

US EPA ARCHIVE DOCUMENT



NATIONAL ANALYSIS

THE NATIONAL BIENNIAL RCRA HAZARDOUS WASTE REPORT (BASED ON 2009 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 this 2009 National Biennial Report is to communicate the findings of EPA's 2009 hazardous waste reporting data collection efforts to the public, government agencies, and the regulated community. The 2009 National Biennial 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 2009.

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 specifically 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 Codes). The reader can find a more detailed explanation in the *RCRA Orientation Manual* (www.epa.gov/wastes/inforesources/pubs/orientat/index.htm) 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 2009 Biennial Report submissions. Details about the information submitted by the regulated community can be found in the *2009 Hazardous Waste Report Instructions and Forms* (www.epa.gov/waste/inforesources/data/biennialreport/index.htm). Guidance provided to the regulated community regarding information to include or exclude from the National Report can be found in Appendix E.

¹ The 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 2009 are required to provide EPA with 2009 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 the data reported by facilities that treated, stored, or disposed of RCRA hazardous wastes on site during 2009. Only wastes that were treated or disposed of in 2009 are included in the management quantities in this Report. Hazardous wastes 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 that treated, stored, or disposed of RCRA hazardous wastes on site during 2009. RCRA hazardous waste receipt information is obtained from data reported by facilities that treated, stored, or disposed of RCRA hazardous wastes on site during 2009. 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 the facilities that received the wastes.

THE DATA PRESENTED IN THIS NATIONAL BIENNIAL REPORT

It is the responsibility of individual States or implementing EPA offices to properly identify data that is to be included in or excluded from the National Biennial Report. For this 2009 National Biennial RCRA Hazardous Waste Report, EPA has included all data that was 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.

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National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 1.1 Quantity of RCRA Hazardous Waste Generated and Number of Hazardous Waste Generators, by State, 2009

State	Hazardous Waste Quantity			Number of Generators			Reported Status	
	Rank	Tons Generated	Percentage	Rank	Number	Percentage	LQG	Non-LQG
ALABAMA	4	2,063,609	5.8	23	238	1.5	226	12
ALASKA	49	1,890	0.0	44	39	0.2	21	18
ARIZONA	40	21,059	0.1	27	173	1.1	170	3
ARKANSAS	17	273,192	0.8	31	141	0.9	123	18
CALIFORNIA	11	699,612	2.0	1	2,578	15.9	2,576	2
COLORADO	33	41,532	0.1	33	125	0.8	106	19
CONNECTICUT	39	21,148	0.1	18	278	1.7	271	7
DELAWARE	41	19,817	0.1	42	54	0.3	45	9
DISTRICT OF COLUMBIA	53	870	0.0	51	23	0.1	23	0
FLORIDA	21	168,912	0.5	15	324	2.0	272	52
GEORGIA	2	4,024,468	11.4	16	318	2.0	285	33
GUAM	54	421	0.0	52	15	0.1	15	0
HAWAII	52	987	0.0	46	35	0.2	24	11
IDAHO	43	4,808	0.0	45	37	0.2	19	18
ILLINOIS	8	1,045,420	3.0	5	813	5.0	606	207
INDIANA	10	778,454	2.2	10	487	3.0	487	0
IOWA	34	40,316	0.1	30	150	0.9	121	29
KANSAS	20	222,833	0.6	25	189	1.2	154	35
KENTUCKY	22	132,710	0.4	22	252	1.6	251	1
LOUISIANA	3	3,878,843	11.0	14	357	2.2	329	28
MAINE	46	3,687	0.0	41	66	0.4	62	4
MARYLAND	36	33,684	0.1	35	112	0.7	107	5
MASSACHUSETTS	37	32,471	0.1	12	409	2.5	365	44
MICHIGAN	16	284,270	0.8	8	576	3.6	439	137
MINNESOTA	23	106,804	0.3	20	261	1.6	213	48
MISSISSIPPI	5	1,702,446	4.8	34	121	0.7	119	2
MISSOURI	18	238,215	0.7	21	259	1.6	230	29
MONTANA	35	37,758	0.1	48	31	0.2	31	0
NAVAJO NATION	55	34	0.0	54	2	0.0	2	0
NEBRASKA	38	28,187	0.1	39	74	0.5	52	22
NEVADA	42	11,143	0.0	37	93	0.6	93	0
NEW HAMPSHIRE	44	4,538	0.0	28	167	1.0	99	68
NEW JERSEY	12	555,806	1.6	7	650	4.0	572	78
NEW MEXICO	7	1,078,672	3.1	47	34	0.2	31	3
NEW YORK	9	1,032,626	2.9	2	1,190	7.3	1,190	0
NORTH CAROLINA	27	71,763	0.2	9	546	3.4	497	49
NORTH DAKOTA	13	530,504	1.5	53	14	0.1	13	1
OHIO	6	1,300,804	3.7	3	896	5.5	724	172
OKLAHOMA	32	41,874	0.1	26	185	1.1	164	21
OREGON	28	61,876	0.2	29	155	1.0	155	0
PENNSYLVANIA	15	290,840	0.8	6	740	4.6	665	75
PUERTO RICO	31	42,996	0.1	36	94	0.6	89	5
RHODE ISLAND	45	4,505	0.0	38	76	0.5	68	8
SOUTH CAROLINA	24	102,034	0.3	24	218	1.3	195	23
SOUTH DAKOTA	51	1,214	0.0	49	25	0.2	25	0
TENNESSEE	26	78,595	0.2	17	289	1.8	289	0
TEXAS	1	13,461,911	38.1	4	878	5.4	878	0
TRUST TERRITORIES	56	2	0.0	55	1	0.0	1	0
UTAH	29	59,448	0.2	40	69	0.4	69	0
VERMONT	50	1,536	0.0	43	48	0.3	45	3
VIRGIN ISLANDS	48	2,620	0.0	55	1	0.0	1	0
VIRGINIA	30	51,023	0.1	19	269	1.7	230	39
WASHINGTON	14	317,217	0.9	13	403	2.5	399	4
WEST VIRGINIA	25	92,449	0.3	31	141	0.9	93	48
WISCONSIN	19	223,441	0.6	11	476	2.9	362	114
WYOMING	47	3,502	0.0	49	25	0.2	19	6
Total		35,331,398	100.0		16,220	100.0	14,710	1,510

Note: Columns may not sum due to rounding.

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National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 1.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Generated and Number of Hazardous Waste Generators, 2009

State	Hazardous Waste Quantity			Number of Generators			Reported Status	
	Rank	Tons Generated	Percentage	Rank	Number	Percentage	LQG	Non-LQG
TEXAS	1	13,461,911	38.1	4	878	5.4	878	0
GEORGIA	2	4,024,468	11.4	16	318	2.0	285	33
LOUISIANA	3	3,878,843	11.0	14	357	2.2	329	28
ALABAMA	4	2,063,609	5.8	23	238	1.5	226	12
MISSISSIPPI	5	1,702,446	4.8	34	121	0.7	119	2
OHIO	6	1,300,804	3.7	3	896	5.5	724	172
NEW MEXICO	7	1,078,672	3.1	47	34	0.2	31	3
ILLINOIS	8	1,045,420	3.0	5	813	5.0	606	207
NEW YORK	9	1,032,626	2.9	2	1,190	7.3	1,190	0
INDIANA	10	778,454	2.2	10	487	3.0	487	0
CALIFORNIA	11	699,612	2.0	1	2,578	15.9	2,576	2
NEW JERSEY	12	555,806	1.6	7	650	4.0	572	78
NORTH DAKOTA	13	530,504	1.5	53	14	0.1	13	1
WASHINGTON	14	317,217	0.9	13	403	2.5	399	4
PENNSYLVANIA	15	290,840	0.8	6	740	4.6	665	75
MICHIGAN	16	284,270	0.8	8	576	3.6	439	137
ARKANSAS	17	273,192	0.8	31	141	0.9	123	18
MISSOURI	18	238,215	0.7	21	259	1.6	230	29
WISCONSIN	19	223,441	0.6	11	476	2.9	362	114
KANSAS	20	222,833	0.6	25	189	1.2	154	35
FLORIDA	21	168,912	0.5	15	324	2.0	272	52
KENTUCKY	22	132,710	0.4	22	252	1.6	251	1
MINNESOTA	23	106,804	0.3	20	261	1.6	213	48
SOUTH CAROLINA	24	102,034	0.3	24	218	1.3	195	23
WEST VIRGINIA	25	92,449	0.3	31	141	0.9	93	48
TENNESSEE	26	78,595	0.2	17	289	1.8	289	0
NORTH CAROLINA	27	71,763	0.2	9	546	3.4	497	49
OREGON	28	61,876	0.2	29	155	1.0	155	0
UTAH	29	59,448	0.2	40	69	0.4	69	0
VIRGINIA	30	51,023	0.1	19	269	1.7	230	39
PUERTO RICO	31	42,996	0.1	36	94	0.6	89	5
OKLAHOMA	32	41,874	0.1	26	185	1.1	164	21
COLORADO	33	41,532	0.1	33	125	0.8	106	19
IOWA	34	40,316	0.1	30	150	0.9	121	29
MONTANA	35	37,758	0.1	48	31	0.2	31	0
MARYLAND	36	33,684	0.1	35	112	0.7	107	5
MASSACHUSETTS	37	32,471	0.1	12	409	2.5	365	44
NEBRASKA	38	28,187	0.1	39	74	0.5	52	22
CONNECTICUT	39	21,148	0.1	18	278	1.7	271	7
ARIZONA	40	21,059	0.1	27	173	1.1	170	3
DELAWARE	41	19,817	0.1	42	54	0.3	45	9
NEVADA	42	11,143	0.0	37	93	0.6	93	0
IDAHO	43	4,808	0.0	45	37	0.2	19	18
NEW HAMPSHIRE	44	4,538	0.0	28	167	1.0	99	68
RHODE ISLAND	45	4,505	0.0	38	76	0.5	68	8
MAINE	46	3,687	0.0	41	66	0.4	62	4
WYOMING	47	3,502	0.0	49	25	0.2	19	6
VIRGIN ISLANDS	48	2,620	0.0	55	1	0.0	1	0
ALASKA	49	1,890	0.0	44	39	0.2	21	18
VERMONT	50	1,536	0.0	43	48	0.3	45	3
SOUTH DAKOTA	51	1,214	0.0	49	25	0.2	25	0
HAWAII	52	987	0.0	46	35	0.2	24	11
DISTRICT OF COLUMBIA	53	870	0.0	51	23	0.1	23	0
GUAM	54	421	0.0	52	15	0.1	15	0
NAVAJO NATION TRUST TERRITORIES	55	34	0.0	54	2	0.0	2	0
	56	2	0.0	55	1	0.0	1	0
Total		35,331,398	100.0		16,220	100.0	14,710	1,510

Note: Columns may not sum due to rounding.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 1.3 Rank Ordering of States Based on Number of Hazardous Waste Generators and Quantity of RCRA Hazardous Waste Generated, 2009

State	Number of Generators			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Generated	Percentage	LQG	Non-LQG
CALIFORNIA	1	2,578	15.9	11	699,612	2.0	2,576	2
NEW YORK	2	1,190	7.3	9	1,032,626	2.9	1,190	0
OHIO	3	896	5.5	6	1,300,804	3.7	724	172
TEXAS	4	878	5.4	1	13,461,911	38.1	878	0
ILLINOIS	5	813	5.0	8	1,045,420	3.0	606	207
PENNSYLVANIA	6	740	4.6	15	290,840	0.8	665	75
NEW JERSEY	7	650	4.0	12	555,806	1.6	572	78
MICHIGAN	8	576	3.6	16	284,270	0.8	439	137
NORTH CAROLINA	9	546	3.4	27	71,763	0.2	497	49
INDIANA	10	487	3.0	10	778,454	2.2	487	0
WISCONSIN	11	476	2.9	19	223,441	0.6	362	114
MASSACHUSETTS	12	409	2.5	37	32,471	0.1	365	44
WASHINGTON	13	403	2.5	14	317,217	0.9	399	4
LOUISIANA	14	357	2.2	3	3,878,843	11.0	329	28
FLORIDA	15	324	2.0	21	168,912	0.5	272	52
GEORGIA	16	318	2.0	2	4,024,468	11.4	285	33
TENNESSEE	17	289	1.8	26	78,595	0.2	289	0
CONNECTICUT	18	278	1.7	39	21,148	0.1	271	7
VIRGINIA	19	269	1.7	30	51,023	0.1	230	39
MINNESOTA	20	261	1.6	23	106,804	0.3	213	48
MISSOURI	21	259	1.6	18	238,215	0.7	230	29
KENTUCKY	22	252	1.6	22	132,710	0.4	251	1
ALABAMA	23	238	1.5	4	2,063,609	5.8	226	12
SOUTH CAROLINA	24	218	1.3	24	102,034	0.3	195	23
KANSAS	25	189	1.2	20	222,833	0.6	154	35
OKLAHOMA	26	185	1.1	32	41,874	0.1	164	21
ARIZONA	27	173	1.1	40	21,059	0.1	170	3
NEW HAMPSHIRE	28	167	1.0	44	4,538	0.0	99	68
OREGON	29	155	1.0	28	61,876	0.2	155	0
IOWA	30	150	0.9	34	40,316	0.1	121	29
ARKANSAS	31	141	0.9	17	273,192	0.8	123	18
WEST VIRGINIA	31	141	0.9	25	92,449	0.3	93	48
COLORADO	33	125	0.8	33	41,532	0.1	106	19
MISSISSIPPI	34	121	0.7	5	1,702,446	4.8	119	2
MARYLAND	35	112	0.7	36	33,684	0.1	107	5
PUERTO RICO	36	94	0.6	31	42,996	0.1	89	5
NEVADA	37	93	0.6	42	11,143	0.0	93	0
RHODE ISLAND	38	76	0.5	45	4,505	0.0	68	8
NEBRASKA	39	74	0.5	38	28,187	0.1	52	22
UTAH	40	69	0.4	29	59,448	0.2	69	0
MAINE	41	66	0.4	46	3,687	0.0	62	4
DELAWARE	42	54	0.3	41	19,817	0.1	45	9
VERMONT	43	48	0.3	50	1,536	0.0	45	3
ALASKA	44	39	0.2	49	1,890	0.0	21	18
IDAHO	45	37	0.2	43	4,808	0.0	19	18
HAWAII	46	35	0.2	52	987	0.0	24	11
NEW MEXICO	47	34	0.2	7	1,078,672	3.1	31	3
MONTANA	48	31	0.2	35	37,758	0.1	31	0
SOUTH DAKOTA	49	25	0.2	51	1,214	0.0	25	0
WYOMING	49	25	0.2	47	3,502	0.0	19	6
DISTRICT OF COLUMBIA	51	23	0.1	53	870	0.0	23	0
GUAM	52	15	0.1	54	421	0.0	15	0
NORTH DAKOTA	53	14	0.1	13	530,504	1.5	13	1
NAVAJO NATION	54	2	0.0	55	34	0.0	2	0
TRUST TERRITORIES	55	1	0.0	56	2	0.0	1	0
VIRGIN ISLANDS	55	1	0.0	48	2,620	0.0	1	0
Total		16,220	100.0		35,331,398	100.0	14,710	1,510

Note: Columns may not sum due to rounding.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 1.4 Fifty Largest RCRA Hazardous Waste Generators in the U.S., 2009

