



NATIONAL ANALYSIS

THE NATIONAL BIENNIAL RCRA HAZARDOUS WASTE REPORT (BASED ON 2001 DATA)



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INTRODUCTION

The United States Environmental Protection Agency (EPA), in partnership with the States¹, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The purpose of *The National Biennial RCRA Hazardous Waste Report (Based on 2001 Data)* is to communicate the initial findings of EPA's 2001 hazardous waste reporting data collection efforts to the public, government agencies, and the regulated community. The Report consists of three volumes of data:

- The **National Analysis** data presents a detailed look at waste-handling practices in the States, and largest facilities nationally, including (1) the quantity of waste generated, managed, shipped and received, and interstate shipments and receipts and (2) the number of generators and managing facilities,
- The **State Detail Analysis** data is a detailed look at each State's waste handling practices, including overall totals for generation, management, shipments and receipts, as well as totals for the largest fifty facilities, and
- The **List of Reported RCRA Sites** identifies every hazardous waste facility in the United States that submitted a hazardous waste report in 2001.

RCRA HAZARDOUS WASTE

Throughout this Report, the term RCRA hazardous waste refers to solid waste assigned a Federal Hazardous Waste Code and regulated by RCRA. Some States elect to regulate wastes not regulated by EPA; these wastes are assigned State Hazardous Waste Codes. For this Report EPA asked States to exclude data for waste with only State Hazardous Waste Codes (the waste description does not include any Federal Hazardous Waste Code). The reader can find more detailed explanations in the *RCRA Orientation Manual* (<http://www.epa.gov/epaoswer/general/orientat/>) and in the Code of Federal Regulations in 40 CFR Parts 260 and 261. Please refer to Appendix D of this Report for a complete list of EPA Hazardous Waste Codes used by the regulated community for their 2001 Biennial Report submissions. Details about the information submitted by the regulated community can be found in the *2001 Hazardous Waste Report Instructions and Forms* (See "Final Forms" at <http://www.epa.gov/oswfiles/rcrainfo/brc.htm>).

¹The term "State" includes the District of Columbia, Puerto Rico, Guam, the Navajo Nation, the Trust Territories, and the Virgin Islands, in addition to the 50 United States.

RCRA HAZARDOUS WASTE GENERATION

RCRA hazardous waste generation information is obtained from data reported by RCRA large quantity generators (LQGs). A generator is defined as a Federal large quantity generator if:

- the generator generated in any single month 1,000 kg (2,200 pounds or 1.1 tons) or more of RCRA hazardous waste; or
- the generator generated in any single month, or accumulated at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or
- the generator generated, or accumulated at any time, more than 100 kg (220 pounds) of spill cleanup material contaminated with RCRA acute hazardous waste.

All facilities that were LQGs in 2001 are required to provide EPA with 2001 waste generation and management information. It is important to note that the generators identified in this Report have been included based on the most current information made available to EPA by the States. However, the generator counts may include some generators that, when determining whether they were LQGs, used a lower State-defined threshold for LQGs, counted wastes regulated only by their States, or counted wastes exempt from Federal regulation. Hazardous waste received from off site for storage/bulking and subsequently transferred off site for treatment or disposal is excluded from generation quantities in this Report.

RCRA HAZARDOUS WASTE MANAGEMENT

RCRA hazardous waste management information is obtained from data reported by facilities which treated, stored, or disposed of RCRA hazardous wastes on site during 2001. Only wastes that were treated or disposed of in 2001 are included in the management quantities in this Report. Hazardous waste that are stored, bulked and/or transferred off site with no prior treatment/recovery, fuel blending, or disposal at the site, are excluded from the management quantities in this Report.

RCRA HAZARDOUS WASTE SHIPMENTS AND RECEIPTS

RCRA hazardous waste shipment information is obtained from data reported by both RCRA LQGs and facilities which treated, stored, or disposed of RCRA hazardous wastes on site during 2001. RCRA hazardous waste receipt information is obtained from data reported by facilities which treated, stored, or disposed of RCRA hazardous wastes on site during 2001. All reported shipments identified by the State, or implementing EPA office, for inclusion in the National Biennial Report are included in the waste shipment quantities in this Report, even if the waste was shipped to a transfer facility. In some instances, waste is transferred within a physical location that has more than one EPA Identification Number. These waste transfers are treated as shipments.

RCRA hazardous waste interstate shipment quantities include wastes generated in one State and shipped to a receiver in a different State, excluding shipments to a foreign country. Interstate shipments are calculated from information provided by waste shippers. RCRA hazardous waste interstate receipts include all wastes received by a State which differs from the State of origin, excluding foreign imports. RCRA hazardous waste interstate receipts are calculated from information provided by facilities that received the wastes.

THE DATA PRESENTED IN THIS NATIONAL BIENNIAL REPORT

Beginning with the 2001 biennial reporting cycle, EPA changed the reporting requirements for RCRA hazardous wastes. EPA would like to caution all readers of this Report that the changes to these reporting requirements will make cursory comparisons of the 2001 National Biennial RCRA Hazardous Waste Report data to earlier National Biennial Report data misleading.

Prior to the 2001 National Biennial Report, EPA excluded wastes with wastewater characteristics and wastes described with only State Hazardous Waste Codes. Beginning with 2001 National Biennial Report, it has become the individual States', or implementing EPA offices', responsibility to properly identify data that is to be included in or excluded from the National Biennial Report.

For this 2001 National Biennial RCRA Hazardous Waste Report, EPA has included all data that were identified by the State or implementing EPA office for inclusion in the Report with the following two (2) exceptions:

- 1) hazardous waste received from off site for storage/bulking and subsequently transferred off site for treatment or disposal is excluded from generation quantities; and

2) hazardous waste that is stored, bulked, and/or transferred off site with no prior treatment/recovery, fuel blending, or disposal at the site is excluded from management quantities.

In addition, previous National Biennial Reports have only included management and receipts from permitted treatment, storage and disposal facilities. The 2001 National Biennial Report includes management and receipts data from both permitted treatment, storage and disposal facilities and generators that are not required to be permitted (e.g., those that recycle solvent hazardous waste generated on-site).

CONFIDENTIAL BUSINESS INFORMATION

A business may, if it desires, assert a claim of business confidentiality (CBI) covering all or a part of the information furnished to EPA in their 2001 Hazardous Waste Report. The Agency will treat information covered by such a claim in accordance with the procedures set forth in 40 CFR Part 2, Subpart B. For the 2001 National Biennial Report, a portion of the data for one facility was submitted to EPA by the State of Utah with a claim of business confidentiality. Accordingly, the CBI portion of the data submitted by Ensign-Bickford Company in Spanish Fork, Utah (UTD041310962) has been omitted from this Report to ensure the confidentiality of their data.

Exhibit 1.1 Quantity of RCRA Hazardous Waste Generated and Number of Hazardous Waste Generators, by State, 2001

State	Hazardous Waste Quantity			Number of Generators			Reported Status	
	Rank	Tons Generated	Percentage	Rank	Number	Percentage	LQG	Non-LQG
ALABAMA	9	1,569,675	3.8	22	270	1.4	266	4
ALASKA	50	5,094	0.0	42	50	0.3	48	2
ARIZONA	35	96,544	0.2	29	193	1.0	190	3
ARKANSAS	15	857,910	2.1	28	201	1.1	185	16
CALIFORNIA	16	807,297	2.0	1	2,544	13.4	2,520	24
COLORADO	37	66,791	0.2	33	144	0.8	135	9
CONNECTICUT	38	62,524	0.2	18	360	1.9	357	3
DELAWARE	44	17,512	0.0	41	66	0.3	65	1
DISTRICT OF COLUMBIA	52	2,113	0.0	50	18	0.1	18	0
FLORIDA	23	400,107	1.0	16	376	2.0	355	21
GEORGIA	17	760,043	1.9	17	363	1.9	362	1
GUAM	55	412	0.0	49	26	0.1	12	14
HAWAII	22	464,857	1.1	47	36	0.2	31	5
IDAHO	29	214,409	0.5	43	48	0.3	31	17
ILLINOIS	10	1,412,100	3.5	4	955	5.0	954	1
INDIANA	11	1,127,542	2.8	9	625	3.3	491	134
IOWA	40	47,147	0.1	30	169	0.9	153	16
KANSAS	8	1,571,587	3.8	26	223	1.2	208	15
KENTUCKY	4	2,686,583	6.6	20	316	1.7	316	0
LOUISIANA	2	3,883,563	9.5	13	462	2.4	420	42
MAINE	49	6,168	0.0	40	77	0.4	70	7
MARYLAND	43	17,577	0.0	53	14	0.1	14	0
MASSACHUSETTS	12	1,121,752	2.7	14	435	2.3	430	5
MICHIGAN	18	649,207	1.6	8	786	4.1	571	215
MINNESOTA	7	1,662,632	4.1	24	259	1.4	256	3
MISSISSIPPI	5	2,165,734	5.3	32	162	0.9	157	5
MISSOURI	33	101,782	0.2	21	298	1.6	285	13
MONTANA	48	6,877	0.0	45	44	0.2	38	6
NAVAJO NATION	56	188	0.0	54	6	0.0	6	0
NEBRASKA	42	31,382	0.1	38	83	0.4	79	4
NEVADA	27	277,258	0.7	39	78	0.4	78	0
NEW HAMPSHIRE	45	12,269	0.0	25	231	1.2	166	65
NEW JERSEY	20	586,210	1.4	5	892	4.7	891	1
NEW MEXICO	13	962,808	2.4	46	41	0.2	38	3
NEW YORK	3	3,534,261	8.7	2	1,992	10.5	1,990	2
NORTH CAROLINA	25	329,721	0.8	12	473	2.5	443	30
NORTH DAKOTA	21	574,614	1.4	52	15	0.1	13	2
OHIO	6	1,889,067	4.6	3	1,071	5.6	955	116
OKLAHOMA	14	887,643	2.2	30	169	0.9	135	34
OREGON	39	49,945	0.1	27	206	1.1	206	0
PENNSYLVANIA	24	398,403	1.0	7	868	4.6	868	0
PUERTO RICO	31	176,555	0.4	36	84	0.4	84	0
RHODE ISLAND	46	9,435	0.0	34	132	0.7	128	4
SOUTH CAROLINA	32	142,510	0.3	19	319	1.7	290	29
SOUTH DAKOTA	54	950	0.0	51	16	0.1	16	0
TENNESSEE	19	629,834	1.5	15	396	2.1	393	3
TEXAS	1	7,555,402	18.5	6	879	4.6	874	5
TRUST TERRITORIES	47	8,999	0.0	55	3	0.0	2	1
UTAH	36	88,664	0.2	36	84	0.4	83	1
VERMONT	51	4,099	0.0	44	47	0.2	46	1
VIRGIN ISLANDS	53	1,971	0.0	56	1	0.0	1	0
VIRGINIA	30	209,447	0.5	23	265	1.4	264	1
WASHINGTON	28	240,795	0.6	10	506	2.7	506	0
WEST VIRGINIA	34	101,195	0.2	35	131	0.7	131	0
WISCONSIN	26	294,754	0.7	11	489	2.6	489	0
WYOMING	41	37,566	0.1	48	27	0.1	22	5
Total		40,821,481	100.0		19,024	100.0	18,135	889

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 1.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Generated and Number of Hazardous Waste Generators, 2001

State	Hazardous Waste Quantity			Number of Generators			Reported Status	
	Rank	Tons Generated	Percentage	Rank	Number	Percentage	LQG	Non-LQG
TEXAS	1	7,555,402	18.5	6	879	4.6	874	5
LOUISIANA	2	3,883,563	9.5	13	462	2.4	420	42
NEW YORK	3	3,534,261	8.7	2	1,992	10.5	1,990	2
KENTUCKY	4	2,686,583	6.6	20	316	1.7	316	0
MISSISSIPPI	5	2,165,734	5.3	32	162	0.9	157	5
OHIO	6	1,889,067	4.6	3	1,071	5.6	955	116
MINNESOTA	7	1,662,632	4.1	24	259	1.4	256	3
KANSAS	8	1,571,587	3.8	26	223	1.2	208	15
ALABAMA	9	1,569,675	3.8	22	270	1.4	266	4
ILLINOIS	10	1,412,100	3.5	4	955	5.0	954	1
INDIANA	11	1,127,542	2.8	9	625	3.3	491	134
MASSACHUSETTS	12	1,121,752	2.7	14	435	2.3	430	5
NEW MEXICO	13	962,808	2.4	46	41	0.2	38	3
OKLAHOMA	14	887,643	2.2	30	169	0.9	135	34
ARKANSAS	15	857,910	2.1	28	201	1.1	185	16
CALIFORNIA	16	807,297	2.0	1	2,544	13.4	2,520	24
GEORGIA	17	760,043	1.9	17	363	1.9	362	1
MICHIGAN	18	649,207	1.6	8	786	4.1	571	215
TENNESSEE	19	629,834	1.5	15	396	2.1	393	3
NEW JERSEY	20	586,210	1.4	5	892	4.7	891	1
NORTH DAKOTA	21	574,614	1.4	52	15	0.1	13	2
HAWAII	22	464,857	1.1	47	36	0.2	31	5
FLORIDA	23	400,107	1.0	16	376	2.0	355	21
PENNSYLVANIA	24	398,403	1.0	7	868	4.6	868	0
NORTH CAROLINA	25	329,721	0.8	12	473	2.5	443	30
WISCONSIN	26	294,754	0.7	11	489	2.6	489	0
NEVADA	27	277,258	0.7	39	78	0.4	78	0
WASHINGTON	28	240,795	0.6	10	506	2.7	506	0
IDAHO	29	214,409	0.5	43	48	0.3	31	17
VIRGINIA	30	209,447	0.5	23	265	1.4	264	1
PUERTO RICO	31	176,555	0.4	36	84	0.4	84	0
SOUTH CAROLINA	32	142,510	0.3	19	319	1.7	290	29
MISSOURI	33	101,782	0.2	21	298	1.6	285	13
WEST VIRGINIA	34	101,195	0.2	35	131	0.7	131	0
ARIZONA	35	96,544	0.2	29	193	1.0	190	3
UTAH	36	88,664	0.2	36	84	0.4	83	1
COLORADO	37	66,791	0.2	33	144	0.8	135	9
CONNECTICUT	38	62,524	0.2	18	360	1.9	357	3
OREGON	39	49,945	0.1	27	206	1.1	206	0
IOWA	40	47,147	0.1	30	169	0.9	153	16
WYOMING	41	37,566	0.1	48	27	0.1	22	5
NEBRASKA	42	31,382	0.1	38	83	0.4	79	4
MARYLAND	43	17,577	0.0	53	14	0.1	14	0
DELAWARE	44	17,512	0.0	41	66	0.3	65	1
NEW HAMPSHIRE	45	12,269	0.0	25	231	1.2	166	65
RHODE ISLAND	46	9,435	0.0	34	132	0.7	128	4
TRUST TERRITORIES	47	8,999	0.0	55	3	0.0	2	1
MONTANA	48	6,877	0.0	45	44	0.2	38	6
MAINE	49	6,168	0.0	40	77	0.4	70	7
ALASKA	50	5,094	0.0	42	50	0.3	48	2
VERMONT	51	4,099	0.0	44	47	0.2	46	1
DISTRICT OF COLUMBIA	52	2,113	0.0	50	18	0.1	18	0
VIRGIN ISLANDS	53	1,971	0.0	56	1	0.0	1	0
SOUTH DAKOTA	54	950	0.0	51	16	0.1	16	0
GUAM	55	412	0.0	49	26	0.1	12	14
NAVAJO NATION	56	188	0.0	54	6	0.0	6	0
Total		40,821,481	100.0		19,024	100.0	18,135	889

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 1.3 Rank Ordering of States Based on Number of Hazardous Waste Generators and Quantity of RCRA Hazardous Waste Generated, 2001

State	Number of Generators			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Generated	Percentage	LQG	Non-LQG
CALIFORNIA	1	2,544	13.4	1	807,297	2.0	2,520	24
NEW YORK	2	1,992	10.5	2	3,534,261	8.7	1,990	2
OHIO	3	1,071	5.6	3	1,889,067	4.6	955	116
ILLINOIS	4	955	5.0	4	1,412,100	3.5	954	1
NEW JERSEY	5	892	4.7	5	586,210	1.4	891	1
TEXAS	6	879	4.6	6	7,555,402	18.5	874	5
PENNSYLVANIA	7	868	4.6	7	398,403	1.0	868	0
MICHIGAN	8	786	4.1	8	649,207	1.6	571	215
INDIANA	9	625	3.3	9	1,127,542	2.8	491	134
WASHINGTON	10	506	2.7	10	240,795	0.6	506	0
WISCONSIN	11	489	2.6	11	294,754	0.7	489	0
NORTH CAROLINA	12	473	2.5	12	329,721	0.8	443	30
LOUISIANA	13	462	2.4	13	3,883,563	9.5	420	42
MASSACHUSETTS	14	435	2.3	14	1,121,752	2.7	430	5
TENNESSEE	15	396	2.1	15	629,834	1.5	393	3
FLORIDA	16	376	2.0	16	400,107	1.0	355	21
GEORGIA	17	363	1.9	17	760,043	1.9	362	1
CONNECTICUT	18	360	1.9	18	62,524	0.2	357	3
SOUTH CAROLINA	19	319	1.7	19	142,510	0.3	290	29
KENTUCKY	20	316	1.7	20	2,686,583	6.6	316	0
MISSOURI	21	298	1.6	21	101,782	0.2	285	13
ALABAMA	22	270	1.4	22	1,569,675	3.8	266	4
VIRGINIA	23	265	1.4	23	209,447	0.5	264	1
MINNESOTA	24	259	1.4	24	1,662,632	4.1	256	3
NEW HAMPSHIRE	25	231	1.2	25	12,269	0.0	166	65
KANSAS	26	223	1.2	26	1,571,587	3.8	208	15
OREGON	27	206	1.1	27	49,945	0.1	206	0
ARKANSAS	28	201	1.1	28	857,910	2.1	185	16
ARIZONA	29	193	1.0	29	96,544	0.2	190	3
IOWA	30	169	0.9	30	47,147	0.1	153	16
OKLAHOMA	30	169	0.9	30	887,643	2.2	135	34
MISSISSIPPI	32	162	0.9	32	2,165,734	5.3	157	5
COLORADO	33	144	0.8	33	66,791	0.2	135	9
RHODE ISLAND	34	132	0.7	34	9,435	0.0	128	4
WEST VIRGINIA	35	131	0.7	35	101,195	0.2	131	0
PUERTO RICO	36	84	0.4	36	176,555	0.4	84	0
UTAH	36	84	0.4	36	88,664	0.2	83	1
NEBRASKA	38	83	0.4	38	31,382	0.1	79	4
NEVADA	39	78	0.4	39	277,258	0.7	78	0
MAINE	40	77	0.4	40	6,168	0.0	70	7
DELAWARE	41	66	0.3	41	17,512	0.0	65	1
ALASKA	42	50	0.3	42	5,094	0.0	48	2
IDAHO	43	48	0.3	43	214,409	0.5	31	17
VERMONT	44	47	0.2	44	4,099	0.0	46	1
MONTANA	45	44	0.2	45	6,877	0.0	38	6
NEW MEXICO	46	41	0.2	46	962,808	2.4	38	3
HAWAII	47	36	0.2	47	464,857	1.1	31	5
WYOMING	48	27	0.1	48	37,566	0.1	22	5
GUAM	49	26	0.1	49	412	0.0	12	14
DISTRICT OF COLUMBIA	50	18	0.1	50	2,113	0.0	18	0
SOUTH DAKOTA	51	16	0.1	51	950	0.0	16	0
NORTH DAKOTA	52	15	0.1	52	574,614	1.4	13	2
MARYLAND	53	14	0.1	53	17,577	0.0	14	0
NAVAJO NATION	54	6	0.0	54	188	0.0	6	0
TRUST TERRITORIES	55	3	0.0	55	8,999	0.0	2	1
VIRGIN ISLANDS	56	1	0.0	56	1,971	0.0	1	0
Total		19,024	100.0		40,821,481	100.0	18,135	889

