - 2 101610 - 3 101610 - 4 101610 - 5 101610 - 6 101610 - 7 101610 - 8 101610 - 9 101610 - 10 101610 - 11 101610 - 12 101610 - 13 101610 - 14	SB-12 0.5-1.0 SB-12 1.0-1.5 SB-12 2.5-3.0 SB-11 0.5-1.0 SB-11 1.0-1.5 SB-11 3.0-3.5 SB-13 0.5-1.0 SB-13 1.0-1.5 SB-13 2.5-3.0 SB-14 0.5-1.0 SB-14 1.0-1.5 SB-14 3.0-3.5 SB-15 0.5-1.0 SB-15 1.0-1.5	1.5 0.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	mg / Kg	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
101610-15	SB-15 3.5-4.0	ND	mg/Kg	0.5

ND = Not detected at or above reporting limit.

RPD, %	1
RECOVERY, %	94



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90
DATE ANALYZED: 09/11/90
DATE REPORTED: 09/11/90

DATE REPORTED: 09/21/90

ANALYSIS. CORPER

ANALYSIS: COPPER

ANALYSIS METHOD: EPA 7210

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101610-1 101610-2 101610-3 101610-4 101610-5 101610-6 101610-7 101610-8 101610-9 101610-10 101610-11 101610-12 101610-13 101610-14	SB-12 0.5-1.0 SB-12 1.0-1.5 SB-12 2.5-3.0 SB-11 0.5-1.0 SB-11 1.0-1.5 SB-11 3.0-3.5 SB-13 0.5-1.0 SB-13 1.0-1.5 SB-13 2.5-3.0 SB-14 0.5-1.0 SB-14 1.0-1.5 SB-14 3.0-3.5 SB-14 3.0-3.5 SB-15 0.5-1.0 SB-15 1.0-1.5	730 20 19 33 18 29 10 9.9 76 47 81 18 8.4 9.8	mg / Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101610-15	SB-15 3.5-4.0	11	mg/Kg	2.5 2.5

RPD, %	<1
RECOVERY, %	106



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90
DATE ANALYZED: 09/11/90

DATE REPORTED: 09/21/90

ANALYSIS: NICKEL

ANALYSIS METHOD: EPA 7520

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101610-1 101610-2 101610-3 101610-4 101610-5 101610-6 101610-7 101610-8	SB-12 0.5-1.0 SB-12 1.0-1.5 SB-12 2.5-3.0 SB-11 0.5-1.0 SB-11 1.0-1.5 SB-11 3.0-3.5 SB-13 0.5-1.0 SB-13 1.0-1.5	RESULT  37 7.4 26 38 69 28 17 18	UNITS  mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101610 - 9 101610 - 10 101610 - 11 101610 - 12 101610 - 13 101610 - 14 101610 - 15	SB-13 2.5-3.0 SB-14 0.5-1.0 SB-14 1.0-1.5 SB-14 3.0-3.5 SB-15 0.5-1.0 SB-15 1.0-1.5 SB-15 3.5-4.0	28 35 25 20 25 28 32	mg / Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5

RPD, %	<1
RECOVERY, %	100



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90 DATE ANALYZED: 09/11/90 DATE REPORTED: 09/21/90

ANALYSIS: LEAD

ANALYSIS METHOD: EPA 7420

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
LAB ID  101610-1 101610-2 101610-3 101610-4 101610-5 101610-6 101610-7 101610-8 101610-9 101610-10 101610-11	SAMPLE ID  SB-12 0.5-1.0 SB-12 1.0-1.5 SB-12 2.5-3.0 SB-11 0.5-1.0 SB-11 1.0-1.5 SB-11 3.0-3.5 SB-13 0.5-1.0 SB-13 1.0-1.5 SB-13 2.5-3.0 SB-14 0.5-1.0 SB-14 0.5-1.5 SB-14 3.0-3.5	RESULT  340 17 67 72 22 5.5 31 19 33 61 55 ND	UNITS  mg/Kg	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
101610-13 101610-14 101610-15	SB-15 0.5-1.0 SB-15 1.0-1.5 SB-15 3.5-4.0	1 2 3 9 1 4	mg/Kg mg/Kg mg/Kg	2.5 2.5 2.5 2.5

ND = Not detected at or above reporting limit.

RPD, %	1		
RECOVERY, %	97		



CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90
DATE ANALYZED: 09/13/90
DATE REPORTED: 09/21/90

ANALYSIS: TIN

ANALYSIS METHOD: EPA 6010

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LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101610-1	SB-12 0.5-1.0	6.2	mg/Kg	5.0
101610-2	SB-12 1.0-1.5	ND	mg/Kg	5.0
101610-3	SB-12 2.5-3.0	ND	mg/Kg	5.0
101610-4	SB-11 0.5-1.0	ND	mg/Kg	5.0
101610-5	SB-11 1.0-1.5	ND	mg/Kg	5.0
101610-6	SB-11 3.0-3.5	ND	mg/Kg	5.0
101610-7	SB-13 0.5-1.0	ND	mg/Kg	5.0
101610-8	SB-13 1.0-1.5	ND	mg/Kg	5.0
101610-9	SB-13 2.5-3.0	ND	mg/Kg	5.0
101610-10	SB-14 0.5-1.0	ND	mg/Kg	5.0
101610-11	SB-14 1.0-1.5	ND	mg/Kg	5.0
101610-12	SB-14 3.0-3.5	ND	mg/Kg	5.0
101610-13	SB-15 0.5-1.0	ND	mg/Kg	5.0
101610-14	SB-15 1.0-1.5	ND	mg/Kg	5.0
101610-15	SB-15 3.5-4.0	ND	mg/Kg	5.0

ND = Not detected at or above reporting limit.

RPD, %	<1
RECOVERY, %	98



LABORATORY NUMBER: 101610-15 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-15 3.5-4.0

DATE RECEIVED: 09/07/90 DATE ANALYZED: 09/12/90 DATE REPORTED: 09/21/90

# EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Donontino
	ug/kg	Reporting Limit (ug/kg)
chlorome than e	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	33	10
carbon disulfide	DETECTED(3.9)	(3700-0)
trichlorofluoromethane		5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1, 2-dichloroethane	ND	5.0
2 - butanone	ND	5.0
1,1,1-trichloroethane	DETECTED(8,1)	10
carbon tetrachloride	ND	5.0
vinyl acetate	ND	5.0
	ND	10
bromodichloromethane	ND	5.0
1, 2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
dibromochloromethane	ND	5.0
1,1,2-trichloroethane benzene	ND	5.0
	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromo form	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

1, 2 - Dichloroethane - d4

Toluene - d8

107%

Toluene-d8 108% Bromofluorobenzene 99%



LABORATORY NUMBER: 101610-3 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-12 2.5-3.0

DATE RECEIVED: 09/07/90 DATE ANALYZED: 09/12/90 DATE REPORTED: 09/21/90

# EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	27	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	DETECTED(6.6)	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromod i chlorome than e	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromo form	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1, 1, 2, 2 - t e t r a c h l o r o e t h a n e	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

1, 2 - Dichloroethane - d4 101%
Toluene - d8 100%

Toluene-d8 100% Bromofluorobenzene 95%



LABORATORY NUMBER: 101610-6 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-11 3.0-3.5

DATE RECEIVED: 09/07/90 DATE ANALYZED: 09/12/90 DATE REPORTED: 09/21/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	180	10
carbon disulfide	11	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	45	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodich loromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome t han e	ND	5.0
1,1,2-trichloroethane	ND	5.0
benzene	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0
File biologischen wer	4140	J. U

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1, 2 - Dichloroethane - d 4

Toluene - d 8

Bromofluorobenzene

102%

113%

94%



LABORATORY NUMBER: 101610-9 CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-13 2.5-3.0

DATE RECEIVED: 09/07/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - but anone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome than e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - h e x a n o n e	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
ch l or obenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0

ND = Not detected at or above reporting limit

## QA/QC SUMMARY: SURROGATE RECOVERIES

1, 2 - Dichloroethane - d4 109%

Toluene-d8 115% Bromofluorobenzene 91%



LABORATORY NUMBER: 101610-12
CLIENT: BASELINE ENVIRONMENTAL

JOB #: S9-171

SAMPLE ID: SB-14 3.0-3.5

DATE RECEIVED: 09/07/90
DATE ANALYZED: 09/12/90
DATE REPORTED: 09/21/90

# EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES Extraction Method: EPA 5030 - Purge & Trap

COMPOUND	Result	Reporting
	ug/kg	Limit (ug/kg)
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
acetone	ND	10
carbon disulfide	ND	5.0
trichlorofluoromethane	ND	5.0
1,1-dichloroethene	ND	5.0
1,1-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
1,2-dichloroethane	ND	5.0
2 - butanone	ND	10
1,1,1-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
vinyl acetate	ND	10
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
d i bromo ch l o rome than e	ND	5.0
1,1,2-trichloroethane	ND	5.0
b e n z e n e	ND	5.0
trans-1,3-dichloropropene	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
2 - hexanone	ND	10
4-methyl-2-pentanone	ND	10
1,1,2,2-tetrachloroethane	ND	5.0
tetrachloroethylene	ND	5.0
toluene	ND	5.0
chlorobenzene	ND	5.0
ethyl benzene	ND	5.0
styrene	ND	5.0
total xylenes	ND	5.0
A CONTRACTOR OF THE CONTRACTOR	- 1	0.0

ND = Not detected at or above reporting limit

### QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101%
Toluene-d8	102%
Bromofluorobenzene	9 5%

Curtls & Tompkins, Ltd.

LAB NUMBER: 101610

CLIENT: BASELINE ENVIRONMENTAL

PROJECT # : S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90 DATE ANALYZED: 09/21/90 DATE REPORTED: 09/21/90

ANALYSIS: TOTAL OIL AND GREASE METHOD: SMEW 17:5520E (503D)

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101610-13	SB-15 0.5-1.0	18,000	mg/Kg	125
101610-14	SB-15 1.0-1.5	7,900	mg/Kg	125
101610-15	SB-15 3.5-4.0	1,700	mg/Kg	125

QA/QC SUMMARY

RPD, %
RECOVERY, %



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

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 09/06/90

09/07/90

DATE REPORTED: 10/04/90

LAB NUMBER: 101770

ECEIVED

OCT 9 1990

RACEINE

CLIENT: BASELINE ENVIRONMENTAL

REPORT ON: 12 SOIL SAMPLES

PROJECT #: S9-171 LOCATION: SEABREEZE

RESULTS: SEE ATTACHED

QA/QC Approval

Final Approva

Wilmington

Los Angeles

Berkeley



LAB NUMBER: 101610

CLIENT: BASELINE ENVIRONMENTAL

PROJECT # : S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90

DATE ANALYZED: 09/21/90 DATE REPORTED: 09/21/90

ANALYSIS: HYDROCARBON OIL AND GREASE

METHOD: SMWW 17:5520 E&F

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
101610-14	SB-15 0.5-1.0	7,800	mg/Kg	125
	SB-15 1.0-1.5	4,200	mg/Kg	125
	SB-15 3.5-4.0	520	mg/Kg	125

QA/QC SUMMARY

RPD, %
RECOVERY, %
83



LABORATORY NUMBER: 101770

CLIENT: BASELINE ENVIRONMENTAL

09/07/90

PROJECT #: \$9-171

DATE REQUESTED: 09/27/90

DATE RECEIVED: 09/06/90

LOCATION: SEABREEZE

DATE ANALYZED: 10/04/90 DATE REPORTED: 10/04/90

ANALYSIS: SOLUBLE COPPER ANALYSIS METHOD: EPA 7210

EXTRACTION BY WASTE EXTRACTION TEST: CCR TITLE 26 SECTION 22-66700

LAB ID

CLIENT ID

RESULT

UNITS

REPORTING LIMIT

101770-1 SB-12 0.5-1.0

44

mg/L

0.5

QA/QC SUMMARY

RPD, %

RECOVERY, %

2

102 



LABORATORY NUMBER: 101770

CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/06/90

09/07/90 DATE REQUESTED: 09/27/90 DATE ANALYZED: 10/04/90

DATE REPORTED: 10/04/90

ANALYSIS: SOLUBLE LEAD ANALYSIS METHOD: EPA 7420

EXTRACTION BY WASTE EXTRACTION TEST: CCR TITLE 26 SECTION 22-66700

LAB ID	CLIENT ID	RESULT	UNITS	REPORTING LIMIT
101770 - 1 101770 - 2 101770 - 3 101770 - 4 101770 - 6 101770 - 7 101770 - 8 101770 - 9 101770 - 10 101770 - 11 101770 - 12	SB-12 0.5-1.0 SB-11 0.5-1.0 SB-12 1.0-1.5 SB-14 0.5-1.0 SB-14 1.0-1.5 SB-2 5.0-5.5 SB-4 0.5-1.0 SB-6 0.5-1.0 SB-7 1.0-1.5 SB-8 0.5-1.0 SB-9 0.5-1.0 SB-9 1.0-1.5	9.0 3.7 0.72 6.6 1.4 1.1 2.7 28 0.34 1.6 19	mg / L mg / L	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05

QA/QC SUMMARY



LABORATORY NUMBER: 101973

CLIENT: BASELINE ENVIRONMENTAL

PROJECT #: S9-171 LOCATION: SEABREEZE DATE RECEIVED: 09/07/90 DATE REQUESTED: 10/18/90

DATE ANALYZED: 10/24/90 DATE REPORTED: 10/24/90

ANALYSIS: SOLUBLE LEAD ANALYSIS METHOD: EPA 7420

EXTRACTION BY WASTE EXTRACTION TEST: CCR TITLE 26 SECTION 22-66700

LAB ID CLIENT ID

RESULT

UNITS

REPORTING LIMIT

101973-1 SB12 2.5-3.0

2.2

mg/L

0.05

QA/QC SUMMARY

RPD, %

RECOVERY, % 

2

99

Described to

5900 Hollis Street , Suite D Emeryville, CA 94608 (415) 420-8686

To the parties of the contract of the contract

# CHAIN OF CUSTODY RECORD

101598

Turn-Around Time NOYMAL

Lab Curto & Jompkins

Contact Person

Project No.		Project	Name ar	nd Locati	on	<del></del>		-	_			7	7	7	76	1.0	,	, ,	4/1	
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S9-17 Samplers: (Si	em K	Sio	te	1	Ma	a W	naya			/	20/	7	10 mg	A. A.	13	Ž.	4%.	3/1/2		
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SBH2	11	9:02	Ļ	3.0-3.5	No	1			x	X	×	×	×	×						
SBH 2	9/16/90	9:15	(1	5.0-5.5	No	1			×	X	X	×	X	X	X					
SB-1	9/4/90	10:00	1′	0,5-1,0	No	(			Χ	X	X	X	x	K						
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58-4	11	11:00	11	0.5-1.0	no	١			×	X	×	X	X	×						
SB-4	V	11:07	M	1.0-1.5	NO	١			Χ	X	×	×	X	X						
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5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