Rank	EPA ID	Name	City	Tons Generated
1	GAD051011609	DSM CHEMICALS NORTH AMERICA INC	AUGUSTA, GA	3,788,386
2	TXD001700806	SOLUTIA INC	ALVIN, TX	3,595,422
3	TXD008080533	BP PRODUCTS NORTH AMERICA INC	TEXAS CITY, TX	2,094,240
4	TXD059685339	DIAMOND SHAMROCK REFINING COMPANY LP	SUNRAY, TX	1,734,503
5	MSD096046792	E.I. DU PONT DE NEMOURS AND CO	PASS CHRISTIAN, MS	1,638,605
6	LAD008213191	RUBICON LLC	GEISMAR, LA	1,561,652
7	LAD008175390	CYTEC INDUSTRIES INC.	WAGGAMAN, LA	1,543,012
8	TXR000076828	EXXONMOBIL CORPORATION 9916	PASADENA, TX	1,148,920
9	ALD004009320	HUNT REFINING COMPANY	TUSCALOOSA, AL	1,142,408
10	NMD048918817	NAVAJO REFINING COMPANY LLC	ARTESIA, NM	1,074,588
11	TXD000751172	INEOS USA LLC	PORT LAVACA, TX	876,304
12	TXR000057968	INVISTA SARL	VICTORIA, TX	851,400
13	NYD000707901	IBM CORPORATION - EAST FISHKILL FACILITY	HOPEWELL JUNCTION, NY	799,465
14	OHD042157644	INEOS USA LLC	LIMA, OH	799,132
15	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW, TX	624,236
16	NDD006175467	TESORO REFINING AND MARKETING COMPANY	MANDAN, ND	529,803
17	TXD008081697	BASF CORPORATION	FREEMPORT, TX	484,645
18	ILD042075333	CABOT CORP	TUSCOLA, IL	472,492
19	ALD062464748	UOP LLC A HONEYWELL COMPANY	CHICKASAW, AL	411,041
20	IND003913423	ARCELORMITTAL BURNS HARBOR, LLC	BURNS HARBOR, IN	408,139
21	ALD046481032	SANDERS LEAD COMPANY, INC.	TROY, AL	323,238
22	TXD008081101	E I DU PONT DE NEMOURS AND COMPANY	BEAUMONT, TX	296,552
23	TXD000838896	VEOLIA ES TECHNICAL SOLUTIONS LLC	PORT ARTHUR, TX	293,567
24	NJD986581437	425/445 ROUTE 440 PROPERTY LLC	JERSEY CITY, NJ	260,170
25	LAR000057828	EVONIK CYRO LLC	WAGGAMAN, LA	248,411
26	TXD008106999	MERISOL USA LLC	HOUSTON, TX	232,740
27	WA7890008967	US DEPT OF ENERGY HANFORD FACILITY	RICHLAND, WA	215,820
28	TXD087491973	ASARCO LLC	AMARILLO, TX	153,990
29	ILD010284248	CID RECYCLING & DISPOSAL FAC	CALUMET CITY, IL	152,911
30	ILD041518861	CHEVRON ENVIRONMENTAL MGMT CO	LOCKPORT, IL	142,462
31	FLR000068007	K.C. INDUSTRIES, L.L.C., MULBERRY, FLORI	MULBERRY, FL	131,920
32	MOD050226075	BASF CORPORATION - HANNIBAL PLANT	PALMYRA, MO	129,942
33	ARD006354161	REYNOLDS METALS COMPANY GUM SPRINGS PLA	ARCADELPHIA, AR	128,989
34	LAD020597597	ANGUS CHEMICAL COMPANY	STERLINGTON, LA	113,833
35	KSD007482029	OCCIDENTAL CHEMICAL CORPORATION	WICHITA, KS	112,270
36	GAD070330576	EXIDE TECHNOLOGIES	COLUMBUS, GA	100,886
37	CAD097854541	EXIDE TECHNOLOGIES	VERNON, CA	96,116
38	LAD980622104	HEXION SPECIALTY CHEMICALS INC.	NORCO, LA	92,432
39	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA, IL	86,163
40	TXD058275769	EQUISTAR CHEMICALS LP	CHANNELVIEW, TX	84,971
41	TXD008092793	THE DOW CHEMICAL COMPANY	FREEMPORT, TX	81,041
42	KSD980633259	SYSTECH ENVIRONMENTAL CORPORATION	FREDONIA, KS	80,326
43	TXD008076846	HUNTSMAN PETROCHEMICAL CORPORATION	PORT NECHES, TX	77,962
44	WID046536231	ERCO WORLDWIDE (USA) INC - PORT EDWARDS F	PORT EDWARDS TN, WI	74,309
45	MID000724831	MICHIGAN DISPOSAL INC	BELLEVILLE, MI	72,039
46	IND093219012	HERITAGE ENVIRONMENTAL SERVICES	INDIANAPOLIS, IN	70,947
47	NY0002455756	USEPA REGION II - CONSOLIDATED IRON REMEDI//	NEWBURGH, NY	69,418
48	CAT080029465	ELECTRON PLATING III	GARDEN GROVE, CA	63,200
49	CAD076528678	THE DOW CHEMICAL COMPANY	PITTSBURG, CA	58,356
50	TXD049213127	PERGAN MARSHALL LLC	MARSHALL, TX	57,249
Total				29,680,624

Note: Column may not sum due to rounding

Exhibit 1.5 Number of Hazardous Waste Generators by Generator Quantity Range, 2009

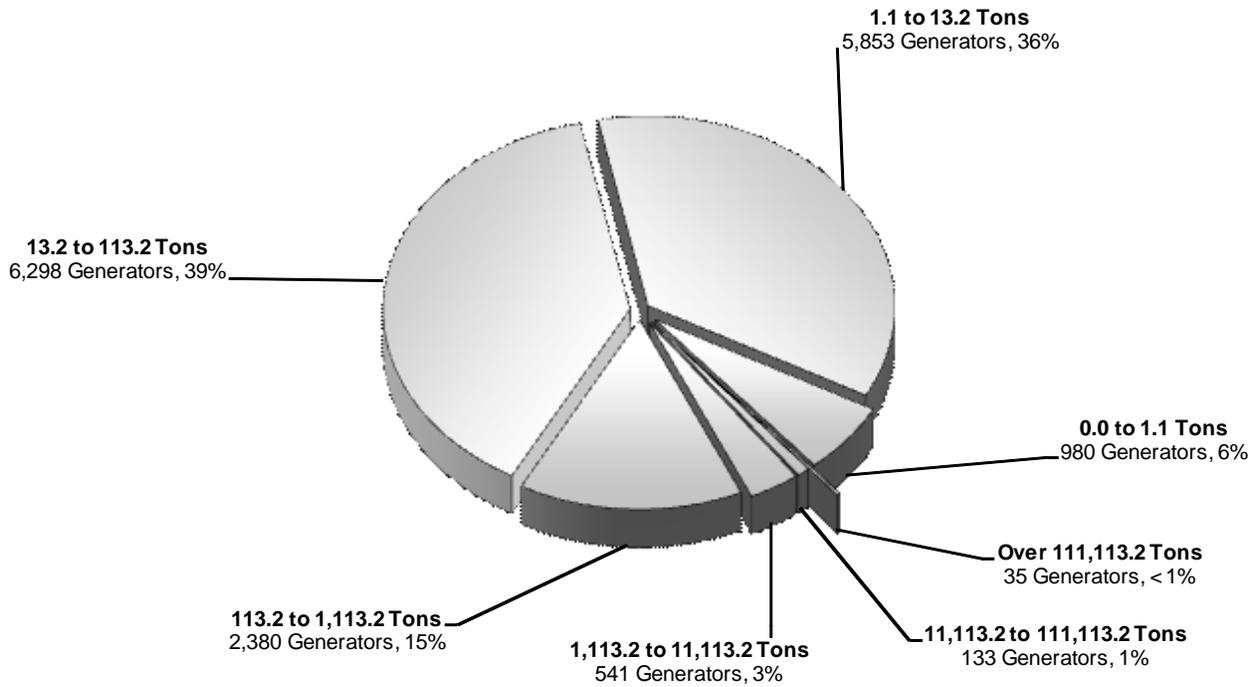
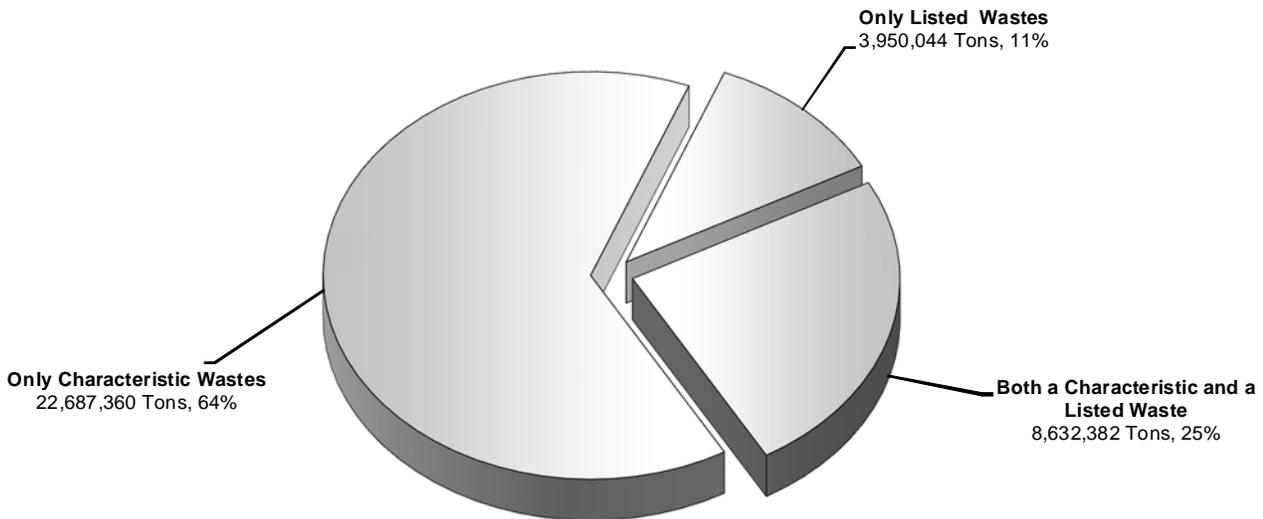


Exhibit 1.6 Percentages of National Generation Total That Were Characteristic, Listed, or Both Characteristic and Listed Waste, 2009



National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 1.7 Tons of Generated Waste That Were Only Characteristic Waste, Only Listed Waste, or Both Characteristic and Listed Waste, 2009

Only Characteristic Wastes		Only Listed Wastes		Both a Characteristic and a Listed Waste	
ONLY IGNITABLE	559,691	ONLY AN F CODE	925,226		
ONLY CORROSIVE	869,124	ONLY A K CODE	1,836,851		
ONLY REACTIVE	33,248	ONLY A P CODE	3,677		
ONLY D004-17	1,794,696	ONLY A U CODE	91,235		
ONLY D018-43	9,380,446				
HAS MORE THAN ONE CHARACTERISTIC CODE	10,050,155	HAS MORE THAN ONE LISTED CODE	1,093,055		
TOTAL	22,687,360	TOTAL	3,950,044	Both Characteristic and Listed	8,632,382

Note: All quantities are in tons.

Exhibit 1.8 Tons of Generated Waste with Multiple Characteristics, That Were Multiply Listed, or Both, 2009

Only Characteristic Wastes But With Multiple Characteristics		Only Listed Wastes But Multiply Listed		Both Characteristic and Listed Wastes ¹	
HAS IGNITABLE CODE	1,620,230			IGNITABLE CODE W/ AT LEAST ONE LISTED CODE	1,841,089
HAS CORROSIVE CODE	6,293,379			CORROSIVE CODE W/ AT LEAST ONE LISTED CODE	4,607,591
HAS REACTIVE CODE	3,165,583			REACTIVE CODE W/ AT LEAST ONE LISTED CODE	1,356,582
HAS D004-17 CODE	5,617,229			D004-17 CODE W/ AT LEAST ONE LISTED CODE	3,095,191
HAS D018-43 CODE	4,572,619			D018-43 CODE W/ AT LEAST ONE LISTED CODE	7,402,042
		HAS F CODE	1,076,047	F WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	6,242,739
		HAS K CODE	1,055,102	K WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	3,981,147
		HAS P CODE	59,799	P WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	1,251,590
		HAS U CODE	116,065	U WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	2,920,793
TOTAL	10,050,155	TOTAL	1,093,055	TOTAL	8,632,382

¹Listed 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.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 1.9 Fifty Largest Quantities of Hazardous Waste Generated, by Primary NAICS Code in the U.S., 2009

Rank	NAICS Code	Description	Tons Generated
1	3251	BASIC CHEMICAL MANUFACTURING	19,197,306
2	3241	PETROLEUM AND COAL PRODUCTS MANUFACTURING	6,951,513
3	5622	WASTE TREATMENT AND DISPOSAL	3,046,305
4	3311	IRON AND STEEL MILLS AND FERROALLOY MANUFACTURING	1,094,949
5	3344	SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING	870,650
6	3314	NONFERROUS METAL (EXCEPT ALUMINUM) PRODUCTION AND PROCESSING	824,795
7	5629	REMEDIATION AND OTHER WASTE MANAGEMENT SERVICES	475,569
8	3254	PHARMACEUTICAL AND MEDICINE MANUFACTURING	241,790
9	3252	RESIN, SYNTHETIC RUBBER, AND ARTIFICIAL SYNTHETIC FIBERS AND FILAMENTS	229,575
10	3328	COATING, ENGRAVING, HEAT TREATING, AND ALLIED ACTIVITIES	223,954
11	3253	PESTICIDE, FERTILIZER, AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING	212,369
12	3259	OTHER CHEMICAL PRODUCT AND PREPARATION MANUFACTURING	188,351
13	9281	NATIONAL SECURITY AND INTERNATIONAL AFFAIRS	148,012
14	5621	WASTE COLLECTION	133,080
15	3359	OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING	131,630
16	3255	PAINT, COATING, AND ADHESIVE MANUFACTURING	131,414
17	4931	WAREHOUSING AND STORAGE	87,576
18	3313	ALUMINA AND ALUMINUM PRODUCTION AND PROCESSING	81,031
19	4239	MISCELLANEOUS DURABLE GOODS MERCHANT WHOLESALERS	79,456
20	3329	OTHER FABRICATED METAL PRODUCT MANUFACTURING	67,062
21	3312	STEEL PRODUCT MANUFACTURING FROM PURCHASED STEEL	60,149
22	3364	AEROSPACE PRODUCT AND PARTS MANUFACTURING	52,522
23	3261	PLASTICS PRODUCT MANUFACTURING	51,304
24	3273	CEMENT AND CONCRETE PRODUCT MANUFACTURING	47,526
25	2361	RESIDENTIAL BUILDING CONSTRUCTION	38,990
26	3111	ANIMAL FOOD MANUFACTURING	36,127
27	4543	DIRECT SELLING ESTABLISHMENTS	29,526
28	3256	SOAP, CLEANING COMPOUND, AND TOILET PREPARATION MANUFACTURING	26,392
29	2211	ELECTRIC POWER GENERATION, TRANSMISSION AND DISTRIBUTION	26,050
30	3315	FOUNDRIES	21,052
31	3231	PRINTING AND RELATED SUPPORT ACTIVITIES	20,145
32	5417	SCIENTIFIC RESEARCH AND DEVELOPMENT SERVICES	20,000
33	3363	MOTOR VEHICLE PARTS MANUFACTURING	19,485
34	3361	MOTOR VEHICLE MANUFACTURING	19,072
35	3211	SAWMILLS AND WOOD PRESERVATION	18,319
36	5312	OFFICES OF REAL ESTATE AGENTS AND BROKERS	17,371
37	9241	ADMINISTRATION OF ENVIRONMENTAL QUALITY PROGRAMS	17,273
38	3339	OTHER GENERAL PURPOSE MACHINERY MANUFACTURING	16,218
39	3323	ARCHITECTURAL AND STRUCTURAL METALS MANUFACTURING	13,358
40	3222	CONVERTED PAPER PRODUCT MANUFACTURING	13,085
41	3345	NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS MA	12,879
42	3399	OTHER MISCELLANEOUS MANUFACTURING	12,776
43	4247	PETROLEUM AND PETROLEUM PRODUCTS MERCHANT WHOLESALERS	12,336
44	4246	CHEMICAL AND ALLIED PRODUCTS MERCHANT WHOLESALERS	11,434
45	6113	COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS	10,021
46	2213	WATER, SEWAGE AND OTHER SYSTEMS	9,694
47	5311	LESSORS OF REAL ESTATE	9,024
48	3371	HOUSEHOLD AND INSTITUTIONAL FURNITURE AND KITCHEN CABINET MANUFACTU	8,455
49	3321	FORGING AND STAMPING	8,433
50	4883	SUPPORT ACTIVITIES FOR WATER TRANSPORTATION	7,393
Total			35,082,797

Note: Column may not sum due to rounding

US EPA ARCHIVE DOCUMENT

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 2.1 Quantity of RCRA Hazardous Waste Managed and Number of RCRA Management Facilities, by State, 2009

State	Hazardous Waste Quantity			Number of Facilities			Reported Status	
	Rank	Tons Managed	Percentage	Rank	Number	Percentage	TSDf	Non-TSDf
ALABAMA	4	2,303,695	6.0	17	29	2.3	12	17
ALASKA	45	641	0.0	40	4	0.3	2	2
ARIZONA	39	18,290	0.0	37	6	0.5	4	2
ARKANSAS	13	550,868	1.4	20	23	1.8	7	16
CALIFORNIA	10	995,851	2.6	2	97	7.7	49	48
COLORADO	29	88,573	0.2	31	12	1.0	4	8
CONNECTICUT	40	7,919	0.0	30	13	1.0	7	6
DELAWARE	46	323	0.0	40	4	0.3	1	3
DISTRICT OF COLUMBIA	52	0	0.0	52	0	0.0	0	0
FLORIDA	11	923,299	2.4	13	33	2.6	14	19
GEORGIA	2	4,556,951	11.8	13	33	2.6	12	21
GUAM	50	5	0.0	48	2	0.2	2	0
HAWAII	48	163	0.0	50	1	0.1	1	0
IDAHO	18	336,448	0.9	48	2	0.2	2	0
ILLINOIS	7	1,036,672	2.7	23	21	1.7	14	7
INDIANA	12	912,041	2.4	12	35	2.8	13	22
IOWA	44	986	0.0	28	14	1.1	4	10
KANSAS	8	1,016,664	2.6	25	19	1.5	7	12
KENTUCKY	23	185,039	0.5	13	33	2.6	7	26
LOUISIANA	3	3,821,360	9.9	13	33	2.6	18	15
MAINE	47	255	0.0	28	14	1.1	1	13
MARYLAND	35	31,746	0.1	37	6	0.5	5	1
MASSACHUSETTS	38	19,017	0.0	24	20	1.6	2	18
MICHIGAN	17	394,235	1.0	26	15	1.2	11	4
MINNESOTA	19	322,570	0.8	10	39	3.1	11	28
MISSISSIPPI	5	1,915,909	5.0	34	8	0.6	4	4
MISSOURI	20	311,939	0.8	17	29	2.3	13	16
MONTANA	33	32,144	0.1	44	3	0.2	1	2
NAVAJO NATION	52	0	0.0	52	0	0.0	0	0
NEBRASKA	34	31,781	0.1	34	8	0.6	2	6
NEVADA	30	60,785	0.2	40	4	0.3	4	0
NEW HAMPSHIRE	52	0	0.0	52	0	0.0	0	0
NEW JERSEY	16	486,419	1.3	9	40	3.2	10	30
NEW MEXICO	31	39,271	0.1	32	11	0.9	8	3
NEW YORK	9	997,824	2.6	5	65	5.2	12	53
NORTH CAROLINA	37	19,612	0.1	11	38	3.0	12	26
NORTH DAKOTA	14	529,672	1.4	44	3	0.2	3	0
OHIO	6	1,430,527	3.7	6	53	4.2	25	28
OKLAHOMA	27	99,395	0.3	20	23	1.8	9	14
OREGON	28	98,720	0.3	20	23	1.8	2	21
PENNSYLVANIA	15	492,482	1.3	7	44	3.5	25	19
PUERTO RICO	42	1,652	0.0	44	3	0.2	3	0
RHODE ISLAND	43	1,640	0.0	40	4	0.3	1	3
SOUTH CAROLINA	24	143,238	0.4	34	8	0.6	8	0
SOUTH DAKOTA	49	11	0.0	44	3	0.2	0	3
TENNESSEE	36	22,127	0.1	3	85	6.8	11	74
TEXAS	1	13,543,978	35.1	1	110	8.8	47	63
TRUST TERRITORIES	52	0	0.0	52	0	0.0	0	0
UTAH	26	111,659	0.3	26	15	1.2	12	3
VERMONT	21	289,946	0.8	37	6	0.5	2	4
VIRGIN ISLANDS	51	2	0.0	50	1	0.1	1	0
VIRGINIA	41	6,973	0.0	19	24	1.9	9	15
WASHINGTON	22	251,601	0.7	4	82	6.5	9	73
WEST VIRGINIA	32	32,794	0.1	33	10	0.8	6	4
WISCONSIN	25	126,522	0.3	8	43	3.4	11	32
WYOMING	52	0	0.0	52	0	0.0	0	0
Total		38,602,232	100.0		1,254	100.0	460	794