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 1.4 Fifty Largest RCRA Hazardous Waste Generators in the U.S., 2001

Rank	EPA ID	Name	City	Tons Generated
1	TXD008080533	BP PRODUCTS NORTH AMERICA INC	TEXAS CITY, TX	2,039,862
2	LAD008213191	RUBICON INC.	GEISMAR, LA	1,856,429
3	KSD007482029	VULCAN MATERIALS CO	WICHITA, KS	1,530,780
4	LAD008175390	CYTEC INDUSTRIES INC.	WAGGAMAN, LA	1,444,351
5	NYD002080034	GE SILICONES, LLC	WATERFORD, NY	1,420,189
6	MSD096046792	E.I. DUPONT DE NEMOURS AND CO	PASS CHRISTIAN, MS	1,287,978
7	TXD059685339	DIAMOND SHAMROCK REFINING AND MARKETIN	SUNRAY, TX	1,257,357
8	NMD048918817	NAVAJO REFINING COMPANY	ARTESIA, NM	956,611
9	OHD042157644	BP CHEMICALS INC	LIMA, OH	913,555
10	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW, TX	880,382
11	TXD008123317	DU PONT DE NEMOURS AND COMPANY	VICTORIA, TX	832,632
12	MND006172969	3M COMPANY	COTTAGE GROVE, MN	718,536
13	TXD008079642	E I DU PONT DE NEMOURS AND COMPANY	ORANGE, TX	610,350
14	NDD006175467	TESORO - MANDAN REFINERY	MANDAN, ND	573,556
15	OKD000829440	ZINC CORPORATION OF AMERICA	BARTLESVILLE, OK	525,938
16	KYD006373922	ATOFINA CHEMICALS, INC.	CARROLLTON, KY	507,659
17	ARD043195429	GREAT LAKES CHEMICAL CORP. CENTRAL	EL DORADO, AR	486,514
18	NYD000707901	IBM CORPORATION-E FISHKILL FACILITY	HOPEWELL JUNCTION, NY	467,961
19	HID056786395	TESORO HAWAII CORPORATION REFINERY	KAPOLEI, HI	464,076
20	ILD042075333	CABOT CORP	TUSCOLA, IL	442,406
21	ALD046481032	SANDERS LEAD COMPANY, INC.	TROY, AL	427,000
22	MSD008186587	MORTON INTERNATIONAL A ROHM & HAAS CO.	MOSS POINT, MS	405,135
23	IND003913423	BETHLEHEM STEEL CORP BURNS HARBOR	BURNS HARBOR, IN	393,494
24	MSD033417031	FIRST CHEMICAL CORPORATION	PASCAGOULA, MS	357,825
25	TXD008081697	BASF CORPORATION	FREEPORT, TX	333,344
26	NYD000824482	OCCIDENTAL CHEMICAL CORPORATION	NIAGARA FALLS, NY	319,693
27	ALD004009320	HUNT REFINING COMPANY	TUSCALOOSA, AL	316,146
28	MID006013643	PFIZER INC PARKE-DAVIS & CO	HOLLAND, MI	309,388
29	OKD987072006	NORIT AMERICAS INC., PRYOR FACILITY	PRYOR, OK	306,348
30	FLR000068007	K.C. INDUSTRIS, LLC, MULBERRY, FLORIDA	MULBERRY, FL	287,413
31	GAD003275252	INTERNATIONAL PAPER CO	SAVANNAH, GA	279,828
32	NVT330010000	US ECOLOGY, INC	BEATTY, NV	270,654
33	CAR000081422	BRITE PLATING CO. INC.	LOS ANGELES, CA	265,205
34	MND006253801	SUPERIOR PLATING INC	MINNEAPOLIS, MN	259,434
35	NYD002245967	REYNOLDS METALS COMPANY	MASSENA, NY	253,969
36	KYD006371314	NOVEON INC	LOUISVILLE, KY	238,881
37	KYD006384531	HARSHAW CHEMICAL CO.	LOUISVILLE, KY	211,777
38	IDD070929518	FMC IDAHO LLC	POCATELLO, ID	209,532
39	TXD087491973	ASARCO INC	AMARILLO, TX	199,005
40	MAD007325814	TEXAS INSTRUMENTS INC.	ATTLEBORO, MA	190,643
41	NJD002385730	DUPONT CHAMBERS WORKS	DEEPWATER, NJ	189,594
42	MAD000189068	M/A-COM INC., A DIVISION OF TYCO INTERNA	BURLINGTON, MA	186,953
43	NYD002232304	ALCOA INC	MASSENA, NY	181,477
44	NCD047368642	E. I. DUPONT & CO. - FAYETTEVILLE WORKS	FAYETTEVILLE, NC	181,379
45	KYR000011718	GUARDIAN AUTOMOTIVE MOREHEAD PLANT	MOREHEAD, KY	175,726
46	GAD063152573	SAFT AMERICA, INC	VALDOSTA, GA	174,139
47	KYD048878805	EPT DRIVES & COMPONENTS DIV. OPERATIONS	MAYSVILLE, KY	160,321
48	TND003376928	EASTMAN CHEMICAL COMPANY, TENNESSEE OPE	KINGSPORT, TN	154,410
49	ARD006354161	REYNOLDS METALS COMPANY	ARKADELPHIA, AR	154,134
50	ALD000608216	HAGER COMPANIES - MONTGOMERY	MONTGOMERY, AL	151,263
Total				26,761,230

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 1.5 Number of Hazardous Waste Generators by Generator Quantity Range, 2001

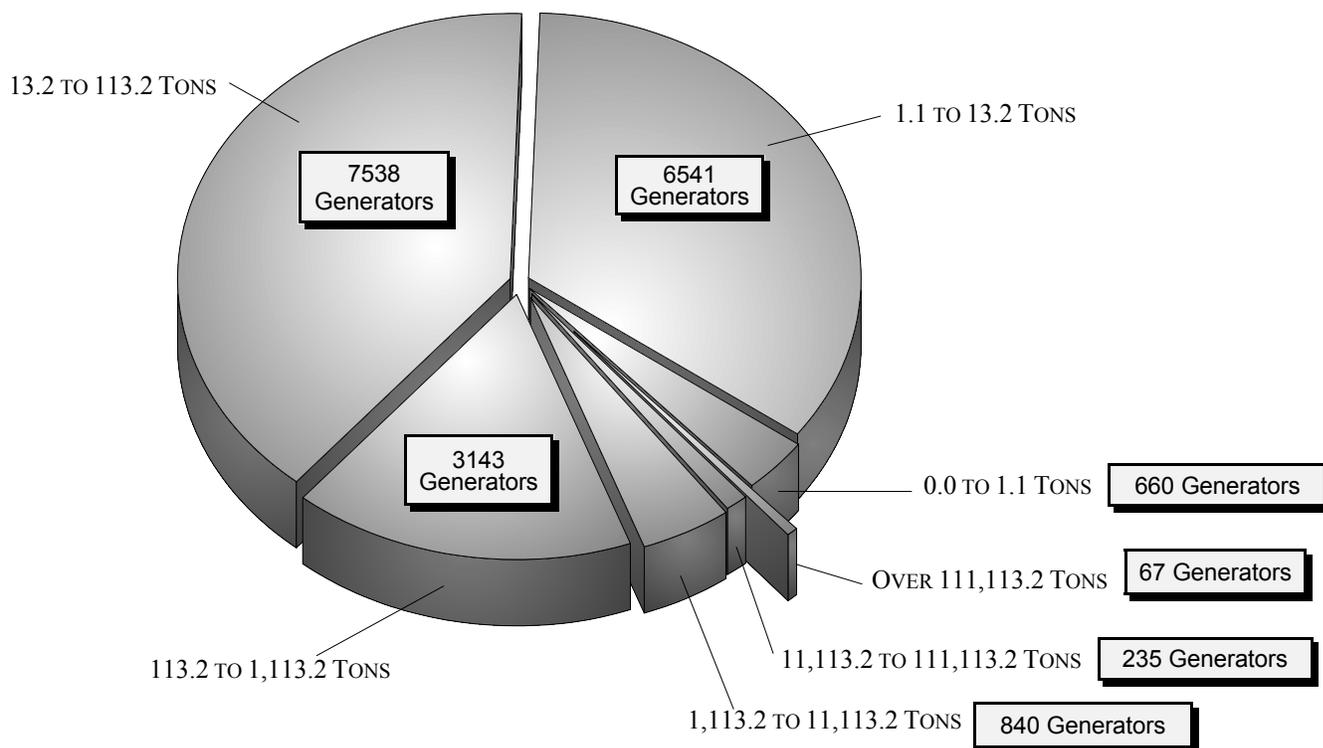
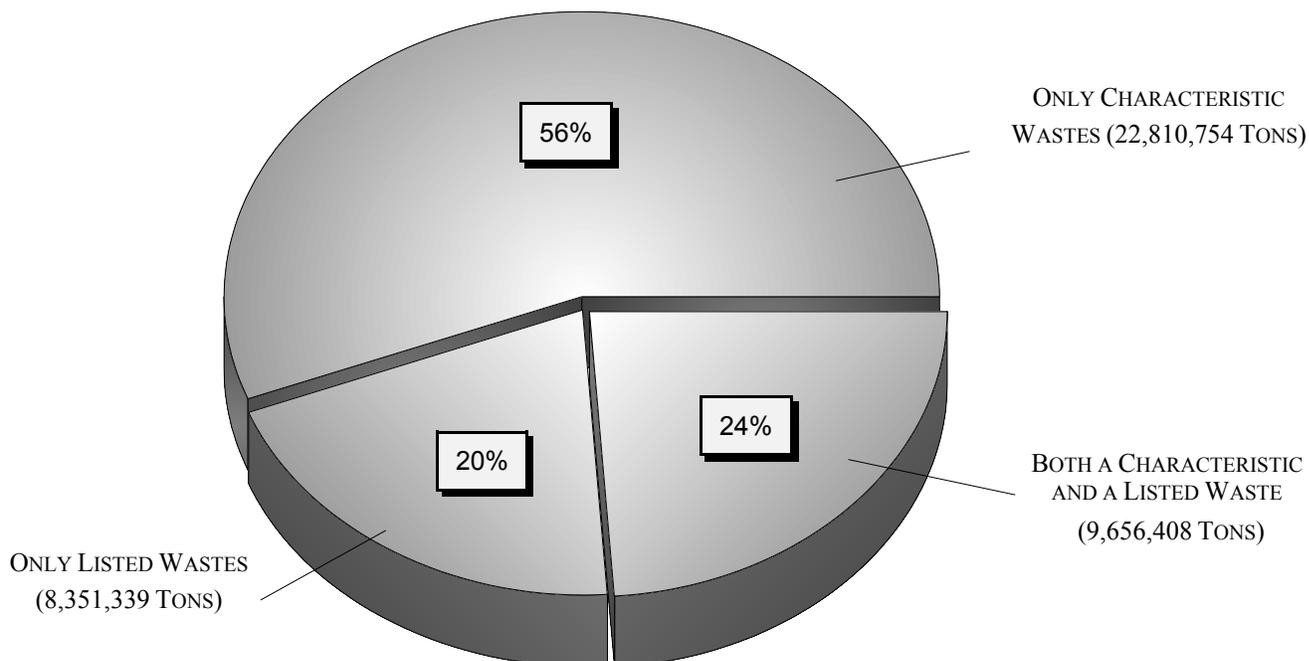


Exhibit 1.6 Percentages of National Generation Total That Were Characteristic, Listed, or Both Characteristic and Listed Waste, 2001



Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 1.7 Tons of Generated Waste That Were Only Characteristic Waste, Only Listed Waste, or Both Characteristic and Listed Waste, 2001

Only Characteristic Wastes		Only Listed Wastes		Both a Characteristic and a Listed Waste	
ONLY IGNITABLE	959,888	ONLY AN F CODE	3,718,154		
ONLY CORROSIVE	2,913,771	ONLY A K CODE	2,826,347		
ONLY REACTIVE	306,483	ONLY A P CODE	173,328		
ONLY D004-17	4,393,622	ONLY A U CODE	187,655		
ONLY D018-43	4,883,238				
HAS MORE THAN ONE CHARACTERISTIC CODE	9,353,753	HAS MORE THAN ONE LISTED CODE	1,445,854		
TOTAL	22,810,754	TOTAL	8,351,339	Both Characteristic and Listed	9,656,408

Note: All quantities are in tons.

Exhibit 1.8 Tons of Generated Waste with Multiple Characteristics, That Were Multiply Listed, or Both, 2001

Only Characteristic Wastes But With Multiple Characteristics		Only Listed Wastes But Multiply Listed		Both Characteristic and Listed Wastes ¹	
HAS IGNITABLE CODE	1,055,947			IGNITABLE CODE W/ AT LEAST ONE LISTED CODE	2,992,804
HAS CORROSIVE CODE	6,369,707			CORROSIVE CODE W/ AT LEAST ONE LISTED CODE	4,208,055
HAS REACTIVE CODE	2,486,140			REACTIVE CODE W/ AT LEAST ONE LISTED CODE	1,745,933
HAS D004-17 CODE	4,602,359			D004-17 CODE W/ AT LEAST ONE LISTED CODE	2,702,243
HAS D018-43 CODE	4,965,301			D018-43 CODE W/ AT LEAST ONE LISTED CODE	7,223,888
		HAS F CODE	1,430,837	F WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	7,534,198
		HAS K CODE	1,310,220	K WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	4,100,642
		HAS P CODE	183,905	P WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	1,028,112
		HAS U CODE	699,714	U WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	4,485,541
TOTAL	9,353,753	TOTAL	1,445,854	TOTAL	9,656,408

¹ Listed wastes with ignitable, corrosive, reactive, D004-17 (Toxic), or D018-43 (Toxic) characteristics respectively may have other characteristics as well. Similarly, characteristic wastes that are also F, K, P, or U listed wastes respectively may be other listed wastes as well.

Note: All quantities are in tons.
Columns do not sum to total because wastes may be included in more than one category.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 1.9 Fifty Largest Quantities of Hazardous Waste Generated, by Primary NAICS Code in the U.S., 2001

Rank	NAICS Code	Description	Tons Generated
1	3251	Basic Chemical Manufacturing	15,544,434
2	3241	Petroleum and Coal Products Manufacturing	6,182,893
3	5622	Waste Treatment and Disposal	2,546,707
4	3252	Resin, Synthetic Rubber, and Artificial and Synthetic Fibers and Filaments Manufacturing	2,220,909
5	3328	Coating, Engraving, Heat Treating, and Allied Activities	1,596,881
6	3314	Nonferrous Metal (except Aluminum) Production and Processing	1,563,179
7	3344	Semiconductor and Other Electronic Component Manufacturing	1,322,294
8	3311	Iron and Steel Mills and Ferroalloy Manufacturing	1,214,313
9	3254	Pharmaceutical and Medicine Manufacturing	885,050
10	3259	Other Chemical Product and Preparation Manufacturing	651,811
11	3313	Alumina and Aluminum Production and Processing	529,952
12	4229	Miscellaneous Nondurable Goods Wholesalers	510,497
13	3359	Other Electrical Equipment and Component Manufacturing	403,519
14	3312	Steel Product Manufacturing from Purchased Steel	381,485
15	3329	Other Fabricated Metal Product Manufacturing	349,305
16	3221	Pulp, Paper, and Paperboard Mills	337,953
17	5629	Remediation and Other Waste Management Services	332,292
18	3399	Other Miscellaneous Manufacturing	280,570
19	3363	Motor Vehicle Parts Manufacturing	279,413
20	3335	Metalworking Machinery Manufacturing	249,726
21	3261	Plastics Product Manufacturing	236,241
22	9281	National Security and International Affairs	193,852
23	3325	Hardware Manufacturing	170,853
24	3255	Paint, Coating, and Adhesive Manufacturing	166,120
25	3336	Engine, Turbine, and Power Transmission Equipment Manufacturing	164,051
26	3372	Office Furniture (including Fixtures) Manufacturing	156,028
27	3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	149,518
28	3211	Sawmills and Wood Preservation	131,635
29	3321	Forging and Stamping	119,531
30	3272	Glass and Glass Product Manufacturing	117,378
31	5415	Computer Systems Design and Related Services	92,078
32	3364	Aerospace Product and Parts Manufacturing	81,943
33	5619	Other Support Services	69,131
34	3327	Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing	63,488
35	3361	Motor Vehicle Manufacturing	59,010
36	4226	Chemical and Allied Products Wholesalers	57,347
37	3231	Printing and Related Support Activities	54,722
38	9241	Administration of Environmental Quality Programs	53,750
39	3315	Foundries	50,702
40	3391	Medical Equipment and Supplies Manufacturing	50,398
41	4881	Support Activities for Air Transportation	48,177
42	3152	Cut and Sew Apparel Manufacturing	48,153
43	3222	Converted Paper Product Manufacturing	48,014
44	2211	Electric Power Generation, Transmission and Distribution	43,436
45	4227	Petroleum and Petroleum Products Wholesalers	39,872
46	3322	Cutlery and Handtool Manufacturing	39,219
47	4821	Rail Transportation	36,802
48	325	Chemical Manufacturing	31,236
49	3256	Soap, Cleaning Compound, and Toilet Preparation Manufacturing	29,556
50	4931	Warehousing and Storage	29,339
Total			40,014,763