# CHAIN OF CUSTODY RECORD

101598 Turn-Around Time NORMAD Lab Curt's + Tompkins

Contact Person

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	Project No.		Projec	t Name a	nd Locati	on				T			10	7-	7_	70	7 -		/ / / / /			
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16	SB-3	- 11	12,10	4,	3.5-4.0	No	1			X	X	×	×	X	×	X	,	1				
ני	5B-6	(1	13:12	1	0.6-	NO	1			×	×	x	×	×	×							
18	SB-6	9/4/16	13:23	Soil	2.0	NO	(			×	X	×	Х	×	$\times$	$\succ$						
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5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

# CHAIN OF CUSTODY RECORD

Lab Cutis + Tompkins

Contact Person

	Project No.		Daning	N					-												
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	No. Station	Date	Time	Media	Depth	Compo- sites	No. of Con- tainers	Station Locat	tion	1		A CONTRACTOR	47		1	TO AND A		30%		Remarks	Detection Limits
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и	SB-8-	(1	13:58	(1	1.0	NO				X	X	×		<b> </b>	X	MO					
22	SB-8	11	14:03	1,	2.5	NO	1			X	×	×	×	1	×	X	×				
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15	SB-9	C.	14:40	٠,	3.5	NO				X	K	K	X	×	X	×					
4	SB-10		14:50		0,5-1,0	NO	1			X	X	x	x	×	λ						
17	Sb-10	16/90	14:55	Soil	1.0-1.5	ND	(			×	X	×	×	χ	x						
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P LELLIN V

5900 Hollis Street, Suite D Emeryville, CA 94608 (415) 420-8686

# CHAIN OF CUSTODY RECORD

Lab Curtis & Jompkins

Contact Person

Project No.		Project	Name a	nd Locat		<del></del>												
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Samplers: (Si	lan o	t Sa	att	HU	era (	luage			/		3/		/g/		43	8/2	Ž /	
No. Station	Date	Time	Media			No. of Con- tainers	Station Location		1/2/2	Ser Ser Ser	A STAN		No.		0/3		Remarks	Detection Limits
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SB-12	9/7/80	9:04	10	0.5	No	1		×	×	×	×	×			X		¥	
513-12	9/7/80	9:06	(1	1.0 1.5	No	\		X	×	_	×	大			X			
		9:10		3.0	No	١		X	×	k	×	<b>&gt;</b>	X		×			
SB-11	9-7-90	9:35	11	6.5	No	١		Y	X	k	>	×			X			
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5B-13	9-750	10:06	Soil	1.0	NO	l		X	X		X	X			x		N	
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	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
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	Milha / Sen	7-1-80 17:50	Delega Unayor	1/1/90 12,50	Arrival at Laboratory:
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1	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	1
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1		į	North Style	9/7/90 3:58	
L	The second secon		May Kum	17/70 3.36	

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5900 Hollis Street , Suite D Emeryville, CA 94608 (415) 420-8686

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# CHAIN OF CUSTODY RECORD

Turn-Around Time Normal

Lab Curtis & Tompkins

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					)   	10	Signature	( / /// /	9/2/20	Date /	Time	0										

APPENDIX G

UNIFORM HAZARDOUS WASTE MANIFESTS

EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

GREEN: HAULER RETAINS

WASTE MANIFEST CIAIR S  3. Generator's Name and Mailing Address [WXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			of I is not required by	4
DET Sth Avenue (mail:	77 Jack London 89	uate, pl.		58
(1016) 5000, CA / 114507 4. Generator's Phone (415) 370-2555	Cakland, CA 9468 Attn: Michalle No	O Cart St.	el i	14.8
5. Transporter 1 Company Name	6. US EPA ID Num	ber - OFE		PAGE.
North Leate Environmental  7. Transporter 2 Company Name	B. US EPA ID Num	C will out a supplement of the	HEALTHANDS ( ) ) ]	
Transporter 2 Company Name	I I I I I I I I I I I I I	4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		THE RESERVE TO SHARE
9. Designated Facility Name and Site Address	10. US EPA ID Num	7.5. MAG * 17.37 \$ 7.47 \$	likalimen i s	194
Sograles Bucket and Drim Compa	ency		Faring a Paring Salah Lihatan	. P
1:24 Pitnintald Avenue	CLERKGKO	4312		
11. US DOT Description (Including Proper Shipping Name, I	Hazard Class, and ID Number)	12. Containers	15. Total 14. Unit	Was
e. ,		No. type	W(/yo)	
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Woste oil and Water, CA Regu	ulated waste Caly	33 63	1120 3	
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here's Oil and water or Roy				الله الله الله الله الله الله الله الله
				ralky
J. Additional Descriptions for Materials Listed Above	44			. Fe year
RESIDUC: Last contained was		* \$		
	1 · A			# }
15. Special Handling Instructions and Additional Information		AND TOWNS OF THE PARTY.		
EMERGENCY CONTACT: Michelle H Use gloves, goggles, and respir	miles, (415)839-26	56. /		
Use groves, goggies, and respir	ecol if elem ate.	opened.		٠, ٠
16.		Action of the Contract	001-10	2~
GENERATOR'S CERTIFICATION: I hereby declare the and are classified, packed, marked, and labeled, and a national government regulations.	at the contents of the excellentian	data find and dated at the	described allows by proper a	ipping ar
national government regulations.  If I am a large quantity generator, I certify that I have a	program in place to reduce the V	Juma and toxicity of was	la peneralad to the degree i h	avê dêtem
If I am a large quantity generator, I certify that I have a to be economically practicable and that I have selected present and future threat to human health and the envir generation and select the best waste management met	ame practicable method of treatm ronment; OR; it I am a small quant that the is sufficient to the	ient, storage, or disposa ity generator, i have mad	currently available to me whice a good faith effort to minimi	h Minimize 28 my wae
Printed/Typed Name	CAC GIGNATURE	at I can arrord.	the state of the s	fonth Da
THE PANTA	A1-20 04		MALA	DX 3
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name		Andread	and the state of t	122
Ken Chester	<b>47</b>			CONTACT OF
18. Transporter 2 Acknowledgement of Receipt of Materials				3 1 3
Printed/Typed Name	Signature	A STATE OF S	SERVICE THE !	ionth Da
	A CONTRACTOR OF THE CONTRACTOR		Andrew Comment	اعلمه
19. Discrepancy Indication Space			AND THE RESIDENCE OF THE PARTY	100
19. Discrepancy Indication Space				
19. Discrepancy Indication Space				

Ť		1 Comments to the state of						Occidentento, Oc
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA IC	1 1	Manifest Document No.				he shaded areas by Federal law.
h	3. Generator's Name and Mailing Address	K. IA IU I Y IA IZ IA	181111121719	11 12 19 1		te Manifest Docu		
	Seabreeze Yacht Center,		530 Water	St.	2 0		<u>866</u>	
Ŀ	Oakland, CA 94507 Generator's Phone (415 ) 420-86	86 Attn	Oakland, (	CA 9460 Efes	74			11111
ľ	5. Transporter 1 Company Name	6	US EPA ID Numb	er		te Transporter's		4721
ŀ	North State Environment	al cla	US EPA ID Numb			nsporter's Phone te Transporter's	(415)	588-2838
			حاما حالما حا	   _   _   _   .   .	F. Trai	nsporter's Phone		
1	. Designated Pacifity Name and Site Abdres	SI TO A	D US EPAPID Numb	er <sup>3</sup> / 3		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		588-2838
	Solvent Services, Inc. 1021 Berryessa Road			,	H. Fac	AD015	1419	431101
	San Jose, Ch 95133		ولهاواواهاوا	4311	ntainers	(400) 453	6846	
	US DOT Description (Including Proper Sh	ipping Name, Hazard Class	s, and ID Number)	No.	Type	Quantity	Unit Wt/Vol	l. Waste No.
•			tanco oue			250		State 791
	Waste Hydrochloric Ac Drum 1 UN1789	cid, Corrosive	Material,	11	DF		P	EPA/Other DØØ2
								State 221
	Waste Oil, Flammable Drum 2	Liquid, NA1270	9	1	DM	55	G	EPA/Other
							+	DØ31 State
								EPA/Other
					+++			State
			e					EPA/Other
j	Additional Descriptions for Materials Listed	Above			K. Har	ndling Codes for 1	Wastes L	sted Above
7	: LP1459, 1x55gal poly	LAB PACK -see	attached lis	t for	<b>a</b> .		b.	
	contents. : FL2048. 40-50% petrol distillates, water, 0				C.		d.	4. 4.
			chloride.					
1	5. Special Handling Instructions and Addition		120 0606					
	Emergency Contact: Tere Use gloves, goggles,	and respirator	if drums ar	e opene	d.			
1	3.							
	GENERATOR'S CERTIFICATION: I here and are classified, packed, marked, and national government regulations.	by declare that the content labeled, and are in all resp	its of this consignment a ects in proper condition	are fully and a n for transport	ccurately by highwa	described above ay according to a	by prope pplicable	r shipping name international and
	If I am a large quantity generator, I certify to be economically practicable and that I present and future threat to human health	have selected the practical	able method of treatmen	nt storage of	disposal	currently available	e to me w	hich minimizes the
5	generation and select the best waste ma	nagement method that is a	vailable to me and that	I can afford.	Pro	of Outla	1	•
	Links Alas Att	in fact	a grature 8	As Alto	ing	eltact	af	Month Day Ye
	7. Transporter 1 Acknowledberhent of Recei	ot of Maranais	(	5-5	1	Chi	The	MAN 191
	inted/Typed Name Chestie	CTT-4ne	Signature	0	1			Month Day Ye
_	<ol> <li>Transporter 2 Acknowledgement of Receipting</li> <li>Transporter 2 Acknowledgement of Receipting</li> </ol>	pt of Materials	Signature					Month Day Ye
			Orginature .					Month Day Ye
15	Discrepancy Indication Space		***************************************					<u> </u>
	*							
	). Facility Owner or Operator Certification of	receipt of hazardous mate	erials covered by this m	nanifest exce	ot as noted	d in Item 19.		
>	inted/Typed Name		Signature					Month Day Ye
			I .					