Notes: Columns may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 2.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Managed and Number of RCRA Management Facilities, 2009

State	Hazardous Waste Quantity			Number of Facilities			Reported Status	
	Rank	Tons Managed	Percentage	Rank	Number	Percentage	TSDF	Non-TSDF
TEXAS	1	13,543,978	35.1	1	110	8.8	47	63
GEORGIA	2	4,556,951	11.8	13	33	2.6	12	21
LOUISIANA	3	3,821,360	9.9	13	33	2.6	18	15
ALABAMA	4	2,303,695	6.0	17	29	2.3	12	17
MISSISSIPPI	5	1,915,909	5.0	34	8	0.6	4	4
OHIO	6	1,430,527	3.7	6	53	4.2	25	28
ILLINOIS	7	1,036,672	2.7	23	21	1.7	14	7
KANSAS	8	1,016,664	2.6	25	19	1.5	7	12
NEW YORK	9	997,824	2.6	5	65	5.2	12	53
CALIFORNIA	10	995,851	2.6	2	97	7.7	49	48
FLORIDA	11	923,299	2.4	13	33	2.6	14	19
INDIANA	12	912,041	2.4	12	35	2.8	13	22
ARKANSAS	13	550,868	1.4	20	23	1.8	7	16
NORTH DAKOTA	14	529,672	1.4	44	3	0.2	3	0
PENNSYLVANIA	15	492,482	1.3	7	44	3.5	25	19
NEW JERSEY	16	486,419	1.3	9	40	3.2	10	30
MICHIGAN	17	394,235	1.0	26	15	1.2	11	4
IDAHO	18	336,448	0.9	48	2	0.2	2	0
MINNESOTA	19	322,570	0.8	10	39	3.1	11	28
MISSOURI	20	311,939	0.8	17	29	2.3	13	16
VERMONT	21	289,946	0.8	37	6	0.5	2	4
WASHINGTON	22	251,601	0.7	4	82	6.5	9	73
KENTUCKY	23	185,039	0.5	13	33	2.6	7	26
SOUTH CAROLINA	24	143,238	0.4	34	8	0.6	8	0
WISCONSIN	25	126,522	0.3	8	43	3.4	11	32
UTAH	26	111,659	0.3	26	15	1.2	12	3
OKLAHOMA	27	99,395	0.3	20	23	1.8	9	14
OREGON	28	98,720	0.3	20	23	1.8	2	21
COLORADO	29	88,573	0.2	31	12	1.0	4	8
NEVADA	30	60,785	0.2	40	4	0.3	4	0
NEW MEXICO	31	39,271	0.1	32	11	0.9	8	3
WEST VIRGINIA	32	32,794	0.1	33	10	0.8	6	4
MONTANA	33	32,144	0.1	44	3	0.2	1	2
NEBRASKA	34	31,781	0.1	34	8	0.6	2	6
MARYLAND	35	31,746	0.1	37	6	0.5	5	1
TENNESSEE	36	22,127	0.1	3	85	6.8	11	74
NORTH CAROLINA	37	19,612	0.1	11	38	3.0	12	26
MASSACHUSETTS	38	19,017	0.0	24	20	1.6	2	18
ARIZONA	39	18,290	0.0	37	6	0.5	4	2
CONNECTICUT	40	7,919	0.0	30	13	1.0	7	6
VIRGINIA	41	6,973	0.0	19	24	1.9	9	15
PUERTO RICO	42	1,652	0.0	44	3	0.2	3	0
RHODE ISLAND	43	1,640	0.0	40	4	0.3	1	3
IOWA	44	986	0.0	28	14	1.1	4	10
ALASKA	45	641	0.0	40	4	0.3	2	2
DELAWARE	46	323	0.0	40	4	0.3	1	3
MAINE	47	255	0.0	28	14	1.1	1	13
HAWAII	48	163	0.0	50	1	0.1	1	0
SOUTH DAKOTA	49	11	0.0	44	3	0.2	0	3
GUAM	50	5	0.0	48	2	0.2	2	0
VIRGIN ISLANDS	51	2	0.0	50	1	0.1	1	0
DISTRICT OF COLUMBIA	52	0	0.0	52	0	0.0	0	0
NAVAJO NATION	52	0	0.0	52	0	0.0	0	0
NEW HAMPSHIRE	52	0	0.0	52	0	0.0	0	0
TRUST TERRITORIES	52	0	0.0	52	0	0.0	0	0
WYOMING	52	0	0.0	52	0	0.0	0	0
Total		38,602,232	100.0		1,254	100.0	460	794

Notes: Columns may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 2.3 Rank Ordering of States Based on Number of RCRA Management Facilities and Quantity of RCRA Hazardous Waste Managed, 2009

State	Number of Facilities			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Managed	Percentage	TSDf	Non-TSDf
TEXAS	1	110	8.8	1	13,543,978	35.1	47	63
CALIFORNIA	2	97	7.7	10	995,851	2.6	49	48
TENNESSEE	3	85	6.8	36	22,127	0.1	11	74
WASHINGTON	4	82	6.5	22	251,601	0.7	9	73
NEW YORK	5	65	5.2	9	997,824	2.6	12	53
OHIO	6	53	4.2	6	1,430,527	3.7	25	28
PENNSYLVANIA	7	44	3.5	15	492,482	1.3	25	19
WISCONSIN	8	43	3.4	25	126,522	0.3	11	32
NEW JERSEY	9	40	3.2	16	486,419	1.3	10	30
MINNESOTA	10	39	3.1	19	322,570	0.8	11	28
NORTH CAROLINA	11	38	3.0	37	19,612	0.1	12	26
INDIANA	12	35	2.8	12	912,041	2.4	13	22
FLORIDA	13	33	2.6	11	923,299	2.4	14	19
GEORGIA	13	33	2.6	2	4,556,951	11.8	12	21
KENTUCKY	13	33	2.6	23	185,039	0.5	7	26
LOUISIANA	13	33	2.6	3	3,821,360	9.9	18	15
ALABAMA	17	29	2.3	4	2,303,695	6.0	12	17
MISSOURI	17	29	2.3	20	311,939	0.8	13	16
VIRGINIA	19	24	1.9	41	6,973	0.0	9	15
ARKANSAS	20	23	1.8	13	550,868	1.4	7	16
OKLAHOMA	20	23	1.8	27	99,395	0.3	9	14
OREGON	20	23	1.8	28	98,720	0.3	2	21
ILLINOIS	23	21	1.7	7	1,036,672	2.7	14	7
MASSACHUSETTS	24	20	1.6	38	19,017	0.0	2	18
KANSAS	25	19	1.5	8	1,016,664	2.6	7	12
MICHIGAN	26	15	1.2	17	394,235	1.0	11	4
UTAH	26	15	1.2	26	111,659	0.3	12	3
IOWA	28	14	1.1	44	986	0.0	4	10
MAINE	28	14	1.1	47	255	0.0	1	13
CONNECTICUT	30	13	1.0	40	7,919	0.0	7	6
COLORADO	31	12	1.0	29	88,573	0.2	4	8
NEW MEXICO	32	11	0.9	31	39,271	0.1	8	3
WEST VIRGINIA	33	10	0.8	32	32,794	0.1	6	4
MISSISSIPPI	34	8	0.6	5	1,915,909	5.0	4	4
NEBRASKA	34	8	0.6	34	31,781	0.1	2	6
SOUTH CAROLINA	34	8	0.6	24	143,238	0.4	8	0
ARIZONA	37	6	0.5	39	18,290	0.0	4	2
MARYLAND	37	6	0.5	35	31,746	0.1	5	1
VERMONT	37	6	0.5	21	289,946	0.8	2	4
ALASKA	40	4	0.3	45	641	0.0	2	2
DELAWARE	40	4	0.3	46	323	0.0	1	3
NEVADA	40	4	0.3	30	60,785	0.2	4	0
RHODE ISLAND	40	4	0.3	43	1,640	0.0	1	3
MONTANA	44	3	0.2	33	32,144	0.1	1	2
NORTH DAKOTA	44	3	0.2	14	529,672	1.4	3	0
PUERTO RICO	44	3	0.2	42	1,652	0.0	3	0
SOUTH DAKOTA	44	3	0.2	49	11	0.0	0	3
GUAM	48	2	0.2	50	5	0.0	2	0
IDAHO	48	2	0.2	18	336,448	0.9	2	0
HAWAII	50	1	0.1	48	163	0.0	1	0
VIRGIN ISLANDS	50	1	0.1	51	2	0.0	1	0
DISTRICT OF COLUMBIA	52	0	0.0	52	0	0.0	0	0
NAVAJO NATION	52	0	0.0	52	0	0.0	0	0
NEW HAMPSHIRE	52	0	0.0	52	0	0.0	0	0
TRUST TERRITORIES	52	0	0.0	52	0	0.0	0	0
WYOMING	52	0	0.0	52	0	0.0	0	0
Total		1,254	100.0		38,602,232	100.0	460	794

Notes: Columns may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 2.4 Fifty Largest RCRA Hazardous Waste Managers in the U.S., 2009

Rank	EPA ID	Name	City	Tons Managed ¹
1	GAD051011609	DSM CHEMICALS NORTH AMERICA INC	AUGUSTA, GA	3,787,784
2	TXD001700806	SOLUTIA INC	ALVIN, TX	3,560,473
3	TXD008080533	BP PRODUCTS NORTH AMERICA INC	TEXAS CITY, TX	2,072,651
4	LAD008175390	CYTEC INDUSTRIES INC.	WAGGAMAN, LA	1,831,978
5	TXD059685339	DIAMOND SHAMROCK REFINING COMPANY LP	SUNRAY, TX	1,733,598
6	MSD096046792	E.I. DU PONT DE NEMOURS AND CO	PASS CHRISTIAN, MS	1,638,595
7	LAD008213191	RUBICON LLC	GEISMAR, LA	1,561,094
8	TXR000076828	EXXONMOBIL CORPORATION 9916	PASADENA, TX	1,148,089
9	ALD004009320	HUNT REFINING COMPANY	TUSCALOOSA, AL	1,141,780
10	TXD000751172	INEOS USA LLC	PORT LAVACA, TX	875,636
11	TXR000057968	INVISTA SARL	VICTORIA, TX	846,412
12	KSD007482029	OCCIDENTAL CHEMICAL CORPORATION	WICHITA, KS	815,541
13	OHD042157644	INEOS USA LLC	LIMA, OH	799,039
14	NYD000707901	IBM CORPORATION - EAST FISHKILL FACILITY	HOPEWELL JUNCTION, NY	798,331
15	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW, TX	700,581
16	GAD040690737	OLIN CORPORATION	AUGUSTA, GA	598,859
17	NDD006175467	TESORO REFINING AND MARKETING COMPANY	MANDAN, ND	529,593
18	ILD042075333	CABOT CORP	TUSCOLA, IL	472,405
19	TXD008081697	BASF CORPORATION	FREEMPORT, TX	471,791
20	FLD008155673	AIR PRODUCTS AND CHEMICALS INC	PACE, FL	469,095
21	ALD062464748	UOP LLC A HONEYWELL COMPANY	CHICKASAW, AL	410,795
22	IND003913423	ARCELORMITTAL BURNS HARBOR, LLC	BURNS HARBOR, IN	408,040
23	CAT000646117	CHEMICAL WASTE MANAGEMENT, INC.	KETTLEMAN CITY, CA	358,587
24	IDD073114654	US ECOLOGY IDAHO INC SITE B	GRAND VIEW, ID	335,216
25	ALD046481032	SANDERS LEAD COMPANY, INC.	TROY, AL	323,467
26	TXD000838896	VEOLIA ES TECHNICAL SOLUTIONS LLC	PORT ARTHUR, TX	316,463
27	TXD008081101	E I DU PONT DE NEMOURS AND COMPANY	BEAUMONT, TX	294,715
28	VTD002084705	IBM CORPORATION	ESSEX JUNCTION, VT	289,436
29	MND006148092	GOPHER RESOURCE CORPORATION	EAGAN, MN	278,579
30	TXD008106999	MERISOL USA LLC	HOUSTON, TX	233,057
31	CAD980675276	CLEAN HARBORS BUTTONWILLOW, LLC	BUTTONWILLOW, CA	225,289
32	WA7890008967	US DEPT OF ENERGY HANFORD FACILITY	RICHLAND, WA	219,488
33	FLD980799050	FAIRBANKS DISPOSAL PIT	GAINESVILLE, FL	218,043
34	PAD002395887	HORSEHEAD CORP	PALMERTON, PA	199,380
35	NJD991291105	CLEAN EARTH OF NORTH JERSEY	SOUTH KEARNY, NJ	195,368
36	TXD069452340	US ECOLOGY TEXAS INC	ROBSTOWN, TX	186,640
37	ARD981512270	ASH GROVE CEMENT COMPANY	FOREMAN, AR	178,929
38	TXD000719518	TM DEER PARK SERVICES LIMITED PARTNERSHI	DEER PARK, TX	178,109
39	ARD006354161	REYNOLDS METALS COMPANY GUM SPRINGS PLA	ARKADELPHIA, AR	172,932
40	MID000724831	MICHIGAN DISPOSAL INC	BELLEVILLE, MI	161,172
41	ILD040891368	HORSEHEAD CORP	CHICAGO, IL	160,315
42	TXD087491973	ASARCO LLC	AMARILLO, TX	153,797
43	MSD008183519	FERNWOOD INDUSTRIES, L.L.C.	FERNWOOD, MS	148,750
44	TXD055141378	CLEAN HARBORS DEER PARK LP	LA PORTE, TX	144,016
45	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA, IL	139,281
46	MOD050226075	BASF CORPORATION - HANNIBAL PLANT	PALMYRA, MO	136,825
47	ILD984828558	WOOD RIVER WWTP	WOOD RIVER, IL	133,122
48	FLR000068007	K.C. INDUSTRIES, L.L.C., MULBERRY, FLORI	MULBERRY, FL	131,920
49	ALD008185407	HUXFORD POLE & TIMBER CO., INC.	HUXFORD, AL	122,421
50	NYD030485288	REVERE SMELTING AND REFINING CORP.	MIDDLETOWN, NY	120,258
Total				32,427,731

¹Quantity managed by storage-only is excluded.