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

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Exhibit 2.1 Quantity of RCRA Hazardous Waste Managed and Number of RCRA Management Facilities, by State, 2001

State	Hazardous Waste Quantity ¹			Number of Facilities			Reported Status	
	Rank	Tons Managed	Percentage	Rank	Number	Percentage	TSDf	Non-TSDf
ALABAMA	9	1,659,686	3.7	16	54	2.2	16	38
ALASKA	41	44,840	0.1	39	9	0.4	5	4
ARIZONA	36	114,672	0.3	22	37	1.5	11	26
ARKANSAS	18	930,838	2.0	22	37	1.5	12	25
CALIFORNIA	8	1,740,395	3.8	3	252	10.2	69	183
COLORADO	43	35,076	0.1	31	20	0.8	11	9
CONNECTICUT	39	50,373	0.1	33	19	0.8	10	9
DELAWARE	45	23,123	0.1	39	9	0.4	2	7
DISTRICT OF COLUMBIA	52	1	0.0	49	2	0.1	0	2
FLORIDA	13	1,093,220	2.4	13	61	2.5	17	44
GEORGIA	21	682,924	1.5	15	56	2.3	21	35
GUAM	53	0	0.0	53	1	0.0	1	0
HAWAII	26	464,093	1.0	42	7	0.3	2	5
IDAHO	28	300,653	0.7	46	5	0.2	4	1
ILLINOIS	10	1,291,716	2.8	11	64	2.6	28	36
INDIANA	11	1,242,826	2.7	17	50	2.0	23	27
IOWA	48	3,530	0.0	31	20	0.8	7	13
KANSAS	5	2,339,399	5.1	22	37	1.5	13	24
KENTUCKY	4	2,570,548	5.7	6	95	3.8	20	75
LOUISIANA	2	3,998,289	8.8	18	43	1.7	27	16
MAINE	49	2,348	0.0	36	15	0.6	3	12
MARYLAND	44	27,194	0.1	44	6	0.2	2	4
MASSACHUSETTS	14	1,071,196	2.4	14	60	2.4	12	48
MICHIGAN	19	919,195	2.0	27	25	1.0	18	7
MINNESOTA	7	1,987,507	4.4	12	62	2.5	20	42
MISSISSIPPI	12	1,232,394	2.7	28	23	0.9	8	15
MISSOURI	29	280,748	0.6	20	41	1.7	19	22
MONTANA	34	166,480	0.4	46	5	0.2	0	5
NAVAJO NATION	53	0	0.0	55	0	0.0	0	0
NEBRASKA	23	580,838	1.3	38	13	0.5	5	8
NEVADA	27	323,076	0.7	39	9	0.4	4	5
NEW HAMPSHIRE	53	0	0.0	55	0	0.0	0	0
NEW JERSEY	20	749,122	1.6	26	28	1.1	15	13
NEW MEXICO	17	957,450	2.1	36	15	0.6	8	7
NEW YORK	3	3,919,000	8.6	2	280	11.3	36	244
NORTH CAROLINA	15	973,006	2.1	8	74	3.0	34	40
NORTH DAKOTA	24	571,025	1.3	44	6	0.2	5	1
OHIO	6	2,117,558	4.7	10	72	2.9	32	40
OKLAHOMA	16	966,699	2.1	21	39	1.6	13	26
OREGON	40	45,187	0.1	25	36	1.5	3	33
PENNSYLVANIA	25	502,056	1.1	7	83	3.3	35	48
PUERTO RICO	35	137,810	0.3	33	19	0.8	9	10
RHODE ISLAND	47	5,340	0.0	42	7	0.3	2	5
SOUTH CAROLINA	30	258,619	0.6	28	23	0.9	13	10
SOUTH DAKOTA	51	4	0.0	49	2	0.1	1	1
TENNESSEE	22	604,541	1.3	5	100	4.0	27	73
TEXAS	1	7,601,173	16.7	1	286	11.5	62	224
TRUST TERRITORIES	46	9,030	0.0	49	2	0.1	1	1
UTAH	37	89,871	0.2	30	22	0.9	13	9
VERMONT	53	0	0.0	48	4	0.2	4	0
VIRGIN ISLANDS	50	213	0.0	53	1	0.0	1	0
VIRGINIA	32	224,651	0.5	18	43	1.7	12	31
WASHINGTON	33	191,108	0.4	4	109	4.4	12	97
WEST VIRGINIA	38	65,942	0.1	35	16	0.6	10	6
WISCONSIN	31	224,763	0.5	9	73	2.9	18	55
WYOMING	42	35,675	0.1	49	2	0.1	0	2
Total		45,427,018	100.0		2,479	100.0	756	1,723

¹ Quantity managed by storage only is excluded.

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 2.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Managed and Number of RCRA Management Facilities, 2001

State	Hazardous Waste Quantity ¹			Number of Facilities			Reported Status	
	Rank	Tons Managed	Percentage	Rank	Number	Percentage	TSDF	Non-TSDF
TEXAS	1	7,601,173	16.7	1	286	11.5	62	224
LOUISIANA	2	3,998,289	8.8	18	43	1.7	27	16
NEW YORK	3	3,919,000	8.6	2	280	11.3	36	244
KENTUCKY	4	2,570,548	5.7	6	95	3.8	20	75
KANSAS	5	2,339,399	5.1	22	37	1.5	13	24
OHIO	6	2,117,558	4.7	10	72	2.9	32	40
MINNESOTA	7	1,987,507	4.4	12	62	2.5	20	42
CALIFORNIA	8	1,740,395	3.8	3	252	10.2	69	183
ALABAMA	9	1,659,686	3.7	16	54	2.2	16	38
ILLINOIS	10	1,291,716	2.8	11	64	2.6	28	36
INDIANA	11	1,242,826	2.7	17	50	2.0	23	27
MISSISSIPPI	12	1,232,394	2.7	28	23	0.9	8	15
FLORIDA	13	1,093,220	2.4	13	61	2.5	17	44
MASSACHUSETTS	14	1,071,196	2.4	14	60	2.4	12	48
NORTH CAROLINA	15	973,006	2.1	8	74	3.0	34	40
OKLAHOMA	16	966,699	2.1	21	39	1.6	13	26
NEW MEXICO	17	957,450	2.1	36	15	0.6	8	7
ARKANSAS	18	930,838	2.0	22	37	1.5	12	25
MICHIGAN	19	919,195	2.0	27	25	1.0	18	7
NEW JERSEY	20	749,122	1.6	26	28	1.1	15	13
GEORGIA	21	682,924	1.5	15	56	2.3	21	35
TENNESSEE	22	604,541	1.3	5	100	4.0	27	73
NEBRASKA	23	580,838	1.3	38	13	0.5	5	8
NORTH DAKOTA	24	571,025	1.3	44	6	0.2	5	1
PENNSYLVANIA	25	502,056	1.1	7	83	3.3	35	48
HAWAII	26	464,093	1.0	42	7	0.3	2	5
NEVADA	27	323,076	0.7	39	9	0.4	4	5
IDAHO	28	300,653	0.7	46	5	0.2	4	1
MISSOURI	29	280,748	0.6	20	41	1.7	19	22
SOUTH CAROLINA	30	258,619	0.6	28	23	0.9	13	10
WISCONSIN	31	224,763	0.5	9	73	2.9	18	55
VIRGINIA	32	224,651	0.5	18	43	1.7	12	31
WASHINGTON	33	191,108	0.4	4	109	4.4	12	97
MONTANA	34	166,480	0.4	46	5	0.2	0	5
PUERTO RICO	35	137,810	0.3	33	19	0.8	9	10
ARIZONA	36	114,672	0.3	22	37	1.5	11	26
UTAH	37	89,871	0.2	30	22	0.9	13	9
WEST VIRGINIA	38	65,942	0.1	35	16	0.6	10	6
CONNECTICUT	39	50,373	0.1	33	19	0.8	10	9
OREGON	40	45,187	0.1	25	36	1.5	3	33
ALASKA	41	44,840	0.1	39	9	0.4	5	4
WYOMING	42	35,675	0.1	49	2	0.1	0	2
COLORADO	43	35,076	0.1	31	20	0.8	11	9
MARYLAND	44	27,194	0.1	44	6	0.2	2	4
DELAWARE	45	23,123	0.1	39	9	0.4	2	7
TRUST TERRITORIES	46	9,030	0.0	49	2	0.1	1	1
RHODE ISLAND	47	5,340	0.0	42	7	0.3	2	5
IOWA	48	3,530	0.0	31	20	0.8	7	13
MAINE	49	2,348	0.0	36	15	0.6	3	12
VIRGIN ISLANDS	50	213	0.0	53	1	0.0	1	0
SOUTH DAKOTA	51	4	0.0	49	2	0.1	1	1
DISTRICT OF COLUMBIA	52	1	0.0	49	2	0.1	0	2
GUAM	53	0	0.0	53	1	0.0	1	0
NAVAJO NATION	53	0	0.0	55	0	0.0	0	0
NEW HAMPSHIRE	53	0	0.0	55	0	0.0	0	0
VERMONT	53	0	0.0	48	4	0.2	4	0
Total		45,427,018	100.0		2,479	100.0	756	1,723

¹ Quantity managed by storage only is excluded.

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 2.3 Rank Ordering of States Based on Number of RCRA Management Facilities and Quantity of RCRA Hazardous Waste Managed, 2001

State	Number of Facilities			Hazardous Waste Quantity ¹			Reported Status	
	Rank	Number	Percentage	Rank	Tons Managed	Percentage	TSDF	Non-TSDF
TEXAS	1	286	11.5	1	7,601,173	16.7	62	224
NEW YORK	2	280	11.3	3	3,919,000	8.6	36	244
CALIFORNIA	3	252	10.2	8	1,740,395	3.8	69	183
WASHINGTON	4	109	4.4	33	191,108	0.4	12	97
TENNESSEE	5	100	4.0	22	604,541	1.3	27	73
KENTUCKY	6	95	3.8	4	2,570,548	5.7	20	75
PENNSYLVANIA	7	83	3.3	25	502,056	1.1	35	48
NORTH CAROLINA	8	74	3.0	15	973,006	2.1	34	40
WISCONSIN	9	73	2.9	31	224,763	0.5	18	55
OHIO	10	72	2.9	6	2,117,558	4.7	32	40
ILLINOIS	11	64	2.6	10	1,291,716	2.8	28	36
MINNESOTA	12	62	2.5	7	1,987,507	4.4	20	42
FLORIDA	13	61	2.5	13	1,093,220	2.4	17	44
MASSACHUSETTS	14	60	2.4	14	1,071,196	2.4	12	48
GEORGIA	15	56	2.3	21	682,924	1.5	21	35
ALABAMA	16	54	2.2	9	1,659,686	3.7	16	38
INDIANA	17	50	2.0	11	1,242,826	2.7	23	27
LOUISIANA	18	43	1.7	2	3,998,289	8.8	27	16
VIRGINIA	18	43	1.7	32	224,651	0.5	12	31
MISSOURI	20	41	1.7	29	280,748	0.6	19	22
OKLAHOMA	21	39	1.6	16	966,699	2.1	13	26
ARIZONA	22	37	1.5	36	114,672	0.3	11	26
ARKANSAS	22	37	1.5	18	930,838	2.0	12	25
KANSAS	22	37	1.5	5	2,339,399	5.1	13	24
OREGON	25	36	1.5	40	45,187	0.1	3	33
NEW JERSEY	26	28	1.1	20	749,122	1.6	15	13
MICHIGAN	27	25	1.0	19	919,195	2.0	18	7
MISSISSIPPI	28	23	0.9	12	1,232,394	2.7	8	15
SOUTH CAROLINA	28	23	0.9	30	258,619	0.6	13	10
UTAH	30	22	0.9	37	89,871	0.2	13	9
COLORADO	31	20	0.8	43	35,076	0.1	11	9
IOWA	31	20	0.8	48	3,530	0.0	7	13
CONNECTICUT	33	19	0.8	39	50,373	0.1	10	9
PUERTO RICO	33	19	0.8	35	137,810	0.3	9	10
WEST VIRGINIA	35	16	0.6	38	65,942	0.1	10	6
MAINE	36	15	0.6	49	2,348	0.0	3	12
NEW MEXICO	36	15	0.6	17	957,450	2.1	8	7
NEBRASKA	38	13	0.5	23	580,838	1.3	5	8
ALASKA	39	9	0.4	41	44,840	0.1	5	4
DELAWARE	39	9	0.4	45	23,123	0.1	2	7
NEVADA	39	9	0.4	27	323,076	0.7	4	5
HAWAII	42	7	0.3	26	464,093	1.0	2	5
RHODE ISLAND	42	7	0.3	47	5,340	0.0	2	5
MARYLAND	44	6	0.2	44	27,194	0.1	2	4
NORTH DAKOTA	44	6	0.2	24	571,025	1.3	5	1
IDAHO	46	5	0.2	28	300,653	0.7	4	1
MONTANA	46	5	0.2	34	166,480	0.4	0	5
VERMONT	48	4	0.2	53	0	0.0	4	0
DISTRICT OF COLUMBIA	49	2	0.1	52	1	0.0	0	2
SOUTH DAKOTA	49	2	0.1	51	4	0.0	1	1
TRUST TERRITORIES	49	2	0.1	46	9,030	0.0	1	1
WYOMING	49	2	0.1	42	35,675	0.1	0	2
GUAM	53	1	0.0	53	0	0.0	1	0
VIRGIN ISLANDS	53	1	0.0	50	213	0.0	1	0
NAVAJO NATION	55	0	0.0	53	0	0.0	0	0
NEW HAMPSHIRE	55	0	0.0	53	0	0.0	0	0
Total		2,479	100.0		45,427,018	100.0	756	1,723

¹ Quantity managed by storage only is excluded.

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 2.4 Fifty Largest RCRA Hazardous Waste Managers in the U.S., 2001

Rank	EPA ID	Name	City	Tons Managed ¹
1	KSD007482029	VULCAN MATERIALS CO	WICHITA, KS	2,318,494
2	TXD008080533	BP PRODUCTS NORTH AMERICA INC	TEXAS CITY, TX	2,029,934
3	LAD008213191	RUBICON INC.	GEISMAR, LA	1,855,709
4	LAD008175390	CYTEC INDUSTRIES INC.	WAGGAMAN, LA	1,443,259
5	NYD002080034	GE SILICONES, LLC	WATERFORD, NY	1,391,487
6	TXD059685339	DIAMOND SHAMROCK REFINING AND MARKETIN	SUNRAY, TX	1,256,113
7	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW, TX	962,122
8	NMD048918817	NAVAJO REFINING COMPANY	ARTESIA, NM	956,406
9	OHD042157644	BP CHEMICALS INC	LIMA, OH	913,170
10	TXD008123317	DU PONT DE NEMOURS AND COMPANY	VICTORIA, TX	830,801
11	CAD981653553	CALIFORNIA INSTITUTION FOR MEN	CHINO, CA	788,111
12	MND006172969	3M COMPANY	COTTAGE GROVE, MN	727,865
13	TXD008079642	E I DU PONT DE NEMOURS AND COMPANY	ORANGE, TX	624,471
14	FLD980799050	FAIRBANKS DISPOSAL PIT	GAINESVILLE, FL	583,233
15	NDD006175467	TESORO - MANDAN REFINERY	MANDAN, ND	570,923
16	OKD000829440	ZINC CORPORATION OF AMERICA	BARTLESVILLE, OK	525,211
17	MND006253801	SUPERIOR PLATING INC	MINNEAPOLIS, MN	518,495
18	KYD006373922	ATOFINA CHEMICALS, INC.	CARROLLTON, KY	507,210
19	ARD043195429	GREAT LAKES CHEMICAL CORP. CENTRAL	EL DORADO, AR	486,096
20	NYD000707901	IBM CORPORATION-E FISHKILL FACILITY	HOPEWELL JUNCTION, NY	467,118
21	HID056786395	TESORO HAWAII CORPORATION REFINERY	KAPOLEI, HI	464,010
22	NED000610550	TETRA MICRONUTRIENTS INC	FAIRBURY, NE	455,426
23	ILD042075333	CABOT CORP	TUSCOLA, IL	442,365
24	ALD046481032	SANDERS LEAD COMPANY, INC.	TROY, AL	436,367
25	MSD008186587	MORTON INTERNATIONAL A ROHM & HAAS CO.	MOSS POINT, MS	397,828
26	IND003913423	BETHLEHEM STEEL CORP BURNS HARBOR	BURNS HARBOR, IN	393,206
27	MSD033417031	FIRST CHEMICAL CORPORATION	PASCAGOULA, MS	395,654
28	TXD008081697	BASF CORPORATION	FREEPORT, TX	332,566
29	NYD000824482	OCCIDENTAL CHEMICAL CORPORATION	NIAGARA FALLS, NY	318,062
30	NVT330010000	US ECOLOGY, INC	BEATTY, NV	316,641
31	ALD004009320	HUNT REFINING COMPANY	TUSCALOOSA, AL	315,984
32	NYD980592497	EASTMAN KODAK	ROCHESTER, NY	314,564
33	OKD987072006	NORIT AMERICAS INC., PRYOR FACILITY	PRYOR, OK	307,336
34	NJD991291105	CLEAN EARTH OF NORTH JERSEY	SOUTH KEARNY, NJ	294,550
35	FLR000068007	K.C. INDUSTRIS, LLC, MULBERRY, FLORIDA	MULBERRY, FL	287,413
36	GAD003275252	INTERNATIONAL PAPER CO	SAVANNAH, GA	279,804
37	NJD002385730	DUPONT CHAMBERS WORKS	DEEPWATER, NJ	278,929
38	MID006013643	PFIZER INC PARKE-DAVIS & CO	HOLLAND, MI	270,021
39	MND006148092	GOPHER RESOURCE CORPORATION	EAGAN, MN	259,539
40	NYD002245967	REYNOLDS METALS COMPANY	MASSENA, NY	251,974
41	CA1800090010	BOEING CO. - SANTA SUSANA AREA II NASA	SIMI HILLS, CA	243,626
42	KYD006371314	NOVEON INC	LOUISVILLE, KY	238,423
43	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA, IL	227,291
44	MID000724831	MICHIGAN DISPOSAL WASTE TREATMENT PLANT	BELLEVILLE, MI	224,544
45	NCD001810365	CLARIANT CORPORATION - MOUNT HOLLY EAST	CHARLOTTE, NC	223,496
46	OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	OREGON, OH	217,870
47	ARD006354161	REYNOLDS METALS COMPANY	ARKADELPHIA, AR	214,489
48	KYD006384531	HARSHAW CHEMICAL CO.	LOUISVILLE, KY	211,644
49	IDD070929518	FMC IDAHO LLC	POCATELLO, ID	209,473
50	CAD076528678	THE DOW CHIMICAL COMPANY	PITTSBURG, CA	207,159
Total				28,746,478

¹ Quantity managed by storage only is excluded.

