

## 10.0 TABLES

TABLE 1. QUANTITIES OF MANIFESTED WASTE GENERATED  
IN HERCULES AND SHIPPED OFF-SITE

<u>Facility Name</u>	<u>Waste Generation (Tons)*</u>	
	<u>1986</u>	<u>1988</u>
King Oil Company	1,646.43	ND
Hercules Little League Field	1,603.08	ND
Pacific Refining Company	497.49	423.83
Hercules Properties Ltd	ND	53.92
Mechanics Bank of Richmond-Trustee	ND	0.08**
Caltrans District 4	ND	0.88***
Bio-Rad Laboratories	ND	1.12
<b>TOTAL</b>	<b>3,747.00</b>	<b>478.83</b>

\* Note: These figures from DHS Manifest summary data often disagree with Annual Reports submitted to DHS by industries by up to 20%.

\*\*Best estimate from available data.

\*\*\*These wastes were not shipped off-site but were contained in wastewater discharged to storm drain.

TABLE 2. CURRENT MANIFESTED HAZARDOUS WASTE IMPORTED  
AND EXPORTED FROM HERCULES (1988, 1989)

<u>Generator</u>	<u>Waste Stream</u>	<u>Manifested Waste (tons)</u>	<u>Imp/Exp</u>
Pacific Refining Company (1989)	K-Waste	155.0	E
	Bio-Sludge	141.0	E
	Spent Catalyst	15.0	E
	Asbestos Waste	27.0	E
Bio-Rad Laboratories (1988)	Halogenated Solvents	0.22	E
	Unspecified Solvent Mixture	0.90	E

TABLE 3. CURRENT WASTE PRODUCTION FROM SMALL QUANTITY GENERATORS BY WASTE TYPE (1988 Estimated)

<u>Waste Type</u>	<u>Waste Group</u>	<u>Waste Production (Tons/yr)</u>
Arsenic Wastes	Metal Containing Liquids	0.00
Cyanide Wastes	Cyanide & Metal-Containing Liquid	0.32
Dry Cleaning (Filtration Residue)	Non-Halogenated Organic Sludges & Solids	17.79
Empty Pesticide Containers	Miscellaneous Wastes	0.68
Heavy Metal Dust	Miscellaneous Wastes	0.29
Heavy Metal Solutions	Metal-Containing Liquids	0.00
Heavy Metal Waste Material	Metal-Containing Liquids	0.54
Ignitable Paint Wastes	Dyes, Paint Sludges & Resin Wastes	10.03
Ignitable Wastes	Non-Halogenated Solvents	14.66
Ink Sludges Containing Chromium or Lead	Metal-Containing Sludges	0.04
Mercury Wastes	Metal-Containing Liquids	0.14
Other Reactive Wastes	Non-Metallic Inorganic Liquids	1.90
Paint Waste Containing Heavy Metals	Metal-Containing Sludges	0.21
Pesticide Solutions	Pesticides	1.09
Photographic Wastes	Miscellaneous Wastes	2.40
Solvent Still Bottoms	Halogenated or Non-Halogenated Sludges & Solids	0.24
Spent Plating Wastes	Metal Containing Liquids	0.30
Spent Solvents	Halogenated or Non-Halogenated Solvents	30.64
Solutions or Sludges Containing Silver	Metal-Containing Liquids & Sludges	0.00
Strong Acids or Alkalies	Non-Metallic Inorganics Liquids	11.46
Used Lead-Acid Batteries	Miscellaneous Wastes	16.95
Waste Formaldehyde	Organic Liquids	33.23
Waste Inks Containing Flammable Solvents or Heavy Metals	Metal Containing Liquids	0.38
Waste Pesticides	Pesticides	3.15
Wastewater Containing Heavy Metal Sludges	Metal Containing Sludges	0.08
Wastewater Containing Wood Preservatives	PCBs and Dioxins	0.00
Wastes Containing Ammonia	Non-Metallic Inorganic Wastes	1.35
Other	Miscellaneous Wastes	<u>44.88</u>
<b>TOTAL</b>		<b>192.75</b>

TABLE 4. WASTE OIL GENERATION BY SMALL QUANTITY GENERATORS  
IN THE CITY OF HERCULES FOR 1990

Business Sector	Specific Business Type	1990 No. of Firms	Waste Oil Generation Factor		
			DHS (gal/Yr)	Total Amount (tons/Yr)	Generated (tons)
Vehicle Maintenance (Automotive Related)	Recycling Centers		3,222	12.10	
	Service Stations		2,998	11.26	
	Repair Shops		3,032	11.39	
	Auto Dealers		2,962	11.12	
	Auto Centers	1	3,010	11.30	11.30
	Fleet Shops		3,160	11.30	
	Airports		2,800	10.51	
			Subtotal		11.30
Industry Related (Manufacturing)	Wood Products		2,676	10.05	
	Furniture & Fixtures		2,365	8.88	
	Pulp/Paper		*	*	
	Newspapers		2,779	10.44	
	Chemicals		2,799	10.51	
	Rubber/Plastic	1	2,407	9.04	9.04
	Leather		*	*	
	Glass		*	*	
	Primary Metals		2,969	11.15	
	Fabricated Metals		2,691	10.10	
	Machinery		2,592	9.73	
	Electronics	1	2,655	9.97	9.97
	Motor Vehicles	1	2,501	9.39	9.39
	Instruments	1	2,389	8.97	8.97
	Miscellaneous Manufacturing		2,522	9.47	
Electrical Utilities		5,319			
Commercial Marine Terminals		*			
Railroad Yards		*			
			Subtotal		37.37
			Estimated Total		48.67

Number of businesses based on Small Business List.

Source: "Determining Used Oil Volumes Generated by Selected Small Quantity Generators", DHS 1987  
\* DHS did not supply a waste oil generation factor for this industry, and, thus, a quantity cannot be calculated.

TABLE 5. HOUSEHOLD HAZARDOUS WASTE GENERATED IN 1989

<u>Waste Group</u>	<u>Ton/year</u>	<u>Quantity Percent</u>
Oil and Similar Lubricant Products	9.2	46%
Paint and Building	5.8	29%
Gasoline and Solvents	4.0	20%
Other Wastes	<u>1.0</u>	<u>5%</u>
Total Household Hazardous Wastes	20.0	100%

TABLE 6. KNOWN CONTAMINATED SITES WITHIN AND NEAR THE CITY OF HERCULES  
DESIGNATED BY THE STATE BOND EXPENDITURE PLAN

<u>Site Name</u>	<u>Type of Contamination</u>	<u>Cleanup Status*</u>
Hercules Properties Ltd.	Acids, Caustics, Heavy Metals, Asbestos (soil)	Ongoing (Additional Investigations)
Hercules, Inc.	Munitions and Explosives (soil) (trinitrotoluene, dinitrotoluene, dinitrobenzene, lead)	Ongoing (Pilot Test in Progress)
ASARCO*	Arsenic, Lead, and other Heavy Metals (soil)	Ongoing
American Standard Products*	Lead (soil)	Remediation to begin 1990
Cooper Chemical*	Lead, Zinc, Copper (soil)	Ongoing
FMC Corporation*	Heavy Metals in Soil; Solvents Organochlorine and organophosphorus Pesticides in Soil & Groundwater	Ongoing
Drew Sales*	Copper, Nickel, Lead and Zinc (soil)	Ongoing

\*These sites are not located within the Hercules City Limit, but are within approximately 10 miles of the City.