Note: Columns may not sum due to rounding.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 2.5 Quantity of RCRA Hazardous Waste Managed, by Management Method, 2009

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
AQUEOUS INORGANIC TREATMENT	1,242,332	3.2	116	9.3
AQUEOUS ORGANIC TREATMENT	5,405,071	14.0	44	3.5
DEEPWELL OR UNDERGROUND INJECTION	19,672,985	51.0	42	3.3
ENERGY RECOVERY	1,427,666	3.7	83	6.6
FUEL BLENDING	607,185	1.6	141	11.2
INCINERATION	906,924	2.3	126	10.0
LAND TREATMENT/APPLICATION/FARMING	10,527	0.0	13	1.0
LANDFILL/SURFACE IMPOUNDMENT	2,021,439	5.2	71	5.7
METALS RECOVERY	1,229,269	3.2	119	9.5
OTHER DISPOSAL	2,450,348	6.3	93	7.4
OTHER RECOVERY	335,104	0.9	82	6.5
OTHER TREATMENT	2,136,450	5.5	311	24.8
SLUDGE TREATMENT	310,843	0.8	35	2.8
SOLVENTS RECOVERY	237,334	0.6	415	33.1
STABILIZATION	608,756	1.6	118	9.4
Total	38,602,232	100.0	1254	

Exhibit 2.6 Management Method, by Quantity of RCRA Hazardous Waste Managed, 2009

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
DEEPWELL OR UNDERGROUND INJECTION	19,672,985	51.0	42	3.3
AQUEOUS ORGANIC TREATMENT	5,405,071	14.0	44	3.5
OTHER DISPOSAL	2,450,348	6.3	93	7.4
OTHER TREATMENT	2,136,450	5.5	311	24.8
LANDFILL/SURFACE IMPOUNDMENT	2,021,439	5.2	71	5.7
ENERGY RECOVERY	1,427,666	3.7	83	6.6
AQUEOUS INORGANIC TREATMENT	1,242,332	3.2	116	9.3
METALS RECOVERY	1,229,269	3.2	119	9.5
INCINERATION	906,924	2.3	126	10.0
STABILIZATION	608,756	1.6	118	9.4
FUEL BLENDING	607,185	1.6	141	11.2
OTHER RECOVERY	335,104	0.9	82	6.5
SLUDGE TREATMENT	310,843	0.8	35	2.8
SOLVENTS RECOVERY	237,334	0.6	415	33.1
LAND TREATMENT/APPLICATION/FARMING	10,527	0.0	13	1.0
Total	38,602,232	100.0	1254	

Exhibit 2.7 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, 2009

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
SOLVENTS RECOVERY	237,334	0.6	415	33.1
OTHER TREATMENT	2,136,450	5.5	311	24.8
FUEL BLENDING	607,185	1.6	141	11.2
INCINERATION	906,924	2.3	126	10.0
METALS RECOVERY	1,229,269	3.2	119	9.5
STABILIZATION	608,756	1.6	118	9.4
AQUEOUS INORGANIC TREATMENT	1,242,332	3.2	116	9.3
OTHER DISPOSAL	2,450,348	6.3	93	7.4
ENERGY RECOVERY	1,427,666	3.7	83	6.6
OTHER RECOVERY	335,104	0.9	82	6.5
LANDFILL/SURFACE IMPOUNDMENT	2,021,439	5.2	71	5.7
AQUEOUS ORGANIC TREATMENT	5,405,071	14.0	44	3.5
DEEPWELL OR UNDERGROUND INJECTION	19,672,985	51.0	42	3.3
SLUDGE TREATMENT	310,843	0.8	35	2.8
LAND TREATMENT/APPLICATION/FARMING	10,527	0.0	13	1.0
Total	38,602,232	100.0	1254	

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

Note: Columns for these exhibits may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.1 Quantity of RCRA Hazardous Waste Shipped and Number of Hazardous Waste Shippers, by State, 2009

State	Hazardous Waste Quantity			Number of Shippers			Reported Status	
	Rank	Tons Shipped	Percentage	Rank	Number	Percentage	LQG	Non-LQG
ALABAMA	12	166,576	2.7	23	234	1.4	223	11
ALASKA	50	1,302	0.0	44	37	0.2	20	17
ARIZONA	38	18,028	0.3	27	174	1.1	171	3
ARKANSAS	7	235,293	3.8	31	142	0.9	124	18
CALIFORNIA	1	828,496	13.5	1	2,584	16.0	2,582	2
COLORADO	32	31,567	0.5	33	125	0.8	106	19
CONNECTICUT	35	27,243	0.4	17	279	1.7	272	7
DELAWARE	37	19,531	0.3	42	54	0.3	45	9
DISTRICT OF COLUMBIA	53	870	0.0	51	23	0.1	23	0
FLORIDA	33	31,286	0.5	15	323	2.0	271	52
GEORGIA	18	90,224	1.5	16	317	2.0	284	33
GUAM	54	393	0.0	52	15	0.1	15	0
HAWAII	52	962	0.0	47	31	0.2	22	9
IDAHO	41	8,337	0.1	45	35	0.2	18	17
ILLINOIS	11	182,667	3.0	5	814	5.0	607	207
INDIANA	6	313,119	5.1	10	485	3.0	485	0
IOWA	30	40,053	0.7	30	151	0.9	121	30
KANSAS	15	111,116	1.8	25	189	1.2	153	36
KENTUCKY	13	162,287	2.6	22	252	1.6	251	1
LOUISIANA	4	527,664	8.6	14	356	2.2	329	27
MAINE	45	3,682	0.1	41	66	0.4	62	4
MARYLAND	28	41,992	0.7	35	112	0.7	107	5
MASSACHUSETTS	29	41,500	0.7	13	414	2.6	369	45
MICHIGAN	10	189,134	3.1	8	582	3.6	444	138
MINNESOTA	31	34,525	0.6	20	260	1.6	211	49
MISSISSIPPI	23	63,353	1.0	34	116	0.7	115	1
MISSOURI	21	69,546	1.1	21	259	1.6	231	28
MONTANA	42	6,295	0.1	48	30	0.2	30	0
NAVAJO NATION	55	38	0.0	54	2	0.0	2	0
NEBRASKA	34	31,161	0.5	39	74	0.5	52	22
NEVADA	39	17,167	0.3	37	93	0.6	93	0
NEW HAMPSHIRE	44	4,538	0.1	28	167	1.0	99	68
NEW JERSEY	3	546,537	8.9	7	637	3.9	561	76
NEW MEXICO	43	6,202	0.1	45	35	0.2	32	3
NEW YORK	8	218,758	3.6	2	1,192	7.4	1,192	0
NORTH CAROLINA	20	72,727	1.2	9	540	3.3	493	47
NORTH DAKOTA	51	1,298	0.0	53	13	0.1	12	1
OHIO	5	463,077	7.5	3	893	5.5	722	171
OKLAHOMA	36	25,952	0.4	26	181	1.1	162	19
OREGON	24	51,469	0.8	29	154	1.0	154	0
PENNSYLVANIA	9	210,222	3.4	6	736	4.6	661	75
PUERTO RICO	27	43,194	0.7	36	95	0.6	90	5
RHODE ISLAND	40	9,187	0.1	38	77	0.5	69	8
SOUTH CAROLINA	16	106,681	1.7	24	219	1.4	195	24
SOUTH DAKOTA	49	1,311	0.0	50	24	0.1	24	0
TENNESSEE	26	49,315	0.8	17	279	1.7	279	0
TEXAS	2	581,440	9.5	4	868	5.4	868	0
TRUST TERRITORIES	56	2	0.0	55	1	0.0	1	0
UTAH	19	79,290	1.3	40	69	0.4	69	0
VERMONT	48	2,122	0.0	43	48	0.3	46	2
VIRGIN ISLANDS	47	3,014	0.0	55	1	0.0	1	0
VIRGINIA	25	50,421	0.8	19	266	1.6	228	38
WASHINGTON	17	97,609	1.6	12	416	2.6	412	4
WEST VIRGINIA	22	68,690	1.1	31	142	0.9	93	49
WISCONSIN	14	152,715	2.5	11	466	2.9	354	112
WYOMING	46	3,502	0.1	49	25	0.2	19	6
Total		6,144,681	100.0		16,172	100.0	14,674	1,498

Note: Columns may not sum due to rounding.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Shipped and Number of Hazardous Waste Shippers, 2009

State	Hazardous Waste Quantity			Number of Shippers			Reported Status	
	Rank	Tons Shipped	Percentage	Rank	Number	Percentage	LQG	Non-LQG
CALIFORNIA	1	828,496	13.5	1	2,584	16.0	2,582	2
TEXAS	2	581,440	9.5	4	868	5.4	868	0
NEW JERSEY	3	546,537	8.9	7	637	3.9	561	76
LOUISIANA	4	527,664	8.6	14	356	2.2	329	27
OHIO	5	463,077	7.5	3	893	5.5	722	171
INDIANA	6	313,119	5.1	10	485	3.0	485	0
ARKANSAS	7	235,293	3.8	31	142	0.9	124	18
NEW YORK	8	218,758	3.6	2	1,192	7.4	1,192	0
PENNSYLVANIA	9	210,222	3.4	6	736	4.6	661	75
MICHIGAN	10	189,134	3.1	8	582	3.6	444	138
ILLINOIS	11	182,667	3.0	5	814	5.0	607	207
ALABAMA	12	166,576	2.7	23	234	1.4	223	11
KENTUCKY	13	162,287	2.6	22	252	1.6	251	1
WISCONSIN	14	152,715	2.5	11	466	2.9	354	112
KANSAS	15	111,116	1.8	25	189	1.2	153	36
SOUTH CAROLINA	16	106,681	1.7	24	219	1.4	195	24
WASHINGTON	17	97,609	1.6	12	416	2.6	412	4
GEORGIA	18	90,224	1.5	16	317	2.0	284	33
UTAH	19	79,290	1.3	40	69	0.4	69	0
NORTH CAROLINA	20	72,727	1.2	9	540	3.3	493	47
MISSOURI	21	69,546	1.1	21	259	1.6	231	28
WEST VIRGINIA	22	68,690	1.1	31	142	0.9	93	49
MISSISSIPPI	23	63,353	1.0	34	116	0.7	115	1
OREGON	24	51,469	0.8	29	154	1.0	154	0
VIRGINIA	25	50,421	0.8	19	266	1.6	228	38
TENNESSEE	26	49,315	0.8	17	279	1.7	279	0
PUERTO RICO	27	43,194	0.7	36	95	0.6	90	5
MARYLAND	28	41,992	0.7	35	112	0.7	107	5
MASSACHUSETTS	29	41,500	0.7	13	414	2.6	369	45
IOWA	30	40,053	0.7	30	151	0.9	121	30
MINNESOTA	31	34,525	0.6	20	260	1.6	211	49
COLORADO	32	31,567	0.5	33	125	0.8	106	19
FLORIDA	33	31,286	0.5	15	323	2.0	271	52
NEBRASKA	34	31,161	0.5	39	74	0.5	52	22
CONNECTICUT	35	27,243	0.4	17	279	1.7	272	7
OKLAHOMA	36	25,952	0.4	26	181	1.1	162	19
DELAWARE	37	19,531	0.3	42	54	0.3	45	9
ARIZONA	38	18,028	0.3	27	174	1.1	171	3
NEVADA	39	17,167	0.3	37	93	0.6	93	0
RHODE ISLAND	40	9,187	0.1	38	77	0.5	69	8
IDAHO	41	8,337	0.1	45	35	0.2	18	17
MONTANA	42	6,295	0.1	48	30	0.2	30	0
NEW MEXICO	43	6,202	0.1	45	35	0.2	32	3
NEW HAMPSHIRE	44	4,538	0.1	28	167	1.0	99	68
MAINE	45	3,682	0.1	41	66	0.4	62	4
WYOMING	46	3,502	0.1	49	25	0.2	19	6
VIRGIN ISLANDS	47	3,014	0.0	55	1	0.0	1	0
VERMONT	48	2,122	0.0	43	48	0.3	46	2
SOUTH DAKOTA	49	1,311	0.0	50	24	0.1	24	0
ALASKA	50	1,302	0.0	44	37	0.2	20	17
NORTH DAKOTA	51	1,298	0.0	53	13	0.1	12	1
HAWAII	52	962	0.0	47	31	0.2	22	9
DISTRICT OF COLUMBIA	53	870	0.0	51	23	0.1	23	0
GUAM	54	393	0.0	52	15	0.1	15	0
NAVAJO NATION	55	38	0.0	54	2	0.0	2	0
TRUST TERRITORIES	56	2	0.0	55	1	0.0	1	0
Total		6,144,681	100.0		16,172	100.0	14,674	1,498

Note: Columns may not sum due to rounding.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.3 Rank Ordering of States Based on Number of Hazardous Waste Shippers and Quantity of RCRA Hazardous Waste Shipped, 2009

State	Number of Shippers			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Shipped	Percentage	LQG	Non-LQG
CALIFORNIA	1	2,584	16.0	1	828,496	13.5	2,582	2
NEW YORK	2	1,192	7.4	8	218,758	3.6	1,192	0
OHIO	3	893	5.5	5	463,077	7.5	722	171
TEXAS	4	868	5.4	2	581,440	9.5	868	0
ILLINOIS	5	814	5.0	11	182,667	3.0	607	207
PENNSYLVANIA	6	736	4.6	9	210,222	3.4	661	75
NEW JERSEY	7	637	3.9	3	546,537	8.9	561	76
MICHIGAN	8	582	3.6	10	189,134	3.1	444	138
NORTH CAROLINA	9	540	3.3	20	72,727	1.2	493	47
INDIANA	10	485	3.0	6	313,119	5.1	485	0
WISCONSIN	11	466	2.9	14	152,715	2.5	354	112
WASHINGTON	12	416	2.6	17	97,609	1.6	412	4
MASSACHUSETTS	13	414	2.6	29	41,500	0.7	369	45
LOUISIANA	14	356	2.2	4	527,664	8.6	329	27
FLORIDA	15	323	2.0	33	31,286	0.5	271	52
GEORGIA	16	317	2.0	18	90,224	1.5	284	33
CONNECTICUT	17	279	1.7	35	27,243	0.4	272	7
TENNESSEE	17	279	1.7	26	49,315	0.8	279	0
VIRGINIA	19	266	1.6	25	50,421	0.8	228	38
MINNESOTA	20	260	1.6	31	34,525	0.6	211	49
MISSOURI	21	259	1.6	21	69,546	1.1	231	28
KENTUCKY	22	252	1.6	13	162,287	2.6	251	1
ALABAMA	23	234	1.4	12	166,576	2.7	223	11
SOUTH CAROLINA	24	219	1.4	16	106,681	1.7	195	24
KANSAS	25	189	1.2	15	111,116	1.8	153	36
OKLAHOMA	26	181	1.1	36	25,952	0.4	162	19
ARIZONA	27	174	1.1	38	18,028	0.3	171	3
NEW HAMPSHIRE	28	167	1.0	44	4,538	0.1	99	68
OREGON	29	154	1.0	24	51,469	0.8	154	0
IOWA	30	151	0.9	30	40,053	0.7	121	30
ARKANSAS	31	142	0.9	7	235,293	3.8	124	18
WEST VIRGINIA	31	142	0.9	22	68,690	1.1	93	49
COLORADO	33	125	0.8	32	31,567	0.5	106	19
MISSISSIPPI	34	116	0.7	23	63,353	1.0	115	1
MARYLAND	35	112	0.7	28	41,992	0.7	107	5
PUERTO RICO	36	95	0.6	27	43,194	0.7	90	5
NEVADA	37	93	0.6	39	17,167	0.3	93	0
RHODE ISLAND	38	77	0.5	40	9,187	0.1	69	8
NEBRASKA	39	74	0.5	34	31,161	0.5	52	22
UTAH	40	69	0.4	19	79,290	1.3	69	0
MAINE	41	66	0.4	45	3,682	0.1	62	4
DELAWARE	42	54	0.3	37	19,531	0.3	45	9
VERMONT	43	48	0.3	48	2,122	0.0	46	2
ALASKA	44	37	0.2	50	1,302	0.0	20	17
IDAHO	45	35	0.2	41	8,337	0.1	18	17
NEW MEXICO	45	35	0.2	43	6,202	0.1	32	3
HAWAII	47	31	0.2	52	962	0.0	22	9
MONTANA	48	30	0.2	42	6,295	0.1	30	0
WYOMING	49	25	0.2	46	3,502	0.1	19	6
SOUTH DAKOTA	50	24	0.1	49	1,311	0.0	24	0
DISTRICT OF COLUMBIA	51	23	0.1	53	870	0.0	23	0
GUAM	52	15	0.1	54	393	0.0	15	0
NORTH DAKOTA	53	13	0.1	51	1,298	0.0	12	1
NAVAJO NATION	54	2	0.0	55	38	0.0	2	0
TRUST TERRITORIES	55	1	0.0	56	2	0.0	1	0
VIRGIN ISLANDS	55	1	0.0	47	3,014	0.0	1	0
Total		16,172	100.0		6,144,681	100.0	14,674	1,498

Note: Columns may not sum due to rounding.

