United States
Environmental Protection
Agency

Solid Waste and
Emergency Response
(5305W)

EPA530-R-97-032
NTIS: PB97-176 978
April 1997

EPA

Background Document for Capacity Analysis for Land Disposal Restrictions - Phase IV (Second Supplement): Toxicity Characteristic Metal Wastes and Newly Identified Mineral Processing Wastes (Proposed Rule)

Printed on paper that contains at lest 20 percent postconsumer fiber

50272-101

REPORT DOCUMENTATION PAGE	1. Report No. EPA530-R-97-032	2.	

4. Title and Subtitle

BACKGROUND DOCUMENT FOR CAPACITY ANALYSIS FOR LAND DISPOSAL RESTRICTIONS PHASE IV (SECOND SUPPLEMENT): TOXICITY CHARACTERISTIC METAL WASTES AND NEWLY IDENTIFIED MINERAL PROCESSING WASTES; PROPOSED

5. Report Date
APRIL 1997

6.

7. Author(s)

8. Performing Organization Rept. No.

9. Performing Organization Name and Address

U.S. EPA
OFFICE OF SOLID WASTE
401 M STREET, SW
WASHINGTON, DC 20460

10. Project/Task/Work Unit No.

11. Contract © or Grant (G) No.
©

(G)

12. Sponsoring Organization Name and Address

13. Type of Report & Period Covered

TECHINICAL REPORT

14.

15. Supplementary Notes

16. Abstract (Limit: 200 words)

PRESENTS THE CAPACITY ANALYSIS EPA CONDUCTED TO SUPPORT THE PROPOSED LAND DISPOSAL RESTRICTIONS (LDRS) - PHASE IV: ISSUES ASSOCIATED WITH TREATMENT STANDARDS FOR NEWLY IDENTIFIED MINERAL PROCESSING WASTES AND TOXICITY CHARACTERISTIC METAL WASTES. EVALUATES THE NEED FOR NATIONAL CAPACITY VARIANCES FROM LAND DISPOSAL PROHIBITIONS. PROVIDES ESTIMATES OF THE QUANTITIES OF WASTES THAT WILL REQUIRE ALTERNATIVE COMMERCIAL TREATMENT AND RECOVERY PRIOR TO LAND DISPOSAL AS A RESULT OF THE LDRs AND ESTIMATES ALTERNATIVE COMMERCIAL TREATMENT AND RECOVERY CAPACITY AVAILABLE TO MANAGE WASTES RESTRICTED FROM LAND DISPOSAL. DESCRIBES THE METHODOLOGY AND DATA USED TO DETERMINE AVAILABLE COMMERCIAL CAPACITY.

17. Document Analysis a. Descriptors

b. Identifiers/Open-Ended Terms

c. COSATI Field Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
	UNCLASSIFIED	300
RELEASE UNLIMITED	20. Security Class (This Page) UNCLASSIFIED	22. Price

(See ANSI-Z39.18)

OPTIONAL FORM 272 (4-77)
(Formerly NTIS-35)

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CHAPTER 1
INTRODUCTION

This document presents the capacity analysis that EPA conducted to support the proposed Land Disposal Restrictions (LDRs) - Phase IV: Issues Associated with Treatment Standards for Newly Identified Mineral Processing Wastes and Toxicity Characteristic Metal Wastes. EPA conducts capacity analyses to evaluate the need for national capacity variances from the land disposal prohibitions.[1] The capacity analysis provides estimates of the quantities of wastes that will require alternative commercial treatment prior to land disposal as a result of the LDRs and estimates alternative commercial treatment capacity available to manage wastes restricted from land disposal. In this rule, EPA is proposing LDRs for the newly identified mineral processing wastes and toxicity characteristic metal wastes listed and identified since November 1984 that have not been covered in previous LDR rulemakings.

1.1 LEGAL BACKGROUND

The Hazardous and Solid Waste Amendments (HSWA) to the Resource Conservation and Recovery Act (RCRA), enacted on November 8, 1984, set basic new priorities for hazardous waste management. Land disposal, which had been the most widely used method for managing hazardous waste, is now the least preferred option. Under HSWA, EPA must promulgate regulations restricting the land disposal[2] of hazardous wastes according to a strict statutory schedule. As of the effective date of each regulation, land disposal of wastes covered by that regulation is prohibited unless (1) the waste meets the treatment standards that have been established, or (2) it can be demonstrated that there will be no migration of hazardous constituents from the disposal unit for as long as the waste remains hazardous.

Under the LDR Program, EPA must identify levels or methods of treatment that substantially reduce the toxicity of a waste or the likelihood of migration of hazardous constituents from the waste. Whenever possible, the Agency prefers to define treatment in terms of performance (i.e., maximum acceptable concentrations of hazardous constituents in the treated waste or residuals), rather than in terms of specific treatment methods, and thus provide the regulated community with flexibility in complying with the LDRs. EPA's standards are generally based on the performance of the best demonstrated available technology (BDAT) for that waste, as documented by treatment data collected at well-designed and well-operated systems using that technology, or are based on data derived from the treatment of similar wastes that are as difficult or more difficult to treat.

The LDRs are effective immediately upon promulgation unless the Agency grants a national capacity variance from the statutory date because of a lack of available treatment capacity (see RCRA section 3004(h)(2)). For every waste, EPA considers - on a national basis - both the capacity of commercially available treatment technologies and the quantity of restricted wastes currently sent to land disposal for which on-site treatment capacity is not available. If EPA determines that adequate alternative commercial treatment capacity is available for a particular waste, the land disposal restriction

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[1] The LDRs are effective when promulgated unless the Administrator grants a national capacity variance from the otherwise applicable date and establishes a different date (not to exceed two years beyond the statutory deadline) based on: "... the earliest date on which adequate alternative treatment, recovery, or disposal capacity which protects human health and the environment will be available" (RCRA section 3004(h)(2)).