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

	UNIFORM HAZARDOUS  1. Generator's US EPA ID No.	. Manifest	2. P	age 1			Sacramento
	WASTE MANIFEST CARREST CARRE	Document No.		off			the shaded areas by Federal law.
	3. Generator's Name and Mailing Address Sea Breeze Yacht Center HONAX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	r, Inc. mental	A. Sta	te Manifes	1 Docum	nent Nu	nber F O
	280 6th Avenue 5900 Hollis St.	Ste. D	B Stat	le Generat		990	130
	O.klano, Ct. 94567 Emeryville, CA 94 4 Generator's Phone (415) 272-1178 Attn: Steve Wisba	eum		Y H Q		TF	25825
1 1	5. Transporter 1 Company Name 6. US EPA ID N	lumber	C. Stat	e Transpo	rter's il	0 10	4379
lŀ	North State Photrongonts			sporter's		1 4-1	588-2838
				e Transpo sporter's			
	9. Designated Facility Name and Sile Address 10. US EPA ID No.	In b f7 b b	1	e Facility'		(415)	203-3635
	Envirosafe Services of Idaho, Inc.		I I	D P	<b>7</b> β	ρρ	REPRI
	10 5mi to of Grandwick, ID 93626 t h h h h h h h			(208)3	84-1	500	
-	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Cont No.	ainers Type	13. Tot Qua	tal Intity	14. Unit Wt/Vo	I. Waste N
. [		2000			~		State 181
	RO, Waste Corrosive Solid N.O.S., UN1759 (DEC2 (contains: sulfuric acid, lead)	1 (26:30)	DF	12	( <u>)</u> 	P	EPA/Other DIO 2/I
ľ	b.				ш_		State
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	Additional Descriptions for Materials Listed Above A: PC: 1571C. 30gal solid drum. 10% sulfuric ac bactery carcus. Ed: diatomaccous carth. 21% len	id, 185	K. Hand a.	dling Code	s for W	p.,	sted Above
	A: PCV 1571C. 39gal solid drum. 10% sulfuric ac battery carcus, Est diatomaceous earth, <1% learness of the control of the con	id, 16% d Sulfate.		dling Code	s for W		sted Above
	A: PCV 1571C- 30gsl solid drive les cultimis	id, 10% d sulfate.	8.	dling Code	s for W	b. •	sted Above
1	A: PCV 1571C. 39gal solid drum. 10% sulfuric ac battery carcus, Edg diatomaceous carth, Kl& least 5. Special Handling Instructions and Additional Information  Energency Contact, Michaela V. 55	d Sulfate	a. c.	dling Code	s for W	b. •	sted Above
1	A: PCV 1571C. 39gal solid drum. 10% sulfuric ac battery carcus, Edg diatomaceous carth, Kl& least 15 Special Handling Instructions and Additional Information	d Sulfate	a. c.	dling Code	s for W	b. •	sted Above
1	A: PCV 1571C. 30gal solid drum. 10% sulfuric ac bactery carcus, Eds diatomaceous carth, K1% leads of the sulfurious and Additional Information  Emergency contact: Michele Heffes, (415)272-1178  Use gloves, goggles, and respirator if drums	0. are opened	£.			b.	
11	A: PCV 1571C. 39gal solid drum. 10% sulfuric ac backery carcus, Effa diatomaceous carth, K1% leads 5. Special Handling Instructions and Additional Information  Emergency contact: Michele Heffes, (415)272-1176  Use gloves, goggles, and respirator if drums 6.  GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignme and are classified, packed, marked, and labeled, and are in all respects in proper condinational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce they to be economically practicable and that I have selected the practicable method of treating present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and the selection and select the best waste management method that is available to me and the selection and select the best waste management method that is available to me and the selection of th	C. are opened actition for transport by volume and toxicity ment, storage, or defined actition for transport by the content of	c. c. curately dy highway	lescribed a	above b	d.  d.	shipping name international and I have determine
1 Pr	A: PCN 1571C. 39gal solid drum. 10% sulfuric ac bactery carcus, Eff. diatomaceous carth, Kl& lead bactery carcus, Eff. diatomaceous carth, Kl& lead 5. Special Handling Instructions and Additional Information  Program Contact: Michele Heffes, (415)272-1178  Use gloves, goggles, and respirator if drums and are classified, packed, marked, and labeled, and are in all respects in proper condinational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the value of the conomically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment, OR, if I am a small quantification and select the best waste management method that is available to me and trinted/Typed Name  ERECA ALAMA Signature  Signature	ant are fully and accition for transport be volume and toxicity ment, storage, or dutity generator, I had I can afford.	c. curately dy highway of waste isposal cive made	lescribed a y according generated urrently av a good fair	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine
1 Pr	A: PCN 1571C. 39gal solid drum. 10% sulfuric ac bactery carcus, Eff. diatomaceous carth, Kl& lead bactery carcus, Eff. diatomaceous carth, Kl& lead 5. Special Handling Instructions and Additional Information  Program Contact: Michele Heffes, (415)272-1178  Use gloves, goggles, and respirator if drums and are classified, packed, marked, and labeled, and are in all respects in proper condinational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the value of the conomically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment, OR, if I am a small quantification and select the best waste management method that is available to me and trinted/Typed Name  ERECA ALAMA Signature  Signature	C. are opened actition for transport by volume and toxicity ment, storage, or defined actition for transport by the content of	c. curately dy highway of waste isposal cive made	lescribed a y accordin generated urrently av a good fai	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine hich minimizes th mize my waste
11 11 Pr	A: PCV 1571C. 39gal solid drum. 10% sulfuric ac bactery carcus, Effe diatomaceous carth, K1% leads 5. Special Handling Instructions and Additional Information  Emergency contact: Michele Heffes, (415)272-1176  Use gloves, goggles, and respirator if drums 6.  GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignme and are classified, packed, marked, and labeled, and are in all respects in proper condinational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce they to be economically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment; OR, if I am a small quantimed/Typed Name  Signature	ant are fully and accition for transport be volume and toxicity ment, storage, or dutity generator, I had I can afford.	c. curately dy highway of waste isposal cive made	lescribed a y according generated urrently av a good fair	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine hich minimizes th mize my waste
11 17 T 17 Pr	A: PCN 1571C. 39gal solid drum. 10% sulfuric ac bactery carcus, Effa diatomaceous carth, Kl& lead bactery carcus, Effa diatomaceous carth, Kl& lead 5. Special Handling Instructions and Additional Information  Programs contact: Michele Heffes, (415)272-1178 Use gloves, goggles, and respirator if drums 6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignme and are classified, packed, marked, and labeled, and are in all respects in proper condinational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the value becommically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment; OR, if I am a small quant generation and select the best waste management method that is available to me and trinted/Typed Name  ERESA ANAYA  FORTHE PORT  Signature  FRESA ANAYA  FORTHE PORT  Signature  FRESA ANAYA  FORTHE PORT  Signature  FRESA ANAYA  FORTHE PORT  Signature  Signature	ant are fully and accition for transport be volume and toxicity ment, storage, or dutity generator, I had I can afford.	c. curately dy highway of waste isposal cive made	lescribed a y according generated urrently av a good fair	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine hich minimizes the mize my waste Month Day
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A: PCV 1571C. 39gal solid drum. 10% sulfuric ac bactery carcus, Effa distonished us carth, K1% lead of the carcus, Effa distonished us carth, K1% lead of the carcus, Effa distonished us carth, K1% lead of the carcus of the carcus of the carcus of the carcus of the contents of the consignment and are classified, packed, marked, and labeled, and are in all respects in proper conditional government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the various to be economically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment; OR, if I am a small quantification and select the best waste management method that is available to me and the carcus of th	ant are fully and accition for transport be volume and toxicity ment, storage, or dutity generator, I had I can afford.	c. curately dy highway of waste isposal cive made	lescribed a y according generated urrently av a good fair	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine hich minimizes the mize my waste  Month Day  Month Day
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A: PCN 1571C. 39gal solid drum. 10% sulfuric ac bactery carcus, Effa diatomaceous carth, Kl& lead bactery carcus, Effa diatomaceous carth, Kl& lead 5. Special Handling Instructions and Additional Information  Programs contact: Michele Heffes, (415)272-1178 Use gloves, goggles, and respirator if drums 6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignme and are classified, packed, marked, and labeled, and are in all respects in proper condinational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the value becommically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment; OR, if I am a small quant generation and select the best waste management method that is available to me and trinted/Typed Name  ERESA ANAYA  FORTHE PORT  Signature  FRESA ANAYA  FORTHE PORT  Signature  FRESA ANAYA  FORTHE PORT  Signature  FRESA ANAYA  FORTHE PORT  Signature  Signature	ant are fully and accition for transport be volume and toxicity ment, storage, or dutity generator, I had I can afford.	c. curately dy highway of waste isposal cive made	lescribed a y according generated urrently av a good fair	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine hich minimizes the mize my waste Month Day
11 11 T T T T T T T T T T T T T T T T T	A: PCV 1571C. 39gal solid drum. 10% sulfuric ac bactery carcus, Effa distonished us carth, K1% lead of the carcus, Effa distonished us carth, K1% lead of the carcus, Effa distonished us carth, K1% lead of the carcus of the carcus of the carcus of the carcus of the contents of the consignment and are classified, packed, marked, and labeled, and are in all respects in proper conditional government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the various to be economically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment; OR, if I am a small quantification and select the best waste management method that is available to me and the carcus of th	ant are fully and accition for transport be volume and toxicity ment, storage, or dutity generator, I had I can afford.	c. curately dy highway of waste isposal cive made	lescribed a y according generated urrently av a good fair	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine hich minimizes the mize my waste  Month Day  Month Day
11 11 T T T T T T T T T T T T T T T T T	5. Special Handling Instructions and Additional Information  Program Contact: Michele Heffes, (415) 272-1176  Use gloves, goggles, and respirator if druns  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignme and are classified, packed, marked, and labeled, and are in all respects in proper conditional government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce they to be economically practicable and that I have selected the practicable method of treats present and future threat to human health and the environment; OR, if I am a small quantified method and select the best waste management method that is available to me and the intendical program in the contents of the contents of the contents of this consignment of the contents of the co	ant are fully and accition for transport be volume and toxicity ment, storage, or dutity generator, I had I can afford.	c. curately dy highway of waste isposal cive made	lescribed a y according generated urrently av a good fair	above be to apply to the allable ith effort	d.  d.  d.	shipping name international and I have determine hich minimizes the mize my waste  Month Day  Month Day
17 T T T T T T T T T T T T T T T T T T T	A: PCV 1571C. 30g1 solid drum. 16% sulfuric ac brokery carcus, Ena diatomaceous carth, 41% lead brokery carcus, Ena diatomaceous carth, 41% lead 5. Special Handling Instructions and Additional Information  Emergency contact: Michele Heffes, (415) 272-117. Use gloves, goggles, and respirator if cruns of this consignment and are classified, packed, marked, and labeled, and are in all respects in proper conditional government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the value of the economically practicable and that I have selected the practicable method of treat present and future threat to human health and the environment; OR, II am a small quantity generation and select the best waste management method that is available to me and trinted/Typed Name  ERESA ANAVA  FURTHE PURT  Signature  Signature  Signature  Signature  Signature  Signature  Signature  Signature  Discrepancy Indication Space	C. are opened and acciding for transport by volume and toxicity ment, storage, or driftly generator, I has that I can afford.	c.  curately dy highway of waste isposal cove made	described a vaccording generated urrently ava a good fail	above be to to the allable with efform A	d.  d.  d.	shipping name international and I have determine hich minimizes the mize my waste  Month Day  Month Day
11 11 17 17 18 Pr 19 19 20	5. Special Handling Instructions and Additional Information  Program Contact: Michele Heffes, (415) 272-1176  Use gloves, goggles, and respirator if druns  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignme and are classified, packed, marked, and labeled, and are in all respects in proper conditional government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce they to be economically practicable and that I have selected the practicable method of treats present and future threat to human health and the environment; OR, if I am a small quantified method and select the best waste management method that is available to me and the intendical program in the contents of the contents of the contents of this consignment of the contents of the co	C. are opened and acciding for transport by volume and toxicity ment, storage, or driftly generator, I has that I can afford.	c.  curately dy highway of waste isposal cove made	described a vaccording generated urrently ava a good fail	above be to to the allable with efform A	d.  d.  d.	shipping name international and I have determine hich minimizes the mize my waste  Month Day  Month Day

88) Previous editions are obsolete.

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS

To: P.O. Box 400, Socramento, CA 95812-0400

0800	print or type. (Form designed for use on elite (12-prich typewriter).						Sacramento, Californi
1	UNIFORM HAZARDOUS WASTE MANIFEST CADQUE 2 4		Manifest Document No.	2. Pa	morma		he shaded areas by Federal law.
ı	3. Generator's Name and Mailing Address SFARREZE YA	CHT CENT	ER.TITO	A. State	Manifest Docum	nent Num	ber
ı	286 6th Avenue 536 Water St	and Attn:M	. Heffes		Generator's ID	991	32
	4. Generators Property 94507 Oakland, CA	94504-206	4	1		i Lee	25823
	5. Transporter 1 Company Name 6.	US EPA ID Nur	nber		Transporter's K		04833
	7. Transponer 2 Company Rame 1 oranental 8.C. A.	plate et et	واجاجا و		sporter's Phone	1415	1500-2020
	7. Hansporter 2 Company Name 8.	- US EPA TO Nun	nber		Transporter's IC	, (223	7500 2030
	9. Benginted Facility No horard Environment 2.1 16. A	Dus BAND Nun	Ber 3 7 3 8		Facility's ID	(415	) <b>588-2</b> 838
					NDOS	اولها	4310
	Solvent Services, Inc. 1021 Berryessa Road			H. Facil	ity's Phone		9 4
ı	Sen Jose, CA 95133 CA	D 8 5 9 4	9 4 \$2. Com	ainers	(43/42/453-	SEES	l
	11. US DOT Description (Including Proper Shipping Name, Hazard Class,	and ID Number)	No.	Туре	Quantity	Unit Wt/Vol	Waste No.
c	a.		14.		2208		State 221
G E N E R	Waste Oil, Flammable Liquid, NA1270 Drums 1-5	5	5	DM	275	G	EPA/Other
E R	b.	٠,٠			1341		State
A T	Waste Flammable Liquid NOS, UN1993 Drum 6		. 1.	DM	. 55.	G	213 EPA/Other
O R	c.	toluene)		$\dashv \dashv$			F003,5/00
	Waste Oil, Flammable Liquid, NA1270	1	5	D M	275	G	221 EPA/Other
	Drums 7-11			77	ــــــــــــــــــــــــــــــــــــــ	G	DGG1 State
			h h			7	
							EPA/Other
	J. Additional Descriptions for Materials Listed Above			K. Hand a.	lling Codes for W	astes Li b.	sted Above
	A: FL2046. 40-60% petroleum oil, 8-10% B: FL2047. 50-76% petroleum distillate	water.	anah mala		•		
	B: FL2047. 50-76% petroleum distillate n-butyl benzene, 7-16% toluene, 4-5	% trimethy	l benzene	ne,		d.	
	0-5% water, 1-2% benzene. C: FI.2048 40-50% petroleum oil 25-30  15. Special Handling Instructions and Additional Information	e each pet	roleum				
	distillates, water, 6-1% inorganic	chloride.					r.
	Emergency Contact: Teresa Anava (415)	420-8686	2				
	Use gloves, goggles, and respirator	if drums	are opene	d			
	GENERATOR'S CERTIFICATION: I hereby declare that the contents	s of this consignmen	nt are fully and ac	curately d	escribed above t	ov prope	r shipping name
	and are classified, packed, marked, and labeled, and are in all respenational government regulations.	cts in proper conditi	on for transport b	y highway	according to ap	plicable	international and
	If I am a large quantity generator, I certify that I have a program in pla to be economically practicable and that I have selected the practical	ple method of treatm	ent storage or o	lisposal ci	urrently available	to me w	hich minimizes the
	present and future threat to human health and the environment; OR, i generation and select the best waste management method that is av	f I am a small quant	ity generator I ha	ve made	a good faith effo	rt to mini	imize my waste
	Printed/Typed Name FOR THE PORT	Signature	Λ	₩.	ZTHE POI	et-	Month Day Year
	17. Transporter 1 Acknowledgement of Receipt of Materials	area	MAYA		F OAKLA	MD	01510191910
3	Printed/Typed Name	Signature					Month Day Year
5	HUGEL UMZQUSZ	/					
3	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Cinnatura				··	
	Times/Types Name	Signature					Month Day Year
7	19. Discrepancy Indication Space		1				
		•					
	20. Facility Owner or Operator Certification of receipt of hazardous mater	ials covered by this	manifest except	as noted	in Item 19.		
	Printed/Typed Name	Signature					Month Day Year
22 A	(1/88) Do Not V	Vrite Below This	line				
273	DO NOT V	TITLE DEIOW INIS	FILLE				

18. Transporter 2 Acknowledgement of Receipt of Materials 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.

Printed/Typed Name

Signature

Month Day Year

S 8022 A (1/88)

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EPA 8700-22 (Rev. 9-88) Previous editions are obsolete Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS