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 2.5 Quantity of RCRA Hazardous Waste Managed, by Management Method, 2001

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
AQUEOUS INORGANIC TREATMENT	3,672,052	8.0	322	13.0
AQUEOUS ORGANIC TREATMENT	4,501,963	9.8	97	3.9
DEEPWELL OR UNDERGROUND INJECTION	17,681,650	38.3	48	1.9
ENERGY RECOVERY	1,700,078	3.7	105	4.2
FUEL BLENDING	923,332	2.0	117	4.7
INCINERATION	1,646,217	3.6	174	7.0
LAND TREATMENT/APPLICATION/FARMING	65,508	0.1	14	0.6
LANDFILL/SURFACE IMPOUNDMENT	2,089,701	4.5	69	2.8
METALS RECOVERY	1,461,606	3.2	191	7.7
OTHER DISPOSAL	6,429,341	13.9	206	8.3
OTHER RECOVERY	1,026,255	2.2	97	3.9
OTHER TREATMENT	2,355,272	5.1	562	22.7
SLUDGE TREATMENT	178,975	0.4	99	4.0
SOLVENTS RECOVERY	425,459	0.9	564	22.8
STABILIZATION	1,269,609	2.8	243	9.8
STORAGE AND/OR TRANSFER	717,785	1.6	639	25.8
Total	46,144,802	100.0	2479	

Exhibit 2.6 Management Method, by Quantity of RCRA Hazardous Waste Managed, 2001

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
DEEPWELL OR UNDERGROUND INJECTION	17,681,650	38.3	48	1.9
OTHER DISPOSAL	6,429,341	13.9	206	8.3
AQUEOUS ORGANIC TREATMENT	4,501,963	9.8	97	3.9
AQUEOUS INORGANIC TREATMENT	3,672,052	8.0	322	13.0
OTHER TREATMENT	2,355,272	5.1	562	22.7
LANDFILL/SURFACE IMPOUNDMENT	2,089,701	4.5	69	2.8
ENERGY RECOVERY	1,700,078	3.7	105	4.2
INCINERATION	1,646,217	3.6	174	7.0
METALS RECOVERY	1,461,606	3.2	191	7.7
STABILIZATION	1,269,609	2.8	243	9.8
OTHER RECOVERY	1,026,255	2.2	97	3.9
FUEL BLENDING	923,332	2.0	117	4.7
STORAGE AND/OR TRANSFER	717,785	1.6	639	25.8
SOLVENTS RECOVERY	425,459	0.9	564	22.8
SLUDGE TREATMENT	178,975	0.4	99	4.0
LAND TREATMENT/APPLICATION/FARMING	65,508	0.1	14	0.6
Total	46,144,802	100.0	2479	

Exhibit 2.7 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, 2001

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
STORAGE AND/OR TRANSFER	717,785	1.6	639	25.8
SOLVENTS RECOVERY	425,459	0.9	564	22.8
OTHER TREATMENT	2,355,272	5.1	562	22.7
AQUEOUS INORGANIC TREATMENT	3,672,052	8.0	322	13.0
STABILIZATION	1,269,609	2.8	243	9.8
OTHER DISPOSAL	6,429,341	13.9	206	8.3
METALS RECOVERY	1,461,606	3.2	191	7.7
INCINERATION	1,646,217	3.6	174	7.0
FUEL BLENDING	923,332	2.0	117	4.7
ENERGY RECOVERY	1,700,078	3.7	105	4.2
SLUDGE TREATMENT	178,975	0.4	99	4.0
AQUEOUS ORGANIC TREATMENT	4,501,963	9.8	97	3.9
OTHER RECOVERY	1,026,255	2.2	97	3.9
LANDFILL/SURFACE IMPOUNDMENT	2,089,701	4.5	69	2.8
DEEPWELL OR UNDERGROUND INJECTION	17,681,650	38.3	48	1.9
LAND TREATMENT/APPLICATION/FARMING	65,508	0.1	14	0.6
Total	46,144,802	100.0	2479	

¹ Columns may not sum because facilities may have multiple handling methods.

Note: Columns for these exhibits may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 2.8 Quantity of RCRA Hazardous Waste Managed, by Management Method, Limited to Waste Received from Off-Site, 2001

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
AQUEOUS INORGANIC TREATMENT	284,457	3.5	39	6.6
AQUEOUS ORGANIC TREATMENT	101,133	1.2	29	4.9
DEEPWELL OR UNDERGROUND INJECTION	527,484	6.5	14	2.4
ENERGY RECOVERY	956,673	11.8	44	7.4
FUEL BLENDING	766,437	9.5	96	16.1
INCINERATION	881,014	10.9	87	14.6
LAND TREATMENT/APPLICATION/FARMING	46	0.0	5	0.8
LANDFILL/SURFACE IMPOUNDMENT	1,019,654	12.6	32	5.4
METALS RECOVERY	566,020	7.0	95	16.0
OTHER DISPOSAL	301,968	3.7	19	3.2
OTHER RECOVERY	545,138	6.7	26	4.4
OTHER TREATMENT	310,451	3.8	107	18.0
SLUDGE TREATMENT	12,341	0.2	12	2.0
SOLVENTS RECOVERY	266,114	3.3	57	9.6
STABILIZATION	987,502	12.2	51	8.6
STORAGE AND/OR TRANSFER	568,286	7.0	381	64.0
Total	8,094,720	100.0	595	

Exhibit 2.9 Management Method, by Quantity of RCRA Hazardous Waste Managed, Limited to Waste Received from Off-Site, 2001

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
LANDFILL/SURFACE IMPOUNDMENT	1,019,654	12.6	32	5.4
STABILIZATION	987,502	12.2	51	8.6
ENERGY RECOVERY	956,673	11.8	44	7.4
INCINERATION	881,014	10.9	87	14.6
FUEL BLENDING	766,437	9.5	96	16.1
STORAGE AND/OR TRANSFER	568,286	7.0	381	64.0
METALS RECOVERY	566,020	7.0	95	16.0
OTHER RECOVERY	545,138	6.7	26	4.4
DEEPWELL OR UNDERGROUND INJECTION	527,484	6.5	14	2.4
OTHER TREATMENT	310,451	3.8	107	18.0
OTHER DISPOSAL	301,968	3.7	19	3.2
AQUEOUS INORGANIC TREATMENT	284,457	3.5	39	6.6
SOLVENTS RECOVERY	266,114	3.3	57	9.6
AQUEOUS ORGANIC TREATMENT	101,133	1.2	29	4.9
SLUDGE TREATMENT	12,341	0.2	12	2.0
LAND TREATMENT/APPLICATION/FARMING	46	0.0	5	0.8
Total	8,094,720	100.0	595	

Exhibit 2.10 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, Limited to Waste Received from Off-Site, 2001

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
STORAGE AND/OR TRANSFER	568,286	7.0	381	64.0
OTHER TREATMENT	310,451	3.8	107	18.0
FUEL BLENDING	766,437	9.5	96	16.1
METALS RECOVERY	566,020	7.0	95	16.0
INCINERATION	881,014	10.9	87	14.6
SOLVENTS RECOVERY	266,114	3.3	57	9.6
STABILIZATION	987,502	12.2	51	8.6
ENERGY RECOVERY	956,673	11.8	44	7.4
AQUEOUS INORGANIC TREATMENT	284,457	3.5	39	6.6
LANDFILL/SURFACE IMPOUNDMENT	1,019,654	12.6	32	5.4
AQUEOUS ORGANIC TREATMENT	101,133	1.2	29	4.9
OTHER RECOVERY	545,138	6.7	26	4.4
OTHER DISPOSAL	301,968	3.7	19	3.2
DEEPWELL OR UNDERGROUND INJECTION	527,484	6.5	14	2.4
SLUDGE TREATMENT	12,341	0.2	12	2.0
LAND TREATMENT/APPLICATION/FARMING	46	0.0	5	0.8
Total	8,094,720	100.0	595	

¹ Columns may not sum because facilities may have multiple handling methods.

Note: Columns for these exhibits may not sum due to rounding.

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Exhibit 3.1 Quantity of RCRA Hazardous Waste Shipped and Number of Hazardous Waste Shippers, by State, 2001

State	Hazardous Waste Quantity			Number of Shippers			Reported Status	
	Rank	Tons Shipped	Percentage	Rank	Number	Percentage	LQG	Non-LQG
ALABAMA	10	276,723	4.1	23	264	1.4	260	4
ALASKA	47	4,020	0.1	43	49	0.3	47	2
ARIZONA	26	59,328	0.9	29	193	1.0	190	3
ARKANSAS	9	290,102	4.2	28	198	1.0	183	15
CALIFORNIA	1	716,681	10.5	1	2,543	13.5	2,519	24
COLORADO	35	29,929	0.4	33	144	0.8	135	9
CONNECTICUT	22	74,924	1.1	18	362	1.9	359	3
DELAWARE	37	16,940	0.2	41	66	0.3	65	1
DISTRICT OF COLUMBIA	49	2,111	0.0	50	18	0.1	18	0
FLORIDA	27	58,269	0.9	16	378	2.0	356	22
GEORGIA	16	110,654	1.6	17	363	1.9	360	3
GUAM	54	437	0.0	49	24	0.1	11	13
HAWAII	53	791	0.0	47	35	0.2	30	5
IDAHO	45	5,078	0.1	44	48	0.3	31	17
ILLINOIS	7	370,783	5.4	4	950	5.0	949	1
INDIANA	5	426,579	6.2	9	621	3.3	488	133
IOWA	31	44,875	0.7	31	168	0.9	152	16
KANSAS	30	46,949	0.7	26	221	1.2	207	14
KENTUCKY	11	205,175	3.0	20	314	1.7	314	0
LOUISIANA	15	150,171	2.2	13	460	2.4	419	41
MAINE	44	5,374	0.1	40	77	0.4	70	7
MARYLAND	39	10,563	0.2	53	13	0.1	13	0
MASSACHUSETTS	25	61,862	0.9	14	436	2.3	431	5
MICHIGAN	4	426,643	6.2	8	787	4.2	572	215
MINNESOTA	24	62,162	0.9	24	256	1.4	253	3
MISSISSIPPI	33	36,471	0.5	32	158	0.8	154	4
MISSOURI	23	65,546	1.0	21	295	1.6	282	13
MONTANA	42	6,464	0.1	45	44	0.2	38	6
NAVAJO NATION	56	186	0.0	54	7	0.0	7	0
NEBRASKA	36	26,286	0.4	38	80	0.4	76	4
NEVADA	43	5,605	0.1	38	80	0.4	79	1
NEW HAMPSHIRE	38	12,290	0.2	25	232	1.2	167	65
NEW JERSEY	6	389,617	5.7	5	892	4.7	891	1
NEW MEXICO	41	7,407	0.1	46	40	0.2	36	4
NEW YORK	12	181,732	2.7	2	1,892	10.0	1,886	6
NORTH CAROLINA	20	85,809	1.3	12	468	2.5	440	28
NORTH DAKOTA	48	3,526	0.1	52	14	0.1	12	2
OHIO	2	703,652	10.3	3	1,067	5.7	951	116
OKLAHOMA	34	35,426	0.5	30	169	0.9	135	34
OREGON	29	48,460	0.7	27	205	1.1	205	0
PENNSYLVANIA	8	313,677	4.6	7	868	4.6	868	0
PUERTO RICO	17	98,146	1.4	36	83	0.4	83	0
RHODE ISLAND	40	9,327	0.1	34	133	0.7	129	4
SOUTH CAROLINA	14	155,578	2.3	19	322	1.7	291	31
SOUTH DAKOTA	52	1,256	0.0	51	16	0.1	16	0
TENNESSEE	28	54,438	0.8	15	385	2.0	383	2
TEXAS	3	663,506	9.7	6	876	4.6	871	5
TRUST TERRITORIES	55	418	0.0	55	3	0.0	2	1
UTAH	19	88,641	1.3	37	81	0.4	81	0
VERMONT	46	4,420	0.1	42	50	0.3	48	2
VIRGIN ISLANDS	50	1,990	0.0	56	1	0.0	1	0
VIRGINIA	18	89,402	1.3	22	267	1.4	266	1
WASHINGTON	21	77,450	1.1	10	503	2.7	503	0
WEST VIRGINIA	32	43,072	0.6	35	130	0.7	130	0
WISCONSIN	13	163,043	2.4	11	485	2.6	485	0
WYOMING	51	1,836	0.0	48	26	0.1	21	5
Total		6,831,799	100.0		18,860	100.0	17,969	891

Note: Columns may not sum due to rounding.

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National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 3.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Shipped and Number of Hazardous Waste Shippers, 2001

State	Hazardous Waste Quantity			Number of Shippers			Reported Status	
	Rank	Tons Shipped	Percentage	Rank	Number	Percentage	LQG	Non-LQG
CALIFORNIA	1	716,681	10.5	1	2,543	13.5	2,519	24
OHIO	2	703,652	10.3	3	1,067	5.7	951	116
TEXAS	3	663,506	9.7	6	876	4.6	871	5
MICHIGAN	4	426,643	6.2	8	787	4.2	572	215
INDIANA	5	426,579	6.2	9	621	3.3	488	133
NEW JERSEY	6	389,617	5.7	5	892	4.7	891	1
ILLINOIS	7	370,783	5.4	4	950	5.0	949	1
PENNSYLVANIA	8	313,677	4.6	7	868	4.6	868	0
ARKANSAS	9	290,102	4.2	28	198	1.0	183	15
ALABAMA	10	276,723	4.1	23	264	1.4	260	4
KENTUCKY	11	205,175	3.0	20	314	1.7	314	0
NEW YORK	12	181,732	2.7	2	1,892	10.0	1,886	6
WISCONSIN	13	163,043	2.4	11	485	2.6	485	0
SOUTH CAROLINA	14	155,578	2.3	19	322	1.7	291	31
LOUISIANA	15	150,171	2.2	13	460	2.4	419	41
GEORGIA	16	110,654	1.6	17	363	1.9	360	3
PUERTO RICO	17	98,146	1.4	36	83	0.4	83	0
VIRGINIA	18	89,402	1.3	22	267	1.4	266	1
UTAH	19	88,641	1.3	37	81	0.4	81	0
NORTH CAROLINA	20	85,809	1.3	12	468	2.5	440	28
WASHINGTON	21	77,450	1.1	10	503	2.7	503	0
CONNECTICUT	22	74,924	1.1	18	362	1.9	359	3
MISSOURI	23	65,546	1.0	21	295	1.6	282	13
MINNESOTA	24	62,162	0.9	24	256	1.4	253	3
MASSACHUSETTS	25	61,862	0.9	14	436	2.3	431	5
ARIZONA	26	59,328	0.9	29	193	1.0	190	3
FLORIDA	27	58,269	0.9	16	378	2.0	356	22
TENNESSEE	28	54,438	0.8	15	385	2.0	383	2
OREGON	29	48,460	0.7	27	205	1.1	205	0
KANSAS	30	46,949	0.7	26	221	1.2	207	14
IOWA	31	44,875	0.7	31	168	0.9	152	16
WEST VIRGINIA	32	43,072	0.6	35	130	0.7	130	0
MISSISSIPPI	33	36,471	0.5	32	158	0.8	154	4
OKLAHOMA	34	35,426	0.5	30	169	0.9	135	34
COLORADO	35	29,929	0.4	33	144	0.8	135	9
NEBRASKA	36	26,286	0.4	38	80	0.4	76	4
DELAWARE	37	16,940	0.2	41	66	0.3	65	1
NEW HAMPSHIRE	38	12,290	0.2	25	232	1.2	167	65
MARYLAND	39	10,563	0.2	53	13	0.1	13	0
RHODE ISLAND	40	9,327	0.1	34	133	0.7	129	4
NEW MEXICO	41	7,407	0.1	46	40	0.2	36	4
MONTANA	42	6,464	0.1	45	44	0.2	38	6
NEVADA	43	5,605	0.1	38	80	0.4	79	1
MAINE	44	5,374	0.1	40	77	0.4	70	7
IDAHO	45	5,078	0.1	44	48	0.3	31	17
VERMONT	46	4,420	0.1	42	50	0.3	48	2
ALASKA	47	4,020	0.1	43	49	0.3	47	2
NORTH DAKOTA	48	3,526	0.1	52	14	0.1	12	2
DISTRICT OF COLUMBIA	49	2,111	0.0	50	18	0.1	18	0
VIRGIN ISLANDS	50	1,990	0.0	56	1	0.0	1	0
WYOMING	51	1,836	0.0	48	26	0.1	21	5
SOUTH DAKOTA	52	1,256	0.0	51	16	0.1	16	0
HAWAII	53	791	0.0	47	35	0.2	30	5
GUAM	54	437	0.0	49	24	0.1	11	13
TRUST TERRITORIES	55	418	0.0	55	3	0.0	2	1
NAVAJO NATION	56	186	0.0	54	7	0.0	7	0
Total		6,831,799	100.0		18,860	100.0	17,969	891

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 3.3 Rank Ordering of States Based on Number of Hazardous Waste Shippers and Quantity of RCRA Hazardous Waste Shipped, 2001