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National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.4 Fifty Largest RCRA Hazardous Waste Shippers in the U.S., 2009

Rank	EPA ID	Name	City	Tons Shipped
1	NJD986581437	425/445 ROUTE 440 PROPERTY LLC	JERSEY CITY, NJ	260,170
2	LAR000057828	EVONIK CYRO LLC	WAGGAMAN, LA	248,411
3	CAD097854541	EXIDE TECHNOLOGIES	VERNON, CA	96,116
4	ARD981057870	RINECO CHEMICAL INDUSTRIES, INC.	BENTON, AR	86,986
5	KSD980633259	SYSTECH ENVIRONMENTAL CORPORATION	FREDONIA, KS	84,144
6	TXD058275769	EQUISTAR CHEMICALS LP	CHANNELVIEW, TX	83,480
7	LAD980622104	HEXION SPECIALTY CHEMICALS INC.	NORCO, LA	81,777
8	IND093219012	HERITAGE ENVIRONMENTAL SERVICES	INDIANAPOLIS, IN	71,003
9	NY0002455756	USEPA REGION II - CONSOLIDATED IRON REMEDI/	NEWBURGH, NY	69,418
10	CAT080029465	ELECTRON PLATING III	GARDEN GROVE, CA	63,200
11	OHD005048947	SYSTECH ENVIRONMENTAL CORP *	PAULDING, OH	54,403
12	CA0001019694	US NAVY BRAC PMO-W (HPS)	SAN FRANCISCO, CA	51,007
13	NJD002454544	VEOLIA ES TECHNICAL SOLUTIONS, L.L.C.	MIDDLESEX, NJ	44,572
14	CAT080025711	ADVANCED ENVIRONMENTAL, INC.	FONTANA, CA	44,046
15	INR000001099	STEEL DYNAMICS, INC. - FLAT ROLL DIVISION	BUTLER, IN	43,432
16	KYD053348108	SAFETY-KLEEN SYSTEMS, INC.	SMITHFIELD, KY	41,841
17	WID000808568	W M W I - OMEGA HILLS LF	GERMANTOWN, WI	41,442
18	LAR000063263	KEMIRA WATER SOLUTIONS INC.	WAGGAMAN, LA	40,812
19	ARD069748192	CLEAN HARBORS EL DORADO, LLC	EL DORADO, AR	37,979
20	CAD059494310	CLEAN HARBORS SAN JOSE, LLC	SAN JOSE, CA	37,005
21	SCD036275626	GIANT RESOURCE RECOVERY SUMTER INC	SUMTER, SC	36,290
22	IND181157009	NUCOR STEEL	CRAWFORDSVILLE, IN	35,184
23	SCR000002006	NUCOR STEEL BERKELEY COUNTY	HUGER, SC	33,602
24	OHD048415665	ROSS INCINERATION SERVICES INC	GRAFTON, OH	33,582
25	IND000646943	POLLUTION CONTROL INDUSTRIES INC	EAST CHICAGO, IN	32,453
26	CAD000632521	BP WEST COAST PRODUCTS LLC - RICHMOND	RICHMOND, CA	29,505
27	CAT080012602	D/K DIXON	DIXON, CA	29,405
28	NJR000066860	VSE CORPORATION C/O THE UNITED STATES GOV	DAYTON, NJ	28,986
29	AR0213820707	PINE BLUFF ARSENAL	PINE BLUFF, AR	28,751
30	NJR000055285	PARK PARCEL CLEARANCE, LLC	WEEHAWKEN, NJ	27,577
31	CAD980887418	EVERGREEN OIL, INC.	NEWARK, CA	27,479
32	OHD093945293	VEOLIA ES TECHNICAL SOLUTIONS LLC	WEST CARROLLTON, OH	26,933
33	CAD981696420	EVERGREEN ENVIRONMENTAL SERVICES, CARSC	CARSON, CA	26,738
34	ARD983278243	NUCOR STEEL - ARKANSAS	BLYTHEVILLE, AR	26,688
35	UT5210090002	DESERET CHEMICAL DEPOT	STOCKTON, UT	26,638
36	GAD051008274	BEKAERT CORPORATION	ROME, GA	26,535
37	CAD050806850	CLEAN HARBORS LOS ANGELES, LLC	LOS ANGELES, CA	26,481
38	WID098547854	W M W I - METRO RECYCLING & DISPOSAL	FRANKLIN, WI	26,430
39	KYR000032045	NORTH AMERICAN STAINLESS	GHENT, KY	26,235
40	MSR000103143	SEVERSTAL COLUMBUS (FORMERLY SEVERCORR	COLUMBUS, MS	25,958
41	WVD005005509	BAYER CROPSCIENCE, LP	INSTITUTE, WV	25,624
42	CAD008302903	VEOLIA ES TECHNICAL SOLUTIONS, L.L.C.	AZUSA, CA	25,624
43	TXD981053770	DURATHERM INC	SAN LEON, TX	25,338
44	NCR000011197	NUCOR STEEL - HERTFORD COUNTY	COFIELD, NC	25,243
45	ALR000006817	NUCOR STEEL DECATUR, LLC	TRINITY, AL	24,779
46	MID000820381	PHARMACIA & UPJOHN COMPANY LLC	PORTAGE, MI	24,740
47	WAD990828642	COLUMBIA GORGE ALUMINUM	GOLDENDALE, WA	24,114
48	OHR000002279	NORTH STAR BLUESCOPE STEEL LLC	DELTA, OH	23,492
49	LAD000777201	CHEMICAL WASTE MANAGEMENT	SULPHUR, LA	22,529
50	NYD002080034	MPM SILICONES, LLC	WATERFORD, NY	21,904
Total				2,406,082

Note: Column may not sum due to rounding

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.5 Quantity of RCRA Hazardous Waste Received and Number of Receivers, by State, 2009

State	Hazardous Waste Quantity			Number of Receivers			Reported Status	
	Rank	Tons Received	Percentage	Rank	Number	Percentage	TSDf	Non-TSDf
ALABAMA	13	220,047	3.0	17	10	1.7	9	1
ALASKA	49	21	0.0	38	3	0.5	1	2
ARIZONA	29	16,227	0.2	25	8	1.4	5	3
ARKANSAS	11	289,101	4.0	28	6	1.0	5	1
CALIFORNIA	1	1,143,359	15.7	2	68	11.5	57	11
COLORADO	24	38,822	0.5	22	9	1.5	8	1
CONNECTICUT	30	13,238	0.2	33	5	0.8	5	0
DELAWARE	46	127	0.0	46	1	0.2	1	0
DISTRICT OF COLUMBIA	50	0	0.0	50	0	0.0	0	0
FLORIDA	33	9,358	0.1	10	16	2.7	16	0
GEORGIA	37	4,999	0.1	22	9	1.5	9	0
GUAM	48	64	0.0	46	1	0.2	1	0
HAWAII	45	166	0.0	46	1	0.2	1	0
IDAHO	10	334,017	4.6	38	3	0.5	3	0
ILLINOIS	5	472,873	6.5	7	19	3.2	15	4
INDIANA	7	367,670	5.0	13	14	2.4	11	3
IOWA	42	695	0.0	33	5	0.8	4	1
KANSAS	14	194,980	2.7	28	6	1.0	6	0
KENTUCKY	21	70,213	1.0	25	8	1.4	6	2
LOUISIANA	4	475,859	6.5	15	11	1.9	9	2
MAINE	44	187	0.0	44	2	0.3	2	0
MARYLAND	25	34,552	0.5	36	4	0.7	3	1
MASSACHUSETTS	31	11,826	0.2	17	10	1.7	8	2
MICHIGAN	9	341,751	4.7	12	15	2.5	15	0
MINNESOTA	12	249,624	3.4	14	13	2.2	11	2
MISSISSIPPI	28	24,416	0.3	44	2	0.3	2	0
MISSOURI	16	143,399	2.0	8	18	3.1	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	27	32,812	0.5	36	4	0.7	3	1
NEVADA	22	62,699	0.9	33	5	0.8	5	0
NEW HAMPSHIRE	50	0	0.0	50	0	0.0	0	0
NEW JERSEY	8	349,684	4.8	10	16	2.7	9	7
NEW MEXICO	36	5,034	0.1	28	6	1.0	6	0
NEW YORK	15	185,930	2.6	6	20	3.4	16	4
NORTH CAROLINA	32	10,741	0.1	8	18	3.1	17	1
NORTH DAKOTA	43	302	0.0	38	3	0.5	3	0
OHIO	3	583,071	8.0	5	21	3.6	21	0
OKLAHOMA	20	82,758	1.1	17	10	1.7	7	3
OREGON	19	88,398	1.2	38	3	0.5	3	0
PENNSYLVANIA	6	442,485	6.1	4	25	4.2	23	2
PUERTO RICO	39	1,592	0.0	38	3	0.5	3	0
RHODE ISLAND	35	6,570	0.1	38	3	0.5	2	1
SOUTH CAROLINA	17	128,632	1.8	28	6	1.0	6	0
SOUTH DAKOTA	47	109	0.0	46	1	0.2	1	0
TENNESSEE	41	1,253	0.0	1	75	12.7	5	70
TEXAS	2	637,881	8.8	3	50	8.5	49	1
TRUST TERRITORIES	50	0	0.0	50	0	0.0	0	0
UTAH	18	111,530	1.5	17	10	1.7	10	0
VERMONT	40	1,254	0.0	27	7	1.2	4	3
VIRGIN ISLANDS	50	0	0.0	50	0	0.0	0	0
VIRGINIA	38	3,625	0.0	17	10	1.7	8	2
WASHINGTON	26	33,629	0.5	22	9	1.5	7	2
WEST VIRGINIA	34	9,254	0.1	28	6	1.0	6	0
WISCONSIN	23	45,825	0.6	15	11	1.9	10	1
WYOMING	50	0	0.0	50	0	0.0	0	0
Total		7,282,658	100.0		589	100.0	454	135

Note: Columns may not sum due to rounding.

US EPA ARCHIVE DOCUMENT

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.6 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Received and Number of Receivers, 2009

State	Hazardous Waste Quantity			Number of Receivers			Reported Status	
	Rank	Tons Received	Percentage	Rank	Number	Percentage	TSDF	Non-TSDF
CALIFORNIA	1	1,143,359	15.7	2	68	11.5	57	11
TEXAS	2	637,881	8.8	3	50	8.5	49	1
OHIO	3	583,071	8.0	5	21	3.6	21	0
LOUISIANA	4	475,859	6.5	15	11	1.9	9	2
ILLINOIS	5	472,873	6.5	7	19	3.2	15	4
PENNSYLVANIA	6	442,485	6.1	4	25	4.2	23	2
INDIANA	7	367,670	5.0	13	14	2.4	11	3
NEW JERSEY	8	349,684	4.8	10	16	2.7	9	7
MICHIGAN	9	341,751	4.7	12	15	2.5	15	0
IDAHO	10	334,017	4.6	38	3	0.5	3	0
ARKANSAS	11	289,101	4.0	28	6	1.0	5	1
MINNESOTA	12	249,624	3.4	14	13	2.2	11	2
ALABAMA	13	220,047	3.0	17	10	1.7	9	1
KANSAS	14	194,980	2.7	28	6	1.0	6	0
NEW YORK	15	185,930	2.6	6	20	3.4	16	4
MISSOURI	16	143,399	2.0	8	18	3.1	17	1
SOUTH CAROLINA	17	128,632	1.8	28	6	1.0	6	0
UTAH	18	111,530	1.5	17	10	1.7	10	0
OREGON	19	88,398	1.2	38	3	0.5	3	0
OKLAHOMA	20	82,758	1.1	17	10	1.7	7	3
KENTUCKY	21	70,213	1.0	25	8	1.4	6	2
NEVADA	22	62,699	0.9	33	5	0.8	5	0
WISCONSIN	23	45,825	0.6	15	11	1.9	10	1
COLORADO	24	38,822	0.5	22	9	1.5	8	1
MARYLAND	25	34,552	0.5	36	4	0.7	3	1
WASHINGTON	26	33,629	0.5	22	9	1.5	7	2
NEBRASKA	27	32,812	0.5	36	4	0.7	3	1
MISSISSIPPI	28	24,416	0.3	44	2	0.3	2	0
ARIZONA	29	16,227	0.2	25	8	1.4	5	3
CONNECTICUT	30	13,238	0.2	33	5	0.8	5	0
MASSACHUSETTS	31	11,826	0.2	17	10	1.7	8	2
NORTH CAROLINA	32	10,741	0.1	8	18	3.1	17	1
FLORIDA	33	9,358	0.1	10	16	2.7	16	0
WEST VIRGINIA	34	9,254	0.1	28	6	1.0	6	0
RHODE ISLAND	35	6,570	0.1	38	3	0.5	2	1
NEW MEXICO	36	5,034	0.1	28	6	1.0	6	0
GEORGIA	37	4,999	0.1	22	9	1.5	9	0
VIRGINIA	38	3,625	0.0	17	10	1.7	8	2
PUERTO RICO	39	1,592	0.0	38	3	0.5	3	0
VERMONT	40	1,254	0.0	27	7	1.2	4	3
TENNESSEE	41	1,253	0.0	1	75	12.7	5	70
IOWA	42	695	0.0	33	5	0.8	4	1
NORTH DAKOTA	43	302	0.0	38	3	0.5	3	0
MAINE	44	187	0.0	44	2	0.3	2	0
HAWAII	45	166	0.0	46	1	0.2	1	0
DELAWARE	46	127	0.0	46	1	0.2	1	0
SOUTH DAKOTA	47	109	0.0	46	1	0.2	1	0
GUAM	48	64	0.0	46	1	0.2	1	0
ALASKA	49	21	0.0	38	3	0.5	1	2
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		7,282,658	100.0		589	100.0	454	135

Note: Columns may not sum due to rounding.

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.7 Rank Ordering of States Based on Number of Receiving Facilities and Quantity of RCRA Hazardous Waste Received, 2009

State	Number of Receivers			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Received	Percentage	TSDF	Non-TSDF
TENNESSEE	1	75	12.7	41	1,253	0.0	5	70
CALIFORNIA	2	68	11.5	1	1,143,359	15.7	57	11
TEXAS	3	50	8.5	2	637,881	8.8	49	1
PENNSYLVANIA	4	25	4.2	6	442,485	6.1	23	2
OHIO	5	21	3.6	3	583,071	8.0	21	0
NEW YORK	6	20	3.4	15	185,930	2.6	16	4
ILLINOIS	7	19	3.2	5	472,873	6.5	15	4
MISSOURI	8	18	3.1	16	143,399	2.0	17	1
NORTH CAROLINA	8	18	3.1	32	10,741	0.1	17	1
FLORIDA	10	16	2.7	33	9,358	0.1	16	0
NEW JERSEY	10	16	2.7	8	349,684	4.8	9	7
MICHIGAN	12	15	2.5	9	341,751	4.7	15	0
INDIANA	13	14	2.4	7	367,670	5.0	11	3
MINNESOTA	14	13	2.2	12	249,624	3.4	11	2
LOUISIANA	15	11	1.9	4	475,859	6.5	9	2
WISCONSIN	15	11	1.9	23	45,825	0.6	10	1
ALABAMA	17	10	1.7	13	220,047	3.0	9	1
MASSACHUSETTS	17	10	1.7	31	11,826	0.2	8	2
OKLAHOMA	17	10	1.7	20	82,758	1.1	7	3
UTAH	17	10	1.7	18	111,530	1.5	10	0
VIRGINIA	17	10	1.7	38	3,625	0.0	8	2
COLORADO	22	9	1.5	24	38,822	0.5	8	1
GEORGIA	22	9	1.5	37	4,999	0.1	9	0
WASHINGTON	22	9	1.5	26	33,629	0.5	7	2
ARIZONA	25	8	1.4	29	16,227	0.2	5	3
KENTUCKY	25	8	1.4	21	70,213	1.0	6	2
VERMONT	27	7	1.2	40	1,254	0.0	4	3
ARKANSAS	28	6	1.0	11	289,101	4.0	5	1
KANSAS	28	6	1.0	14	194,980	2.7	6	0
NEW MEXICO	28	6	1.0	36	5,034	0.1	6	0
SOUTH CAROLINA	28	6	1.0	17	128,632	1.8	6	0
WEST VIRGINIA	28	6	1.0	34	9,254	0.1	6	0
CONNECTICUT	33	5	0.8	30	13,238	0.2	5	0
IOWA	33	5	0.8	42	695	0.0	4	1
NEVADA	33	5	0.8	22	62,699	0.9	5	0
MARYLAND	36	4	0.7	25	34,552	0.5	3	1
NEBRASKA	36	4	0.7	27	32,812	0.5	3	1
ALASKA	38	3	0.5	49	21	0.0	1	2
IDAHO	38	3	0.5	10	334,017	4.6	3	0
NORTH DAKOTA	38	3	0.5	43	302	0.0	3	0
OREGON	38	3	0.5	19	88,398	1.2	3	0
PUERTO RICO	38	3	0.5	39	1,592	0.0	3	0
RHODE ISLAND	38	3	0.5	35	6,570	0.1	2	1
MAINE	44	2	0.3	44	187	0.0	2	0
MISSISSIPPI	44	2	0.3	28	24,416	0.3	2	0
DELAWARE	46	1	0.2	46	127	0.0	1	0
GUAM	46	1	0.2	48	64	0.0	1	0
HAWAII	46	1	0.2	45	166	0.0	1	0
SOUTH DAKOTA	46	1	0.2	47	109	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		589	100.0		7,282,658	100.0	454	135

Note: Columns may not sum due to rounding.