[2] RCRA defines land disposal "to include, but not be limited to, any placement of such hazardous waste in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome formation, salt bed formation, or underground mine or cave" (RCRA section 3004(k)).

is effective immediately. If not, the Agency establishes an alternative effective date based on the earliest date on which adequate treatment capacity will be available or two years, whichever is less. During the variance period, management of the wastes is still subject to 40 CFR 268.5 (h). Once the variance expires, the wastes must meet the LDR treatment standards prior to being land disposed.

RCRA also allows generators to apply for extensions to the LDRs on a case-by-case basis for specific wastes generated at a specific facility for which there is not adequate capacity (RCRA section 3004(h)(3)). EPA may grant case-by-case capacity variances to applicants who can demonstrate that: (1) no capacity currently exists anywhere in the U.S. to treat a specific waste, and (2) a binding contractual commitment is in place to construct or otherwise provide alternative capacity, but due to circumstances beyond the applicant's control, such alternative capacity cannot reasonably be made available by the effective date (40 CFR 268.5).[3]

HSWA's schedule divided hazardous wastes into three broad categories: solvent and dioxin wastes; California list wastes;[4] and "scheduled" wastes. EPA restricted surface disposed solvents and dioxins from land disposal on November 7, 1986 and deep well injected solvents and dioxins from land disposal on July 26, 1998. The final rule for California list wastes, which was issued on July 8, 1987, covers wastes originally listed by the State of California and adopted intact within HSWA. The "scheduled" wastes consist of all wastes that were identified or listed as hazardous prior to November 8, 1984 but were not included in the first two categories listed above. HSWA's statutory timetable required that EPA restrict one-third of these wastes by August 8, 1988, two-thirds by June 8, 1989, and the remaining third by May 8, 1990. For hazardous wastes that are newly identified or listed after November 8, 1984, EPA is required to promulgate land disposal prohibitions within six months of the date of identification or listing (RCRA Section 3004(g)(4)). However, the statute does not provide an automatic prohibition of land disposal of such wastes if EPA fails to meet this deadline. Exhibit 1-1 summarizes the previous LDR rulemakings and their respective promulgation dates.

[3] RCRA also allows generators to petition for a variance from treatment standards if the waste cannot be treated to meet LDR standards due to its chemical or physical properties. These variances are known as treatability variances (40 CFR 268.44).

[4] The "California list" comprises the following classes of wastes: liquid hazardous wastes with a pH of less than or equal to 2.0 (acidic corrosive wastes); all liquid hazardous wastes containing free cyanides, various metals, and polychlorinated biphenyls (PCBs) exceeding statutory concentration levels; and all wastes (liquid, sludge, or solid) containing halogenated organic compounds (HOCs) in concentrations greater than or equal to specified statutory levels.

EXHIBIT 1-1
SUMMARY OF PREVIOUS LAND DISPOSAL RESTRICTIONS RULEMAKINGS

Rulemaking	Federal Register Notice	Promulgation Date
Solvents and Dioxins (surface disposed)	51 *FR* 40572	November 7, 1986
Solvents and Dioxins (deep well injected)	53 *FR* 28188	July 26, 1988
California List (surface disposed)	52 *FR* 25760	July 8, 1987
California List (deep well injected)	53 *FR* 30908	July 26, 1988
First Third Rule	53 *FR* 31138	August 8, 1988
First Third Rule (deep well injected)	54 *FR* 25416	June 7, 1989
Second Third Rule	54 *FR* 26594	June 8, 1989
Third Third Rule	55 *FR* 22520	May 8, 1990
Newly Listed and Identified Wastes (Phase I)	57 *FR* 37194	June 30, 1992
Interim Final Rule for Vacated Treatment Standards	58 *FR* 29860	May 24, 1993
Organic TC Wastes and Newly Listed Wastes (Phase II)	59 *FR* 47982	September 19, 1994
Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners (Phase III)[5]	61 *FR* 15565	April 8, 1996

1.2 CAPACITY ANALYSIS METHODOLOGY

In evaluating the need for national capacity variances, EPA estimates the quantities of waste requiring alternative commercial treatment as a result of the LDRs and the capacity available at commercial treatment facilities to manage the restricted wastes[6]. By comparing the capacity demand

[5] On August 26, 1996, the Agency revised the carbamate waste treatment standards for one year from the date of publication ("Emergency Revision of the Land Disposal Restrictions (LDR) Phase III Treatment Standards for Listed Hazardous Wastes from Carbamate Production," 61 FR 43923). On January 14, 1997, the Agency extended the national capacity variance for spent potliners (K088) for six months ("Land Disposal Restrictions Phase III - Emergency Extension of the K088 Capacity Variance; Final Rule," 62 *FR* 1991).

[6] EPA also derived estimates of affected facilities and waste quantities for the regulatory impact analysis (RIA). Both the RIA and the capacity analysis examined wastes in the industrial sectors likely to generate most of the Phase IV wastes. However, the goals of a capacity analysis and an RIA are very different, which often results in some differences in methodologies, data, and results. A first step to satisfying the goals of a capacity analysis is to make a "threshold" determination concerning whether a national treatment capacity variance is needed for the two years following promulgation of a waste's LDR treatment standards.

with the available commercial capacity, EPA can identify capacity shortfalls and make determinations concerning national capacity variances. This section provides an overview of EPA's methodology in estimating required commercial treatment capacity, briefly summarizes the capacity analysis conducted for today's rule, and highlights the national capacity variances that EPA is proposing in today's proposed rule.