State	Number of Shippers			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Shipped	Percentage	LQG	Non-LQG
CALIFORNIA	1	2,543	13.5	1	716,681	10.5	2,519	24
NEW YORK	2	1,892	10.0	12	181,732	2.7	1,886	6
OHIO	3	1,067	5.7	2	703,652	10.3	951	116
ILLINOIS	4	950	5.0	7	370,783	5.4	949	1
NEW JERSEY	5	892	4.7	6	389,617	5.7	891	1
TEXAS	6	876	4.6	3	663,506	9.7	871	5
PENNSYLVANIA	7	868	4.6	8	313,677	4.6	868	0
MICHIGAN	8	787	4.2	4	426,643	6.2	572	215
INDIANA	9	621	3.3	5	426,579	6.2	488	133
WASHINGTON	10	503	2.7	21	77,450	1.1	503	0
WISCONSIN	11	485	2.6	13	163,043	2.4	485	0
NORTH CAROLINA	12	468	2.5	20	85,809	1.3	440	28
LOUISIANA	13	460	2.4	15	150,171	2.2	419	41
MASSACHUSETTS	14	436	2.3	25	61,862	0.9	431	5
TENNESSEE	15	385	2.0	28	54,438	0.8	383	2
FLORIDA	16	378	2.0	27	58,269	0.9	356	22
GEORGIA	17	363	1.9	16	110,654	1.6	360	3
CONNECTICUT	18	362	1.9	22	74,924	1.1	359	3
SOUTH CAROLINA	19	322	1.7	14	155,578	2.3	291	31
KENTUCKY	20	314	1.7	11	205,175	3.0	314	0
MISSOURI	21	295	1.6	23	65,546	1.0	282	13
VIRGINIA	22	267	1.4	18	89,402	1.3	266	1
ALABAMA	23	264	1.4	10	276,723	4.1	260	4
MINNESOTA	24	256	1.4	24	62,162	0.9	253	3
NEW HAMPSHIRE	25	232	1.2	38	12,290	0.2	167	65
KANSAS	26	221	1.2	30	46,949	0.7	207	14
OREGON	27	205	1.1	29	48,460	0.7	205	0
ARKANSAS	28	198	1.0	9	290,102	4.2	183	15
ARIZONA	29	193	1.0	26	59,328	0.9	190	3
OKLAHOMA	30	169	0.9	34	35,426	0.5	135	34
IOWA	31	168	0.9	31	44,875	0.7	152	16
MISSISSIPPI	32	158	0.8	33	36,471	0.5	154	4
COLORADO	33	144	0.8	35	29,929	0.4	135	9
RHODE ISLAND	34	133	0.7	40	9,327	0.1	129	4
WEST VIRGINIA	35	130	0.7	32	43,072	0.6	130	0
PUERTO RICO	36	83	0.4	17	98,146	1.4	83	0
UTAH	37	81	0.4	19	88,641	1.3	81	0
NEBRASKA	38	80	0.4	36	26,286	0.4	76	4
NEVADA	38	80	0.4	43	5,605	0.1	79	1
MAINE	40	77	0.4	44	5,374	0.1	70	7
DELAWARE	41	66	0.3	37	16,940	0.2	65	1
VERMONT	42	50	0.3	46	4,420	0.1	48	2
ALASKA	43	49	0.3	47	4,020	0.1	47	2
IDAHO	44	48	0.3	45	5,078	0.1	31	17
MONTANA	45	44	0.2	42	6,464	0.1	38	6
NEW MEXICO	46	40	0.2	41	7,407	0.1	36	4
HAWAII	47	35	0.2	53	791	0.0	30	5
WYOMING	48	26	0.1	51	1,836	0.0	21	5
GUAM	49	24	0.1	54	437	0.0	11	13
DISTRICT OF COLUMBIA	50	18	0.1	49	2,111	0.0	18	0
SOUTH DAKOTA	51	16	0.1	52	1,256	0.0	16	0
NORTH DAKOTA	52	14	0.1	48	3,526	0.1	12	2
MARYLAND	53	13	0.1	39	10,563	0.2	13	0
NAVAJO NATION	54	7	0.0	56	186	0.0	7	0
TRUST TERRITORIES	55	3	0.0	55	418	0.0	2	1
VIRGIN ISLANDS	56	1	0.0	50	1,990	0.0	1	0
Total		18,860	100.0		6,831,799	100.0	17,969	891

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 3.4 Fifty Largest RCRA Hazardous Waste Shippers in the U.S., 2001

Rank	EPA ID	Name	City	Tons Shipped
1	CAR000081422	BRITE PLATING CO. INC.	LOS ANGELES, CA	264,641
2	OHD005048947	SYSTECH ENVIRONMENTAL CORPORATION	PAULDING, OH	105,966
3	ARD981057870	RINECO CHEMICAL INDUSTRIES, INC	BENTON, AR	102,147
4	ALD070513767	M & M CHEMICAL & EQUIPMENT CO., INC.	ATTALLA, AL	84,037
5	MID980615298	PETRO CHEM PROCESSING GRP OF NORTRU	DETROIT, MI	80,354
6	IND093219012	HERITAGE ENVIRONMENTAL SERVICES LLC	INDIANAPOLIS, IN	75,744
7	ARD981908890	NUCOR YAMATO STEEL COMPANY	BLYTHEVILLE, AR	58,618
8	TXD058265067	LYONDELL CHEMICAL COMPANY	PASADENA, TX	57,746
9	INR000001099	STEEL DYNAMICS INC	BUTLER, IN	56,666
10	IND000646943	POLLUTION CONTROL INDUSTRIES INC	EAST CHICAGO, IN	49,973
11	KYD053348108	SAFETY-KLEEN SYSTEMS, INC.	SMITHFIELD, KY	49,245
12	IND181157009	NUCOR STEEL	CRAWFORDSVILLE, IN	43,782
13	NJD002454544	MARISOL INCORPORATED	MIDDLESEX, NJ	42,171
14	WID003967148	ONYX ENVIRONMENTAL SERVICES LLC	MENOMONEE FALLS, WI	42,006
15	ARD983278243	NUCOR STEEL - ARKANSAS	BLYTHEVILLE, AR	40,629
16	MID000820381	PHARMACIA & UPJOHN	KALAMAZOO, MI	40,227
17	ALD094476793	ALLWORTH INC.	BIRMINGHAM, AL	39,789
18	MID006013643	PFIZER INC PARKE-DAVIS & CO	HOLLAND, MI	39,369
19	SCD036275626	SOUTHEASTERN CHEMICALS & SOLVENTS CO	SUMTER, SC	38,490
20	SCR000002006	NUCOR STEEL BERKELEY COUNTY	HUGER, SC	37,968
21	NJD980648497	PORT AUTHORITY NEWARK INTL AIRPORT	NEWARK, NJ	36,130
22	OHD093945293	ONYX ENVIRONMENTAL SERVICES	WEST CARROLLTON, OH	34,388
23	PRD090399718	SAFETY-KLEEN ENVIROSYSTEMS	MANATI, PR	34,017
24	OHR000035162	ALLEGHENY LUDLUM CORPORATION-MASSILLON	MASSILLON, OH	33,927
25	ARD069748192	TERIS LLC (DBA ENSCO)	EL DORADO, AR	32,495
26	KYD985115237	GALLATIN STEEL COMPANY	WARSAW, KY	31,819
27	NJD002182897	SAFETY-KLEEN SYSTEMS, INC	LINDEN, NJ	30,547
28	MID060975844	EQ RESOURCE RECOVERY INC	ROMULUS, MI	30,089
29	CAD059494310	SAFETY-KLEEN (SAN JOSE) INC	SAN JOSE, CA	29,935
30	ILD000608471	CLEAN HARBORS SVCS INC	CHICAGO, IL	29,201
31	OHD060409521	WCI STEEL INC	WARREN, OH	29,142
32	ILD980613913	SAFETY KLEEN SYSTEMS INC	DOLTON, IL	29,052
33	CAD008302903	ONYX ENVIRONMETNAL SVCS, LLC	AZUSA, CA	28,961
34	OHD016077802	NORTH STAR STEEL	YOUNGSTOWN, OH	28,364
35	OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	OREGON, OH	26,707
36	NCD980842132	ECOFLO INC	GREENSBORO, NC	26,603
37	TXD077603371	SAFETY KLEEN SYSTEMS INC	DENTON, TX	26,353
38	OHR000002279	NORTH STAR BHP STEEL LLC	DELTA, OH	26,278
39	ILD098642424	ONYX ENV SVCS	SAUGET, IL	25,722
40	OHD048415665	ROSS INCINERATION SERVICES, INC.	GRAFTON, OH	25,716
41	IND000806935	ELI LILLY & CO-LTC	INDIANAPOLIS, IN	25,604
42	UTD981552177	SAFETY-KLEEN (ARAGONITE) INC.	ARAGONITE, UT	25,483
43	OHD004228003	REPUBLIC TECHNOLOGIES INTERNATIONAL	CANTON, OH	24,435
44	AZD980735500	WORLD RESOURCES CO.	TOLLESON, AZ	24,283
45	TXD990709966	DIAMOND SHAMROCK REFINING AND MARKETIN	THREE RIVERS, TX	23,817
46	TXD046844700	CHEMICAL RECLAMATION SERVICES INC	AVALON, TX	23,678
47	WID000808568	WASTE MANAGEMENT OF WI, OMEGA HILLS LAN	GERMANTOWN, WI	23,414
48	OHD980613541	VON ROLL AMERICA INC	EAST LIVERPOOL, OH	23,237
49	NJD002200046	CYCLECHEM, INC.	ELIZABETH, NJ	22,772
50	TXD981053770	DURATHERM INC	SAN LEON, TX	22,125
Total				2,183,863

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 3.5 Quantity of RCRA Hazardous Waste Received and Number of Receivers, by State, 2001

State	Hazardous Waste Quantity			Number of Receivers			Reported Status	
	Rank	Tons Received	Percentage	Rank	Number	Percentage	TSDf	Non-TSDf
ALABAMA	17	149,758	1.9	23	9	1.5	7	2
ALASKA	49	6	0.0	43	2	0.3	2	0
ARIZONA	28	50,586	0.6	19	12	2.0	5	7
ARKANSAS	12	262,283	3.2	27	8	1.3	5	3
CALIFORNIA	10	269,349	3.3	1	63	10.6	54	9
COLORADO	37	14,480	0.2	21	10	1.7	8	2
CONNECTICUT	27	52,082	0.6	29	7	1.2	7	0
DELAWARE	40	3,264	0.0	46	1	0.2	1	0
DISTRICT OF COLUMBIA	50	0	0.0	50	0	0.0	0	0
FLORIDA	36	14,907	0.2	7	18	3.0	9	9
GEORGIA	35	19,404	0.2	20	11	1.8	11	0
GUAM	48	94	0.0	46	1	0.2	1	0
HAWAII	47	125	0.0	46	1	0.2	1	0
IDAHO	20	90,386	1.1	43	2	0.3	2	0
ILLINOIS	9	354,306	4.4	5	22	3.7	18	4
INDIANA	7	501,258	6.2	7	18	3.0	16	2
IOWA	43	1,004	0.0	34	5	0.8	3	2
KANSAS	16	169,598	2.1	29	7	1.2	7	0
KENTUCKY	19	96,454	1.2	23	9	1.5	7	2
LOUISIANA	13	258,343	3.2	13	16	2.7	13	3
MAINE	42	1,351	0.0	39	3	0.5	3	0
MARYLAND	26	53,580	0.7	39	3	0.5	1	2
MASSACHUSETTS	33	26,859	0.3	23	9	1.5	4	5
MICHIGAN	5	568,525	7.0	11	17	2.9	17	0
MINNESOTA	15	182,265	2.3	16	14	2.4	14	0
MISSISSIPPI	24	68,067	0.8	39	3	0.5	2	1
MISSOURI	14	239,429	3.0	7	18	3.0	17	1
MONTANA	50	0	0.0	50	0	0.0	0	0
NAVAJO NATION	50	0	0.0	50	0	0.0	0	0
NEBRASKA	4	580,053	7.2	32	6	1.0	5	1
NEVADA	25	54,678	0.7	34	5	0.8	3	2
NEW HAMPSHIRE	50	0	0.0	50	0	0.0	0	0
NEW JERSEY	6	540,127	6.7	13	16	2.7	10	6
NEW MEXICO	41	1,527	0.0	32	6	1.0	3	3
NEW YORK	3	585,325	7.2	4	28	4.7	21	7
NORTH CAROLINA	34	24,575	0.3	11	17	2.9	13	4
NORTH DAKOTA	44	516	0.0	36	4	0.7	3	1
OHIO	1	885,567	10.9	5	22	3.7	19	3
OKLAHOMA	23	72,638	0.9	21	10	1.7	7	3
OREGON	31	40,819	0.5	39	3	0.5	3	0
PENNSYLVANIA	8	417,385	5.2	3	33	5.5	27	6
PUERTO RICO	29	44,397	0.5	36	4	0.7	3	1
RHODE ISLAND	39	6,849	0.1	43	2	0.3	2	0
SOUTH CAROLINA	11	268,795	3.3	27	8	1.3	8	0
SOUTH DAKOTA	46	229	0.0	46	1	0.2	1	0
TENNESSEE	32	40,585	0.5	17	13	2.2	12	1
TEXAS	2	761,966	9.4	2	62	10.4	62	0
TRUST TERRITORIES	50	0	0.0	50	0	0.0	0	0
UTAH	21	83,285	1.0	23	9	1.5	8	1
VERMONT	45	299	0.0	36	4	0.7	4	0
VIRGIN ISLANDS	50	0	0.0	50	0	0.0	0	0
VIRGINIA	22	75,715	0.9	17	13	2.2	6	7
WASHINGTON	30	41,047	0.5	15	15	2.5	12	3
WEST VIRGINIA	38	8,413	0.1	29	7	1.2	6	1
WISCONSIN	18	112,168	1.4	7	18	3.0	15	3
WYOMING	50	0	0.0	50	0	0.0	0	0
Total		8,094,720	100.0		595	100.0	488	107

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 3.6 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Received and Number of Receivers, 2001

State	Hazardous Waste Quantity			Number of Receivers			Reported Status	
	Rank	Tons Received	Percentage	Rank	Number	Percentage	TSDf	Non-TSDf
OHIO	1	885,567	10.9	5	22	3.7	19	3
TEXAS	2	761,966	9.4	2	62	10.4	62	0
NEW YORK	3	585,325	7.2	4	28	4.7	21	7
NEBRASKA	4	580,053	7.2	32	6	1.0	5	1
MICHIGAN	5	568,525	7.0	11	17	2.9	17	0
NEW JERSEY	6	540,127	6.7	13	16	2.7	10	6
INDIANA	7	501,258	6.2	7	18	3.0	16	2
PENNSYLVANIA	8	417,385	5.2	3	33	5.5	27	6
ILLINOIS	9	354,306	4.4	5	22	3.7	18	4
CALIFORNIA	10	269,349	3.3	1	63	10.6	54	9
SOUTH CAROLINA	11	268,795	3.3	27	8	1.3	8	0
ARKANSAS	12	262,283	3.2	27	8	1.3	5	3
LOUISIANA	13	258,343	3.2	13	16	2.7	13	3
MISSOURI	14	239,429	3.0	7	18	3.0	17	1
MINNESOTA	15	182,265	2.3	16	14	2.4	14	0
KANSAS	16	169,598	2.1	29	7	1.2	7	0
ALABAMA	17	149,758	1.9	23	9	1.5	7	2
WISCONSIN	18	112,168	1.4	7	18	3.0	15	3
KENTUCKY	19	96,454	1.2	23	9	1.5	7	2
IDAHO	20	90,386	1.1	43	2	0.3	2	0
UTAH	21	83,285	1.0	23	9	1.5	8	1
VIRGINIA	22	75,715	0.9	17	13	2.2	6	7
OKLAHOMA	23	72,638	0.9	21	10	1.7	7	3
MISSISSIPPI	24	68,067	0.8	39	3	0.5	2	1
NEVADA	25	54,678	0.7	34	5	0.8	3	2
MARYLAND	26	53,580	0.7	39	3	0.5	1	2
CONNECTICUT	27	52,082	0.6	29	7	1.2	7	0
ARIZONA	28	50,586	0.6	19	12	2.0	5	7
PUERTO RICO	29	44,397	0.5	36	4	0.7	3	1
WASHINGTON	30	41,047	0.5	15	15	2.5	12	3
OREGON	31	40,819	0.5	39	3	0.5	3	0
TENNESSEE	32	40,585	0.5	17	13	2.2	12	1
MASSACHUSETTS	33	26,859	0.3	23	9	1.5	4	5
NORTH CAROLINA	34	24,575	0.3	11	17	2.9	13	4
GEORGIA	35	19,404	0.2	20	11	1.8	11	0
FLORIDA	36	14,907	0.2	7	18	3.0	9	9
COLORADO	37	14,480	0.2	21	10	1.7	8	2
WEST VIRGINIA	38	8,413	0.1	29	7	1.2	6	1
RHODE ISLAND	39	6,849	0.1	43	2	0.3	2	0
DELAWARE	40	3,264	0.0	46	1	0.2	1	0
NEW MEXICO	41	1,527	0.0	32	6	1.0	3	3
MAINE	42	1,351	0.0	39	3	0.5	3	0
IOWA	43	1,004	0.0	34	5	0.8	3	2
NORTH DAKOTA	44	516	0.0	36	4	0.7	3	1
VERMONT	45	299	0.0	36	4	0.7	4	0
SOUTH DAKOTA	46	229	0.0	46	1	0.2	1	0
HAWAII	47	125	0.0	46	1	0.2	1	0
GUAM	48	94	0.0	46	1	0.2	1	0
ALASKA	49	6	0.0	43	2	0.3	2	0
DISTRICT OF COLUMBIA	50	0	0.0	50	0	0.0	0	0
MONTANA	50	0	0.0	50	0	0.0	0	0
NAVAJO NATION	50	0	0.0	50	0	0.0	0	0
NEW HAMPSHIRE	50	0	0.0	50	0	0.0	0	0
TRUST TERRITORIES	50	0	0.0	50	0	0.0	0	0
VIRGIN ISLANDS	50	0	0.0	50	0	0.0	0	0
WYOMING	50	0	0.0	50	0	0.0	0	0
Total		8,094,720	100.0		595	100.0	488	107

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 3.7 Rank Ordering of States Based on Number of Receiving Facilities and Quantity of RCRA Hazardous Waste Received, 2001