To: P.O. Box 400, Sacramento, CA 95812-0400

-		print or type. (Form designed for	use on elite (12-pitch) typewriter.)	7821 s 200 s 200 s 200 s			Fo	orm Approved. O	MB No.	2050-0039. Expires 9-30-9
1	UNI W	FORM HAZARDOUS VASTE MANIFEST	21. Generator's US EPA ID No	1	Manifest Doc	ument No.		Informa	tion in	the shaded
	(C	ontinuation Sheet)	CAD982401	1 2 7	<b>P</b> 0510		2	law.		
	23. Ge	nerator's Name	IT CONTER, IN.	المن الم				Manifest Doc		Number
	233	6th Munus	il To: Port of Oak 530 Water S	land A	ittn: M. I	Eeffes		90099129		
	Oct.	lenc, CA 94627	Oakland, CA	9496	4-2004			Generator's I	D	
	24. Tra	ansporter ? Company Nam	1 70761		EPA ID Numt	ber	N. State	Transporter's	7507	3
П	Mari	rite Control						porter's Phon		34 3
П		insporter _ Company Nam		27. US	EPA ID Numb	oer?	P. State	Fransporter's	ID (4	15)588-2838
	No	ith Easte Phylrona	mintal c	ADC	0050			porter's Phon	1.00	151588-2338
	I HM	DOT Description (Including F	Proper Shipping Name, Hazard (	Class, and	ID Number)	29. Conta No.	Type	30. Total Quantity	31. Unit Wt/Vo	Waste No.
	a.	Wests Cellulose Drug SP2	Ether, Non-RCRA W	aste		1	Dv.	500	P	551- Non-RCRA
	b.	Waste Calcien C Drug S23	Carbonate, Non-RCRA	Waste	a a	1	DM	2002	P	551- Non-RCRA
	c.									
EZER	d.		Ter							
TOR	е.							8		
	f.									
	g.			š.				w.		
	n.				_					
		_		Ŧ.						
1	S. Addit	tional Descriptions for Materia	als Listed Above	8 2*		5. TOWN	T. Handlir	ng Codes for	Waste	s Listed Above
	λ 1	E B: PON 1671E. I	Lab packs. See atte	ached 1	lists for	ârua	and the			
1	32. Spe	cial Handling Instructions and	d Additional Information	receptable	acz em ź			And the Same	· · · · · · ·	hada ta a sa a sa a sa a sa a sa a sa a s
	U£ Sa	s gioves and gogg ficty glasses and	les if drums opened proper respiratory	or lo equipa	eaking al ment.	so uso	(t)			þ
4	2 T	non-dev.						ν .		1
1		nsporter Acknowledge nted/Typed Name	ement of Receipt of Materials	Ciarret	iro.					Date
		neo/Typed Name	18.7	Signatu	re . //	15				Month Day Year
3	4. Trai	nsporter Acknowledge	ement of Receipt of Materials	1 4/1		1	J.K.			Date
	Print	ted/Typed Name		Signatu	ге					Month Day Year
1	5. Disc	crepancy Indication Space								

lease	print or type. (Form designed for use on elite (12-pitch typewriter).	The second secon					Sacramento, Californi
1	UNIFORM HAZARDOUS WASTE MANIFEST  1. Generator's US EPA ID C   A   D   9   8   2   4	9 1 1 2 7	lanifest unent No.		_		he shaded areas by Federal law.
	One of Cakland Mailing Address Port of Cakland Mail to:Port of Oakla 280 6th Avenue 530 Water Str	nd Attn:Michel	le Hef	A. Stat	900	nent Num	41
	Oakland, CA 94607 Oakland, CA 4. Generator's Phone(15) 429-8686	94054-2054			e Generator's ID A   H   Q   3   5	1-10	2 5 8 2 3
	5. Transporter 1 Company Name 6.	US EPA ID Number			e Transporter's II		11272
	North State Environmental ICIA	D   Ø   Ø   Ø   S   Ø   3	171218	D. Tran	sporter's Phone	(115)	500_2020
	7. Transporter 2 Company Name 8.	US EPA ID Number		E. State	e Transporter's II	)	
	111			F. Trans	sporter's Phone		
	Designated Facility Name and Site Address     10.	US EPA ID Number		100.00	e Facility's ID A  D   3   3   1	13181	131212171
	Gonzalez Bucket and Drum Company 1324 Fitzgerald Avenue San Francisco, CA 94124   C A	्र <u>। । । । । । । । । । । । । । । । । । । </u>	_	H. Facil	(415) 922_		,
	11. US DOT Description (Including Proper Shipping Name, Hazard Class,	, and ID Number)	12. Conta	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
G	Empty drums, Non-RCRA Waste Only		4	D M	200	P	State 512 EPA/Other
N			181		<u> </u>		Non-RCRA
E R	Empty containers, Non-RCRA Waste On	1v .		SW		P	State 513
T O		-2	\$ 1	DF	1/7		EPA/Other Non-RCRA
R	C.				Ut.		State
			11				EPA/Other
	d.						State
					1111		EPA/Other
	J. Additional Descriptions for Materials Listed Above			a.	dling Codes for V	Vastes Li b.	sted Above
	A: X55gal empty drums. RESIDUE: Last B: X5gol empty cans. RESIDUE: Last	st contained wat contained wat	ater a er-and	nd oi	11.	d.	
	Pory						
	15. Special Handling Instructions and Additional Information						
	Emergency contact: Teresa Anaya (415 Use gloves, goggles, and respirator)	1)420-8685. If drums are o	pened.	y.			
	16.  GENERATOR'S CERTIFICATION: I hereby declare that the contents	a of this consistent are	fully and an	augatah.	described share	h	
	and are classified, packed, marked, and labeled, and are in all respenational government regulations.	ects in proper condition for	transport b	y highwa	y according to ap	plicable	international and
	If I am a large quantity generator, I certify that I have a program in pla to be economically practicable and that I have selected the practical	ble method of treatment, s	storage, or d	lisposal c	currently available	to me w	hich minimizes the
	present and future threat to human health and the environment; OR, i generation and select the best waste management method that is av	railable to me and that I ca	nerator, i na an afford.	ive made	a good raith end	ort to min	imize my waste
₽ I	Fever Wharm for let & Colland	Signature	hum	S-	P. + for	4/	Month Day Year
T R	17. Transporter 1 Acknowledgement of Receipt of Materials	Moun "	Lowing	VA	JUIT ON UA	KIM	05/070
AN	Printed/Typed Name	Signatu	46				Month Day Year
S P O	18. Transporter 2 Acknowledgement of Receipt of Materials	MY					02/01/0
O R T E	Printed/Typed Name	Signature					Month Day Year
R	19. Discrepancy Indication Space	<u> </u>					
FA							
C							Acceptance
-	20. Facility Owner or Operator Certification of receipt of hazardous mater	rials covered by this mani	fest except	as noted	l in Item 19.		
Ÿ	Printed/Typed Name	Signature					Month Day Year

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

INIFORM HAZADDOLIS 1. Generator's US EPA ID	No.					Sacramento, Californ
WASTE MANIFEST	Docu	lanifest ument No.	2. P	4		he shaded areas by Federal law.
3. Generator's Name and Mailine Address SEA BREEZE YACHT ( 101 of the search field to Fork of Oaklan 236 5th live. 536 Water St.	enter inc. Va Attn:Michel	Roff	A. Sta	te Manifest Docum 901	B64	67
6. Linni CA 56507 Or klond, CA 941 4. Generator's Phone 475 1420-0636	054-2054		B. Sta	te Generator's ID		- W - W
Transporter 1 Company Name     6.	US EPA ID Number		C. Sta	te Transporter's II	in	4202
worth see Programment by	5666666	h h h	D. Trai	nsporter's Phone	(415)	500 2020
7. Transporter 2 Company Name 8.	US EPA ID Number	<del>''                                   </del>	E. Stat	te Transporter's ID		244-7675
h h		h h h	F. Tran	nsporter's Phone	(415)	500 0000
9. Designated Facility Name and She Address 10.	'US EPA ID Number	7 3 6	200000 102	te raciity s io		588-2838
Environ. For Curvious of Table, Inc.		<b>SE</b> 16, 111		DDB 7 B	<u>I:. II. I</u>	H 1, 1) 14
18.5mi 15 of Crandwise, Jp 20524 F b	<u>4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5</u>			(308) 304-1		
11. US DOT Description (Including Proper Shipping Name, Hazard Class	, and ID Number)	12. Conta	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.						State 191
RO, Waste Corresive Solid, NOW (DOUR, I Correcing Caterial (contains: sulfuri	0006) UN1 <b>759</b> Ic Poid,lead)	1	D M	150	P	EPA/Other D202/D339
b DRUM I						State
						EPA/Other
C.						State
·						EPA/Other
d.			$\dashv$			State
			.	1 1 1 1		EPA/Other
76-90% Cictomaceous carth,0-1% lead sul lead.			c.		d.	
15. Special Handling Instructions and Additional Information						
Dmorg may contact: Turner Energy (HES Use gloses, goggles, and respirator	) 429-8666 if drums are (	מיאנס מיאנס				
16.						
GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all respensional government regulations.	s of this consignment are ects in proper condition for	fully and act transport b	curately y highwa	described above I sy according to ap	by prope plicable	r shipping name international and
If I am a large quantity generator, I certify that I have a program in pl to be economically practicable and that I have selected the practica present and future threat to human health and the environment; OR, generation and select the best waste management method that is an	ble method of treatment, s if I am a small quantity ger	torage or d nerator, I ha	isposal	currently available	to me w	hich minimizes the
Printed/Typed Name FOR THE PORT OF ONICLAND AS		IND THE	FURT	OF ONKLAN	JD AS	, Month Day Year
FRESA ANAYA ATTORNEY IN FACT FOR SEA  17. Transporter 1 Acknowledgement of Receipt of Materials	Doresa amay	ATTORN	EX-T	CECT FOR	2 XCHT	073/90
Printed/Typed Name	Signature	7.	1	ENTER, IN	L	Month Day Year
KURT DREISER	Rut	1	a			073190
18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name	Signature			-		Month Day Year
19 Discrepancy Indication Space						
100 to						
20. Facility Owner or Operator Certification of receipt of hazardous mate	<del></del>	fest except	as note:	d in Item 19.		
Printed/Typed Name	Signature					Month Day Year

UNIFORM HAZARDOUS 1. Generator's	Doc	lanifest ument No.	2. Pag	IIIIOIII		he shaded areas by Federal law.
WASTE MANIFEST 3. Generator's Name and Mailing Address Suchbeage Yeacht Center Colors	**************************************	171015	A. State	Manifest Docu		ber
Ath Street on the Water Medianos Phones of 1975			B. State	Generator's ID		
5 Transporter 1 Company Name	6. US EPA ID Number	1 1 1		Transporter's orter's Phone	ID /C	4321
Transporter 2 Company Name Transporter 2	8. US EPA ID Number	7 1 (		Transporter's	<del>(415)</del>	588-2838
9. Designated Facility Name and Site Address	10. US EPA ID Number			Facility's ID		
Gonzaluz Fucket and Drum Company 1334 Fitzgarald Avenue			H. Facilit	y's Phone	<u> </u>	<u> </u>
11. US DOT Description (Including Proper Shipping Name, Ha	izard Class, and ID Number)	12. Cont	Type	13. Total	Unit Wt/Vo	
Weste Di <sup>l</sup> , NOS, NEL276, <b>Co</b> nbus	Stible Liquid	1 1	D M	50	P	State 512 EPA/Other NOD-PCT
b.				1111		EPA/Other
с.						State
				ш		EPA/Other State
d.						EPA/Other
J. Additional Descriptions for Materials Listed Above		Ш	K. Hand	ling Codes for	Wastes I	isted Above
A:lx55gal. Grum. Last contained	oil.		a. c.		b.	
15. Special Handling Instructions and Additional Information  Denty there Continet, 9 feet 7 may be used 12 to the good feet and the special feet and the sp	- (115) /20_0000 ctor 36 drum are d	pravi.				
GENERATOR'S CERTIFICATION: I hereby declare that and are classified, packed, marked, and labeled, and are national government regulations.	e in all respects in proper condition t	or transport	by highway	according to	аррисари	e international and
If I am a large quantity generator, I certify that I have a p to be economically practicable and that I have selected present and future threat to human health and the environ generation and select the best waste management method.	the practicable method of treatment onment: <b>OR</b> , if I am a small quantity (	, storage, or generator, I h	disposal C	urrentiy avallal	pie to me	inimize my waste
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TAYCO ANALY A TOWN IN FACT TOY  17. Transporter 1 Acynowledgement of Receipt of Materials.  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials.	Signature Signature	Ho	2	>		1081061
Tereson Arvaur A Towns IN-FACT 12Y 17. Transporter 1 Adynowledgement of Receipt of Materials. Printed/Typed Name		HE		>		108   06   Month Day
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17. Transporter 1 Acknowledgement of Receipt of Materials.  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials.  Printed/Typed Name	Signature	anifest excep	ot as noted	in Item 19.		Month Day

(

# STATE OF LOUISIANA PARTMENT OF ENVIRONMENTAL QUALITY HAZARDOUS WASTE DIVISION P.O. BOX 44307 BATON ROUGE, LOUISIANA 70804

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

RECYCLE / REUSE MANIFEST Nº 018381 Form Approved. OMB No. 2050-0039. Expires 9-30-91

or's Name and Mailing Address or's Phone ( ) ner 1 Company Name orter 2 Company Name orted Facility Name and Site Address JE SHALE PROCESSORS, INVAY 90 EAST AN CITY, LOUISIANA 70380 Description (Including Proper Shipping	6. US 8. US 10. US 10. US	EPA ID Number  EPA ID Number  EPA ID Number	B. State C. State D. Tran E. State G. State H. Facil	e Generator's ID  Fransporter's ID  sporter's Phone a Transporter's ID  sporter's Phone b Facility's ID  7 \$2  10/5 Phone  [504] 631-  10/1	4 X	<b>7.</b>
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	ndling Instructions and Additional Inform	ndling Instructions and Additional Information	ndling Instructions and Additional Information	ndling Instructions and Additional Information	Descriptions for Materials Listed Above  A PROYCLE CREUSE  A Managing Codes for Materials Listed Above  A property of the	Descriptions for Materials Listed Above  RECYCLE CREUSE  Manual of Materials Listed Above  Additional Information

	FORM HAZARDOUS ASTE MANIFEST	1. Generator's US EPA ID	D	Manifest ocument No.	1	Access to the contract of the		the shaded are		
3. Gener	DEN BRUE LOCATO	CHT CENTER	INC. N	oly taf	A. State Manifest Document Number					
	itor's Phone (	eld Veter fitt finklent, fix	2147 9	Hao 74	B. Stat	te Generator's II	)			
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	orter 2 Company Name	. 1   1   .	US EPA ID Numbe	<u>-   5   3   5  </u>		naporter's Phone le Transporter's	1415	180 - 201		
		G.	US EFA ID NUMBE			sporter's Phone				
9. Designa	ated Facility Name and Site Addres	10.	US EPA ID Numbe	r		te Facility's ID				
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Printed/Typ	ed Name		Signature					Month Day		
19. Discrep	ancy Indication Space		<del></del>			<i>(</i> ,				
20 Ec-112	Owner or Operating States									
20. Facility Printed/Typ	Owner or Operator Certification of ed Name	receipt of hazardous mater		nifest except	as noted	in Item 19.				
	T. T. (1940)		Signature					Month Day		