US EPA ARCHIVE DOCUMENT

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.8 Fifty Largest RCRA Hazardous Waste Receivers in the U.S., 2009

Rank	EPA ID	Name	City	Tons Received
1	CAT000646117	CHEMICAL WASTE MANAGEMENT, INC.	KETTLEMAN CITY, CA	357,619
2	IDD073114654	US ECOLOGY IDAHO INC SITE B	GRAND VIEW, ID	333,818
3	LAD008175390	CYTEC INDUSTRIES INC.	WAGGAMAN, LA	289,188
4	MND006148092	GOPHER RESOURCE CORPORATION	EAGAN, MN	228,612
5	CAD980675276	CLEAN HARBORS BUTTONWILLOW, LLC	BUTTONWILLOW, CA	225,307
6	PAD002395887	HORSEHEAD CORP	PALMERTON, PA	198,372
7	TXD000719518	TM DEER PARK SERVICES LIMITED PARTNERSHI	DEER PARK, TX	162,674
8	MID000724831	MICHIGAN DISPOSAL INC	BELLEVILLE, MI	160,426
9	ILD040891368	HORSEHEAD CORP	CHICAGO, IL	160,315
10	ILD984828558	WOOD RIVER WWTP	WOOD RIVER, IL	133,122
11	NJD991291105	CLEAN EARTH OF NORTH JERSEY	SOUTH KEARNY, NJ	126,062
12	NYD030485288	REVERE SMELTING AND REFINING CORP.	MIDDLETOWN, NY	120,242
13	OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	OREGON, OH	108,586
14	TXD055141378	CLEAN HARBORS DEER PARK LP	LA PORTE, TX	105,054
15	IND006419212	GREENCASTLE WDF FACILITY	GREENCASTLE, IN	103,042
16	ALR000042754	STEEL DUST RECYCLING LLC	MILLPORT, AL	102,143
17	ARD981512270	ASH GROVE CEMENT COMPANY	FOREMAN, AR	90,461
18	ORD089452353	CHEMICAL WASTE MANAGEMENT OF THE NW	ARLINGTON, OR	87,408
19	CAD980887418	EVERGREEN OIL, INC.	NEWARK, CA	86,141
20	OHD020273819	VICKERY ENVIRONMENTAL INC	VICKERY, OH	85,850
21	IND093219012	HERITAGE ENVIRONMENTAL SERVICES	INDIANAPOLIS, IN	85,481
22	NJD002385730	DUPONT CHAMBERS WORKS	DEEPWATER, NJ	83,631
23	LAR000042226	SHELL NORCO CHEMICAL PLANT - WEST SITE	NORCO, LA	81,375
24	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW, TX	80,955
25	MOD981127319	LONE STAR INDUSTRIES INC	CAPE GIRARDEAU, MO	78,422
26	ARD981057870	RINECO CHEMICAL INDUSTRIES, INC.	BENTON, AR	77,128
27	KSD007148034	LAFARGE MIDWEST INC	FREDONIA, KS	76,831
28	KSD980633259	SYSTECH ENVIRONMENTAL CORPORATION	FREDONIA, KS	75,808
29	ALD000622464	CHEMICAL WASTE MANGEMENT	EMELLE, AL	75,722
30	LAD000777201	CHEMICAL WASTE MANAGEMENT	SULPHUR, LA	74,282
31	OKD065438376	CLEAN HARBORS LONE MOUNTAIN, LLC	WAYNOKA, OK	74,014
32	IND980503890	HERITAGE ENVIRONMENTAL SERVICES, LLC	ROACHDALE, IN	69,193
33	MID980991566	EQ DETROIT INC	DETROIT, MI	66,891
34	ARD069748192	CLEAN HARBORS EL DORADO, LLC	EL DORADO, AR	66,717
35	PAD004835146	MAX ENVIRONMENTAL - YUKON FACILITY	YUKON, PA	64,474
36	OHD048415665	ROSS INCINERATION SERVICES INC	GRAFTON, OH	62,833
37	UTD991301748	CLEAN HARBORS GRASSY MOUNTAIN, LLC	KNOLLS, UT	61,523
38	OHD980568992	ENVIRITE OF OHIO INC	CANTON, OH	59,488
39	SCD003351699	GIANT CEMENT COMPANY	HARLEYVILLE, SC	56,282
40	ARD006354161	REYNOLDS METALS COMPANY GUM SPRINGS PLA	ARKADELPHIA, AR	54,516
41	OHD987048733	LAFARGE NORTH AMERICA	PAULDING, OH	54,380
42	NVT330010000	US ECOLOGY NEVADA	BEATTY, NV	51,414
43	OHD005048947	SYSTECH ENVIRONMENTAL CORP *	PAULDING, OH	51,231
44	NJD002454544	VEOLIA ES TECHNICAL SOLUTIONS, L.L.C.	MIDDLESEX, NJ	48,387
45	IND005081542	ESSROC CEMENT CORPORATION	LOGANSPOUR, IN	48,270
46	CAT080025711	ADVANCED ENVIRONMENTAL, INC.	FONTANA, CA	45,721
47	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA, IL	45,554
48	TXD069452340	US ECOLOGY TEXAS INC	ROBSTOWN, TX	45,451
49	PAD010154045	ENVIRITE OF PENNSYLVANIA INC	YORK, PA	44,375
50	ILD000666206	ENVIRITE OF ILLINOIS INC	HARVEY, IL	44,036
Total				5,168,821

Note: Column may not sum due to rounding

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 3.9 Quantity of RCRA Hazardous Waste Managed, by Management Method, Limited to Waste Received from Off-Site, 2009

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
AQUEOUS INORGANIC TREATMENT	247,370	3.4	38	6.5
AQUEOUS ORGANIC TREATMENT	185,462	2.5	19	3.2
DEEPWELL OR UNDERGROUND INJECTION	621,678	8.5	12	2.0
ENERGY RECOVERY	779,733	10.7	40	6.8
FUEL BLENDING	518,202	7.1	134	22.8
INCINERATION	471,113	6.5	69	11.7
LAND TREATMENT/APPLICATION/FARMING	1,733	0.0	9	1.5
LANDFILL/SURFACE IMPOUNDMENT	1,725,932	23.7	41	7.0
METALS RECOVERY	960,428	13.2	87	14.8
OTHER DISPOSAL	77,689	1.1	29	4.9
OTHER RECOVERY	251,383	3.5	40	6.8
OTHER TREATMENT	220,116	3.0	92	15.6
SLUDGE TREATMENT	868	0.0	10	1.7
SOLVENTS RECOVERY	155,673	2.1	69	11.7
STABILIZATION	425,063	5.8	70	11.9
STORAGE AND/OR TRANSFER	640,215	8.8	394	66.9
Total	7,282,658	100.0	589	

Exhibit 3.10 Management Method, by Quantity of RCRA Hazardous Waste Managed, Limited to Waste Received from Off-Site, 2009

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
LANDFILL/SURFACE IMPOUNDMENT	1,725,932	23.7	41	7.0
METALS RECOVERY	960,428	13.2	87	14.8
ENERGY RECOVERY	779,733	10.7	40	6.8
STORAGE AND/OR TRANSFER	640,215	8.8	394	66.9
DEEPWELL OR UNDERGROUND INJECTION	621,678	8.5	12	2.0
FUEL BLENDING	518,202	7.1	134	22.8
INCINERATION	471,113	6.5	69	11.7
STABILIZATION	425,063	5.8	70	11.9
OTHER RECOVERY	251,383	3.5	40	6.8
AQUEOUS INORGANIC TREATMENT	247,370	3.4	38	6.5
OTHER TREATMENT	220,116	3.0	92	15.6
AQUEOUS ORGANIC TREATMENT	185,462	2.5	19	3.2
SOLVENTS RECOVERY	155,673	2.1	69	11.7
OTHER DISPOSAL	77,689	1.1	29	4.9
LAND TREATMENT/APPLICATION/FARMING	1,733	0.0	9	1.5
SLUDGE TREATMENT	868	0.0	10	1.7
Total	7,282,658	100.0	589	

Exhibit 3.11 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, Limited to Waste Received from Off-Site, 2009

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities ¹	Percentage of Facilities ¹
STORAGE AND/OR TRANSFER	640,215	8.8	394	66.9
FUEL BLENDING	518,202	7.1	134	22.8
OTHER TREATMENT	220,116	3.0	92	15.6
METALS RECOVERY	960,428	13.2	87	14.8
STABILIZATION	425,063	5.8	70	11.9
INCINERATION	471,113	6.5	69	11.7
SOLVENTS RECOVERY	155,673	2.1	69	11.7
LANDFILL/SURFACE IMPOUNDMENT	1,725,932	23.7	41	7.0
OTHER RECOVERY	251,383	3.5	40	6.8
ENERGY RECOVERY	779,733	10.7	40	6.8
AQUEOUS INORGANIC TREATMENT	247,370	3.4	38	6.5
OTHER DISPOSAL	77,689	1.1	29	4.9
AQUEOUS ORGANIC TREATMENT	185,462	2.5	19	3.2
DEEPWELL OR UNDERGROUND INJECTION	621,678	8.5	12	2.0
SLUDGE TREATMENT	868	0.0	10	1.7
LAND TREATMENT/APPLICATION/FARMING	1,733	0.0	9	1.5
Total	7,282,658	100.0	589	

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

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

National Biennial RCRA Hazardous Waste Report: Based on 2009 Data

Exhibit 4.1 RCRA Hazardous Waste Interstate Shipments and Receipts, by State, 2009

STATE	Interstate Shipments (Tons)	Interstate Receipts (Tons)
ALABAMA	75,447	121,605
ALASKA	1,272	0
ARIZONA	13,800	11,420
ARKANSAS	187,685	217,879
CALIFORNIA	447,734	50,208
COLORADO	20,454	24,645
CONNECTICUT	24,857	8,231
DELAWARE	19,488	81
DISTRICT OF COLUMBIA	870	0
FLORIDA	28,539	2,118
GEORGIA	88,647	2,602
GUAM	354	0
HAWAII	798	1
IDAHO	6,658	332,147
ILLINOIS	98,260	256,750
INDIANA	172,221	223,993
IOWA	39,881	148
KANSAS	24,863	110,491
KENTUCKY	128,133	51,691
LOUISIANA	126,613	70,512
MAINE	3,638	11
MARYLAND	40,381	32,557
MASSACHUSETTS	33,447	3,701
MICHIGAN	107,608	256,814
MINNESOTA	30,214	229,367
MISSISSIPPI	63,036	24,029
MISSOURI	52,539	124,399
MONTANA	6,295	0
NAVAJO NATION	38	0
NEBRASKA	31,083	32,503
NEVADA	5,251	53,666
NEW HAMPSHIRE	4,538	0
NEW JERSEY	407,445	185,976
NEW MEXICO	5,830	4,258
NEW YORK	171,199	160,173
NORTH CAROLINA	68,693	4,806
NORTH DAKOTA	1,277	98
OHIO	194,676	356,197
OKLAHOMA	15,643	72,420
OREGON	34,586	61,852
PENNSYLVANIA	140,219	337,096
PUERTO RICO	41,326	20
RHODE ISLAND	8,717	4,859
SOUTH CAROLINA	70,381	88,928
SOUTH DAKOTA	1,305	39
TENNESSEE	37,577	0
TEXAS	180,910	231,215
TRUST TERRITORIES	2	0
UTAH	18,705	44,541
VERMONT	2,017	891
VIRGIN ISLANDS	3,014	0
VIRGINIA	50,007	995
WASHINGTON	78,499	10,236
WEST VIRGINIA	68,601	9,111
WISCONSIN	66,957	25,283
WYOMING	3,502	0
TOTAL	3,555,726	3,840,567

Note: Columns may not sum due to rounding.

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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

2009 MANAGEMENT METHOD CODES

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2009 MANAGEMENT METHOD CODES

Code	Management Method Code Group	Code	Management Method Code Group
	<u>RECLAMATION AND RECOVERY</u>	H082	Adsorption (as the major component of treatment)
H010	Metals recovery including retorting, smelting, chemical, etc.	H083	Air or steam stripping (as the major component of treatment)
H020	Solvents recovery (distillation, extraction, etc.)	H101	Sludge treatment and/or dewatering (as the major component of treatment; not H071-H075, H077, or H082)
H039	Other recovery or reclamation for reuse including acid regeneration, organics recovery, etc. (specify in comments)	H103	Absorption (as the major component of treatment)
H050	Energy recovery at this site - used as fuel (includes on-site fuel blending before energy recovery)	H111	Stabilization or chemical fixation prior to disposal at another site (as the major component of treatment; not H071-H075, H077, or H082)
H061	Fuel blending prior to energy recovery at another site (waste generated either onsite or received from offsite)	H112	Macro-encapsulation prior to disposal at another site (as the major component of treatment; not H071-H075, H077, or H082)
	<u>DESTRUCTION OR TREATMENT PRIOR TO DISPOSAL AT ANOTHER SITE</u>	H121	Neutralization only (no other treatment)
H040	Incineration - thermal destruction other than use as a fuel (includes any preparation prior to burning)	H122	Evaporation (as the major component of treatment; not reportable as H071-H083)
H071	Chemical reduction with or without precipitation (includes any preparation or final processes for consolidation of residuals)	H123	Settling or clarification (as the major component of treatment; not reportable as H071-H083)
H073	Cyanide destruction with or without precipitation (includes any preparation or final processes for consolidation of residuals)	H124	Phase separation (as the major component of treatment; not reportable as H071-H083)
H075	Chemical oxidation (includes any preparation or final processes for consolidation of residuals)	H129	Other treatment (specify in comments; not reportable as H071-H124)
H076	Wet air oxidation (includes any preparation or final processes for consolidation of residuals)		<u>DISPOSAL</u>
H077	Other chemical precipitation with or without pre-treatment (includes processes for consolidation of residuals)	H131	Land treatment or application (to include any prior treatment and/or stabilization)
H081	Biological treatment with or without precipitation (includes any preparation or final processes for consolidation of residuals)	H132	Landfill or surface impoundment that will be closed as landfill (to include prior treatment and/or stabilization)
		H134	Deepwell or underground injection (with or without treatment)
		H135	Discharge to sewer/POTW or NPDES (with prior storage - with or without treatment)

2009 MANAGEMENT METHOD CODES

Code Management Method Code Group

TRANSFER OFFSITE

H141 The site receiving this waste stored/bulked and transported the waste with no treatment or recovery (H010-H129), fuel blending (H061), or disposal (H131-H135) at that receiving site.

APPENDIX C
2009 FORM CODES

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2009 FORM CODES

Code	Form Code Group	Code	Form Code Group
<u>MIXED MEDIA/DEBRIS/DEVICES</u>			
<i>Waste that is a mixture of organic and inorganic wastes, liquid and solid wastes, or devices that are not easily categorized</i>			
W001	Lab packs from any source not containing acute hazardous waste	W107	Aqueous waste containing cyanides (generally caustic)
W002	Contaminated debris: for example, certain paper, clothing, rags, wood, empty fiber or plastic containers, glass, piping, or other solids	W110	Caustic aqueous waste without cyanides (pH > 12.5)
W004	Lab packs from any source containing acute hazardous waste	W113	Other aqueous waste or wastewaters (fluid but not sludge)
W301	Contaminated soil (usually from spill clean up, demolition, or remediation); see also W512	W117	Waste liquid mercury (metallic)
W309	Batteries, battery parts, cores, casings (Lead-acid or other types)	W119	Other inorganic liquid (specify in comments)
W310	Filters, solid adsorbents, ion exchange resins and spent carbon (usually from production, intermittent processes, or remediation)	<u>ORGANIC LIQUIDS</u>	
W320	Electrical devices (lamps, fluorescent lamps, or thermostats usually containing mercury; CRTs containing lead; etc.)	<i>Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content</i>	
W512	Sediment or lagoon dragout, drilling or other muds (wet or muddy soils); see also W301	W200	Still bottoms in liquid form (fluid but not sludge)
W801	Compressed gases of any type	W202	Concentrated halogenated (e.g., chlorinated) solvent
<u>INORGANIC LIQUIDS</u>		W203	Concentrated non-halogenated (e.g., non-chlorinated) solvent
<i>Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content</i>			
W101	Very dilute aqueous waste containing more than 99% water (land disposal restriction defined wastewater that is not exempt under NPDES or POTW discharge)	W204	Concentrated halogenated/ non-halogenated solvent mixture
W103	Spent concentrated acid (5% or more)	W205	Oil-water emulsion or mixture (fluid but not sludge)
W105	Acidic aqueous wastes less than 5% acid (diluted but pH < 2)	W206	Waste oil
		W209	Paint, ink, lacquer, or varnish (fluid - not dried out or sludge)
		W210	Reactive or polymerizable organic liquids and adhesives (fluid but not sludge)
		W211	Paint thinner or petroleum distillates
		W219	Other organic liquid (specify in comments)

2009 FORM CODES

Code	Form Code Group	Code	Form Code Group
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INORGANIC SOLIDS

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

- W303** Ash (from any type of burning of hazardous waste)
- W304** Slags, drosses, and other solid thermal residues
- W307** Metal scale, filings and scrap (including metal drums)
- W312** Cyanide or metal cyanide bearing solids, salts or chemicals
- W316** Metal salts or chemicals not containing cyanides
- W319** Other inorganic solids (specify in comments)

ORGANIC SOLIDS

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

- W401** Pesticide solids (used or discarded -not contaminated soils - W301)
- W403** Solid resins, plastics or polymerized organics
- W405** Explosives or reactive organic solids
- W409** Other organic solids (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 (not contaminated muds - W512)
- 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 (not contaminated soils - W512)
- W519** Other inorganic sludges (not contaminated muds - W512; specify in comments)

ORGANIC SLUDGES

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

- W603** Oily sludge (not contaminated muds - W512)
- W604** Paint or ink sludges, still bottoms in sludge form (not contaminated muds - W512)
- W606** Resins, tars, polymer or tarry sludge (not contaminated muds - W512)
- W609** Other organic sludge (specify in comments)

APPENDIX D
2009 WASTE CODES

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2009 WASTE CODES

Code	Waste description	Code	Waste description
CHARACTERISTICS OF HAZARDOUS WASTE (SEE 40 CFR 261.24)		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

2009 WASTE CODES

Code	Waste description	Code	Waste description
HAZARDOUS WASTE FROM NONSPECIFIC SOURCES (SEE 40 CFR 261.31)		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.
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.	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.
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.	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.
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.	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.

2009 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.)		