1.2.1 Determination of Required Commercial Treatment Capacity

Required commercial treatment capacity represents the quantity of wastes currently being land disposed that cannot be treated on site and, consequently, will need commercial treatment to meet the LDR treatment standards. EPA uses the available information and best engineering judgment to develop estimates for required commercial capacity. Those wastes that are managed in on-site treatment systems are excluded from the estimates of required commercial capacity. Required commercial capacity also includes the residuals generated by treatment of these wastes (i.e., the quantity of generated residuals that will need treatment prior to land disposal).

EPA identifies the waste streams potentially affected by the LDRs by types of land disposal units, including surface impoundment, waste pile, land treatment unit, landfill, and underground injection well. Salt dome formations, salt bed formations, and underground mines and caves are additional methods of land disposal that are affected by the LDRs; however, because few wastes are disposed by these three methods, these methods typically are not addressed in the analysis of required alternative capacity.

To determine the type of alternative capacity required to treat the affected wastes, EPA conducts a "treatability analysis" of each waste stream. Based on the waste's physical and chemical form and information on prior management practices, EPA assigns the quantity of affected waste to an appropriate technology (i.e. a technology that can meet the treatment standards). Mixtures of RCRA wastes (i.e., waste streams described by more than one waste code) present special treatability concerns because they often contain constituents (e.g., organics and metals) requiring different types of treatment. To treat these wastes, EPA develops a treatment train that can treat all waste types in the group (e.g., incineration followed by stabilization of the incinerator ash). In these cases, the Agency estimates the amount of residuals that would be generated by treatment of the original quantity of waste and includes these residuals in the quantities requiring alternative treatment capacity.

EPA identifies the quantities of waste requiring alternative treatment on a facility level basis; if the appropriate treatment technology is not available on site, or if adequate available capacity is not present to manage the waste, then the appropriate quantity of waste requiring alternative treatment is aggregated into a national demand for commercial capacity. EPA excludes from the estimates of required commercial capacity those wastes that are managed in on-site treatment systems.

Thus, EPA estimates the required and available commercial treatment capacity for all affected wastes and facilities, but often only to the extent needed to make this threshold determination. For example, when upper-bound estimates of required capacity are well below lower-bound estimates of available capacity, then generally a variance is not needed and the analysis can stop. Similarly, when lower-bound estimates of required capacity far exceed the upper-bound estimates of available capacity, then often the two-year maximum capacity variance is needed. Results that are between these two extremes generally require EPA to conduct further analyses. In contrast to the capacity analysis' focus on required and available capacity during the next two years and its initial focus on threshold determinations, the RIA concentrates on estimating specific potential long-term costs and benefits of the LDR treatment standards. Typically, only the significant (or dominant) costs and benefits are assessed during the RIA. In summary, therefore, differences between the goals of the capacity analysis and the RIA are expected to result in reasonable differences in the methodologies, data, and results.

1.2.2 Determination of Available Commercial Treatment Capacity

The analyses conducted to determine available commercial treatment capacity focuses on treatment capacity projected to be available for the two years following promulgation of the LDRs, starting from the baseline capacity identified in the Phase III LDR rule (61 *FR* 15565).[7]

The determination of available capacity focuses on commercial facilities. Consequently, all estimates of capacity presented in this document represent commercially available capacity.[8] In order to determine whether to grant a national capacity variance for newly listed and identified wastes regulated in today's proposed rule, EPA analyzed available commercial capacity for alternative treatment technologies capable of meeting the LDR treatment standards. This capacity analysis generally included estimating the maximum or design capacity for appropriate waste management systems and the amount of waste currently going to these systems (utilized capacity). Available capacity was estimated as the difference between maximum and utilized capacity. For today's rule, EPA analyzed commercial capacity for wastewater treatment systems, hazardous waste combustion (including incineration and reuse as fuel), stabilization, vitrification, and several metal recovery technologies.

1.3 SUMMARY OF CAPACITY ANALYSIS FOR TODAY'S PROPOSED RULE

To estimate the need for national capacity variances, EPA estimated the quantities of waste requiring alternative commercial treatment as a result of the land disposal restrictions and the capacity available at commercial treatment facilities to manage the restricted wastes. Exhibit 1-2 indicates the total quantities of surface disposed wastes that will require alternative commercial treatment capacity as a result of the rule, and whether treatment capacity is available for these wastes.

Exhibit 1-3 summarizes the wastes for which EPA is granting a national capacity variance. EPA is proposing to grant a two-year national capacity variances for mixed RCRA/radioactive wastewaters and nonwastewaters contaminated with newly listed and identified wastes for which standards are being proposed in this rule. Also, EPA is proposing to grant a two-year national capacity variance for three large volume wastes generated from elemental phosphorous processing - Medusa Scrubber blowdown, Anderson Filter media rinsate, and furnace building washdown. For TC metal wastes and the remaining newly identified mineral processing wastes, the Agency has determined that adequate treatment capacity exists and, therefore, proposes to not grant a national capacity variance.

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[7] EPA, *Background Document for Capacity Analysis for Land Disposal Restrictions -- Phase III, Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners (Final Rule)*, April 1996.

[8] Available treatment capacity can be categorized by facility status into four groups: (1) commercial capacity - capacity at facilities that manage waste from any facility; (2) on-site (private capacity) - capacity at facilities that manage only waste generated on-site; (3) captive capacity - capacity at facilities that manage only waste from other facilities under the same ownership; and (4) limited commercial capacity - capacity at facilities that manage waste from a limited number of facilities not under the same ownership. For all capacity analyses, estimates on available capacity reflect available commercial capacity.