State	Number of Receivers			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Received	Percentage	TSDf	Non-TSDf
CALIFORNIA	1	63	10.6	10	269,349	3.3	54	9
TEXAS	2	62	10.4	2	761,966	9.4	62	0
PENNSYLVANIA	3	33	5.5	8	417,385	5.2	27	6
NEW YORK	4	28	4.7	3	585,325	7.2	21	7
ILLINOIS	5	22	3.7	9	354,306	4.4	18	4
OHIO	5	22	3.7	1	885,567	10.9	19	3
FLORIDA	7	18	3.0	36	14,907	0.2	9	9
INDIANA	7	18	3.0	7	501,258	6.2	16	2
MISSOURI	7	18	3.0	14	239,429	3.0	17	1
WISCONSIN	7	18	3.0	18	112,168	1.4	15	3
MICHIGAN	11	17	2.9	5	568,525	7.0	17	0
NORTH CAROLINA	11	17	2.9	34	24,575	0.3	13	4
LOUISIANA	13	16	2.7	13	258,343	3.2	13	3
NEW JERSEY	13	16	2.7	6	540,127	6.7	10	6
WASHINGTON	15	15	2.5	30	41,047	0.5	12	3
MINNESOTA	16	14	2.4	15	182,265	2.3	14	0
TENNESSEE	17	13	2.2	32	40,585	0.5	12	1
VIRGINIA	17	13	2.2	22	75,715	0.9	6	7
ARIZONA	19	12	2.0	28	50,586	0.6	5	7
GEORGIA	20	11	1.8	35	19,404	0.2	11	0
COLORADO	21	10	1.7	37	14,480	0.2	8	2
OKLAHOMA	21	10	1.7	23	72,638	0.9	7	3
ALABAMA	23	9	1.5	17	149,758	1.9	7	2
KENTUCKY	23	9	1.5	19	96,454	1.2	7	2
MASSACHUSETTS	23	9	1.5	33	26,859	0.3	4	5
UTAH	23	9	1.5	21	83,285	1.0	8	1
ARKANSAS	27	8	1.3	12	262,283	3.2	5	3
SOUTH CAROLINA	27	8	1.3	11	268,795	3.3	8	0
CONNECTICUT	29	7	1.2	27	52,082	0.6	7	0
KANSAS	29	7	1.2	16	169,598	2.1	7	0
WEST VIRGINIA	29	7	1.2	38	8,413	0.1	6	1
NEBRASKA	32	6	1.0	4	580,053	7.2	5	1
NEW MEXICO	32	6	1.0	41	1,527	0.0	3	3
IOWA	34	5	0.8	43	1,004	0.0	3	2
NEVADA	34	5	0.8	25	54,678	0.7	3	2
NORTH DAKOTA	36	4	0.7	44	516	0.0	3	1
PUERTO RICO	36	4	0.7	29	44,397	0.5	3	1
VERMONT	36	4	0.7	45	299	0.0	4	0
MAINE	39	3	0.5	42	1,351	0.0	3	0
MARYLAND	39	3	0.5	26	53,580	0.7	1	2
MISSISSIPPI	39	3	0.5	24	68,067	0.8	2	1
OREGON	39	3	0.5	31	40,819	0.5	3	0
ALASKA	43	2	0.3	49	6	0.0	2	0
IDAHO	43	2	0.3	20	90,386	1.1	2	0
RHODE ISLAND	43	2	0.3	39	6,849	0.1	2	0
DELAWARE	46	1	0.2	40	3,264	0.0	1	0
GUAM	46	1	0.2	48	94	0.0	1	0
HAWAII	46	1	0.2	47	125	0.0	1	0
SOUTH DAKOTA	46	1	0.2	46	229	0.0	1	0
DISTRICT OF COLUMBIA	50	0	0.0	50	0	0.0	0	0
MONTANA	50	0	0.0	50	0	0.0	0	0
NAVAJO NATION	50	0	0.0	50	0	0.0	0	0
NEW HAMPSHIRE	50	0	0.0	50	0	0.0	0	0
TRUST TERRITORIES	50	0	0.0	50	0	0.0	0	0
VIRGIN ISLANDS	50	0	0.0	50	0	0.0	0	0
WYOMING	50	0	0.0	50	0	0.0	0	0
Total		595	100.0		8,094,720	100.0	488	107

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

National Biennial RCRA Hazardous Waste Report: Based on 2001 Data

Exhibit 3.8 Fifty Largest RCRA Hazardous Waste Receivers in the U.S., 2001

Rank	EPA ID	Name	City	Tons Received
1	NED000610550	TETRA MICRONUTRIENTS INC	FAIRBURY, NE	455,426
2	NJD991291105	CLEAN EARTH OF NORTH JERSEY	SOUTH KEARNY, NJ	294,794
3	NYD980592497	EASTMAN KODAK	ROCHESTER, NY	244,590
4	MID000724831	MICHIGAN DISPOSAL WASTE TREATMENT PLANT	BELLEVILLE, MI	222,757
5	OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	OREGON, OH	217,232
6	PAD002395887	HORSEHEAD RESOURCE DEVELOPMENT	PALMERTON, PA	161,164
7	NYD030485288	REVERE SMELTING & REFINING CORPORATION	MIDDLETOWN, NY	157,390
8	KSD007482029	VULCAN MATERIALS CO	WICHITA, KS	146,739
9	TXD000719518	TM DEER PARK SERVICES LLC	DEER PARK, TX	135,610
10	NYD049836679	CWM CHEMICAL SERVICES, L.L.C.	MODEL CITY, NY	132,474
11	MND006148092	GOPHER RESOURCE CORPORATION	EAGAN, MN	131,479
12	SCD003351699	GIANT CEMENT COMPANY	HARLEYVILLE, SC	128,305
13	IND093219012	HERITAGE ENVIRONMENTAL SERVICES LLC	INDIANAPOLIS, IN	128,067
14	NED981723513	CLEAN HARBORS ENVIRONMENTAL SERVICES IN	KIMBALL, NE	123,305
15	LAD000777201	CHEMICAL WASTE MANAGEMENT	SULPHUR, LA	121,391
16	IND980503890	HERITAGE ENVIRONMENTAL SERVICES LLC	ROACHDALE, IN	113,606
17	OHD987048733	LAFARGE NORTH AMERICA	PAULDING, OH	107,356
18	OHD020273819	VICKERY ENVIRONMENTAL INC	VICKERY, OH	105,448
19	OHD005048947	SYSTECH ENVIRONMENTAL CORPORATION	PAULDING, OH	101,275
20	NJD002385730	DUPONT CHAMBERS WORKS	DEEPWATER, NJ	95,541
21	MOD054018288	CONTINENTAL CEMENT CO LLC	HANNIBAL, MO	93,781
22	MID096963194	PERMA FIX OF MICHIGAN INC	BROWNSTOWN TWP, MI	91,449
23	IND005081542	ESSROC CEMENT CORP	LOGANSPOUT, IN	90,281
24	IDD073114654	US ECOLOGY IDAHO INC SITE B	GRAND VIEW, ID	90,207
25	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW, TX	89,252
26	MID980615298	PETRO CHEM PROCESSING GRP OF NORTRU	DETROIT, MI	89,163
27	ALD000622464	CHEMICAL WASTE MANAGEMENT	EMELLE, AL	88,623
28	SCD003368891	HOLCIM US INC ENERGIS LLC	HOLLY HILL, SC	86,975
29	TXD055141378	SAFETY KLEEN SYSTEMS INC	DEER PARK, TX	82,679
30	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA, IL	82,339
31	MOD029729688	HOLCIM (US) INC/SAFETY-KLEEN SYSTEMS INC	CLARKSVILLE, MO	79,169
32	ARD981512270	ASH GROVE CEMENT COMPANY	FOREMAN, AR	75,610
33	ARD981057870	RINECO CHEMICAL INDUSTRIES, INC	BENTON, AR	75,048
34	PAD002389559	KEYSTONE CEMENT CO	BATH, PA	71,880
35	WID003967148	ONYX ENVIRONMENTAL SERVICES LLC	MENOMONEE FALLS, WI	71,709
36	MSD077655876	HOLCIM (US) INC.	ARTESIA, MS	66,092
37	OHD980568992	ENVIRITE OF OHIO, INC.	CANTON, OH	65,925
38	TXD007349327	TXI OPERATIONS LP	MIDLOTHIAN, TX	62,009
39	ARD006354161	REYNOLDS METALS COMPANY	ARKADELPHIA, AR	60,382
40	ILD000666206	ENVIRITE OF ILLINOIS INC	HARVEY, IL	56,509
41	LAD000778514	SAFETY-KLEEN (PLAQUEMINE), INC.	PLAQUEMINE, LA	54,217
42	MID980991566	US LIQUIDS OF DETROIT INC	DETROIT, MI	54,063
43	TXD077603371	SAFETY KLEEN SYSTEMS INC	DENTON, TX	53,219
44	ILD098642424	ONYX ENV SVCS	SAUGET, IL	52,534
45	MDD980555189	CLEAN HARBORS OF BALTIMORE, INC	BALTIMORE, MD	52,039
46	MOD981127319	LONE STAR INDUSTRIES INC	CAPE GIRARDEAU, MO	51,276
47	ILD980613913	SAFETY KLEEN SYSTEMS INC	DOLTON, IL	49,385
48	ARD069748192	TERIS LLC (DBA ENSCO)	EL DORADO, AR	49,253
49	OKD065438376	SAFETY-KLEEN LONE MOUNTAIN (WAYNOKA)	WAYNOKA, OK	48,671
50	IND006419212	LONE STAR - GREENCASTLE WDF	GREENCASTLE, IN	48,461
Total				5,406,148

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 4.1 RCRA Hazardous Waste Interstate Shipments and Receipts, by State, 2001

STATE	Interstate Shipments (Tons)	Interstate Receipts (Tons)
ALABAMA	251,866	116,344
ALASKA	3,979	0
ARIZONA	26,501	26,303
ARKANSAS	237,892	194,250
CALIFORNIA	442,670	24,680
COLORADO	22,355	3,969
CONNECTICUT	64,073	18,716
DELAWARE	16,729	3,109
DISTRICT OF COLUMBIA	2,111	0
FLORIDA	54,992	4,040
GEORGIA	106,512	12,663
GUAM	331	0
HAWAII	656	0
IDAHO	2,990	88,159
ILLINOIS	226,966	213,804
INDIANA	220,788	244,748
IOWA	44,625	215
KANSAS	42,643	19,846
KENTUCKY	159,565	43,359
LOUISIANA	96,818	168,484
MAINE	5,171	568
MARYLAND	10,499	49,885
MASSACHUSETTS	32,524	13,282
MICHIGAN	200,099	394,064
MINNESOTA	45,415	117,638
MISSISSIPPI	35,905	67,090
MISSOURI	45,525	206,431
MONTANA	6,437	0
NAVAJO NATION	186	0
NEBRASKA	25,774	123,018
NEVADA	4,433	49,862
NEW HAMPSHIRE	12,273	0
NEW JERSEY	220,698	189,772
NEW MEXICO	7,029	824
NEW YORK	118,471	113,706
NORTH CAROLINA	79,607	14,611
NORTH DAKOTA	3,221	220
OHIO	297,922	508,836
OKLAHOMA	25,303	60,801
OREGON	40,430	33,822
PENNSYLVANIA	193,473	250,273
PUERTO RICO	69,973	81
RHODE ISLAND	8,275	4,700
SOUTH CAROLINA	101,542	206,221
SOUTH DAKOTA	1,254	86
TENNESSEE	35,588	29,993
TEXAS	200,953	220,000
TRUST TERRITORIES	418	0
UTAH	36,515	35,677
VERMONT	4,334	122
VIRGIN ISLANDS	1,990	0
VIRGINIA	44,299	28,188
WASHINGTON	54,770	12,817
WEST VIRGINIA	42,451	7,474
WISCONSIN	106,914	84,999
WYOMING	1,836	0
TOTAL	4,146,571	4,007,751

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2001 National Biennial will make cursory comparisons of the 2001 National Biennial Report to National Biennial Reports prior to 2001 misleading. Refer to the introduction for a complete explanation.

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APPENDIX A

EPA REGION - STATE MAPPING

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EPA REGION - STATE MAPPING

EPA REGION	STATES IN REGION
REGION 1	Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont
REGION 2	New Jersey New York Puerto Rico Virgin Islands
REGION 3	Delaware District of Columbia Maryland Pennsylvania Virginia West Virginia
REGION 4	Alabama Florida Georgia Kentucky Mississippi North Carolina South Carolina Tennessee
REGION 5	Illinois Indiana Michigan Minnesota Ohio Wisconsin
REGION 6	Arkansas Louisiana New Mexico Oklahoma Texas
REGION 7	Iowa Kansas Missouri Nebraska
REGION 8	Colorado Montana North Dakota South Dakota Utah Wyoming
REGION 9	Arizona California Guam Hawaii Navajo Nation Nevada Trust Territories
REGION 10	Alaska Idaho Oregon Washington

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APPENDIX B

2001 EPA HAZARDOUS WASTE REPORT MANAGEMENT METHOD CODES

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EPA MANAGEMENT METHOD CODES

Code	Management Method	Code	Management Method
<u>RECLAMATION AND RECOVERY</u>		<u>DESTRUCTION OR TREATMENT PRIOR TO DISPOSAL AT ANOTHER SITE (cont'd)</u>	
H010	Metals recovery including retorting, smelting, chemical, etc.	H103	Absorption
H020	Solvents recovery	H111	Stabilization or chemical fixation prior to disposal at another site
H039	Other recovery or reclamation for reuse including acid regeneration, organics recovery, etc. (specify in comments)	H112	Macro-encapsulation prior to disposal at another site
H050	Energy recovery at this site - use as fuel (includes on-site fuel blending)	H121	Neutralization only
H061	Fuel blending prior to energy recovery at another site	H122	Evaporation
<u>DESTRUCTION OR TREATMENT PRIOR TO DISPOSAL AT ANOTHER SITE</u>		H123	Settling or clarification
H040	Incineration - thermal destruction other than use as a fuel	H124	Phase separation
H071	Chemical reduction with or without precipitation	H129	Other treatment (specify in comments)
H073	Cyanide destruction with or without precipitation	<u>DISPOSAL</u>	
H075	Chemical oxidation	H131	Land treatment or application (to include on-site treatment and/or stabilization)
H076	Wet air oxidation	H132	Landfill or surface impoundment that will be closed as landfill (to include on-site treatment and/or stabilization)
H077	Other chemical precipitation with or without pre-treatment	H134	Deepwell or underground injection (with or without treatment)
H081	Biological treatment with or without precipitation	H135	Discharge to sewer/POTW or NPDES (with prior storage - with or without treatment)
H082	Adsorption	<u>STORAGE AND TRANSFER</u>	
H083	Air or steam stripping	H141	Storage, bulking, and/or transfer off site - no treatment/recovery (H010-H129), fuel blending (H061), or disposal (H131-H135) at this site
H101	Sludge treatment and/or dewatering		

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APPENDIX C

2001 HAZARDOUS WASTE REPORT FORM CODES

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EPA FORM CODES

Code	Form Description	Code	Form Description
<u>MIXED MEDIA/DEBRIS/DEVICES</u>		<u>ORGANIC LIQUIDS</u>	
<i>Waste that is a mixture of organic and inorganic wastes, liquid and solid wastes, or devices that are not easily categorizable</i>		<i>Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content</i>	
W001	Lab packs with no acute hazardous waste	W200	Still bottoms in liquid form
W002	Contaminated debris: paper, clothing, rags, wood, empty fiber or plastic containers, glass, piping, other solids	W202	Concentrated halogenated (e.g., chlorinated) solvent
W004	Lab packs containing acute hazardous waste	W203	Concentrated non-halogenated (e.g., non-chlorinated) solvent
W301	Contaminated soil	W204	Concentrated halogenated/ non-halogenated solvent mixture
W309	Batteries, battery parts, cores, casings	W205	Oil-water emulsion or mixture
W310	Filters, solid adsorbents, ion exchange resins and spent carbon	W206	Waste oil
W320	Electrical devices (lamps, thermostats, CRTs, etc.)	W209	Paint, ink, lacquer, or varnish
W512	Sediment or lagoon dragout, drilling or other muds	W210	Reactive or polymerizable organic liquids and adhesives
W801	Compressed gases	W211	Paint thinner or petroleum distillates
		W219	Other organic liquid (specify in comments)
<u>INORGANIC LIQUIDS</u>		<u>INORGANIC SOLIDS</u>	
<i>Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content</i>		<i>Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable</i>	
W101	Very dilute aqueous waste containing more than 99% water	W303	Ash
W103	Spent concentrated acid	W304	Slags, drosses, and other solid thermal residues
W105	Acidic aqueous wastes less than 5% acid	W307	Metal scale, filings and scrap (including metal drums)
W107	Aqueous waste containing cyanides	W312	Cyanide or metal cyanide bearing solids, salts or chemicals
W110	Caustic aqueous waste without cyanides	W316	Metal salts or chemicals not containing cyanides
W113	Other aqueous waste or wastewaters	W319	Other inorganic solids (specify in comments)
W117	Waste liquid mercury		
W119	Other inorganic liquid (specify in comments)		

EPA FORM CODES

Code	Form Description	Code	Form Description
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ORGANIC SOLIDS

Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable

- W401** Pesticide solids
- W403** Solid resins, plastics or polymerized organics
- W405** Explosives or reactive organic solids
- W409** Other organic solids (specify in comments)

ORGANIC SLUDGES

Waste that is primarily organic with low-to-moderate inorganic solids content and water content; pumpable

- W603** Oily sludge
- W604** Paint or ink sludges, still bottoms in sludge form
- W606** Resins, tars, polymer or tarry sludge
- W609** Other organic sludge (specify in comments)

INORGANIC SLUDGES

Waste that is primarily inorganic, with moderate-to-high water content and low organic content; mostly pumpable

- W501** Lime and/or metal hydroxide sludges and solids with no cyanides
- W503** Gypsum sludges from wastewater treatment or air pollution control
- W504** Other sludges from wastewater treatment or air pollution control
- W505** Metal bearing sludges (including plating sludge) not containing cyanides
- W506** Cyanide-bearing sludges
- W519** Other inorganic sludges (specify in comments)

APPENDIX D

EPA HAZARDOUS WASTE CODES

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EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
CHARACTERISTICS OF HAZARDOUS WASTE (<i>SEE 40 CFR 261.24</i>)		D022	Chloroform
D001	Ignitable waste	D023	o-Cresol
D002	Corrosive waste	D024	m-Cresol
D003	Reactive waste	D025	p-Cresol
D004	Arsenic	D026	Cresol
D005	Barium	D027	1,4-Dichlorobenzene
D006	Cadmium	D028	1,2-Dichloroethane
D007	Chromium	D029	1,1-Dichloroethylene
D008	Lead	D030	2,4-Dinitrotoluene
D009	Mercury	D031	Heptachlor (and its epoxide)
D010	Selenium	D032	Hexachlorobenzene
D011	Silver	D033	Hexachlorobutadiene
D012	Endrin	D034	Hexachloroethane
D013	Lindane	D035	Methyl ethyl ketone
D014	Methoxychlor	D036	Nitrobenzene
D015	Toxaphene	D037	Pentachlorophenol
D016	2,4-D	D038	Pyridine
D017	2,4,5-TP Silvex	D039	Tetrachloroethylene
D018	Benzene	D040	Trichlorethylene
D019	Carbon tetrachloride	D041	2,4,5-Trichlorophenol
D020	Chlordane	D042	2,4,6-Trichlorophenol
D021	Chlorobenzene	D043	Vinyl chloride

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
HAZARDOUS WASTE FROM NONSPECIFIC SOURCES (SEE 40 CFR 261.31)			
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	F004	The following spent nonhalogenated solvents: cresols, cresylic acid, and nitrobenzene; and the still bottoms from the recovery of these solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002	The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	F005	The following spent nonhalogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F003	The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent nonhalogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above nonhalogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
		F007	Spent cyanide plating bath solutions from electroplating operations.
		F008	Plating bath residues from the bottom of plating baths from electroplating operations in which cyanides are used in the process.
		F009	Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.
		F010	Quenching bath residues from oil baths from metal heat treating operations in which cyanides are used in the process.
		F011	Spent cyanide solutions from slat bath pot cleaning from metal heat treating operations.