Do Not Write Below This Line

APPENDIX H
CERTIFICATES OF DISPOSAL OF FUEL TANKS

# 4625-72887 Base like Enviro

### **CERTIFICATE**

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For:Erickson, IncTan Test Method:Visual Gastech/1314 SMP	AND MET AND CONTRACT OF CHARLES OF CONTRACT OF THE INVENTOR AND TAXABLE TO SEE AND THE CONTRACT OF THE CONTRAC	Location: Richmond Date: 10-04-90 Time: 9:00 a.m.						
This is to certify that I have personally determined that are in accordance with the American Petroleum Institution of each to be in accordance with its assigned design	ite and have found the condition	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(s)		Condition						
1- 500 Gal. Tank	Safe for Fire	Oxy 20.9%						
		LEL- Less than 0.1%						
Remarks:								
In the event of any physical or atmospheric changes afthe above tanks, or if in any doubt immediately sto	fecting the gas-free condition of p 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 content of the atmosphere is at least 19.5 percent materials in the atmosphere are within permissable judgment of the Inspector, the residues are not capable under existing atmospheric conditions while maintained certificate.	by volume; and that (b) Toxic concentrations; and (c) In the ble of producing toxic materials as directed on the Inspector's	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 than 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 acknow	wledges receipt of this certificate a	nd understands the conditions and limitations under which it was issued.						
Representative	Title	Inspector						

# Nº 4626-72887 Baseline Enviro

### CERTIFICATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For:Erickson, Inc. Test Method:Visual G	Tankastech/1314 SMPN	( No.(s.)4626	Location: Richmond Date: 10-04-90 Time: 11:00 a.m							
are in accordance with the Ame	rican Petroleum Institu	t the tank(s) in the following list te and have found the condition nation. 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(	s)		Condition							
1- 250	Gal. Tank	Safe for Fire	0xy 20.9%							
			LEL- Less than 0.1%							
Remarks:										
In the event of any physical or at the above tanks, or if in any d	mospheric changes aff oubt immediately stop	ecting the gas-free condition of 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 content of the atmosphere is a materials in the atmosphere are judgment of the Inspector, the funder existing atmospheric concertificate.	at least 19.5 percent t e within permissable d esidues are not capab	concentrations; and (c) In the	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 than 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 acknow		nd understands he conditions and limitations under which it was issued.							
/ /		Title	Inspector							

№ 4627-72887 Baseline Enviro

### **CERTIFICATE**

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For:Ta	nk No.(s.)4627	Location:Richmond Date:10-04-90 Time: 9:00 a.m
Test Method: Visual Gastech/1314 SM	PN	Last Product: Dresex
This is to certify that I have personally determined the are in accordance with the American Petroleum Institute of each to be in accordance with its assigned designed designed to be in accordance with its assigned designed.	tute and have found the condition	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(s)		Condition
1- 250 Gal. Tank	Safe for Fire	Оху 20.9%
		LEL- Less than 0.1%
Remarks:		
In the event of any physical or atmospheric changes at the above tanks, or if in any doubt immediately st	affecting the gas-free condition of op 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 content of the atmosphere is at least 19.5 percent materials in the atmosphere are within permissable judgment of the Inspector, the residues are not capa under existing atmospheric conditions while maintain certificate.	t by volume; and that (b) Toxic e concentrations; and (c) In the able of producing toxic materials	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 than 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 acknowledge of the control of the c	owledges receipt of this certificate a	nd understands the conditions and limitations under which it was issued.
Representative	Title	Inspector

# 4628-72837 Baseline Enviro Nº

### CERTIFICATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For: Erickson, Inc. Tank No.(s.) 4628  Test Method: Visual Gastech/1314 SMPN				lo.(s.)4628	Last Product:  Richmond 10–08–90 1:30 p.m.  Date: Time:					
are in accordar	nce with the Ameri	ican Petr	oleum Institute	ne tank(s) in the following list and have found the condition ion. 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(s)					Condition					
1-	250	Gal.	Tank	Safe for Fire	Oxy 20.9%					
		West of the second			LEL- Less than 0.1%					
Remarks:										
In the event of a	any physical or atm	nospheric ubt imm	c changes affected at the contract of the cont	ting the gas-free condition of II hot work and contact the	undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.					
Safe for Men: content of the materials in the judgment of the	atmosphere is at e atmosphere are e Inspector, the re	t least 19 within pesidues a	9.5 percent by permissable course not capable	o designated (a) The oxygen volume; and that (b) Toxic ncentrations; and (c) In the of producing toxic materials as directed on the Inspector's	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 than 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.					
Representative	The undersigned r	represent	tative acknowle		nd understands the conditions and limitations under which it was issued.					
,				Title	Inspector					

# Nº 4629-72887 Base live Envillo

### CERTIFICATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For: E	rickson, Inc. d:Visual G	Tan astech/1314 SMP	k No.(s.) <u>4629</u> V	Location:	Richmond OiCSel	Date: _	10-04-90 Tir	9:00 a.m
are in accor	dance with the Ame	rican Petroleum Institu	t the tank(s) in the following list ite and have found the condition nation. This certificate is based	on conditions issued subjec	s existing at the time that to compliance with a	ne inspection	on herein set forth wations and instruction	vas completed and is ons.
	Tank(s	s)			Condition			
1-	250	Gal. Tank	Safe for Fire			Os	ky 20.9%	
***************************************			_			LEI	– Less than 0	.1%
Remarks: _								
In the event of the above to	of any physical or ati anks, or if in any de	mospheric changes af	ecting the gas-free condition of oall hot work and contact the	undersigned. changes occu	This permit is valid	d for 24 h	nours if no physic	cal or atmospheric
Safe for Me content of t materials in judgment of	the atmosphere is a the atmosphere are the Inspector, the r	at least 19.5 percent le e within permissable esidues are not capab	e so designated (a) The oxygen by volume; and that (b) Toxic concentrations; and (c) In the le of producing toxic materials d as directed on the Inspector's	of flammable limit; and that producing a hi in the presence and further, (c spread of fire,	e: Means that in the comaterials in the atmost (b) In the judgment gher concentration that e of fire and while main All adjacent spaces hare satisfactorily inertessary by the Inspector.	sphere is b of the Insp in permitte intained as lave either ed, or in the	pelow 10 percent of pector, the residues d under existing atm s directed on the Ins been cleaned suffice	the lower explosive are not capable of ospheric conditions spector's certificate, iently to prevent the
Representative	· Deroghe	representative acknov	rledges receipt of this certificate		/ / 1		derwhich it was iss	sued.

# STATE OF LOUISIANA PARTMENT OF ENVIRONMENTAL QUALITY HAZARDOUS WASTE DIVISION P.O. BOX 44307

EPA Form 8700-22 (Rev. 9/88)

#### RECYCLE / REUSE

1 1 1 1

**DEQ FORM HW-3 (R 9/88)** 

MANIFEST Nº 018391 BATON ROUGE, LOUISIANA 70804 ase print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Information in the shaded areas Manifest **WASTE MANIFEST** is not required by ocument No. Generator's Name and Mailing Address 01 (2) to its Region in The section Align 194 94 B. State Generator's ID Generator's Phone ( tire william hoffen Prik Cing & Company Transporter 1 Company Name 6. US EPA ID Number C. State Transporter's ID double of the lines of the 7. Transporter 2 Company Name E. State Transporter's ID US EPA ID Number F. Transporter's Phone 9. Designated Facility Name and Site Address US EPA ID Number G. State Facility's ID क्षा १ - (१४४) है व क्षांतर कामार्थ क MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST H. Facility's Phone MORGAN CITY, LOUISIANA 70380 (504) 631-3161 1L|A|D|9|8|1|0|5|7|7|0|6 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 13. 1. Unit Total Waste No. Туре Quantity Wt/Vol No . . . . . . Mon-non; R B= NON-RICHA H R . 97 R and the same d J. Additional Descriptions for Materials Listed Above / ponty of PECYCLE CREUSE'S 1gb 4g acts. A standard for the control of t Comment with the second Promotor Both time 4 15. Special Handling Instructions and Additional Information IF UNABLE TO DELIVER, RETURN TO GENERATOR 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature Month Day Year 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Month Day Signature Year

WHITE - DEQ, GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator

280	print or type. (Form designed for use on elite (12-pitch typewriter).				Sacramento, California		
4	UNIFORM HAZARDOUS  1. Generator's US EPA ID WASTE MANIFEST	he shaded areas by Federal law.					
	3. Generator's Name and Mailing Address	A. State Manifest Document Number					
	Seabreeze Yacht Center, Inc. Mail to 285 6th Avenue	90186605  B. State Generator's ID					
	Oakland CA 94607 4. Generator's Phone (415) 426-8686 Attn:	Oakland, CA 9460 Michele Heffes	Reffes				
	5. Transporter 1 Company Name 6.	C. State Transporter's ID 0 4323 D. Transporter's Phone					
	7. Transporter 2 Company Name	DISTRICTION NUMBER 7 3 8	E. State Transp	Ottell 8 ID	588-2838		
	A . A .	D 66 6PALID Sauriber 3 / 3 8	F. Transporter's G. State Facility		588-2838		
	Solvent Services, Inc.		Claiple H. Facility's Pho	als la	اهایایاها		
	1021 Berryessa Road San Jose, CA 95133   C A	DIRISIPIA   3   3   2   6   6   9   9   9   9   9   9   9   9	tainers (48.0				
	11. US DOT Description (Including Proper Shipping Name, Hazard Class,	and ID Number) No.		Partity Out Only Only Only Only Only Only Only Only	Waste No.		
GEN	Waste Paint, Flammable Liquid, UN120 Drums 1-9	63 9	D M 525	5 G	331 EPA/Other DØØ1		
RAT	Po Waste Flamable Liquid Nos, Unit	993	D.N5	_N+ G	State EPA/Other		
2	c.	2			State		
	Waste Oil, Flammable Liquid, NA1270 Drums 12,13, WK	- P	D M	G	221 EPA/Other DØG1		
	d.				State		
			1, 1, 1,	1.1	EPA/Other		
	J. Additional Descriptions for Materials Listed Above	( v. )		des for Wastes L b.	isted Above		
	A: 8x55gal,1x85gal drums.FL2073. 10-20 0-20% titanium calcium, 30-40% mineral 20-30% polyester resin. B: 2055gal drums.FL2073.	titanium dioxide spirits 6-5% wat	ic;	<b>d.</b>			
	15. Special Handling Instructions and Additional Information		e Alk				
	NH.	16_569 metroloum	ail as a	90 anah			
	distillates, water, N-1% inorganic chl Emergency Contact: Teresa Anaya (415	3. 46-50% petroleum loride. 5) 426-8585		n* escu	petroleum		
	GENERATOR'S CERTIFICATION: I hereby declare that the contents	s of this consignment are fully and a	ccurately describe	d above by prope	r shipping name		
	and are classified, packed, marked, and labeled, and are in all respenational government regulations.	# 30 DE					
	If I am a large quantity generator, I certify that I have a program in plate to be economically practicable and that I have selected the practical present and future threat to human health and the environment; OR, if generation and select the best waste management method that is averaged.	ole method of treatment, storage, or f I am a small quantity generator, I h	disposal currently	available to me w	hich minimizes the		
	Printed/Typed Name By Port of Oakland by Michele Hettes as Attorny-in Fort	Signature State A	Sachie	1170,4,	Month Day Year		
1 L	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature Signature	DIM		Month Day Year		
	KUPT DREGER	Lutho	2		01910480		
	18. Transporter 2 Acknowledgement of Heceipt of Materials Printed/Typed Name	Signature			Month Day Year		
4	19. Discrepancy Indication Space						
.	To. Discrapancy indication Space				,		
					•		
-	20. Facility Owner or Operator Certification of receipt of hazardous mater	rials covered by this manifest excep	t as noted in Item	19.			
	Printed/Typed Name	Signature			Month Day Year		

						Sacrament	o, oamon				
WASTE MANIFEST CADPBE # BLLET BB	ument No.		of <sub>1</sub>	is not r	equired	by Federal law					
Oakland, CA 94507 Oakland, CA 9	t.	B. Sta	g te Generat	018	366	<b>06</b>					
5. Transporter 1 Company Name 6. US EPA ID Number					10	1120	3				
North State Environmental PADEEBER	<b>b b b</b>	D. Transporter's Phone									
7. Transporter 2 Company Name 8. US EPA ID Number	W 13 15	E. Sta	te Transpo	rter's ID	4131	300=2634	. 1.				
North State Projectors	444	<u> </u>			LANEL	500 000					
Designated Facility Name and Site Address 10. 10 OS EPA ID Number	INFEST CADDED NO CALLED CONTROL OF THE CONTROL OF T	200-2030									
Envirosafe Services of Idaho, Inc.	merator's US EPA ID No.  D Manifest  D B P M D D P D D D D D D D D D D D D D D D	4 16 15 14	<u> </u>								
18.5mi No of Grandview, TO 83624 to bok h la h la	Manifest   State   Manifest   State   Manifest   Mani										
US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)					Unit		No.				
Non-RCRA Hazardous Waste Solid Drums 1-7	7	DM	40	22	P	611 EPA/Other	李禄.				
Diano 1-1	$\perp$		11 1	TY			CRA				
						State					
×			1 .	1 1		EPA/Other					
				—		State					
		1	1.1			EPA/Other	147 1.0				
						State Control	27. M. Ve				
						EPA/Other					
Additional Description for Maria I have			11				36 Y				
DON 1571D 00 1000 1		<b>a</b> .	* **		D.	. 7					
: PCN 1671D. 9g-186% soil, 9-5% gasoline, 8.61ppm b.21ppm cadmium, 8.81ppm chromium, 6.41ppm lead.	parium				d.						
5. Special Handling Instructions and Additional Information Emergency contact: Teresa Anaya (415) 420-8685 Use gloves, goggles, and respirator if drums are	opened	C.									
5. Special Handling Instructions and Additional Information Divergency contact: Teresa Anaya (415) 428-8685 Use gloves, goggles, and respirator if drums are  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment, present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I certified.	opened  fully and ac or transport to e and toxicity storage, or ce	c. curately by highw	ay according a generate currently a	ng to ap	by proper plicable	international a I have determi hich minimizes imize my waste	ned the				
Special Handling Instructions and Additional Information Emergency contact: Teresa Anaya (415) 420-8685 Use gloves, goggles, and respirator if drums are  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment; present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I content to the selected the practicable method of treatment; present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I content to the selected the practicable method of treatment; present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I content to the selected the practicable and that I am a small quantity generation and select the best waste management method that is available to me and that I am a small quantity generation.	opened  fully and ac or transport to e and toxicity storage, or ce	c. curately by highw	ay according a generate currently a	ng to ap	by proper plicable	international a I have determi hich minimizes imize my waste	ned the				
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5. Special Handling Instructions and Additional Information Emergency contact: Teresa Anava (415) 426-8685 Use gloves, goggles, and respirator if drums are  6.  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are and are classified, packed, marked, and labeled, and are in all respects in proper condition to national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume to be economically practicable and that I have selected the practicable method of treatment; present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I crinted/Typed Name  Signature	opened opened of the state of t	curately by highway of wast disposal ave mad	e generate currently a e a good fa	ng to ap	by proper plicable	I have determined and international and internat	Year 190				