EXHIBIT 1-2
QUANTITIES REQUIRING COMMERCIAL TREATMENT AS A RESULT OF THE LDRs

Waste Type	Quantities Requiring Alternative Capacity (mt/year)	Adequate Alternative Capacity Currently Available? (Yes/No)
Newly Identified Wastes from Elemental Phosphorus Processing	500,000 - 800,000	No
Newly Identified Mineral Processing Wastes (Including Soil and Debris)	4 - 30 million	Yes
TC Metal Wastes (Including Soil and Debris)	0.8 - 2.6 million	Yes
Mixed Radioactive Wastes (Including Soil and Debris)	Unknown[a]	No

[a] Significant uncertainty exists concerning these quantities. Despite this uncertainty, however, EPA has determined that sufficient alternative treatment capacity is not available, and thus is proposing to grant a two-year national capacity variance for mixed RCRA/radioactive wastes contaminated with wastes whose standards are being proposed today.

EXHIBIT 1-3
SUMMARY OF NATIONAL CAPACITY VARIANCES FOR PHASE IV WASTES

Waste Category	Effective Date of Land Disposal Prohibition
Newly Identified Wastes from Elemental Phosphorus Processing	Two Years from Promulgation of Final Rule
Newly Identified Mineral Processing Wastes (Including Soil and Debris)	90 Days from Promulgation of Final Rule
TC Metal Wastes (Including Soil and Debris)	90 Days from Promulgation of Final Rule
Mixed Radioactive Wastes (Including Soil and Debris)	Two Years from Promulgation of Final Rule

1.4 ORGANIZATION OF BACKGROUND DOCUMENT SUPPORTING THE CAPACITY ANALYSIS

EPA has prepared this background document to present the capacity analyses conducted for the proposed second supplemental Phase IV LDRs. This document is organized into four chapters, as described below:

- **Chapter 1: Introduction.** Provides background, general methodology, and a summary of the analysis.

- **Chapter 2: Available Treatment Capacity.** Describes the methodology and data used to determine available capacity for wastewater treatment, combustion of liquids and solids, stabilization, vitrification, and metals recovery.

- **Chapter 3: Capacity Analysis for Toxicity Characteristic Metal Wastes.** Describes the capacity analysis for toxicity characteristic metal wastes (D004-D011).

- **Chapter 4: Capacity Analysis for the Newly Identified Mineral Processing Wastes.** Discusses the methodology and data used to conduct the capacity analysis for the newly identified mineral processing wastes.

CHAPTER 2
AVAILABLE TREATMENT CAPACITY

This chapter presents EPA's estimates of available commercial treatment capacity for TC metal and mineral processing wastes affected by the Phase IV second supplemental LDR rule. This chapter is organized as follows: Section 2.1 describes commercial capacity for stabilization; Section 2.2 describes metal recovery capacity; Section 2.3 describes vitrification capacity; Section 2.4 describes commercial wastewater treatment systems capacity; Section 2.5 describes commercial combustion capacity; and Section 2.6 describes mixed RCRA/radioactive waste capacity.

2.1 STABILIZATION CAPACITY

Stabilization is a primary conventional commercial treatment technology for many of the wastes covered by the Phase IV second supplemental LDR rule. In analyzing alternative treatment capacity for stabilization, the Agency in part built on the capacity analysis conducted for the Third Third LDR rule (55 FR 22520, June 1, 1990). That analysis was based on data contained in the May 1990 TSDR Capacity Data Set. The TSDR Capacity Data Set contains results from the National Survey of Hazardous Waste Treatment, Storage, Disposal and Recycling Survey (the TSDR Survey). The TSDR Survey was administered in 1987 to 2,500 facilities and was designed to provide comprehensive information on current and planned hazardous waste management, and practices at RCRA-permitted and interim status treatment, storage, recycling, and disposal facilities. The TSDR Survey collected projections of capacity changes from 1986 through 1992. The TSDR Capacity Data Set includes the amount of hazardous and nonhazardous waste entering each treatment system in 1986, the maximum hazardous waste capacity, and the maximum total waste capacity.

Following the original TSDR Survey, EPA updated the TSDR Capacity Data Set for critical technologies based on confirmation of planned capacity changes, and other information received since the survey (e.g., comments on proposed rules). Updated information was obtained by contacting facilities and verifying critical projected capacities reported in the TSDR Survey. Based on the information provided by facility contacts, EPA determined whether planned facility capacity had come on line as projected. Furthermore, EPA verified various assumptions concerning treatment for the wastes addressed in this rule. A key part of this analysis was a review of 1993 BRS data. These data indicate that there are at least 30 operational facilities providing commercial stabilization and at least 60 non-commercial facilities with stabilization capacity.[1] (For a more detailed explanation of the TSDR Survey and of the Third Third Rule, refer to U.S. EPA, Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions, May 1990, in the docket for the Third Third rule.)

To estimate the stabilization capacity for Phase IV wastes, the capacity demand for previous LDR rules was subtracted from the available stabilization capacity estimated from the TSDR Capacity Data Set and updates. The available stabilization capacity from the TSDR Survey and updates was 3,125,000 tons per year. EPA estimated in the Third Third rulemaking that the capacity required as a result of the Third Third and previous LDR rules was 1,921,000. Furthermore, the capacity required for

[1] Memorandum from Raghu Raghavan and Jim Laurenson (ICF) to Bill Kline and C. Pan Lee (EPA). "Status Report on the Available Capacity Assessment for TC Metal and Mineral Processing Wastes." June 14, 1996. See Appendix A.

Phase I was 77,000 tons per year, for Phase II wastes was 0 tons per year,[2] and for Phase III wastes was 0 tons per year.[3]

As a result of these analyses, EPA believes that about 1.1 million tons/year of stabilization capacity is currently available for the two main categories of wastes restricted from land disposal under the Phase IV rulemaking: (1) previously regulated wastes, which are wastes that failed (or would have failed) the Extraction Procedure (EP) test, fail the Toxicity Characteristic Leaching Procedure (TCLP), and will likely not meet the UTS; and (2) new wastes, which are defined either as wastes that did not fail (or would not have failed) the EP, but currently fail the TCLP and likely will not meet the UTS or as newly identified mineral processing wastes.