2009 WASTE CODES

Code	Waste description	Code	Waste description
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 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.)		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 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		

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Code	Waste description	Code	Waste description
HAZARDOUS WASTE FROM SPECIFIC SOURCES (SEE 40 CFR 261.32)		K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	K018	Heavy ends from the fractionation column in ethyl chloride production.
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.	K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.
K003	Wastewater treatment sludge from the production of molybdate orange pigments.	K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
K004	Wastewater treatment sludge from the production of zinc yellow pigments.	K021	Aqueous spent antimony catalyst waste from fluoromethane production.
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.
		K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.

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Code	Waste description	Code	Waste description
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	K051	API separator sludge from the petroleum refining industry.
K035	Wastewater treatment sludges generated in the production of creosote.	K052	Tank bottoms (leaded) from the petroleum refining industry.
K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.	K060	Ammonia still lime sludge from coking operations.
K037	Wastewater treatment sludges from the production of disulfoton.	K061	Emission control dust/sludge from the primary production of steel in electric furnaces.
K038	Wastewater from the washing and stripping of phorate production.	K062	Spent pickle liquor from steel finishing operations of plants that produce iron or steel.
K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.	K069	Emission control dust/sludge from secondary lead smelting.
K040	Wastewater treatment sludge from the production of phorate.	K071	Brine purification muds from the mercury cell process in chlorine production, in which separately prepurified brine is not used.
K041	Wastewater treatment sludge from the production of toxaphene.	K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	K083	Distillation bottoms from aniline production.
K043	2,6-dichlorophenol waste from the production of 2,4-D.	K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K044	Wastewater treatment sludges from the manufacturing and processing of explosives.	K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.
K045	Spent carbon from the treatment of wastewater containing explosives.	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.
K046	Wastewater treatment sludges from the manufacturing, formulation, and loading of lead-based initiating compounds.	K087	Decanter tank tar sludge from coking operations.
K047	Pink/red water from TNT operations.	K088	Spent potliners from primary aluminum reduction.
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.	K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.
K049	Slop oil emulsion solids from the petroleum refining industry.	K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.		

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Code	Waste description	Code	Waste description
K095	Distillation bottoms from the production of 1,1,1-trichloroethane.	K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K096	Heavy ends from the heavy ends column 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.
K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.	K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K098	Untreated process wastewater from the production of toxaphene.	K111	Product washwaters from the production of dinitrotoluene via nitration of toluene.
K099	Untreated wastewater from the production of 2,4-D.	K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	K113	Condensed liquid light ends from 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.	K114	Vicinals from the purification of toluenediamine in 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.	K115	Heavy ends from purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K103	Process residues from aniline extraction from the production of aniline.	K116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.
K104	Combined wastewaters generated from nitrobenzene/aniline production.	K117	Wastewater from the reactor vent gas scrubber 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.	K118	Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K106	Wastewater treatment sludge from the mercury cell process in chlorine production.	K123	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salts.
K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	K124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.

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Code	Waste description	Code	Waste description
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.
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).	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-2propynyl n-butylcarbamate.).
K142	Tank storage residues from the production of coke from coal or from the recovery of coke by-products from coal.	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-2propynyl n-butylcarbamate.).
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.	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-2propynyl n-butylcarbamate).
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.	K159	Organics from the treatment of thiocarbamate wastes.
K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.		

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Code	Waste description	Code	Waste description
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).		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.*
K169	Crude oil tank sediment from petroleum refining operations.	K175	Wastewater treatment sludges from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process.*
K170	Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.	K176	Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony metal or crude antimony oxide)
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).	K177	Slag from the production of antimony oxide that is speculatively accumulated or disposed, including slag from the production of intermediates (e.g., antimony metal or crude antimony oxide)
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).	K178	Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process.
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 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	K181	Nonwastewaters from the production of dyes and/or pigments (including nonwastewaters comingled at the point of generation with nonwastewaters from other processes)
			DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUALS, AND SPILL RESIDUES THEREOF B ACUTE HAZARDOUS WASTE (SEE 40 CFR 261.33 FOR AN ALPHABETIZED LISTING)
		P001	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%
		P001	Warfarin, & salts, when present at concentrations greater than 0.3%
		P002	1-Acetyl-2-thiourea
		P002	Acetamide, N-(aminothioxomethyl)-
		P003	2-Propenal
		P003	Acrolein
		P004	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-

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Code	Waste description	Code	Waste description
P004	Aldrin	P036	Dichlorophenylarsine
P005	2-Propen-1-ol	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-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-
P005	Allyl alcohol	P037	Dieldrin
P006	Aluminum phosphide (R,T)	P038	Arsine, diethyl-
P007	3(2H)-Isoxazolone, 5-(aminomethyl)-	P038	Diethylarsine
P007	5-(Aminomethyl)-3-isoxazolol	P039	Disulfoton
P008	4-Aminopyridine	P039	Phosphorodithioic acid, O,O-diethyl S-[2- (ethylthio)ethyl] ester
P008	4-Pyridinamine	P040	O,O-Diethyl O-pyrazinyl phosphorothioate
P009	Ammonium picrate (R)	P040	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
P009	Phenol, 2,4,6-trinitro-, ammonium salt (R)	P041	Diethyl-p-nitrophenyl phosphate
P010	Arsenic acid H3AsO4	P041	Phosphoric acid, diethyl 4-nitrophenyl ester
P011	Arsenic oxide As2O5	P042	1,2-Benzenediol, 4-[1-hydroxy-2- (methylamino)ethyl]-, (R)-
P011	Arsenic pentoxide	P042	Epinephrine
P012	Arsenic oxide As2O3	P043	Diisopropylfluorophosphate (DFP)
P012	Arsenic trioxide	P043	Phosphorofluoric acid, bis(1-methylethyl) ester
P013	Barium cyanide	P044	Dimethoate
P014	Benzenethiol	P044	Phosphorodithioic acid, O,O-dimethyl S-[2- (methylamino)-2-oxoethyl] ester
P014	Thiophenol	P045	2-Butanone, 3,3-dimethyl-1-(methylthio)-, O- [methylamino)carbonyl] oxime
P015	Beryllium powder	P045	Thiofanox
P016	Dichloromethyl ether	P046	alpha,alpha-Dimethylphenethylamine
P016	Methane, oxybis[chloro-	P046	Benzeneethanamine, alpha, alpha-dimethyl-
P017	2-Propanone, 1-bromo-	P047	4,6-Dinitro-o-cresol, & salts
P017	Bromoacetone	P047	Phenol, 2-methyl-4,6-dinitro-, & salts
P018	Brucine	P048	2,4-Dinitrophenol
P018	Strychnidin-10-one, 2,3-dimethoxy-	P048	Phenol, 2,4-dinitro-
P020	Dinoseb	P049	Dithiobiuret
P020	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	P049	Thioimidodicarbonic diamide [(H2N)C(S)]2NH
P021	Calcium cyanide	P050	6,9-Methano-2,4,3- benzodioxathiepin,6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-,3-oxide
P021	Calcium cyanide Ca(CN)2	P050	Endosulfan
P022	Carbon disulfide	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-, (1aalpha, 2beta, 2beta, 3alpha, 6alpha, 6beta, 7beta, 7aalpha)- & metabolites
P023	Acetaldehyde, chloro-	P051	Endrin
P023	Chloroacetaldehyde	P051	Endrin, & metabolites
P024	Benzenamine, 4-chloro-	P054	Aziridine
P024	p-Chloraniline	P054	Ethyleneimine
P026	1-(o-Chlorophenyl)thiourea	P056	Fluorine
P026	Thiourea, (2-chlorophenyl)-	P057	Acetamide, 2-fluoro-
P027	3-Chloropropionitrile	P057	Fluoroacetamide
P027	Propanenitrile, 3-chloro-	P058	Acetic acid, fluoro-, sodium salt
P028	Benzene, (chloromethyl)-	P058	Fluoroacetic acid, sodium salt
P028	Benzyl chloride		
P029	Copper cyanide		
P029	Copper cyanide Cu(CN)		
P030	Cyanides (soluble cyanide salts), not otherwise specified		
P031	Cyanogen		
P031	Ethanedinitrile		
P033	Cyanogen chloride		
P033	Cyanogen chloride (CN)Cl		
P034	2-Cyclohexyl-4,6-dinitrophenol		
P034	Phenol, 2-cyclohexyl-4,6-dinitro-		
P036	Arsonous dichloride, phenyl-		

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Code	Waste description	Code	Waste description
P059	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	P084	Vinylamine, N-methyl-N-nitroso-
P059	Heptachlor	P085	Diphosphoramidate, octamethyl-
P060	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha, 4alpha, 4beta, 5beta, 8beta, 8abeta)-	P085	Octamethylpyrophosphoramidate
P060	Isodrin	P087	Osmium oxide OsO ₄ , (T-4)-
P062	Hexaethyl tetraphosphate	P087	Osmium tetroxide
P062	Tetraphosphoric acid, hexaethyl ester	P088	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
P063	Hydrocyanic acid	P088	Endothall
P063	Hydrogen cyanide	P089	Parathion
P064	Methane, isocyanato-	P089	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester
P064	Methyl isocyanate	P092	Mercury, (acetato-O)phenyl-
P065	Fulminic acid, mercury(2+) salt (R,T)	P092	Phenylmercury acetate
P065	Mercury fulminate (R,T)	P093	Phenylthiourea
P066	Ethanimidothioic acid, N-[[[(methylamino)carbonyl]oxy]-, methyl ester	P093	Thiourea, phenyl-
P066	Methomyl	P094	Phorate
P067	1,2-Propylenimine	P094	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester
P067	Aziridine, 2-methyl-	P095	Carbonic dichloride
P068	Hydrazine, methyl-	P095	Phosgene
P068	Methyl hydrazine	P096	Hydrogen phosphide
P069	2-Methylactonitrile	P096	Phosphine
P069	Propanenitrile, 2-hydroxy-2-methyl-	P097	Famphur
P070	Aldicarb	P097	Phosphorothioic acid O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
P070	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime	P098	Potassium cyanide
P071	Methyl parathion	P098	Potassium cyanide K(CN)
P071	Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester	P099	Argentate (1-), bis(cyano-C)-, potassium
P072	alpha-Naphthylthiourea	P099	Potassium silver cyanide
P072	Thiourea, 1-naphthalenyl-	P101	Ethyl cyanide
P073	Nickel carbonyl	P101	Propanenitrile
P073	Nickel carbonyl Ni(CO) ₄ , (T-4)-	P102	2-Propyn-1-ol
P074	Nickel cyanide	P102	Propargyl alcohol
P074	Nickel cyanide Ni(CN) ₂	P103	Selenourea
P075	Nicotine, & salts	P104	Silver cyanide
P075	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts	P104	Silver cyanide Ag(CN)
P076	Nitric oxide	P105	Sodium azide
P076	Nitrogen oxide NO	P106	Sodium cyanide
P077	Benzenamine, 4-nitro-	P106	Sodium cyanide Na(CN)
P077	p-Nitroaniline	P108	Strychnidin-10-one, & salts
P078	Nitrogen dioxide	P108	Strychnine, & salts
P078	Nitrogen oxide NO ₂	P109	Tetraethyldithiopyrophosphate
P081	1,2,3-Propanetriol, trinitrate (R)	P109	Thiodiphosphoric acid, tetraethyl ester
P081	Nitroglycerine (R)	P110	Plumbane, tetraethyl-
P082	Methanimine, N-methyl-N-nitroso-	P110	Tetraethyl lead
P082	N-Nitrosodimethylamine	P111	Diphosphoric acid, tetraethyl ester
P084	N-Nitrosomethylvinylamine	P111	Tetraethyl pyrophosphate
		P112	Methane, tetranitro- (R)
		P112	Tetranitromethane (R)
		P113	Thallic oxide
		P113	Thallium oxide Tl ₂ O ₃
		P114	Selenious acid, dithallium (1+) salt

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Code	Waste description	Code	Waste description
U006	Acetyl chloride (C,R,T)	U031	n-Butyl alcohol (I)
U007	2-Propenamamide	U032	Calcium chromate
U007	Acrylamide	U032	Chromic acid H ₂ CrO ₄ , calcium salt
U008	2-Propenoic acid (I)	U033	Carbon oxyfluoride (R,T)
U008	Acrylic acid (I)	U033	Carbonic difluoride
U009	2-Propenenitrile	U034	Acetaldehyde, trichloro-
U009	Acrylonitrile	U034	Chloral
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)]-	U035	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-
U010	Mitomycin C	U035	Chlorambucil
U011	1H-1,2,4-Triazol-3-amine	U036	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-
U011	Amitrole	U036	Chlordane, alpha & gamma isomers
U012	Aniline (I,T)	U037	Benzene, chloro-
U012	Benzenamine (I,T)	U037	Chlorobenzene
U014	Auramine	U038	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester
U014	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-]	U038	Chlorobenzilate
U015	Azaserine	U039	p-Chloro-m-cresol
U015	L-Serine, diazoacetate (ester)	U039	Phenol, 4-chloro-3-methyl-
U016	Benz[c]acridine	U041	Epichlorohydrin
U017	Benzal chloride	U041	Oxirane, (chloromethyl)-
U017	Benzene, (dichloromethyl)-	U042	2-Chloroethyl vinyl ether
U018	Benz[a]anthracene	U042	Ethene, (2-chloroethoxy)-
U019	Benzene (I,T)	U043	Ethene, chloro-
U020	Benzenesulfonic acid chloride (C,R)	U043	Vinyl chloride
U020	Benzenesulfonyl chloride (C,R)	U044	Chloroform
U021	[1,1'-Biphenyl]-4,4'-diamine	U044	Methane, trichloro-
U021	Benzidine	U045	Methane, chloro- (I,T)
U022	Benzo[a]pyrene	U045	Methyl chloride (I,T)
U023	Benzene, (trichloromethyl)-	U046	Chloromethyl methyl ether
U023	Benzotrichloride (C,R,T)	U046	Methane, chloromethoxy-
U024	Dichloromethoxy ethane	U047	beta-Chloronaphthalene
U024	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-	U047	Naphthalene, 2-chloro-
U025	Dichloroethyl ether	U048	o-Chlorophenol
U025	Ethane, 1,1'-oxybis[2-chloro-	U048	Phenol, 2-chloro-
U026	Chlornaphazin	U049	4-Chloro-o-toluidine, hydrochloride
U026	Naphthalenamine, N,N'-bis(2-chloroethyl)-	U049	Benzenamine, 4-chloro-2-methyl-, hydrochloride
U027	Dichloroisopropyl ether	U050	Chrysene
U027	Propane, 2,2'-oxybis[2-chloro-	U051	Creosote
U028	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	U052	Cresol (Cresylic acid)
U028	Diethylhexyl phthalate	U052	Phenol, methyl-
U029	Methane, bromo-	U053	2-Butenal
U029	Methyl bromide	U053	Crotonaldehyde
U030	4-Bromophenyl phenyl ether	U055	Benzene, (1-methylethyl)- (I)
U030	Benzene, 1-bromo-4-phenoxy-	U055	Cumene (I)
U031	1-Butanol (I)	U056	Benzene, hexahydro- (I)
		U056	Cyclohexane (I)
		U057	Cyclohexanone (I)
		U058	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide

2009 WASTE CODES

Code	Waste description	Code	Waste description
U058	Cyclophosphamide	U081	Phenol, 2,4-dichloro-
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)-	U082	2,6-Dichlorophenol
U059	Daunomycin	U082	Phenol, 2,6-dichloro-
U060	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	U083	Propane, 1,2-dichloro-
U060	DDD	U083	Propylene dichloride
U061	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	U084	1,3-Dichloropropene
U061	DDT	U084	1-Propene, 1,3-dichloro-
U062	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	U085	1,2:3,4-Diepoxybutane (I,T)
U062	Diallate	U085	2,2'-Bioxirane
U063	Dibenz[a,h]anthracene	U086	Hydrazine, 1,2-diethyl-
U064	Benzo[rs]t]pentaphene	U086	N,N'-Diethylhydrazine
U064	Dibenzo[a,i]pyrene	U087	O,O-Diethyl S-methyl dithiophosphate
U066	1,2-Dibromo-3-chloropropane	U087	Phosphorodithioic acid, O,O-diethyl S-methyl ester
U066	Propane, 1,2-dibromo-3-chloro-	U088	1,2-Benzenedicarboxylic acid, diethyl ester
U067	Ethane, 1,2-dibromo-	U088	Diethyl phthalate
U067	Ethylene dibromide	U089	Diethylstilbesterol
U068	Methane, dibromo-	U089	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis, (E)-
U068	Methylene bromide	U090	1,3-Benzodioxole, 5-propyl-
U069	1,2-Benzenedicarboxylic acid, dibutyl ester	U090	Dihydrosafrole
U069	Dibutyl phthalate	U091	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-
U070	Benzene, 1,2-dichloro-	U091	3,3'-Dimethoxybenzidine
U070	o-Dichlorobenzene	U092	Dimethylamine (I)
U071	Benzene, 1,3-dichloro-	U092	Methanamine, N-methyl- (I)
U071	m-Dichlorobenzene	U093	Benzenamine, N,N-dimethyl-4-(phenylazo)-
U072	Benzene, 1,4-dichloro-	U093	p-Dimethylaminoazobenzene
U072	p-Dichlorobenzene	U094	7,12-Dimethylbenz[a]anthracene
U073	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	U094	Benz[a]anthracene, 7,12-dimethyl-
U073	3,3'-Dichlorobenzidine	U095	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-
U074	1,4-Dichloro-2-butene (I,T)	U095	3,3'-Dimethylbenzidine
U074	2-Butene, 1,4-dichloro- (I,T)	U096	alpha,alpha-Dimethylbenzylhydroperoxide (R)
U075	Dichlorodifluoromethane	U096	Hydroperoxide, 1-methyl-1-phenylethyl- (R)
U075	Methane, dichlorodifluoro-	U097	Carbamic chloride, dimethyl-
U076	Ethane, 1,1-dichloro-	U097	Dimethylcarbamoyl chloride
U076	Ethylidene dichloride	U098	1,1-Dimethylhydrazine
U077	Ethane, 1,2-dichloro-	U098	Hydrazine, 1,1-dimethyl-
U077	Ethylene dichloride	U099	1,2-Dimethylhydrazine
U078	1,1-Dichloroethylene	U099	Hydrazine, 1,2-diphenyl-
U078	Ethene, 1,1-dichloro-	U101	2,4-Dimethylphenol
U079	1,2-Dichloroethylene	U101	Phenol, 2,4-dimethyl-
U079	Ethene, 1,2-dichloro-,(E)-	U102	1,2-Benzenedicarboxylic acid, dimethyl ester
U080	Methane, dichloro-	U102	Dimethyl phthalate
U080	Methylene chloride	U103	Dimethyl sulfate
U081	2,4-Dichlorophenol	U103	Sulfuric acid, dimethyl ester
		U105	2,4-Dinitrotoluene
		U105	Benzene, 1-methyl-2,4-dinitro-
		U106	2,6-Dinitrotoluene
		U106	Benzene, 2-methyl-1,3-dinitro-
		U107	1,2-Benzenedicarboxylic acid, dioctyl ester
		U107	Di-n-octyl phthalate
		U108	1,4-Diethyleneoxide