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
F012	Quenching wastewater treatment sludges from metal heat treating operations in which cyanides are used in the process.	F024	Process wastes including, but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludge, spent catalysts, and wastes listed in Sections 261.31. or 261.32.)
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.	F025	Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one, to and including five, with varying amounts and positions of chlorine substitution.
F020	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of hexachlorophene from highly purified 2,4,5-trichlorophenol.)	F026	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.
F021	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce derivatives.	F027	Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)
F022	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.	F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA hazardous waste nos. F020, F021, F022, F023, F026, and F027.
F023	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)	F032	Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use, or have previously used, chlorophenolic formulations [except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with Section 261.35 (i.e., the newly promulgated equipment

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
	cleaning or replacement standards), and where the generator does not resume or initiate use of chlorophenolic formulations]. (This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.)		from processing or recycling oil-bearing hazardous secondary materials excluded under §261.4(a)(12)(i), if those residuals are to be disposed of.
F034	Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	F038	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge - Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated in aggressive biological treatment units as defined in Section 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units), and F037, K048, and K051 wastes are exempted from this listing.
F035	Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	F039	Leachate resulting from the treatment, storage, or disposal of wastes classified by more than one waste code under Subpart D, or from a mixture of wastes classified under Subparts C and D of this part. (Leachate resulting from the management of one or more of the following EPA Hazardous Wastes and no other hazardous wastes retains its hazardous waste code(s): F020, F021, F022, F023, F026, F027, and/or F028.)
F037	Petroleum refinery primary oil/water/solids separation sludge - Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow, sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated		
		HAZARDOUS WASTE FROM SPECIFIC SOURCES (SEE 40 CFR 261.32)	
		K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.
		K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.
		K003	Wastewater treatment sludge from the production of molybdate orange pigments.
		K004	Wastewater treatment sludge from the production of zinc yellow pigments.

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
K005	Wastewater treatment sludge from the production of chrome green pigments.	K022	Distillation bottom tars from the production of phenol/acetone from cumene.
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).	K023	Distillation light ends from the production of phthalic anhydride from naphthalene.
K007	Wastewater treatment sludge from the production of iron blue pigments.	K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.
K008	Oven residue from the production of chrome oxide green pigments.	K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
K009	Distillation bottoms from the production of acetaldehyde from ethylene.	K026	Stripping still tails from the production of methyl ethyl pyridines.
K010	Distillation side cuts from the production of acetaldehyde from ethylene.	K027	Centrifuge and distillation residues from toluene diisocyanate production.
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.	K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile.	K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane.
K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.	K030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.
K015	Still bottoms from the distillation of benzyl chloride.	K031	By-product salts generated in the production of MSMA and cacodylic acid.
K016	Heavy ends or distillation residues from the production of carbon tetrachloride.	K032	Wastewater treatment sludge from the production of chlordane.
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.	K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.
K018	Heavy ends from the fractionation column in ethyl chloride production.	K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	K035	Wastewater treatment sludges generated in the production of creosote.
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.	K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.
K021	Aqueous spent antimony catalyst waste from fluoromethane production.	K037	Wastewater treatment sludges from the production of disulfoton.

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
K038	Wastewater from the washing and stripping of phorate production.	K061	Emission control dust/sludge from the primary production of steel in electric furnaces.
K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.	K062	Spent pickle liquor from steel finishing operations of plants that produce iron or steel.
K040	Wastewater treatment sludge from the production of phorate.	K064	Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.
K041	Wastewater treatment sludge from the production of toxaphene.	K065	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	K066	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.
K043	2,6-dichlorophenol waste from the production of 2,4-D.	K069	Emission control dust/sludge from secondary lead smelting.
K044	Wastewater treatment sludges from the manufacturing and processing of explosives.	K071	Brine purification muds from the mercury cell process in chlorine production, in which separately prepurified brine is not used.
K045	Spent carbon from the treatment of wastewater containing explosives.	K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.
K046	Wastewater treatment sludges from the manufacturing, formulation, and loading of lead-based initiating compounds.	K083	Distillation bottoms from aniline production.
K047	Pink/red water from TNT operations.	K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.	K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.
K049	Slop oil emulsion solids from the petroleum refining industry.	K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.	K087	Decanter tank tar sludge from coking operations.
K051	API separator sludge from the petroleum refining industry.	K088	Spent potliners from primary aluminum reduction.
K052	Tank bottoms (leaded) from the petroleum refining industry.	K090	Emission control dust or sludge from ferrochromiumsilicon production.
K060	Ammonia still lime sludge from coking operations.		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
K091	Emission control dust or sludge from ferrochromium production.	K106	Wastewater treatment sludge from the mercury cell process in chlorine production.
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.	K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.
K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.	K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K095	Distillation bottoms from the production of 1,1,1-trichloroethane.	K109	Spent filter cartridges from product purification from the product of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.	K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.	K111	Product washwaters from the production of dinitrotoluene via nitration of toluene.
K098	Untreated process wastewater from the production of toxaphene.	K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
K099	Untreated wastewater from the production of 2,4-D.	K113	Condensed liquid light ends from purification of toluenediamine in production of toluenediamine via hydrogenation of dinitrotoluene.
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	K114	Vicinals from the purification of toluenediamine in production of toluenediamine via hydrogenation of dinitrotoluene.
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	K115	Heavy ends from purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	K116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.
K103	Process residues from aniline extraction from the production of aniline.	K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.
K104	Combined wastewaters generated from nitrobenzene/aniline production.	K118	Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
K123	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salts.	K144	Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.
K124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.
K125	Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.	K147	Tar storage residues from coal tar refining.
K126	Baghouse dust and floor sweepings in milling and packaging operations from production or formulation of ethylenebisdithiocarbamic acid and its salts.	K148	Residues from coal tar distillation, including, but not limited to, still bottoms.
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.	K149	Distillation bottoms from the production of alpha (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. [This waste does not include still bottoms from the distillation of benzoyl chloride]
K132	Spent absorbent and wastewater separator solids from the production of methyl bromide.	K150	Organic residuals excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha (or methyl-) chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	K151	Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha (or methyl-) chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
K140	Floor sweepings, off-specification product, and spent filter media from the production of 2,4,6-tribromophenol.	K156	Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2propynl n-butylcarbamate.).
K141	Process residues from the recovery of coal tar, including, but not limited to, tar collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank sludge from coking operations).	K157	Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2propynl n-butylcarbamate.).
K142	Tank storage residues from the production of coke from coal or from the recovery of coke by-products from coal.		
K143	Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
K158	Bag house and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)		provided a written commitment to dispose of the waste in an off-site landfill. Respondents in any action brought to enforce the requirements of subtitle C must, upon a showing by the government that the respondent managed wastewater treatment sludges from the production of vinyl chloride monomer or ethylene dichloride, demonstrate that they meet the terms of the exclusion set forth above. In doing so, they must provide appropriate documentation (e.g., contracts between the generator and the landfill owner/operator, invoices documenting delivery of waste to landfill, etc.) that the terms of the exclusion were met.*
K159	Organics from the treatment of thiocarbamate wastes.		
K161	Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126).	K175	Wastewater treatment sludges from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process.*
K169	Crude oil tank sediment from petroleum refining operations.		
K170	Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.		DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUALS, AND SPILL RESIDUES THEREOF – ACUTE HAZARDOUS WASTE (SEE 40 CFR 261.33 FOR AN ALPHABETIZED LISTING)
K171	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (This listing does not include inert support media).	P001	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%
K172	Spent hydrorefining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (This listing does not include inert support media).	P001	Warfarin, & salts, when present at concentrations greater than 0.3%
		P002	1-Acetyl-2-thiourea
		P002	Acetamide, N-(aminothioxomethyl)-
K174	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer (including sludges that result from commingled ethylene dichloride or vinyl chloride monomer wastewater and other wastewater), unless the sludges meet the following conditions: (i) they are disposed of in a subtitle C or non-hazardous landfill licensed or permitted by the state or federal government; (ii) they are not otherwise placed on the land prior to final disposal; and (iii) the generator maintains documentation demonstrating that the waste was either disposed of in an on-site landfill or consigned to a transporter or disposal facility that	P003	2-Propenal
		P003	Acrolein
		P004	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-
		P004	Aldrin
		P005	2-Propen-1-ol
		P005	Allyl alcohol
		P006	Aluminum phosphide (R,T)

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
P007	3(2H)-Isoxazolone, 5-(aminomethyl)-	P022	Carbon disulfide
P007	5-(Aminomethyl)-3-isoxazolol	P023	Acetaldehyde, chloro-
P008	4-Aminopyridine	P023	Chloroacetaldehyde
P008	4-Pyridinamine	P024	Benzenamine, 4-chloro-
P009	Ammonium picrate (R)	P024	p-Chloraniline
P009	Phenol, 2,4,6-trinitro-, ammonium salt (R)	P026	1-(o-Chlorophenyl)thiourea
P010	Arsenic acid H3AsO4	P026	Thiourea, (2-chlorophenyl)-
P011	Arsenic oxide As2O5	P027	3-Chloropropionitrile
P011	Arsenic pentoxide	P027	Propanenitrile, 3-chloro-
P012	Arsenic oxide As2O3	P028	Benzene, (chloromethyl)-
P012	Arsenic trioxide	P028	Benzyl chloride
P013	Barium cyanide	P029	Copper cyanide
P014	Benzenethiol	P029	Copper cyanide Cu(CN)
P014	Thiophenol	P030	Cyanides (soluble cyanide salts), not otherwise specified
P015	Beryllium powder	P031	Cyanogen
P016	Dichloromethyl ether	P031	Ethanedinitrile
P016	Methane, oxybis[chloro-	P033	Cyanogen chloride
P017	2-Propanone, 1-bromo-	P033	Cyanogen chloride (CN)Cl
P017	Bromoacetone	P034	2-Cyclohexyl-4,6-dinitrophenol
P018	Brucine	P034	Phenol, 2-cyclohexyl-4,6-dinitro-
P018	Strychnidin-10-one, 2,3-dimethoxy-	P036	Arsonous dichloride, phenyl-
P020	Dinoseb	P036	Dichlorophenylarsine
P020	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	P037	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha, 2beta, 2alpha, 3beta, 6beta, 6alpha, 7beta, 7alpha)-
P021	Calcium cyanide		
P021	Calcium cyanide Ca(CN)2		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
P037	Dieldrin	P048	Phenol, 2,4-dinitro-
P038	Arsine, diethyl-	P049	Dithiobiuret
P038	Diethylarsine	P049	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH
P039	Disulfoton	P050	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-,3-oxide
P039	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	P050	Endosulfan
P040	O,O-Diethyl O-pyrazinyl phosphorothioate	P051	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)- & metabolites
P040	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	P051	Endrin
P041	Diethyl-p-nitrophenyl phosphate	P051	Endrin, & metabolites
P041	Phosphoric acid, diethyl 4-nitrophenyl ester	P054	Aziridine
P042	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-, (R)-	P054	Ethyleneimine
P042	Epinephrine	P056	Fluorine
P043	Diisopropylfluorophosphate (DFP)	P057	Acetamide, 2-fluoro-
P043	Phosphorofluoridic acid, bis(1-methylethyl) ester	P057	Fluoroacetamide
P044	Dimethoate	P058	Acetic acid, fluoro-, sodium salt
P044	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	P058	Fluoroacetic acid, sodium salt
P045	2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[methylamino]carbonyl oxime	P059	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-
P045	Thiofanox	P059	Heptachlor
P046	alpha,alpha-Dimethylphenethylamine	P060	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-
P046	Benzeneethanamine, alpha, alpha-dimethyl-	P060	Isodrin
P047	4,6-Dinitro-o-cresol, & salts	P062	Hexaethyl tetraphosphate
P047	Phenol, 2-methyl-4,6-dinitro-, & salts	P062	Tetraphosphoric acid, hexaethyl ester
P048	2,4-Dinitrophenol	P063	Hydrocyanic acid

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
P063	Hydrogen cyanide	P075	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-, & salts
P064	Methane, isocyanato-	P076	Nitric oxide
P064	Methyl isocyanate	P076	Nitrogen oxide NO
P065	Fulminic acid, mercury(2+) salt (R,T)	P077	Benzenamine, 4-nitro-
P065	Mercury fulminate (R,T)	P077	p-Nitroaniline
P066	Ethanimidothioic acid, N- [[methylamino]carbonyl]oxy]-, methyl ester	P078	Nitrogen dioxide
P066	Methomyl	P078	Nitrogen oxide NO2
P067	1,2-Propylenimine	P081	1,2,3-Propanetriol, trinitrate (R)
P067	Aziridine, 2-methyl-	P081	Nitroglycerine (R)
P068	Hydrazine, methyl-	P082	Methanimine, N-methyl-N-nitroso-
P068	Methyl hydrazine	P082	N-Nitrosodimethylamine
P069	2-Methylacetonitrile	P084	N-Nitrosomethylvinylamine
P069	Propanenitrile, 2-hydroxy-2-methyl-	P084	Vinylamine, N-methyl-N-nitroso-
P070	Aldicarb	P085	Diphosphoramidate, octamethyl-
P070	Propanal, 2-methyl-2-(methylthio)-, O- [(methylamino)carbonyl]oxime	P085	Octamethylpyrophosphoramidate
P071	Methyl parathion	P087	Osmium oxide OsO4, (T-4)-
P071	Phosphorothioic acid, O,O,-dimethyl O-(4- nitrophenyl) ester	P087	Osmium tetroxide
P072	alpha-Naphthylthiourea	P088	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
P072	Thiourea, 1-naphthalenyl-	P088	Endothall
P073	Nickel carbonyl	P089	Parathion
P073	Nickel carbonyl Ni(CO)4, (T-4)-	P089	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester
P074	Nickel cyanide	P092	Mercury, (acetato-O)phenyl-
P074	Nickel cyanide Ni(CN)2	P092	Phenylmercury acetate
P075	Nicotine, & salts	P093	Phenylthiourea
		P093	Thiourea, phenyl-

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
P094	Phorate	P109	Tetraethyldithiopyrophosphate
P094	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	P109	Thiodiphosphoric acid, tetraethyl ester
P095	Carbonic dichloride	P110	Plumbane, tetraethyl-
P095	Phosgene	P110	Tetraethyl lead
P096	Hydrogen phosphide	P111	Diphosphoric acid, tetraethyl ester
P096	Phosphine	P111	Tetraethyl pyrophosphate
P097	Famphur	P112	Methane, tetranitro- (R)
P097	Phosphorothioic acid O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester	P112	Tetranitromethane (R)
P098	Potassium cyanide	P113	Thallic oxide
P098	Potassium cyanide K(CN)	P113	Thallium oxide Tl ₂ O ₃
P099	Argentate (1-), bis(cyano-C)-, potassium	P114	Selenious acid, dithallium (1+) salt
P099	Potassium silver cyanide	P114	Thallium(I) selenite
P101	Ethyl cyanide	P115	Sulfuric acid, dithallium (1+) salt
P101	Propanenitrile	P115	Thallium(I) sulfate
P102	2-Propyn-1-ol	P116	Hydrazinecarbothioamide
P102	Propargyl alcohol	P116	Thiosemicarbazide
P103	Selenourea	P118	Methanethiol, trichloro-
P104	Silver cyanide	P118	Trichloromethanethiol
P104	Silver cyanide Ag(CN)	P119	Ammonium vanadate
P105	Sodium azide	P119	Vanadic acid, ammonium salt
P106	Sodium cyanide	P120	Vanadium oxide V ₂ O ₅
P106	Sodium cyanide Na(CN)	P120	Vanadium pentoxide
P108	Strychnidin-10-one, & salts	P121	Zinc cyanide
P108	Strychnine, & salts	P121	Zinc cyanide Zn(CN) ₂
		P122	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10% (R,T)

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
P123	Toxaphene	P196	Manganese, bis(dimethylcarbamo-dithioato-S,S')
P127	7-Benzofuranol, 2-3dihydro-2,2-dimethyl-, methylcarbamate	P196	Manganese dimethyldithiocarbamate
P127	Carbofuran.	P197	Formparanate
P127	7-Benzofuranol, 2, 3-dihydro-2, 2 dimethyl-, methylcarbamate	P197	Methanimidamide, N,N-dimethyl-N'-[2- methyl-4[[methylamino)carbonyl]oxy] phenyl]
P128	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)	P198	Methanimidamide, N,N-dimethyl-N'-[3- [[methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride
P128	Mexacarbate	P198	Formetanate hydrochloride
P185	1,3-Dithiolane-2carboxaldehyde, 2,4-dimethyl-, O-[(methylamino)-carbonyl]oxime.	P199	Methiocarb.
P188	Physostigmine salicylate	P199	Phenol, (3,5-dimethyl-4(methylthio)-, methylcarbamate
P189	Carbosulfan	P201	Promecarb
P189	Carbamic acid, [(dibutylamino)-thio]methyl-, 2,3-dihydro-2,2dimethyl-7benzofuranyl ester.	P201	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate
P190	Metolcarb.	P202	Phenol, 3-(1 methylethyl)-, methyl carbamate
P191	Dimetilan	P202	3-Isopropylphenyl N-methylcarbamate
P191	Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester.	P202	m-Cumenyl methylcarbamate
P192	Isolan	P203	Aldicarb sulfone.
P192	Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H-pyrazo-5-yl ester.	P203	Propanal, 2-methyl-2-(methyl-sulfonyl)-,O- [[methylamino)carbonyl]oxime
P194	Ethanimidothioc acid, 2-(dimethylamino)-N- [[methylamino) carbonyl]oxy)-2-oxo-,methyl ester	P204	Physostigmine
P194	Oxamyl	P204	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1, 3a,8-trimethylmethylcarbamate (ester), (3aS-cis)-
		P205	Ziram