The first category comprises wastes that are currently treated and will probably meet the new treatment standards with minor modifications to treatment processes. The second category includes two types of waste: (1) wastes that are classified by current regulations as non-hazardous (e.g., Bevill wastes) and are currently being recycled or stored pending recovery activities (these wastes could become hazardous following this rule, and they could include very large quantities of untreated waste that will require on-site or off-site stabilization); and (2) wastes that are classified as hazardous, but have not been required to meet treatment standards.[4]

As part of the analysis of available capacity for the Phase IV rulemaking, the Agency conducted follow-up discussions with several commercial treaters and organizations that submitted comments to the original Phase IV proposed rule (see Appendix A). Overall, commenters indicated the widespread use of stabilization for characteristic metal wastes. All commenters who provided information on available capacity indicated that they are not utilizing their maximum practical capacity. Commercial treaters also indicated that stabilization can be readily customized in most cases to treat Phase IV wastes to the proposed treatment standards. Several commercial treaters commented that no modifications would need to be made to their treatment processes or that minimal time (e.g., four weeks) is required for very minor modifications. Most commercial treaters whom the Agency contacted indicated that the time needed and difficulty to implement changes in treatment processes will vary depending on the degree of changes. Two treaters, however, indicated that it may take several years to meet treatment standards, primarily due to changes needed in their permits, although the time needed to change treatment processes would not be great. (Note also that of all the commercial treaters interviewed, these latter facilities each stabilize the lowest annual quantities of hazardous waste.) One large commercial treater estimates that about 70 to 80 percent of the waste that they currently treat can meet UTS without additional cost. Approximately 20 to 30 percent of the waste it treats will require modification to the current treatment process to meet the UTS.

As discussed in Chapters 3 and 4, large quantity remediation sites sometimes treat on-site because of economic reasons. Mobile treatment is preferred in these cases. One industry representative described at least seven sites that use mobile commercial excavation and stabilization.[5] These data

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[2] EPA believes that stabilization may be required to treat underlying hazardous metal constituents in some Phase II organic TC wastes after combustion but that the actual amount of combustion residuals requiring stabilization capacity is a small fraction of available capacity.

[3] EPA believes that stabilization may be required to treat underlying hazardous metal constituents in some Phase III wastes after combustion but that the actual amount of residuals requiring stabilization capacity is a small fraction of available capacity.

[4] Nevertheless, this second type of waste likely is similar to the previously regulated wastes because treating the waste to decharacterize it and dispose of it as a non-hazardous wastes is believed to be preferable by generators and less expensive than disposal without treatment in a Subtitle C unit.

[5] Summary of Minutes of April 30, 1996, Meeting of EPA and Representatives of Lead Recovery from Batteries. See Appendix A.

indicate that these wastes usually go to Subtitle D landfills after treatment or are capped in place. The Agency discussions with treaters determined that mobile stabilization is commercially available to treat both the previously regulated and the new de-Bevilled mineral processing and TC metal wastes. Several commercial facilities have indicated that, similar to stabilization conducted at the commercial treaters' facilities, mobile technology could be made readily available (i.e., in a matter of weeks to months).

Some waste streams were identified by commercial waste managers as being difficult to treat. Three facilities noted, for example, that treating organic UHCs would require some type of pretreatment. One facility would incinerate these wastes, and two other facilities would send the wastes to another facility for pretreatment. The Agency received several other comments, however, indicating that these difficulties could be readily overcome. Four facilities specifically stated that organic UHCs in the wastes that they receive can be readily treated to UTS (i.e., without significant changes in their processes).

Finally, the Agency's literature review indicates that stabilization processes have been widely used and are considered a reliable and readily available treatment technology for many metal-contaminated wastes. For example, one source describes their extensive database of treatment reactions for metal-contaminated wastes in the U.S.[6] Furthermore, this source indicates that for a related type of treatment—chemical fixation—more than 700 waste streams have been evaluated and successfully treated in the U.S.; more than 400 waste streams have been treated successfully in bench-scale testing; and more than 100 waste streams have been treated in field applications. The literature also indicates that numerous commercial vendors also are available to provide on-site stabilization.[7]

2.2 METAL RECOVERY CAPACITY

Due to several factors—including (1) metal recovery treatment as one of the bases for the LDR treatment standards, (2) the basic nature of mineral processing and many TC metal industries, and (3) EPA's policy of preferring pollution prevention or recycling to treatment—EPA evaluated the potential to recover metals from the TC metal and newly identified mineral processing wastes. According to Biennial Reporting System (BRS) data,[8] at least 58 commercial facilities recovered metals from hazardous wastes and 2,789 generators recycled waste on-site using metals recovery in 1991.

EPA identified and reviewed several metal recovery technologies that are commercially available. Exhibit 2-1 provides a sample of commercial metal recovery capacity for different technologies that appear to be suitable for the TC metal and newly identified mineral processing wastes. Based on this sample, at least 800,000 mt/year of maximum metal recovery capacity exists. (Note, however, that not all of this capacity is necessarily available. Nevertheless, because of the magnitude of this maximum capacity and because Exhibit 2-1 is not a comprehensive list of available commercial metal recovery technologies, the Agency believes that some metal recovery capacity will be available to treat TC metal and mineral processing wastes that cannot be treated using stabilization or other technologies.)

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[6] Indelicato, Gregory and Gary Tipton. "Chemical Fixation Increase Options for Hazardous Waste Treatment." Environmental Solutions. May 1996. See attachment to Appendix A-2.