16924	print or type. (Ferm designed for use on elite (12-pitch typewriter).				Sacramento, California
1	UNIFORM HAZARDOUS  1. Generator's US EPA ID No.  WASTE MANIFEST  CIAID 9 8 12 14 0 11 11 12 17 9 9 9 0	nt No.	2. Page 1		the shaded areas by Federal law.
	3. Generator's Name and Mailing Address Seabreeze Yacht Center/Gokland Airport		A. State Manife	01868	56
	6th Street on the Water Oakland CA. 94607 4. Generator's Phone(15) 420-8686		B. State Genera		
	5. Transporter 1 Company Name 6. US EPA ID Number		C. State Transp	orter's ID	11271
	North State Environmental	1210	D. Transporter's		Y) C/
	7. Transporter 2 Company Name 8. US EPA ID Number	1313	E. State Transp	orter's ID	1-268-7838
			F. Transporter's		
	Designated Facility Name and Site Address     10. US EPA ID Number		G. State Facility		
	Gonzalez Bucket and Drum Company 1324 Fitzgerald Avenue San Francisco, CA 94124		H. Facility's Pho	one	13 2 2 7
	, , , , , , , , , , , , , , , , , , , ,	2. Conta		922-3134	I.
	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	No.	Туре	entity Unit Wt/Vo	Waste No.
G E N	Waste Oil, NOS, NA1270, Combustible Liquid	7	D F 7	<b>O</b> P	513 EPA/Other Non-RCRA
E	b.				State
R A	Waste Acetone, Flammable Liquid, UN1090	1	DM 5	O P	512 EPA/Other
O R	-	لل	<u> </u>	11 -	Non-RCRA
н	c.				State
					EPA/Other
	d.		+++		State
		11		1.1	EPA/Other
	J. Additional Descriptions for Materials Listed Above A:7x5gal poly empty drums that last contained motor of B:1x55gal metal empty drum that last contained acetor	oil.	K. Handling Cod a.	des for Wastes L b.	isted Above
			C.	d.	
	15. Special Handling Instructions and Additional Information (415) 420-8686 Use gloves, goggles, and respirator if drums are open	ened.			-
	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and are classified, packed, marked, and labeled, and are in all respects in proper condition for trainational government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and to be economically practicable and that I have selected the practicable method of treatment, store present and future threat to human health and the environment; OR, if I am a small quantity generation and select the best waste management method that is available to me and that I can a	toxicity age, or di ator, I ha	y highway accord of waste general isposal currently	ling to applicable ted to the degree available to me v	international and  I have determined which minimizes the
	Printed/Typed Name For the Port of Cold Signature For	7/10	Port of	Fact	Month Day Year
	Patricia Mirush AS Atomer 12 Got VIII 1 1	2 44	Calvino !	MICH	091250
T R	17. Transporter 1 Acknowledgen and of Receipt of Materials 1997	11/	1 11	Tinc	
RANSPORTE	Printed/Typed Name  Signatury  V	1		•	Month Day Year
Ö R	18. Transporter 2 Acknowledgement of Receipt of Materials	~			0110
Ī	Printed/Typed Name Signature				Month Day Year
R	19. Discrepancy Indication Space				
F					
Ĉ					
Ļ	00 F114- O O O O			10	
ţ	20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest  Printed/Typed Name    Signature	t except	as noted in Item	19.	Month Day Year
7	Signature				I I I I I

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7660

	WASTE MANIFEST Ch D 9 8 2 4	0 1 1 2 7 010	2101011	A 00				by Federal law.
	01	: Port ol Oal	cland	A. Sta				
	Oakalnd, CA 94607 4. Generator's Phone (	530 <b>Bac</b> er £	St.	100000000000000000000000000000000000000	ite Generati			
	5. Transporter 1 Company Name 6.	US EPA ID Number	94614		te Transpor	rter's E	10	2000
	DILLARD TRUCKING YAL	0191811161917	1809		nsporter's l	/4	415	134-0
	7. Transporter 2 Company Name 8.	US EPA ID Number			naporter's f		as ID /O P P P P P P P P P P P P P P P P P P	,
	9. Designated Facility Name and Site Address 10.	US EPA ID Number			te Facility's			
	Erickson, Inc. 255 Parr Blvd.			H. Fac	l	•	Sey Hole Barrow Wester List b.	Щ
+	Richmond, Ca. 94801 CAI	0009466			V	-	7	5-1393
1	11. US DOT Description (Including Proper Shipping Name, Hazard Class, a.	and ID Number)	12. Cont	Type	13. Tot Qua		Unit	
	Waste Empty Storage Tank NON-RCRA							State 512
L	Hazardous Waste Solid.		0015	T, P	015	010	P	EPA/Othe No
	b.							State
								EPA/Other
-	c.							State
								EPA/Other
H	d.	•						State
								EPA/Other
-	J. Additional Descriptions for Materials Listed Above							- * '# , . , h
-	15. Special Handling Instructions and Additional Information  Keep away from sources of ignition.	Always wear h	nardhat	s wh	en word	kine	aro	umd
- 1	U.S.T. 's							
	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respensational government regulations.	cts in proper condition fo	r transport b	y highw	ay accordin	g to ap	plicable	international and
A STATE OF THE PERSON NAMED IN COLUMN 1 AND THE PERSON NAMED IN CO	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respensational government regulations.  If I am a large quantity generator, I certify that I have a program in plate to be economically practicable and that I have selected the practicab present and future threat to human health and the environment; OR, if generation and select the best waste management method that is avi	cts in proper condition to ace to reduce the volume ble method of treatment, if I am a small quantity of	and toxicity storage, or c	of was	ay accordin	o to ap	degree	I have determin
A C	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respensational government regulations.  If I am a large quantity generator, I certify that I have a program in plat to be economically practicable and that I have selected the practicab present and future threat to human health and the environment; OR, if generation and select the best waste management method that is aviously and the program of the program o	cts in proper condition for ace to reduce the volume ble method of treatment, if I am a small quantity ge allable to me and that I c	and toxicity storage, or c	of was	ay accordin	o to ap	degree	I have determin hich minimizes t imize my waste
A C	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respenditional government regulations.  If I am a large quantity generator, I certify that I have a program in plat to be economically practicable and that I have selected the practicab present and future threat to human health and the environment; OR, if generation and select the best waste management method that is avidently that the property of th	cts in proper condition for ace to reduce the volume ble method of treatment, if I am a small quantity ge allable to me and that I c	and toxicity storage, or c	of was	ay accordin	o to ap	degree	I have determin hich minimizes t imize my waste
F	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respensational government regulations.  If I am a large quantity generator, I certify that I have a program in plate to be economically practicable and that I have selected the practicable present and future threat to human health and the environment; OR, if generation and select the best waste management method that is averaged to the program of the program	cts in proper condition to ace to reduce the volume ble method of treatment, if I am a small quantity ge allable to me and that I c	and toxicity storage, or c	of was	ay accordin	o to ap	degree	I have determin hich minimizes timize my waste Month Day
F	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respensational government regulations.  If I am a large quantity generator, I certify that I have a program in plat to be economically practicable and that I have selected the practicab present and future threat to human health and the environment; OR, if generation and select the best waste management method that is aviously and the program of the program o	cts in proper condition to ace to reduce the volume ble method of treatment, if I am a small quantity ge allable to me and that I c	and toxicity storage, or c	of was	ay accordin	o to ap	degree	I have determin hich minimizes timize my waste Month Day
F	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respensational government regulations.  If I am a large quantity generator, I certify that I have a program in plat to be economically practicable and that I have selected the practicab present and future threat to human health and the environment; OR, if generation and select the best waste management method that is aviously and the program of the program o	cts in proper condition for ace to reduce the volume ole method of treatment, if I am a small quantity geallable to me and that I c	and toxicity storage, or c	of was	ay accordin	o to ap	degree	I have determin hich minimizes, imize my was e Month Day
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•	Pleas	e print or type. (Form designed for use on elite (12-pitch typewriter).						Sacramento, Californ
	4	UNIFORM HAZARDOUS  1. Generator's US EPA ID		anifest iment No.	2. F			he shaded areas
_		WASTE MANIFEST	hhbbeh	hbb				by Federal law.
1		3. Generator's Name and Mailing Address			A. Sta	1te Manites 1	Senson Fym	22
		Port of Cakland Mail to: Port of 530 Water Street 530 Wat	cakland ter St.		_	30	TOOL	33
		Caliland Photo 94604-2064 Cakland	L. CA. 94504-2	254	2001000 2000000	te Generator	170.477	
		5. Transporter 1 Company Name	L. CA. 945C4-2 peresa Anaya US EPA ID Number		H	AHPB	6-10	12  5  8  2  3
	8	5. Transporter I Company Name 6.	US EPA ID Number			te Transporte	-	14221
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-	5	7. Transporter 2 Company Name 8.	US EPA ID Number			te Transporte		
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٥		11. US DOT Description (Including Proper Shipping Name, Hazard Class,	and ID Number)	No.		Quanti	ty Unit	Waste No.
K 3	5	a.		140.	Туре		Wt/Vol	State
		Non-RCRA Hazardous Waste Solid		5	DM	7~-	_ n	511
MI NEW	E	Drums 1-5		11	0 11	35°	O P	EPA/Other NON-RCRA
		b.					-	State
8	A A							
4.4	0			1.1		111		EPA/Other
<b>*</b> 54	R	c.					•	State
8	3							EPA/Other
								Li Ai Culei
CENTER 1-800-424-8809-		d.						State
L. C	3			ĺ				EPA/Other
T.	4	J. Additional Descriptions for Materials Listed Above		$\perp$		ndling Codes 1		
			NAMES SECTION OF SAMES		a.	idling Codes i	b.	sted Above
RESPONSE		A: PCN 1671D. 55gal drums: 90-100% soi	1, 0-5% gasol	ine.				
					C.		d.	
N N								
NATIONAL		15. Special Handling Instructions and Additional Information		1				
		Francis contract of	****					
_ #		Emergency contact: Theresa Anaya ( Use gloves, goggles, and respirator	415)429-8586.	hanad				
# =		January and Looperador	ar drain are	of server	•			
3		16.						
Ë.		GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified, packed, marked, and labeled, and are in all respectively expected.	of this consignment are f	ully and acc	curately	described abo	ove by proper	r shipping name
SPILL		national government regulations.						
<b>8</b> 8		If I am a large quantity generator, I certify that I have a program in pla to be economically practicable and that I have selected the practicab	le method of treatment si	orane or d	ienneal /	currently avail	able to me w	hich minimizes the
Secretary and		present and future threat to human health and the environment; OR, if generation and select the best waste management method that is ave	I am a small quantity ger	erator I ha	ve made	a good faith	effort to mini	imize my waste
W X		Printed/Typed Name A J & Port n/ Calling (	Signature Chil	M	<del>'                                    </del>			Month Day Year
S. S.		Patricis Mariala 1 6 Cons	Oak-as all	June 1	WE	acl F		Month Day Year
EMERGENCY	T	17. Transporter 1 Acknowledgement of Receipt of Materials	Yorka					
N X	A	Printed/Typed Name	Signature	750				Month Day Year
R	N S	KURT DOEGER	-	11	1	-		11.21.00
	P	18. Transporter 2 Acknowledgement of Receipt of Materials		1		<del></del>	7-10-20-20-20-20-20-20-20-20-20-20-20-20-20	112670
CASE	R	Printed/Typed Name	Signature					Month Day Year
Z	E							
		19. Discrepancy Indication Space						
	F							
	Ċ							
	Ĺ	OO Facility Output O						
1000	Ţ	20. Facility Owner or Operator Certification of receipt of hazardous materi		est except	as noted	in Item 19.		
	Y	Printed/Typed Name	Signature					Month Day Year
	S 8022							

	HAMPOON HATABOOM I Consider to see in						
	UNIFORM HAZARDOUS WASTE MANIFEST  1. Generator's US EPA ID	Doc	Manifest cument No.	2. Page 1	Intorn		the shaded areas by Federal law.
Ī	General Company of the Company A A L. T. A. C. A. P. C. P. C. A. P			1			
	Generator's Phone (	tei etri. del -	lr ins	A. State Ma		<u>857</u>	32
- 1.	Generator's Phone (			B. State Ge			
	Transporter 1 Company Name 8.	US EPA ID Number	607	H A It	151519	1-1-	12/5/5/17/13
				C. State Tra			432/
1	. Transporter 2 Company Name 8	US EPA ID Number	12 1 1 2	E. State Tra		1415	150:-7513
	1.1.1		F 1 1	F. Transport			
1	. Designated Facility Name and Site Address 10.	US EPA ID Number		G. State Fac	ility's ID		
	(in and it is a fine of the control			CIAIS	191311	1219	131313171
	Consoler Recket and Draw Colling 1996 Fitzgerald evenue Sea Francisco, SA COLL		-	H. Facility's	Phone	1.1.	
L	S. a. Fred C. Co		1:1:1:1:	(31	51000-	3159	
l,	US DOT Description (Including Proper Shipping Name, Hazard Class,	and ID Number)	12. Conta		. Total	14.	l
-		, and ib Number)	No.	Туре	Quantity	Unit Wt/Vol	Waste No.
ľ	Voigto Doint toll to	·					State 312
	Weste Paint Follotes retorici, Meles communicia di pid	, <del>t</del>	1	j) -4	50	.7	
F				1.	$TY_{\perp}$		EPA/Other
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J	Additional Descriptions for Materials Listed Above			K. Handling	Codes for V	Vastes Li	sted Above
ŀ				a.		b.	
	A: 55gal capty drum. Last contained;	paint thinner.	.				
				C.		d.	
L	-		1				
1:	i. Special Handling Instructions and Additional Information						
	Eretjancy contact: Turesa France (4)	11477-000					
	Energiary contact: Turesa frage (ap the gloves, goggles, and respirator)	if Sours are a	nannd.				
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76	*						
	GENERATOR'S CERTIFICATION: I hereby declare that the contents and are classified packed, marked, and labeled, and are in all respensional popularities.	s of this consignment are cts in proper condition for	fully and acc r transport by	curately descri	bed above I ording to an	by proper	shipping name
	national government regulations.						
	If I am a large quantity generator, I certify that I have a program in pla to be economically practicable and that I have selected the practicab	tie method of treatment o	thorono or d	ienneal current	he available	to me	hiah miniminan sha
	present and future threat to human health and the environment; OR, if generation and select the best waste management method that is ave	f I am a small quantity ga	nerator I has	ve made a goo	d faith effo	rt to mini	mize my waste
Pr	nted/Typed Name	Signature		-1			Month Day Year
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17	Transporter 1 Acknowledgement of Receipt of Materials	1. 7 %	1	<del></del>			111 31 17 3
_	nted Typed Name	Signature	7	1	-		Month Day Year
	KURT DRELATER	1	1/1	and the			1/11/21/ 10
18	Transporter 2 Acknowledgement of Receipt of Materials		1				114670
Pr	nted/Typed Name	Signature					Month Day Year
19	Discrepancy Indication Space						
	Facility Owner or Operator Certification of receipt of hazardous materia	ials covered by this mani	fest except a	as noted in Ite	m 19.		
Pri	nted/Typed Name	Signature	***************************************				Month Day Year
	1						