2009 WASTE CODES

Code	Waste description	Code	Waste description
U108	1,4-Dioxane	U134	Hydrofluoric acid (C,T)
U109	1,2-Diphenylhydrazine	U134	Hydrogen fluoride (C,T)
U109	Hydrazine, 1,2-diphenyl-	U135	Hydrogen sulfide
U110	1-Propanimine, N-propyl-(I)	U135	Hydrogen sulfide H2S
U110	Dipropylamine (I)	U136	Arsinic acid, dimethyl-
U111	1-Propanamine, N-nitroso-N-propyl-	U136	Cacodylic acid
U111	Di-n-propylnitrosamine	U137	Indeno[1,2,3-cd]pyrene
U112	Acetic acid, ethyl ester (I)	U138	Methane, iodo-
U112	Ethyl acetate (I)	U138	Methyl iodide
U113	2-Propenoic acid, ethyl ester (I)	U140	1-Propanol, 2-methyl- (I,T)
U113	Ethyl acrylate (I)	U140	Isobutyl alcohol (I,T)
U114	Carbamodithioic acid, 1,2-ethanediybis-, salts & esters	U141	1,3-Benzodioxole, 5-(1-propenyl)-
U114	Ethylenebisdithiocarbamic acid, salts & esters	U141	Isosafrole
U115	Ethylene oxide (I,T)	U142	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-
U115	Oxirane (I,T)	U142	Kepone
U116	2-Imidazolidinethione	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]]-
U116	Ethylenethiourea	U143	Lasiocarpine
U117	Ethane, 1,1'-oxybis-(I)	U144	Acetic acid, lead(2+) salt
U117	Ethyl ether (I)	U144	Lead acetate
U118	2-Propenoic acid, 2-methyl-, ethyl ester	U145	Lead phosphate
U118	Ethyl methacrylate	U145	Phosphoric acid, lead(2+) salt (2:3)
U119	Ethyl methanesulfonate	U146	Lead subacetate
U119	Methanesulfonic acid, ethyl ester	U146	Lead, bis(acetato-O)tetrahydroxytri-
U120	Fluoranthene	U147	2,5-Furandione
U121	Methane, trichlorofluoro-	U147	Maleic anhydride
U121	Trichloromonofluoromethane	U148	3,6-Pyridazinedione, 1,2-dihydro-
U122	Formaldehyde	U148	Maleic hydrazide
U123	Formic acid (C,T)	U149	Malononitrile
U124	Furan (I)	U149	Propanedinitrile
U124	Furfuran (I)	U150	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-
U125	2-Furancarboxaldehyde (I)	U150	Melphalan
U125	Furfural (I)	U151	Mercury
U126	Glycidylaldehyde	U152	2-Propenenitrile, 2-methyl- (I,T)
U126	Oxiranecarboxyaldehyde	U152	Methacrylonitrile (I,T)
U127	Benzene, hexachloro-	U153	Methanethiol (I,T)
U127	Hexachlorobenzene	U153	Thiomethanol (I,T)
U128	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	U154	Methanol (I)
U128	Hexachlorobutadiene	U154	Methyl alcohol (I)
U129	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5alpha, 6beta)-	U155	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-
U129	Lindane	U155	Methapyrilene
U130	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	U156	Carbonochloridic acid, methyl ester, (I,T)
U130	Hexachlorocyclopentadiene	U156	Methyl chlorocarbonate (I,T)
U131	Ethane, hexachloro-	U157	3-Methylcholanthrene
U131	Hexachloroethane	U157	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-
U132	Hexachlorophene	U157	4,4'-Methylenebis(2-chloroaniline)
U132	Phenol, 2,2'-methylenebis[3,4,6-trichloro-		
U133	Hydrazine (R,T)		

2009 WASTE CODES

Code	Waste description	Code	Waste description
U158	Benzenamine, 4,4'-methylenebis[2-chloro-	U183	Benzene, pentachloro-
U159	2-Butanone (I,T)	U183	Pentachlorobenzene
U159	Methyl ethyl ketone (MEK) (I,T)	U184	Ethane, pentachloro-
U160	2-Butanone, peroxide (R,T)	U184	Pentachloroethane
U160	Methyl ethyl ketone peroxide (R,T)	U185	Benzene, pentachloronitro-
U161	4-Methyl-2-pentanone (I)	U185	Pentachloronitrobenzene (PCNB)
U161	Methyl isobutyl ketone (I)	U186	1,3-Pentadiene (I)
U161	Pentanol, 4-methyl-	U186	1-Methylbutadiene (I)
U162	2-Propenoic acid, 2-methyl-, methyl ester (I,T)	U187	Acetamide, N-(4-ethoxyphenyl)-
U162	Methyl methacrylate (I,T)	U187	Phenacetin
U163	Guanidine, N-methyl-N'-nitro-N-nitroso-	U188	Phenol
U163	MNNG	U189	Phosphorus sulfide (R)
U164	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thio-	U189	Sulfur phosphide (R)
U164	Methylthiouracil	U190	1,3-Isobenzofurandione
U165	Naphthalene	U190	Phthalic anhydride
U166	1,4-Naphthalenedione	U191	2-Picoline
U166	1,4-Naphthoquinone	U191	Pyridine, 2-methyl-
U167	1-Naphthalenamine	U192	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-
U167	alpha-Naphthylamine	U192	Pronamide
U168	2-Naphthalenamine	U193	1,2-Oxathiolane, 2,2-dioxide
U168	beta-Naphthylamine	U193	1,3-Propane sultone
U169	Benzene, nitro-	U194	1-Propanamine (I,T)
U169	Nitrobenzene (I,T)	U194	n-Propylamine (I,T)
U170	p-Nitrophenol (I,T)	U196	Pyridine
U170	Phenol, 4-nitro-	U197	2,5-Cyclohexadiene-1,4-dione
U171	2-Nitropropane (I,T)	U197	p-Benzoquinone
U171	Propane, 2-nitro- (I,T)	U200	Reserpine
U172	1-Butanamine, N-butyl-N-nitroso-	U200	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl) oxy]-, methyl ester, (3beta, 16beta, 17alpha, 18beta, 20alpha)-
U172	N-Nitrosodi-n-butylamine	U201	1,3-Benzenediol
U173	Ethanol, 2,2'-(nitrosoimino)bis-	U201	Resorcinol
U173	N-Nitrosodiethanolamine	U202	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts
U174	Ethanamine, N-ethyl-N-nitroso-	U202	Saccharin, & salts
U174	N-Nitrosodiethylamine	U203	1,3-Benzodioxole, 5-(2-propenyl)-
U176	N-Nitroso-N-ethylurea	U203	Safrole
U176	Urea, N-ethyl-N-nitroso-	U204	Selenious acid
U177	N-Nitroso-N-methylurea	U204	Selenium dioxide
U177	Urea, N-methyl-N-nitroso-	U204	Selenium sulfide
U178	Carbamic acid, methylnitroso-, ethyl ester	U205	Selenium sulfide SeS2 (R,T)
U178	N-Nitroso-N-methylurethane	U206	D-Glucose, 2-deoxy-2-[[[(methylnitrosoamino)-carbonyl]amino]-
U179	N-Nitrosopiperidine	U206	Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-,D-
U179	Piperidine, 1-nitroso-	U206	Streptozotocin
U180	N-Nitrosopyrrolidine	U207	1,2,4,5-Tetrachlorobenzene
U180	Pyrrolidine, 1-nitroso-	U207	Benzene, 1,2,4,5-tetrachloro-
U181	5-Nitro-o-toluidine	U208	1,1,1,2-Tetrachloroethane
U181	Benzenamine, 2-methyl-5-nitro		
U182	1,3,5-Trioxane, 2,4,6-trimethyl-		
U182	Paraldehyde		

2009 WASTE CODES

Code	Waste description	Code	Waste description
U208	Ethane, 1,1,1,2-tetrachloro-	U239	Xylene (I)
U209	1,1,2,2-Tetrachloroethane	U240	2,4-D, salts & esters
U209	Ethane, 1,1,2,2-tetrachloro-	U240	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters
U210	Ethene, tetrachloro-	U240	Dichlorophenoxyacetic acid 2,4-D
U210	Tetrachloroethylene	U243	1-Propene, 1,1,2,3,3,3-hexachloro-
U211	Carbon tetrachloride	U243	Hexachloropropene
U211	Methane, tetrachloro-	U244	Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-
U213	Furan, tetrahydro-(I)	U244	Thiram
U213	Tetrahydrofuran (I)	U246	Cyanogen bromide (CN)Br
U214	Acetic acid, thallium(1+) salt	U247	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-
U214	Thallium(I) acetate	U247	Methoxychlor
U215	Carbonic acid, dithallium(1+) salt	U248	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less
U215	Thallium(I) carbonate	U248	Warfarin, & salts, when present at concentrations of 0.3% or less
U216	Thallium chloride TlCl	U249	Zinc phosphide Zn3P2, when present at concentrations of 10% or less
U216	Thallium(I) chloride	U271	Benomyl
U217	Nitric acid, thallium(1+) salt	U278	Bendiocarb
U217	Thallium(I) nitrate	U278	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate
U218	Ethanethioamide	U279	Carbaryl
U218	Thioacetamide	U279	1-Naphthalenol, methylcarbamate
U219	Thiourea	U280	Barban
U220	Benzene, methyl-	U280	Carbamic acid, (3-chlorophenol)-, 4-chloro-2-butynyl ester
U220	Toluene	U328	Benzenamine, 2-methyl-
U221	Benzenediamine, ar-methyl-	U328	o-Toluidine
U221	Toluenediamine	U353	Benzenamine, 4-methyl-
U222	Benzenamine, 2-methyl-, hydrochloride	U353	p-Toluidine
U222	o-Toluidine hydrochloride	U359	Ethanol, 2-ethoxy-
U223	Benzene, 1,3-diisocyanatomethyl- (R,T)	U359	Ethylene glycol monoethyl ether
U223	Toluene diisocyanate (R,T)	U364	1,3-Benzodioxol-4ol, 2,2-dimethyl
U225	Bromoform	U364	Bendiocarb phenol
U225	Methane, tribromo-	U367	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-
U226	Ethane, 1,1,1-trichloro-	U367	Carbofuran phenol
U226	Methyl chloroform	U372	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester
U227	1,1,2-Trichloroethane	U372	Carbendazim
U227	Ethane, 1,1,2-trichloro-	U373	Carbamic acid, phenyl-, 1-methylethyl ester
U228	Ethene, trichloro-	U373	Propham
U228	Trichloroethylene	U387	Carbamothiocic acid, dipropyl-, S-(phenylmethyl) ester
U234	1,3,5-Trinitrobenzene (R,T)	U387	Prosulfocarb
U234	Benzene, 1,3,5-trinitro-	U389	Triallate
U235	1-Propanol, 2,3-dibromo-, phosphate (3:1)	U389	Carbamothiocic acid, bis (1-methylethyl)-, S-(2,3,3-trichloro-2propenyl) ester
U235	Tris(2,3,-dibromopropyl) phosphate		
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		
U236	Trypan blue		
U237	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-		
U237	Uracil mustard		
U238	Carbamic acid, ethyl ester		
U238	Ethyl carbamate (urethane)		
U239	Benzene, dimethyl- (I,T)		

2009 WASTE CODES

Code	Waste description	Code	Waste description
U394	Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo, methyl ester	U409	Thiophanate-methyl
U394	A2213	U409	Carbamic acid, (1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester
U395	Diethylene glycol, dicarbamate	U410	Ethanimidothioic acid, N, N=(thiobis[(methylimino)carbonyloxy])bis-, dimethyl ester
U395	Ethanol, 2, 2;-oxybis-,dicarbamate	U411	Propoxur
U404	Ethanamine, N, N-diethyl-	U411	Phenol, 2-(-1-methylethoxy)-, methylcarbamate
U404	Triethylamine		

APPENDIX E
STATE GUIDANCE

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STATE GUIDANCE

The Environmental Protection Agency, Office of Resource Conservation and Recovery provides guidance to the implementers (States and Regions) to determine which reported waste should be included in the National Hazardous Waste Biennial Report (NBR). It is the responsibility of each implementer to determine which sites and wastes should be included in the NBR. Implementers indicate which sites and wastes are to be included in the NBR by setting "include in national report" flags. These flags exist at both the site level and waste level. Implementers may submit sites and waste streams that are not included in the NBR. An implementer's complete submission, regardless of whether the site and/or waste stream is marked for inclusion in the NBR, is stored in RCRAInfo.

A site should be included in the NBR if that site was a Large Quantity Generator (based on the federal definition) or a Treatment, Storage or Disposal Facility (TSDF) in calendar year 2009, regardless of the site's current generator and/or TSDF status. The Site ID Form generator status boxes (Item 10.A.1.a, b, or c) and TSDF status box (Item 10.A.3) indicate the site's generator status and TSDF status on the date that the biennial report submission was certified (Item 14). It is possible that a site's generator and/or TSDF status was different in calendar year 2009 than it was at the time of the biennial report submission certification.

Once a site is determined to meet the criteria for inclusion in the NBR, each waste stream reported by that site should be reviewed to determine whether that waste should be included in the NBR. Items to review include: 1) foreign exports, 2) on-site management without a RCRA permit, and 3) wastewaters.

The *2009 Hazardous Waste Report Instructions and Forms* says "RCRA hazardous wastes exported directly to a foreign country **should not be reported** on Form GM. Rather, hazardous waste exports should be reported on the Annual Report required under 40 CFR 262.56." Some implementers require reporting of wastes exported to foreign countries. In these cases, waste shipped off-site to foreign countries should be marked for inclusion in the NBR.

Treatment, storage and disposal activities generally require a federal RCRA permit allowing a site to conduct various TSD activities. However, there are treatment and recycling activities that do not require a RCRA permit. Regardless of whether the TSD activity requires a RCRA permit or not, the management of this waste should be included in the NBR.

In general, wastewaters should be excluded from the NBR. Characteristics that often identify wastewaters include the following form codes and/or management methods.

Form Codes:

- W101 Very dilute aqueous waste containing more than 99% water
- W105 Acidic aqueous wastes less than 5% acid
- W113 Other aqueous waste or wastewaters

Management Methods:

- H071 Chemical reduction with or without precipitation
- H073 Cyanide destruction with or without precipitation
- H075 Chemical oxidation
- H076 Wet air oxidation
- H077 Other chemical precipitation with or without pre-treatment

- H081 Biological treatment with or without precipitation
- H082 Adsorption
- H083 Air or steam stripping
- H121 Neutralization only
- H122 Evaporation
- H123 Settling or clarification
- H124 Phase separation
- H129 Other treatment
- H135 Discharge to sewer/POTW or NPDES

The *2009 Hazardous Waste Report Instructions and Forms* contains the following additional instructions regarding the reporting of wastewaters:

Following are the materials and wastes addressed under 40 CFR 261.4(a) and (b) and 261.5(c), which **should not be reported** on Form GM:

- Materials which are excluded from being a solid waste, e.g., any mixture of domestic sewage and other wastes that pass through a sewer system to a publicly owned treatment works (unless they are stored or treated in regulated units prior to being discharged). (40 CFR 261.4(a))
- Wastes managed immediately upon generation only in on-site elementary neutralization units, wastewater treatment units, or totally enclosed treatment facilities as defined in 40 CFR 260.10. (40 CFR 261.5(c)(2)) **Any hazardous waste residues generated from these units, however, must be reported on Form GM.**

Wastes exhibiting wastewater characteristics (i.e., form code of W101, W105, or W113) that are managed via deepwell or underground injection (H134) should be included in the NBR.

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UNITED STATE ENVIRONMENTAL PROTECTION AGENCY
SOLID WASTE AND EMERGENCY RESPONSE (5305P)
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