[7] The following is just a small sample of commercial vendors providing on-site commercial stabilization treatment: American Colloid Co.; Chemical Waste Management; Envirosource CSI; Erosion Control; Plastic Filter Company; Limestone Products Corp; Reinco, Inc.; and Stevenson Environmental Services. See Appendix A for additional vendors and facilities.

[8] U.S. EPA, "Hazardous Waste Recycling in the United States, 1989 to 1991," Office of Solid Waste, Draft, June 30, 1994.

EXHIBIT 2-1
SAMPLE OF METAL RECOVERY CAPACITY

Metals Recovery Technology	Metals Recovered	Annual Feed Capacity (tons/year)
PYROMETALLURGICAL PROCESSES		
Dakota Catalyst Products, Williston, North Dakota	Al, Co, Mb, Ni, V	20,000 tons/year, metal and alumina catalysts
Elkem Multi-Purpose Furnace	Pb, Zn, Cu	40,000[a]
Horsehead Resource Development, Flame Reactor	Zn, Pb	20,000-50,000[b]
Horsehead Resource Development, Waelz Kiln System	Zn	270,000
Bethlehem Apparatus Company, Vacuum Mercury Retort System	Hg	595
Mercury Recovery Services Process	Hg	4,500
Zia Technology Inclined Rotary Reduction System	Fe, Zn, Pb	60,000[a]
International Metals Reclamation Company (INMETCO)	Cr, Co, Cr, Fe, Mn, Mb, Ni	20,000 tons/year of K061; 20,000 tons/year of metal waste (non-hazardous) from the specialty steel industry; 10,000 tons/year of mill scale; 7,200 tons/year of K062; 6,700 tons/year of D007 from different sources in the specialty steel and alloy manufacturing industry; 3,600 tons/year of F006; 3,000 tons/year of nickel and/or chromium bearing solutions from other industries (D007, D002, and/or D001)
HYDROMETALLURGICAL PROCESSES		
AMAX (Cri-Met), Braithwaite, Louisiana	Al, Co, Mb, Ni, V	Plant presently accepts 20,000 tons/year of spent catalysts and has an annual feed capacity of 30,000 tons/year available for Ni/Co/Mo/Al-containing catalysts; also has some (additional?) capacity for processing Vanadium-containing materials

Metals Recovery Technology	Metals Recovered	Annual Feed Capacity (tons/year)
ETICAM Process	Cd, Cr, Co, Cu, Au, Mb, Ni, Pb, Ag, Ti, V, Zn	35,000 tons/year of metal-bearing solutions; 35,000 tons/year of cyanide-bearing solutions; 35,000 tons/year of acid/alkali solutions; 45,000 tons/year of metal-bearing solids
Recontek Process	Cd, Cr, Fe, Ni, Zn	60,000 tons/year
Encycle/Texas	Sb, Co, Cu, Pb, Ni	Plant reportedly received 20,000 tons/year of waste in 1991; total capacity is unknown

Sources: (1) U.S. EPA, Profiles of Metal Recovery Technology for Mineral Processing Wastes and Other Metal-Bearing Hazardous Wastes, Office of Solid Waste, December 1994.

(2) U.S. EPA, Background Document for Capacity Analysis for Land Disposal Restrictions: Newly Identified Petroleum Refining Process Wastes (Proposed Rule), October 1995.

2.3 VITRIFICATION CAPACITY

The Agency has determined that vitrification technology is commercially available for treating limited quantities of Phase IV wastes, such as some arsenic wastes, that are difficult to treat using stabilization. One commenter (Beazer East, Inc.), responding to the original Phase IV proposed rule (60 FR 43654), identified a commercial facility that operates a tested, full-scale vitrification process.[9] Using the ATTIC and VISITT databases,[10] EPA also identified a sample of companies conducting or selling supplies for vitrification. The Agency subsequently held discussions with several facility representatives (see Appendix B).[11] One company that EPA identified operates one vitrification system with an available capacity of 15,000 tons/year (readily expandable to three systems for a total capacity of 45,000 tons/year). A full-scale, commercial unit (MSE) treats approximately 2,000 tons/year. Bench-scale and pilot-scale systems for vitrification are known to have been underway at numerous other facilities in 1994.[12]

Notwithstanding this potentially available vitrification capacity, EPA realizes that available capacity likely is relatively low. Because EPA is setting numerical limits, however, other treatment technologies capable of achieving the UTS limits are not prohibited from being used, except for those that may constitute impermissible dilution. For example, managers of lower concentration wastes may send the waste for stabilization or other treatment technologies.[13]

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[9] The commenter also notes, however, that the regulatory status of this facility (Marine Shale Processors (MSP)) remains in question.

[10] Alternative Technology Treatment Center (ATTIC) Database, U.S. EPA (see WWW.EPA.GOV/ATTIC) and the Vendors Information System of Innovative Treatment Technology (VISITT) (see WW.PRC.EMI.COM:80/VISITT).

[11] The following is a small sample of commercials vendors providing vitrification equipment or services: Geosafe Corp, Vortec Corp, Retech Inc., GTS of Duratech, and MSE.

[12] Attachment to memorandum from Bill Kline (U.S. EPA) to ICF Incorporated, March 17, 1994 (see Appendix B).

[13] See Appendix C in the Phase IV LDR BDAT Background Document for additional discussion of this issue.