IN CASE OF AN EMERGENCY OR SPILL, CALL

THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

# № 4625-72887 Base like Enviro

#### **CERTIFICATE**

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For: <u>Erickson, Inc.</u> Test Method: <u>Visual Gaste</u>		)4625	Last Product: Richmond Date: 10-04-90 Time: 9:00 a.m.
This is to certify that I have personally are in accordance with the American I of each to be in accordance with its	Petroleum Institute and I	have found the condition	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(s)			Condition
1- 500 G	al. Tank Sa	afe for Fire	Oxy 20.9%
			LEL- Less than 0.1%
Remarks:			
In the event of any physical or atmosp the above tanks, or if in any doubt			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 com content of the atmosphere is at lead materials in the atmosphere are with judgment of the Inspector, the residu under existing atmospheric conditions certificate.	st 19.5 percent by volu nin permissable concen es are not capable of pi	ime; and that (b) Toxic strations; and (c) In the roducing toxic materials	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 than 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.
K. Deeah	sentative acknowledges	receipt of this certificate a	and understands the conditions and limitations under which it was issued.
Representative	-	Title	Inspector

## № 4626-72887 Baseline Enviro

#### CERTIFICATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For:	Erickson	, Inc.		Tank No	4626	Location:	Richmond	_ Date: _	10-04-90	11:00 a.m
Test Me	ethod:V	isual G	astech/1	L314 SMPN		Last Product:	Desel	_ Date	Time:	
are in ac	ccordance wit	h the Ame	rican Petro	leum Institute a	e tank(s) in the following list and have found the condition on. This certificate is based	on conditions issued subjec	existing at the time the	e inspectio	on herein set forth was tions and instructions.	completed and is
		Tank(	s)				Condition			
1-	- 2s	50	Gal.	Tank	Safe for Fire			Ox	y 20.9%	
								LEL	- Less than 0.1%	/ 0
Remarks	s:									
In the ev	vent of any phy ve tanks, or i	sical or at f in any d	mospheric oubt imme	changes affect ediately stop al	ing the gas-free condition of I hot work and contact the	undersigned. changes occu	This permit is valid	l for 24 h	nours if no physical	or atmospheric
Safe for content material judgmen	of the atmos is in the atmo nt of the Inspe- xisting atmosp	s that in the sphere is a sphere ar ector, the i	at least 19 e within p esidues ar	.5 percent by ermissable cor e not capable of	o designated (a) The oxygen volume; and that (b) Toxic centrations; and (c) In the of producing toxic materials s directed on the Inspector's	of flammable limit; and that producing a hi in the presenc and further, (c spread of fire,	materials in the atmos (b) In the judgment of gher concentration that the of fire and while maints) All adjacent spaces h	phere is b of the Insp n permitted ntained as ave either ed, or in the	t so designated (a) The elow 10 percent of the pector, the residues and d under existing atmosp d directed on the Inspe- been cleaned sufficien e case of fuel tanks, hav	e lower explosive e not capable of pheric conditions ctor's certificate, itly to prevent the
. K	The (un	dersigned	representa	ative acknowled	lges receipt of this certificate	and understands	he conditions and limit	itations un	der which it was issue	d.
Represen	ntative	7)		-	Title	Inspector		/		

№ 4627-72887 Baseline Enviro

#### CERTIFICATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For:	Erickson, Inc.		Tank No	(s.) <u>4627</u>	•	Location: _	Richmond	_ Date:	10-04-90 Time: _	9:00 a.m.
Test Met	thod: Visual	Gastech/	/1314 SMPN			Last Product:	presel			
are in ac	o certify that I have per cordance with the Ame to be in accordance w	erican Petro	oleum Institute ar	nd have found t	he condition	on condition issued subje	s existing at the time the	e inspectior Il qualificati	n herein set forth was coons and instructions.	ompleted and is
	Tank	(s)					Condition			
1-	250	Gal.	Tank	Safe for F	ire			Оху	y 20.9%	
				1.0000		APA interes victoria de la compania		LEL	- Less than 0.1%	
Remarks	::									
	ent of any physical or a ve tanks, or if in any o					undersigned changes occ	d. This permit is valid ur.	d for 24 ho	ours if no physical c	or atmospheric
Safe for content materials judgmen	d Safety Designation: or Men: Means that in the of the atmosphere is in the atmosphere a at of the Inspector, the isting atmospheric cor e.	at least 19 re within p residues a	9.5 percent by voermissable conc are not capable o	olume; and the centrations; and producing to	at (b) Toxic d (c) In the cic materials	of flammable limit; and the producing a l in the presen and further, ( spread of fire	re: Means that in the coe materials in the atmost at (b) In the judgment and the concentration that are of fire and while mains are satisfactorily inertessary by the Inspector.	sphere is be of the Inspe in permitted intained as lave either b ed, or in the	Flow 10 percent of the ector, the residues are under existing atmospl directed on the Inspected on cleaned sufficient	lower explosive not capable of heric conditions tor's certificate, ly to prevent the
- /	The undersigned	drepresent	tative acknowled	ges receipt of t	his certificate a	nd understands	the conditions and lim	itations und	ler which it was issued	
Represen	tative			Title		Inspector				

Nº 4628-72837 Baseline Enviro

#### CERTIFICATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For: Erickson, Inc. Tank Test Method: Visual Gastech/1314 SMPN	4628 (No.(s.)	Last Product:    Richmond   10-08-90   1:30 p.m
This is to certify that I have personally determined tha are in accordance with the American Petroleum Institu of each to be in accordance with its assigned design	te and have found the condition	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(s)		Condition
1- 250 Gal. Tank	Safe for Fire	0xy 20.9%
		LEL- Less than 0.1%
Remarks:		
In the event of any physical or atmospheric changes aff the above tanks, or if in any doubt immediately stop	ecting the gas-free condition of 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 content of the atmosphere is at least 19.5 percent that materials in the atmosphere are within permissable in the properties of the Inspector, the residues are not capable under existing atmospheric conditions while maintaine certificate.	by volume; and that (b) Toxic concentrations; and (c) In the le of producing toxic materials	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 than 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 sailsfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.
h. Sugher		and understands the conditions and limitations under which it was issued.
Representative	Title	Inspector

### № 4629-72887 Base live Envilla

#### CERTIFICATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

For:	Erickson, Inc.		Tan	k No.(s.)	Location:	Richmond	Date:	10-04-90		9:00 a.m.
Test Metho	od:Visual G	astech/	1314 SMP	N	_ Last Product: .	Diesel			. 111116	
are in acco	ordance with the Amer	ican Petro	oleum Institu	at the tank(s) in the following list ute and have found the condition nation. This certificate is based	on conditions issued subject	s existing at the time that to compliance with a	e inspectio	on herein set for tions and instri	rth was co uctions.	ompleted and is
	Tank (s	;)				Condition				
1-	250	Gal.	Tank	Safe for Fire			Ох	y 20.9%		
							LEL	- Less than	n 0.1%	
Remarks:										
In the even the above	t of any physical or att tanks, or if in any de	nospheric	c changes af ediately sto	fecting the gas-free condition of p all hot work and contact the	undersigned changes occu	. This permit is valid ur.	d for 24 h	ours if no ph	ysical or	r atmospheric
Safe for I content of materials i judgment of	the atmosphere is a n the atmosphere are of the Inspector, the r ting atmospheric cond	it least 19 e within p esidues a	9.5 percent permissable re not capal	ce so designated (a) The oxygen by volume; and that (b) Toxic concentrations; and (c) In the ole of producing toxic materials ed as directed on the Inspector's	of flammable limit; and tha producing a h in the presend and further, (d spread of fire,	e: Means that in the co materials in the atmost t (b) In the judgment igher concentration that ce of fire and while ma c) All adjacent spaces to are satisfactorily inerti- ssary by the Inspector	sphere is b of the Insp in permitted intained as nave either ed, or in the	elow 10 percent pector, the resid d under existing directed on the been cleaned si	nt of the lo dues are i atmospho e Inspecto ufficiently	ower explosive not capable of eric conditions or's certificate,
<u> </u>	). Derghe	represent	tative acknow	wledges receipt of this certificate		///	itations un	der which it wa	ıs issued.	
Representat	tive -			Title	Inspector			17/		

THIS SHIPPING OF	RDER must be legibly filled in,	in lnk, in indelible Pencil, or in	THE CALL TOLL-TO	122 1-000-424-8	5000 DAT CIT	1113111
	Carbon, and re	tained by the Agent.		Shipper's	No	
CARRIER: Erricks	on. Trucking Inc.	SCA	•	Carrier's	No	019
TO: LMC Cor					Date	
	4th St.	FROM: Shipper	Erickson, 255 Parr			
	nd, Ca. 94805	Street	Richmond,		11	
Destination	Zip	Origin	iddinai,	<b>ca.</b> 5400	7 7	Zip
Berte				Veh		
Route:	ckages. Description of Articles	HAZARD	I.D.	Num WEIGHT	nber	LARFI C DEQUIDED
Units HAZARDOUS MAT	ERIALS - PROPER SHIPPING NA	ME) CLASS	Number	(subject to correction)	RATE	LABELS REQUIRED (or exemption)
NON-D.	O.T. REGULATED MATE	TRIAL NON-HAZARDO	ous, gas fi	REE		
UNDERGROUND	STORAGE TANKS FOR	SCRAP.				
72887/	100					
72977/461	2 172983-4616	NONE	N/A	N/A	N/A	NONE
72985/110	20 02001/15	7-				
103/45	151 12874-43	45		-		
72~	14/do9-000 C					
Remit C.O.D. to:	1	•	_			C.O.D. FEE:
Address: City:	( State: Zip:	_   ՄՈ	A Amer.			repaid 🔲
NOTE — Where the rate is dependent on value	The state of the s		TO THE STORY OF THE PARTY.	The state of the section	recourse on the	
ing the agreed or declared value of the property is hereby specifically stated by the shipper to be	. The agreed or declared value of the pro not exceeding \$ Per	operty The corner of Consents	K (I	clebe	orgen.	FREIGHT CHARGES  PREPAID COLLECT
RECEIVED, subject to the classifications and law packages unknown), marked, consigned, and dest contract) agrees to cerry to its usual place of deli over all or any portion of said route to destination the governing classification on the date of shipmer Shipper hereby certifies that he is familiar with assigns.	and as a each party at any time interested in	all or any said property, that every serv	ice to be performed hereu	nder shall be subject	to all the bill of la	ading terms and conditions in
This is to certify that the above-named materials are proper labeled and are in proper condition for transportation as Department of Transportation.  Per		LACARDS EQUIRED			YES NO-	— FURNISHED BY CARRIER RE:
SHIPPER: Erickson,		CARRIE	R: FMC	K5001 1	RC	
PER: Shannan I	OWICY	PER:	USi	Da Ola	L	****
DATE: /	0.4-90	DATE:	10/	4/90		
TELEPHONE NUMBER: ( )	·	Manned 24 hou emergency resp	onse information o	r who has acces	ss to a person	ards of the material and n with that knowledge.
*	FIRE OR EXPOSURE CA	ICAL EMERGENCIES INVOLVI ALL TOLL-FREE 1-800-424-9 WEIGHMASTER CERTIFICATE	NG SPILL, LEAK, 300 DAY OR NIGHT	Ī.		must sign the Original Bill of Lading 9-BLS-A3 (Rev. 9/88)
IS TO CERTIFY that the following described co oter 7 (commencing with Section 12700) of Division	mmodity was waighed mooning or on-	metand but a contain an ada	nature is on this certific Division of Measuremen	cate who is a recont Standards of the	gnized authority California Depa	y of accuracy as prescribed artment of Food and Agricultu
METALS	8	4				•
A DIVISION OF SIMSMETAL USA CORPORATIO 600 SOUTH 4th STREET					TICH	KET# 20256
RICHMOND, CALIFORNIA 94804 (415) 236-0606		10201-1 UNF	State of the state			
OCCUUNT:22168801		/ TON:\$ PRICE:\$	PA	Y WEIGH	T: 50	740
RICKSON INC.		T ADJUSTMENT:	Ø	DEDCEN	T	L×*/
		BOUND WEIGHT:	930	PERCEN	I WARES	~ /*
	3					
ASH I.D.:		TRUCK NO	).	LICE	NSE NO	0.1 <b>B5</b> 5413
SERIO DATA ZIMA CO	DRIU				/	
35800 (M) Gross ( ■30760 Tare W	Weight Lbs. 10/0		FRT, CO	D5:1 CO	ST:\$	0.00
30760 Tare W 5040 Net We		04/90- 10:26	1/1/11	1-10	1 -	
		X	2	CANT	-	
SALVAGE VEHICLE SALES: I HOLD HARMLESS AGREE certify, under penalty of indemnity and hold buyer harm that any vehicles sold have demands and liabilities, in	niess from damages, owner's representative) of t	the material described	11:11	14/1/		
cleared for dismantling with altorney's fees, resulting from warranty hereunder and dresponsible for damage to vehicles.	the breach of any contains no hazardous mover agrees to be Federal or Stele law and the	t to sell same, that it seterial as defined by set for perment hereby	TALS WEIGHMASTER	alle		2-40892

CUSTOMER COPY

ರ

28060 Tare Weight

5300

Lbs. 10/04/90- 12:26

Net Weight Lbs.