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
	DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUES, AND SPILL RESIDUES THEREOF – TOXIC WASTES (SEE 40 CFR 261.33 FOR AN ALPHABETIZED LISTING)		
		U010	Azirino [2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8-[[aminocarbonyl]oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta, 8aalpha, 8balph)]-
		U010	Mitomycin C
		U011	1H-1,2,4-Triazol-3-amine
		U011	Amitrole
		U012	Aniline (I,T)
		U012	Benzenamine (I,T)
		U014	Auramine
		U014	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl]-
		U015	Azaserine
		U015	L-Serine, diazoacetate (ester)
		U016	Benz[c]acridine
		U017	Benzal chloride
		U017	Benzene, (dichloromethyl)-
		U018	Benz[a]anthracene
		U019	Benzene (I,T)
		U020	Benzenesulfonic acid chloride (C,R)
		U020	Benzenesulfonyl chloride (C,R)
		U021	[1,1'-Biphenyl]-4,4'-diamine
		U021	Benzidine
		U022	Benzo[a]pyrene
		U023	Benzene, (trichloromethyl)-
		U023	Benzotrichloride (C,R,T)
		U024	Dichloromethoxy ethane
		U024	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
		U025	Dichloroethyl ether
		U025	Ethane, 1,1'-oxybis[2-chloro-
		U026	Chlornaphazin
U001	Acetaldehyde (I)		
U001	Ethanal (I)		
U002	2-Propanone (I)		
U002	Acetone (I)		
U003	Acetonitrile (I,T)		
U004	Acetophenone		
U004	Ethanone, 1-phenyl-		
U005	2-Acetylaminofluorene		
U005	Acetamide, N-9H-fluoren-2-yl		
U006	Acetyl chloride (C,R,T)		
U007	2-Propenamide		
U007	Acrylamide		
U008	2-Propenoic acid (I)		
U008	Acrylic acid (I)		
U009	2-Propenenitrile		
U009	Acrylonitrile		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U026	Naphthalenamine, N,N'-bis(2-chloroethyl)-	U039	Phenol, 4-chloro-3-methyl-
U027	Dichloroisopropyl ether	U041	Epichlorohydrin
U027	Propane, 2,2'-oxybis[2-chloro-	U041	Oxirane, (chloromethyl)-
U028	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	U042	2-Chloroethyl vinyl ether
U028	Diethylhexyl phthalate	U042	Ethene, (2-chloroethoxy)-
U029	Methane, bromo-	U043	Ethene, chloro-
U029	Methyl bromide	U043	Vinyl chloride
U030	4-Bromophenyl phenyl ether	U044	Chloroform
U030	Benzene, 1-bromo-4-phenoxy-	U044	Methane, trichloro-
U031	1-Butanol (I)	U045	Methane, chloro- (I,T)
U031	n-Butyl alcohol (I)	U045	Methyl chloride (I,T)
U032	Calcium chromate	U046	Chloromethyl methyl ether
U032	Chromic acid H ₂ CrO ₄ , calcium salt	U046	Methane, chloromethoxy-
U033	Carbon oxyfluoride (R,T)	U047	beta-Chloronaphthalene
U033	Carbonic difluoride	U047	Naphthalene, 2-chloro-
U034	Acetaldehyde, trichloro-	U048	o-Chlorophenol
U034	Chloral	U048	Phenol, 2-chloro-
U035	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	U049	4-Chloro-o-toluidine, hydrochloride
U035	Chlorambucil	U049	Benzenamine, 4-chloro-2-methyl-, hydrochloride
U036	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	U050	Chrysene
U036	Chlordane, alpha & gamma isomers	U051	Creosote
U037	Benzene, chloro-	U052	Cresol (Cresylic acid)
U037	Chlorobenzene	U052	Phenol, methyl-
U038	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	U053	2-Butenal
U038	Chlorobenzilate	U053	Crotonaldehyde
U039	p-Chloro-m-cresol	U055	Benzene, (1-methylethyl)- (I)
		U055	Cumene (I)
		U056	Benzene, hexahydro- (I)

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U056	Cyclohexane (l)	U071	Benzene, 1,3-dichloro-
U057	Cyclohexanone (l)	U071	m-Dichlorobenzene
U058	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide	U072	Benzene, 1,4-dichloro-
U058	Cyclophosphamide	U072	p-Dichlorobenzene
U059	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxohexopyranosyl]oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	U073	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-
U059	Daunomycin	U073	3,3'-Dichlorobenzidine
U060	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	U074	1,4-Dichloro-2-butene (I,T)
U060	DDD	U074	2-Butene, 1,4-dichloro- (I,T)
U061	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	U075	Dichlorodifluoromethane
U061	DDT	U075	Methane, dichlorodifluoro-
U062	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	U076	Ethane, 1,1-dichloro-
U062	Diallate	U076	Ethylidene dichloride
U063	Dibenz[a,h]anthracene	U077	Ethane, 1,2-dichloro-
U064	Benzo[rst]pentaphene	U077	Ethylene dichloride
U064	Dibenzo[a,i]pyrene	U078	1,1-Dichloroethylene
U066	1,2-Dibromo-3-chloropropane	U078	Ethene, 1,1-dichloro-
U066	Propane, 1,2-dibromo-3-chloro-	U079	1,2-Dichloroethylene
U067	Ethane, 1,2-dibromo-	U079	Ethene, 1,2-dichloro-,(E)-
U067	Ethylene dibromide	U080	Methane, dichloro-
U068	Methane, dibromo-	U080	Methylene chloride
U068	Methylene bromide	U081	2,4-Dichlorophenol
U069	1,2-Benzenedicarboxylic acid, dibutyl ester	U081	Phenol, 2,4-dichloro-
U069	Dibutyl phthalate	U082	2,6-Dichlorophenol
U070	Benzene, 1,2-dichloro-	U082	Phenol, 2,6-dichloro-
U070	o-Dichlorobenzene	U083	Propane, 1,2-dichloro-
		U083	Propylene dichloride
		U084	1,3-Dichloropropene
		U084	1-Propene, 1,3-dichloro-

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U085	1,2:3,4-Diepoxybutane (I,T)	U098	Hydrazine, 1,1-dimethyl-
U085	2,2'-Bioxirane	U099	1,2-Dimethylhydrazine
U086	Hydrazine, 1,2-diethyl-	U099	Hydrazine, 1,2-diphenyl-
U086	N,N'-Diethylhydrazine	U101	2,4-Dimethylphenol
U087	O,O-Diethyl S-methyl dithiophosphate	U101	Phenol, 2,4-dimethyl-
U087	Phosphorodithioic acid, O,O-diethyl S-methyl ester	U102	1,2-Benzenedicarboxylic acid, dimethyl ester
U088	1,2-Benzenedicarboxylic acid, diethyl ester	U102	Dimethyl phthalate
U088	Diethyl phthalate	U103	Dimethyl sulfate
U089	Diethylstilbesterol	U103	Sulfuric acid, dimethyl ester
U089	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis, (E)-	U105	2,4-Dinitrotoluene
U090	1,3-Benzodioxole, 5-propyl-	U105	Benzene, 1-methyl-2,4-dinitro-
U090	Dihydrosafrole	U106	2,6-Dinitrotoluene
U091	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	U106	Benzene, 2-methyl-1,3-dinitro-
U091	3,3'-Dimethoxybenzidine	U107	1,2-Benzenedicarboxylic acid, dioctyl ester
U092	Dimethylamine (I)	U107	Di-n-octyl phthalate
U092	Methanamine, N-methyl- (I)	U108	1,4-Diethyleneoxide
U093	Benzenamine, N,N-dimethyl-4-(phenylazo)-	U108	1,4-Dioxane
U093	p-Dimethylaminoazobenzene	U109	1,2-Diphenylhydrazine
U094	7,12-Dimethylbenz[a]anthracene	U109	Hydrazine, 1,2-diphenyl-
U094	Benz[a]anthracene, 7,12-dimethyl-	U110	1-Propanimine, N-propyl-(I)
U095	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	U110	Dipropylamine (I)
U095	3,3'-Dimethylbenzidine	U111	1-Propanamine, N-nitroso-N-propyl-
U096	alpha,alpha-Dimethylbenzylhydroperoxide (R)	U111	Di-n-propylnitrosamine
U096	Hydroperoxide, 1-methyl-1-phenylethyl- (R)	U112	Acetic acid, ethyl ester (I)
U097	Carbamic chloride, dimethyl-	U112	Ethyl acetate (I)
U097	Dimethylcarbamoyl chloride	U113	2-Propenoic acid, ethyl ester (I)
U098	1,1-Dimethylhydrazine	U113	Ethyl acrylate (I)

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U114	Carbamodithioic acid, 1,2-ethanediybis-, salts & esters	U129	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5alpha, 6beta)-
U114	Ethylenebisdithiocarbamic acid, salts & esters	U129	Lindane
U115	Ethylene oxide (I,T)	U130	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-
U115	Oxirane (I,T)	U130	Hexachlorocyclopentadiene
U116	2-Imidazolidinethione	U131	Ethane, hexachloro-
U116	Ethylenethiourea	U131	Hexachloroethane
U117	Ethane, 1,1'-oxybis-(I)	U132	Hexachlorophene
U117	Ethyl ether (I)	U132	Phenol, 2,2'-methylenebis[3,4,6-trichloro-
U118	2-Propenoic acid, 2-methyl-, ethyl ester	U133	Hydrazine (R,T)
U118	Ethyl methacrylate	U134	Hydrofluoric acid (C,T)
U119	Ethyl methanesulfonate	U134	Hydrogen fluoride (C,T)
U119	Methanesulfonic acid, ethyl ester	U135	Hydrogen sulfide
U120	Fluoranthene	U135	Hydrogen sulfide H2S
U121	Methane, trichlorofluoro-	U136	Arsinic acid, dimethyl-
U121	Trichloromonofluoromethane	U136	Cacodylic acid
U122	Formaldehyde	U137	Indeno[1,2,3-cd]pyrene
U123	Formic acid (C,T)	U138	Methane, iodo-
U124	Furan (I)	U138	Methyl iodide
U124	Furfuran (I)	U140	1-Propanol, 2-methyl- (I,T)
U125	2-Furancarboxaldehyde (I)	U140	Isobutyl alcohol (I,T)
U125	Furfural (I)	U141	1,3-Benzodioxole, 5-(1-propenyl)-
U126	Glycidylaldehyde	U141	Isosafrole
U126	Oxiranecarboxyaldehyde	U142	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-
U127	Benzene, hexachloro-	U142	Kepone
U127	Hexachlorobenzene	U143	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z), 7(2S*,3R*), 7aalpha]]-
U128	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	U143	Lasiocarpine
U128	Hexachlorobutadiene		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U144	Acetic acid, lead(2+) salt	U158	4,4'-Methylenebis(2-chloroaniline)
U144	Lead acetate	U158	Benzenamine, 4,4'-methylenebis[2-chloro-
U145	Lead phosphate	U159	2-Butanone (I,T)
U145	Phosphoric acid, lead(2+) salt (2:3)	U159	Methyl ethyl ketone (MEK) (I,T)
U146	Lead subacetate	U160	2-Butanone, peroxide (R,T)
U146	Lead, bis(acetato-O)tetrahydroxytri-	U160	Methyl ethyl ketone peroxide (R,T)
U147	2,5-Furandione	U161	4-Methyl-2-pentanone (I)
U147	Maleic anhydride	U161	Methyl isobutyl ketone (I)
U148	3,6-Pyridazinedione, 1,2-dihydro-	U161	Pentanol, 4-methyl-
U148	Maleic hydrazide	U162	2-Propenoic acid, 2-methyl-, methyl ester (I,T)
U149	Malononitrile	U162	Methyl methacrylate (I,T)
U149	Propanedinitrile	U163	Guanidine, N-methyl-N'-nitro-N-nitroso-
U150	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-	U163	MNNG
U150	Melphalan	U164	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-
U151	Mercury	U164	Methylthiouracil
U152	2-Propenenitrile, 2-methyl- (I,T)	U165	Naphthalene
U152	Methacrylonitrile (I,T)	U166	1,4-Naphthalenedione
U153	Methanethiol (I,T)	U166	1,4-Naphthoquinone
U153	Thiomethanol (I,T)	U167	1-Naphthalenamine
U154	Methanol (I)	U167	alpha-Naphthylamine
U154	Methyl alcohol (I)	U168	2-Naphthalenamine
U155	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	U168	beta-Naphthylamine
U155	Methapyrilene	U169	Benzene, nitro-
U156	Carbonochloridic acid, methyl ester, (I,T)	U169	Nitrobenzene (I,T)
U156	Methyl chlorocarbonate (I,T)	U170	p-Nitrophenol (I,T)
U157	3-Methylcholanthrene	U170	Phenol, 4-nitro-
U157	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	U171	2-Nitropropane (I,T)
		U171	Propane, 2-nitro- (I,T)

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U172	1-Butanamine, N-butyl-N-nitroso-	U187	Acetamide, N-(4-ethoxyphenyl)-
U172	N-Nitrosodi-n-butylamine	U187	Phenacetin
U173	Ethanol, 2,2'-(nitrosoimino)bis-	U188	Phenol
U173	N-Nitrosodiethanolamine	U189	Phosphorus sulfide (R)
U174	Ethanamine, N-ethyl-N-nitroso-	U189	Sulfur phosphide (R)
U174	N-Nitrosodiethylamine	U190	1,3-Isobenzofurandione
U176	N-Nitroso-N-ethylurea	U190	Phthalic anhydride
U176	Urea, N-ethyl-N-nitroso-	U191	2-Picoline
U177	N-Nitroso-N-methylurea	U191	Pyridine, 2-methyl-
U177	Urea, N-methyl-N-nitroso-	U192	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-
U178	Carbamic acid, methylnitroso-, ethyl ester	U192	Pronamide
U178	N-Nitroso-N-methylurethane	U193	1,2-Oxathiolane, 2,2-dioxide
U179	N-Nitrosopiperidine	U193	1,3-Propane sultone
U179	Piperidine, 1-nitroso-	U194	1-Propanamine (I,T)
U180	N-Nitrosopyrrolidine	U194	n-Propylamine (I,T)
U180	Pyrrolidine, 1-nitroso-	U196	Pyridine
U181	5-Nitro-o-toluidine	U197	2,5-Cyclohexadiene-1,4-dione
U181	Benzenamine, 2-methyl-5-nitro	U197	p-Benzoquinone
U182	1,3,5-Trioxane, 2,4,6-trimethyl-	U200	Reserpine
U182	Paraldehyde	U200	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18- [(3,4,5-trimethoxybenzoyl) oxy]-, methyl ester, (3beta, 16beta, 17alpha, 18beta, 20alpha)-
U183	Benzene, pentachloro-	U201	1,3-Benzenediol
U183	Pentachlorobenzene	U201	Resorcinol
U184	Ethane, pentachloro-	U202	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts
U184	Pentachloroethane	U202	Saccharin, & salts
U185	Benzene, pentachloronitro-	U203	1,3-Benzodioxole, 5-(2-propenyl)-
U185	Pentachloronitrobenzene (PCNB)	U203	Safrole
U186	1,3-Pentadiene (I)	U204	Selenious acid
U186	1-Methylbutadiene (I)		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U204	Selenium dioxide	U218	Thioacetamide
U205	Selenium sulfide	U219	Thiourea
U205	Selenium sulfide SeS ₂ (R,T)	U220	Benzene, methyl-
U206	D-Glucose, 2-deoxy-2- [[[(methylnitrosoamino)-carbonyl]amino]-	U220	Toluene
U206	Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-,D-	U221	Benzenediamine, ar-methyl-
U206	Streptozotocin	U221	Toluenediamine
U207	1,2,4,5-Tetrachlorobenzene	U222	Benzenamine, 2-methyl-, hydrochloride
U207	Benzene, 1,2,4,5-tetrachloro-	U222	o-Toluidine hydrochloride
U208	1,1,1,2-Tetrachloroethane	U223	Benzene, 1,3-diisocyanatomethyl- (R,T)
U208	Ethane, 1,1,1,2-tetrachloro-	U223	Toluene diisocyanate (R,T)
U209	1,1,2,2-Tetrachloroethane	U225	Bromoform
U209	Ethane, 1,1,2,2-tetrachloro-	U225	Methane, tribromo-
U210	Ethene, tetrachloro-	U226	Ethane, 1,1,1-trichloro-
U210	Tetrachloroethylene	U226	Methyl chloroform
U211	Carbon tetrachloride	U227	1,1,2-Trichloroethane
U211	Methane, tetrachloro-	U227	Ethane, 1,1,2-trichloro-
U213	Furan, tetrahydro-(l)	U228	Ethene, trichloro-
U213	Tetrahydrofuran (l)	U228	Trichloroethylene
U214	Acetic acid, thallium(1+) salt	U234	1,3,5-Trinitrobenzene (R,T)
U214	Thallium(l) acetate	U234	Benzene, 1,3,5-trinitro-
U215	Carbonic acid, dithallium(1+) salt	U235	1-Propanol, 2,3-dibromo-, phosphate (3:1)
U215	Thallium(l) carbonate	U235	Tris(2,3,-dibromopropyl) phosphate
U216	Thallium chloride TlCl	U236	2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)bis[5-amino-4-hydroxy]-, tetrasodium salt
U216	Thallium(l) chloride	U236	Trypan blue
U217	Nitric acid, thallium(1+) salt	U237	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-
U217	Thallium(l) nitrate	U237	Uracil mustard
U218	Ethanethioamide		

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U238	Carbamic acid, ethyl ester	U328	Benzenamine, 2-methyl-
U238	Ethyl carbamate (urethane)	U328	o-Toluidine
U239	Benzene, dimethyl- (I,T)	U353	Benzenamine, 4-methyl-
U239	Xylene (I)	U353	p-Toluidine
U240	2,4-D, salts & esters	U359	Ethanol, 2-ethoxy-
U240	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters	U359	Ethylene glycol monoethyl ether
U240	Dichlorophenoxyacetic acid 2,4-D	U364	1,3-Benzodioxol-4-ol, 2,2-dimethyl
U243	1-Propene, 1,1,2,3,3,3-hexachloro-	U364	Bendiocarb phenol
U243	Hexachloropropene	U367	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-
U244	Thioperoxydicarbonic diamide [(H ₂ N)C(S)] ₂ S ₂ , tetramethyl-	U367	Carbofuran phenol
U244	Thiram	U372	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester
U246	Cyanogen bromide (CN)Br	U372	Carbendazim
U247	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-	U373	Carbamic acid, phenyl-, 1-methylethyl ester
U247	Methoxychlor	U373	Propham
U248	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less	U387	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester
U248	Warfarin, & salts, when present at concentrations of 0.3% or less	U387	Prosulfocarb
U249	Zinc phosphide Zn ₃ P ₂ , when present at concentrations of 10% or less	U389	Triallate
U271	Benomyl	U389	Carbamothioic acid, bis (1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester
U278	Bendiocarb	U394	Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo, methyl ester
U278	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate	U394	A2213
U279	Carbaryl	U395	Diethylene glycol, dicarbamate
U279	1-Naphthalenol, methylcarbamate	U395	Ethanol, 2, 2;-oxybis-, dicarbamate
U280	Barban	U404	Ethanamine, N, N-diethyl-
U280	Carbamic acid, (3-chlorophenol)-, 4-chloro-2-butynyl ester	U404	Triethylamine
		U408	2,4,6-Tribromophenol
		U409	Thiophanate-methyl

EPA HAZARDOUS WASTE CODES

Code	Waste Description	Code	Waste Description
U409	Carbamic acid, (1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester	U411	Propoxur
U410	Ethanimidothioci acid, N, N'-(thiobis[(methylimino)carbonyloxy]]bis-, dimethyl ester	U411	Phenol, 2-(-1-methylethoxy)-, methylcarbamate