2.4 WASTEWATER TREATMENT CAPACITY

EPA expects that the TC metal and mineral processing industry's predominant wastewater management practices are to treat the wastewaters in on-site tanks (or, to a limited extent, in surface impoundments that meet minimum technology requirements (MTRs)), and then either discharge to Subtitle D surface impoundments or discharge directly to surface waters under CWA or equivalent regulations. Wastewater treatment technologies such as chemical precipitation, biological treatment, steam stripping, carbon adsorption, or combinations of these and other technologies can treat organics to the concentrations regulated in this rule. These wastewater technologies are readily available to, or in use at, facilities.[14] EPA believes that—similar to stabilization for nonwastewaters—the additional treatment required to meet the UTS levels for these wastewaters could be achieved through minimal modifications in the existing on-site treatment systems (e.g., change in the reagents or increase in the quantity of reagents added). For metals in wastewaters, EPA has determined that treatment levels can be achieved by lime addition followed by sedimentation and filtration for arsenic, and on chemical precipitation followed by sedimentation for chromium. These wastewater technologies are readily available to, or in use at, facilities. Of course, since no specific method of treatment is required to be used under the promulgated treatment standards, any type of treatment other than permissible dilution may be used to achieve these concentration levels.

Notwithstanding the ability of readily available treatment systems to be optimized to meet treatment standards, EPA also evaluated the availability of wastewater treatment in terms of whether commercial vendors are available to provide on-site wastewater treatment services. This analysis used two data sources. The primary source was an Office of Water questionnaire specifically targeted to wastewater treatment systems. The second source, the 1991 BRS, was used to confirm the data provided by the first source.

In 1991, EPA's Office of Water (OW) developed the Waste Treatment Industry Questionnaire to collect information on centralized wastewater treatment capacity.[15] The information collected during this effort represents 1989 data and includes maximum and available treatment capacity. Exhibit 2-2 presents the information provided by individual facilities. All of the listed facilities have a final or interim RCRA permit. As shown, approximately 40 million tons (9.7 billion gallons) of wastewater treatment capacity are available each year at these facilities. In addition, there are 11 other treatment facilities that were not included in this estimate because they did not supply the requested capacity information. By assigning the average available capacity (638,000 tons/year) to each of the non-reporting facilities, EPA estimates a total available wastewater treatment capacity of 47 million tons each year.

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[14] *Background Document for Third Third Wastes to Support CFR Part 268 Land Disposal Restrictions, May 1990,* and *Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions*, June 1992.

[15] Memorandum from Debra DiCianna, Engineering and Analysis Division, Office of Water, U.S. EPA to Bengie Carroll, Capacity Programs Branch, Office of Solid Waste, U.S. EPA, April 20, 1993. See Appendix C.

EXHIBIT 2-2
AVAILABLE WASTEWATER TREATMENT CAPACITY

Name	EPA ID Number	Maximum Capacity (gallons)	% Used in 1989	Available Capacity (gallons)
Sloss Industries Corporation		548,000,000	33	367,160,000
Crosby and Overton, Inc.		2,340,000	100	0
Oil Process Co.	CADO5O806850	1,894,000	81	363,000
Southern California Chemical Co., Inc.		21,350,000	60	8,589,000
Romic Chem. Corp.		4,983,000	59	2,043,000
CP Chemicals		5,808,000	74	1,510,000
Chem-Tech Systems	CAT080033681	0	0	0
H&H Ship Service		0	0	0
Norris Industries, Inc.		477,791,000	45	262,355,000
Appropriate Technologies II, Inc.		8,943,000	18	7,333,000
Solvent Service Co., Inc.	CAD059494310	0	0	0
American Chemical & Refining Co.	CTD001184894	2,375,000	79	499,000
Envirite Corporation (CT)		53,500,000	30	37,552,000
Pratt & Whitney Aircraft Group MD & CPD.	CTD000844399	1,760,669,000	2	1,312,578,000
United Oil Recovery, Inc.		13,140,000	50	6,570,000
Cecos Treatment Corp.		62,500,000	6	58,738,000
Environmental Waste Resources, Inc.	CTD072138969	38,536,000	78	8,478,000
Alternate Energy Resources, Inc.		1,867,200,000	20	1,493,387,000
Pearl Hbr. Navy Public Works Ctr.		0	0	0
Maytag Co.		390,000,000	73	105,300,000
John Deere-Component Works		43,212,000	63	15,989,000
Envirite Corp. (IL)	ILD000666206	10,620,000	67	3,516,000
Peoria Disposal Co.-Pottstown		50,000,000	49	25,625,000

EXHIBIT 2-2 (Continued)
AVAILABLE WASTEWATER TREATMENT CAPACITY

Name	EPA ID Number	Maximum Capacity (gallons)	% Used in 1989	Available Capacity (gallons)
Chem-Clear, Inc.		36,000,000	47	19,080,000
Beaver Oil Co., Inc.	ILD064418353	14,000,000	20	11,200,000
Heritage Environmental Services, Inc.	IND093219012	299,290,000	30	209,443,000
Eli Lilly & Co. Tippecanoe Labs	IND006050967	0	0	0
Clean Harbors, Inc.	MDD980555189	44,100,000	12	38,808,000
American Waste Oil Corp.		6,240,000	80	1,248,000
Environmental Waste Control, Inc		60,000,000	30	42,000,000
Cyanokem		30,865,000	34	20,371,000
Dynecol, Inc.		36,320,000	50	18,291,000
Edwards Oil Co.		21,600,000	80	4,320,000
Metro Recovery Systems	MND981098478	15,130,000	50	7,565,000
Heritage Environmental Services, Inc	NCD121700777	7,500,000	72	2,100,000
Brunswick Corp.	NED043534635	244,000	3	237,000
Dupont E I De Nemours, Chamber Works	NJD002385730	14,600,000,000	78	3,212,000,000
CP Chemicals, Inc.	NJD002141950	54,000,000	90	5,400,000
Remtech Environmental Group		0	0	0
Chemical Waste Management of New Jersey	NJD089216790	52,560,000	23	40,471,000
Eticam	NVD980895338	750,000	14	647,000
Chemical Waste Management of New York		21,024,000	73	5,676,000
Cecos International	NYD080336241	0	0	0
Chemical Management, Inc.	NYD000691949	7,800,000	44	4,368,000
Envirite Corp.		63,963,000	44	35,909,000
Clark Processing, Inc.		6,500,000	86	910,000
Research Oil Co.	OHD004178612	86,300,000	49	44,013,000
Brush Wellman, Inc.		0	0	0
Cecos International, Inc.	OHD087433744	23,400,000	12	20,592,000
Clean Harbors	OHD000724153	63,000,000	65	22,050,000
Conoco, Inc. Ponca City	OKD007233836	720,000,000	92	57,600,000