SALWAGE VEHICLE SALES: I HOLD HARMLESS AGREEMENT: Seller will by certify, under penalty of indemnity and hold buyer harmless from damages, irry, that any vehicles sold have demands and fishiblities, including reasonable have the right to sell same, that it attorney's fees, resulting from the breach of any the Department of Motor Vehicles. The damage is vehicles seller and the proposable for damage to vehicle during unloading.

Seller will blue CF SALE: I warrant that I am the owner (or owner's representative) of the material describes inverse and seller of the proposable for damage to vehicle during unloading.

owner's, representative) of the material described hereon and have the right to sell same, that it contains no hazardous material as defined by Federal or Stata law and that for payment hereby received, I sell and convey title to LMC METALS.

2-40914

THIS SHIPE	PING ORDER "	oust be legibly filled in, in Ink, in Carbon, and retained b	n Indelible Pencil, or in by the Agent.	ALL TOLL-FAE			NIGHT	
					Shipper's	s No	11	
CARRIER:	Frickson, Tru	soletno Too	SCAC		Carrier's	No	019	
o:	LMC Corp.	THE LIC.		( okson	-	Date	_69	
Consignee	600 S. 4th St		FROM: Eri	ickson, Parr B	inc.			
Street	Richmond, Ca.	94805	Street Ric	chmond,	Ca. GVSC	11		
estination		Zip	Origin			,,	Zip	ئي بي م
Route:			2.7		Veh			
ping HM (IF H	Kind of Packages, Descrip AZARDOUS MATERIALS - P	ition of Articles ROPER SHIPPING NAME)	HAZARD Class	I.D. Number	WEIGHT (subject to	RATE	LABELS REQUIF	
	NON-D.O.T. RE	GULATED MATERIA	L NON-HAZARDOUS,	GAS FRI	correction)		,2	1
UN	DERGROUND STORAG	E TANKS FOR SCE	AP.					
- 7	2952 45	90	NONE	N/A	N/A	N/A	·NONE	• *
73	1880/11	70						
	100 1/400	1-4607						
Remit C.O.D. to:								
Address:							CO.D. FEE	:
ty:	State:	Zip:	COD	Amt:	\$		repaid  collect	Ł
	dependent on value, shippers are alue of the property. The agreed or		Writ- Subject to Strip 7 to globione, if the	1	of frage	recourse on the	FREIGHT CHARG	GES
is hereby specifically stated   RECEIVED, subject to the	by the shipper to be not exceeding	8 Per	Alfalla	ilie	200		PREPAID C	OLLECT
packages unknown), marka contract) agrees to carry to	d, consigned, and destined as indicated a its usual place of delivery at said destin	above which said carrier (the word car nation, if on its route, otherwise to de	Bill of Cading, the property described aborrier being understood throughout this co-	ove in apparent goo intract as meaning a	od order, except as any person or corpo	noted (contents ration in possess	and condition of contents sion of the property under	s of the
the governing classification Shipper hereby certifies th	on the date of shippent.  It he is familiar with all the bill of add	arty at any time interested in all or any	Bill of Edding, the property described aborrier being understood throughout this co- liver to another carrier on the route to sally asid property, that every service to be p ning classification and the said terms and	performed hereunde	or shall be subject t	to each carrier	of all or any of, said prope ading terms and conditions	erty s in
d and are in proper condition trent of Transportation.	on for transpartation according to the applic	cable regulations of the PLACA	RDS	PLA	CARDS -	YES NO-	- FURNISHED BY CARR	
SHIPPER:	Erickson Inc.	REQUIR	CARRIER:	SUP	PLIED DR	IVER SIGNATUR	**	
PER:	Shannan Lorenz		PER:				-	
I ATE:	10-4-00		DATE:	1.00				
TELEPHONE NUMBER			Manned 24 hours/day	by a person v	vith knowledg	e of the haz	ards of the materis	al and
TEECH HONE NOWINGER	1:		Giller Gericy response in	normation of w	vno nas acces	s to a persor	with that knowled	dae. I
	1	FOR HELP IN CHEMICAL EN	MERGENCIES INVOLVING SPIL		a caso senono cure 3ud	pping Uraer and II		LS-A3 9/88)
	FIF	RE OR EXPOSURE CALL TO	LL-FREE 1-800-424-9300 DAY	Y OR NIGHT			(Hev.	9/88)
S IGHTO CERTIEV that the fall		WEIGHM	ASTER CERTIFICATE					Sec.
pte (commencing with Secti	owing described commodity was with the californ solution of the Californ solution in the californ solution is the californ solution.	veighed, measured or counted by fornia Business and Professions (	ASTER CERTIFICATE a weighmaster whose signature is Code, administered by the Division o	on this certificate	e who is a recog	gnized authority California Dena	y of accuracy as pres	cribed by
							and the same of	gricolitis.
Wine i	METALS							
A ISION OF SIMSMETAL	USA CORPORATION					7701	/FT# 6000	
600 SOUTH 4th STRI RIGHMOND, CALIFOR (415) 236-0606	EET RNIA 94804	MATL. 1020	71-1 UND			TICH	(ET# 2023	9
_		PRICE / T		PAY	WEIGH	T. 167	26.01	
10 OUNT:2216		TOTAL PRI			**************************************	200	/ U U	
R CKSON INC	•	WEIGHT AL	JUSTMENT:	Ø	PERCEN.	T:***	+ × */-	
_		INBOUN	ND WEIGHT: 444	60 Lbs				
H I.D.:		*	Name And State of the State of					
1 424.		77 to 4 11 mm	TRUCK NO.PA	IRKER	LICE	NSE NO	.3F66197	
44460 (M)	Gross Weight	DRIVER:	0 -	T CON	E.4 00	/ >+		81
3 100	Tare Weight	Lbs. 10-4-90	8:55 FR 9:07	الالناء ال	E:1 COS	⊃1:\$	0.00	
10360	Net Weight	Lbs.	····	76	1			
SALMES VEHICLE SALES:   HOTE	WARN FOR AND A	7	SIGNATURE OF	SELLED OR AG	July 1	71		
y o / Cunder penelty of	The state of the s	1.00	Sometion.	11/1/				
y, the ny vehicles sold have damen	The second second	a manager management of the species at their to		100	W. 11			
y, the new vehicles sold have clear for demanting with partners of Motor Vehicles.			OMC MEGALS WE	EIGHMASTER	lille		2-40880	-

THIS SHI	PPING ORDER ****	be legibly filled in, in lnk, in Carbon, and retained b	Indelible Pencil, or in y the Agent.		Shipper's	s No.	
CARRIER:	Prof also an Thousan	1-1 V	SCAC		Carrier's	s No	019
TO: Street Destination	IMC Corp. 600 S. 4th St. Richmond, Ca.		FROM: Eric Shipper 255	ckson, I Parr Bl	nc. ;	Date )1	Zip
Route:					Veh Nun	icle	
LINE	Kind of Packages. Description (IF HAZARDOUS MATERIALS - PRI	on of Articles OPER SHIPPING NAME)	HAZARO CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED [or exemption]
-	NON-D.O.T. REG	ULATED MATERIA	L NON-HAZARDOUS,	GAS FRE			
	UNDERGROUND STORAGE	TANKS FOR SCE	AP.				
	13017/4676-	_	NONE	N/A	N/A	N/A	NONE
1	12950/4635	5-4633					
emit C.O.D	12887/462 to:	8-					OD FEE.
ddress: ity:	State:	Zip:	COD	Amt:	\$	P	C.O.D. FEE: Prepaid  Collect  S
reby specifically:	ate is dependent on value, shippers are n ared value of the property. The agreed or distated by the shipper to be not exceeding a to the classifications and lewfully filed tariffs in, marked, consigned, and destined as indicated at carry to its usual place of delivery sepaid destina- ion of said routs to destination and as to each per fiftestion on the date of shipment. Tiffies that he is familier with all the bill of leding	sciered value of the property	The section and reflecting at a first	===	to the consignor withou ht and all other lawful d	recourse on the	FREIGHT CHARGES
HIPPER: ER: ATE: MERGENCY RE	Erickson, Inc. Shannan Lowry	REQUI	CARRIER: PER: DATE:			LIVER SIGNATUI	
LEPHONE NU	MBER:()		Manned 24 hours/day emergency response in	ormation or w	ho has acces	s to a perso	eards of the material and n with that knowledge. must sign the Original Bill of Lading 9-BLS-A3
TO CERTIFY that	the following described commodity was with Section 12700) of Division 5 of the Calif.	sinhad management on according	MASTER CERTIFICATE		é	ie.	(Rev. 5/90)
	<b>C</b> METALS	omia Business and Professions	Code, administered by the Division of	f Measurement S	tandards of the	California Dep	artment of Food and Agricultu
600 SOUTH	METAL USA CORPORATION 14th STREET , CALIFORNIA 94804 808	MATL. 102	01-1 UNP			TIC	KET# 20626
COUNT:2	2168801 INC.			0	WEIGH PERCEN		
SH I.D.			TRUCK NO.	ir a	LICE	NSE -N	D
5620 (1 9260 5360	M) Gross Weight Tare Weight Net Weight	DRIVER Lbs. 10/08/ Lbs. 10/08/ Lbs.	90- 14:21 FR	et. cod	E: 17 CC	ST:\$	0.00
			SIGNAPORE OF		ENT		
mana or albitor Vehicles		A second such a free programme in the	LMC METALS W	EIGHMANIE			2-41181

THIS SHIP	PING ORDER **	ust be legibly filled în, in Ink, in Carbon, and retained l	n Indelible Pencil, or in by the Agent.	No.	Shipper's	No		
ARRIER:	77 1 1	2010		Carrier's		lo		
O:	IMC Corp.		SCAC FROM: Eri	.ckson,		Date		
Consignee Street	600 S. 4th St		Shipper 255	Parr B	lvd.			
estination	Richmond, Ca.	94805 Zip	Street Ric	hmond,	Ca. 9480	1 ,	Lip	ب.ر.
Route:			1 0		Vehi		.ip	-
·- ···0	Kind of Packages, Descrip	tion of Acticles		1	Num	ber		
ping HM (IF)	HAZARDOUS MATERIALS - PI	OPER SHIPPING NAME	HAZARD Class	1.0. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIR (or exemption)	ED
12	NON-D.O.T. RE	GULATED MATERIA	L NON-HAZARDOUS,	GAS FRI				
UN	DERGROUND STORAG	E TANKS FOR SCR	AP.					K (22)
7	2952/45	90	NONE	N/A	N/A	N/A	NONE	
70	3887/460	7-41029					**	
	1			v.		٠.	45	-
Remit C.O.D. to	:					C	O.D. FEE	
Address:	State:	Zip:	COD	Amt:	\$	Pi	repaid 🔲 ollect 🔲 \$	
is hereby specifically stated	s dependent on value, shippers are value of the property. The agreed or, by the shipper to be not exceeding	declared value of the property	"		The friends with the same	recourse on the	PREPAID CO	1
RECEIVED, subject to the packages unknown), mark contract) agrees to carry to over all or any portion of a the governing classification Shipper hereby certifies to seriors.	clessifications and lawfully filed tariffs is de, consigned, and destined as indicated to its usual place of delivery at said destination and as to each part on the date of shippfent. The file of th	n effect on the date of issue of this shove which said carrier (the word ca sation, if on its route, otherwise to de orty at any time interested in all or an or terms and conditions in the govern	Bill of Lading, the property described aborrier being understood throughout this conliner to another carrier on the route to as y said property, that every service to be pining classification and the said terms and	ove in apparent god ntract as meaning a id destination. It is performed hereunde	d order, except as ny person or corpor mutually agreed as a shall be subject to	noted (contents a ration in possessi- to each carrier o o all the bill of lac		of ty in
d and are in proper condition.		peckaged, marked and able regulations of the REQUIL	RDS 1	PLAC	CARDS		FURNISHED BY CARRIE	_
SRIPPER: PER:	Erickson, Inc.		CARRIER:	3				
I TE:	Shannan Lowey		_ <u>PER:</u> DATE:					
ERGENCY RESPO TELEPHONE NUMBER			Manned 24 hours/day emergency response in	by a person v	vith knowledg	e of the haza	ords of the material	and
	I FIR	FOR HELP IN CHEMICAL EN E OR EXPOSURE CALL TO	MERGENCIES INVOLVING SPIL LL-FREE 1-800-424-9300 DAY	• Agent must detact	and retain this Ship	ping Order and m	ust sign the Original Bill of 9-BL (Rev. S	lading. S-A3
IS D CERTIFY that the fo	sllowing described commodity was watton 12700) of Division 5 of the Calif	ninhad management as as at the	ASTER CERTIFICATE a weighmaster whose signature is	on this certificate	who is a recog	nized authority	of accuracy as presc	ribed by
	ction 12700) of Division 5 of the Calif	and introduction of the second	, authinistered by the DIVISION of	weasurement S	nuncaros of the (	Jalitornia Depar	riment of Food and Ag	riculture.
	METALS							
600 SOUTH 4th STI RIGHMOND, CAUFO	LUSA CORPORATION REET DRNIA 94804	MOTI 400	714 4 (15.15)			TICK	ET# 20239	€
(415) 236-0608		MATL. 1020 PRICE /		PAY	WEIGH	T: 163	60	
C DUNT: 2216		TOTAL PR	ICE:\$	60000 00				i
R CKSON INC	· ·	WEIGHT AI	DJUSTMENT: ND WEIGHT: 444		PERCEN <sup>®</sup>	T:***	*%	
A I.D.:		annin eminint				urser som		
		DRIVER	TRUCK NO.PA	KKEK	LICE	VEF NO	.3F66197	æ
44460 (M) 2 100	Gross Weight	Lbs. 10-4-96	8:55 FR	T. COD	E:1 COS	ST:\$	0.00	Þ
10360	Tare Weight Net Weight	Lbs.	9:07	26	$\mathcal{I}$	Spring		
ALVINE VEHICLE SALES: 1 HOL	MANAGES AND THE STATE OF		SIGNATURE OF	SELLED OR AG		71		_
th w vehicles sold have designed for dismantling with about			Mu	We 1/2	telle	4		_
arthur of Motor Vehicles.			- OMC METALS WE	GHMASTER		-	2-40880	_
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