EXHIBIT 2-2 (Continued)
AVAILABLE WASTEWATER TREATMENT CAPACITY

Name	EPA ID Number	Maximum Capacity (gallons)	% Used in 1989	Available Capacity (gallons)
US Pollution Control, Inc.		6,000,000	50	3,000,000
Tektronix, Inc.	ORD009020231	407,788,000	13	353,675,000
Waste Conversion, Inc.	PAD085690592	35,986,000	80	7,197,000
Envirite Corporation (PA)	PAD010154045	30,000,000	79	6,300,000
Mill Service, Inc.	PAD059087072	74,200,000	57	32,129,000
Mill Service, Inc. Yukon Plt.		164,000,000	44	91,840,000
Eticam	RID980906986	6,000,000	42	3,480,000
CP Chemicals, Inc.		45,602,000	61	17,785,000
Tricil Environmental Services, Inc.		89,712,000	9	81,638,000
TN Eastman Div. Eastman Kodak	TND003376928	8,710,000	88	1,045,000
Osco Incorporated		0	0	0
Intercontinental Terminals Co.		100,000,000	17	83,000,000
Encycle/Texas, Inc.		120,500,000	30	84,892,000
Empac, Inc. Deer Park		316,411,000	35	205,636,000
Treatment One, Div. of Set Environmental, Inc.		2,000,000	2	1,960,000
Belpar Environmental of Virginia, Inc.		390,000	70	117,000
Boeing Co.-Auburn	WAD041337130	371,935,000	42	214,123,000
Crosby and Overton, Inc. Plant 2		20,752,000	1	20,646,000
Chemical Processors, Inc.		13,142,000	40	7,830,000
Chemical Processors, Inc.		0	0	0
Chemical Processors, Inc.		17,001,000	41	10,102,000
Petroleum Reclaiming Service, Inc.		15,750,000	11	14,018,000
Northwest Enviroservice, Inc.		35,640,000	62	13,458,000
Union Carbide AGR. Prod. Co., Inc.	WVD004325353	2,102,000,000	57	903,860,000
Inco Alloys International, Inc.	WVD076826015	0	0	0
Total		**25,616,967,000**		**9,699,612,000**

EPA used the 1991 BRS to confirm available wastewater treatment capacity (see Appendix C). The BRS is a system by which RCRA-regulated treatment, storage, and disposal facilities (TSDFs) and large quantity generators provide EPA with information on their hazardous waste activities. The PS Form of the 1991 BRS contains information on the waste treatment systems, including both maximum

and utilized capacity. EPA determined the total available wastewater treatment capacity[16] reported in the BRS at facilities representing approximately 90 percent of the total operational capacity reported in the Waste Treatment Industry Questionnaire. According to the BRS, in total these facilities have 33 million tons of available capacity (7.9 billion gallons). If this estimate is adjusted to reflect the fact that it only represents 90 percent of the total operational capacity, approximately 37 million tons (33 million tons divided by 0.9) of available wastewater treatment capacity are available. This estimate is close to 80 percent of the estimate obtained from the OW Questionnaire.

2.5 COMMERCIAL COMBUSTION CAPACITY

This section summarizes the results of EPA's analysis of available commercial combustion capacity at incinerators and BIFs (primarily cement kilns that are authorized to burn hazardous wastes as fuel). This includes an analysis of incinerator and BIF combustion capacity information received from the Hazardous Waste Treatment Council (HWTC) and the Cement Kiln Recycling Coalition (CKRC) in 1993 and the Environmental Technologies Council (ETC) in 1994.[17] Data were also obtained from Rollins Environmental Services (RES) through comments and subsequent submissions of Confidential Business Information (CBI) in 1996.

2.5.1 General Methodology

In 1993, the HWTC and CKRC surveyed their membership to obtain data on combustion capacity, which was then submitted to EPA. Subsequent to the original HWTC survey, members also received a supplemental questionnaire regarding the burning of soils. In 1994, ETC submitted updates to the HWTC Survey from its members. Survey responses received from incinerators are classified as confidential business information (CBI) and thus are provided only in an aggregated form in this document. Following the receipt of the original surveys, the Agency reviewed the data submitted by each facility to evaluate the completeness, consistency, and accuracy of the information. The Agency identified and reconciled data gaps and anomalies by contacting the respective HWTC or CKRC coordinators and the individual facilities in question.

Concurrent with the receipt of surveys received from the member groups, the Agency developed a data base to track and process major data elements for the capacity analysis. The data base contains facility information (e.g., location, EPA identification number of burner, number of units currently on-line), unit specific information (e.g., type of incinerator/kiln unit, operating hours per year, types of hazardous waste feed systems, types of hazardous waste burned in 1992), and waste-type specific information (e.g., tons of hazardous waste burned in 1992, average hazardous waste feed rate, maximum practical capacity, maximum permit capacity). Subsequent updates to the original survey submissions have also been entered into this database.

The information received from facilities participating in these surveys does not lend itself to simple summation and tabulation of results because facilities sometimes differed in their approach to reporting quantities burned or burning capacity. Incineration systems can generally accept multiple waste forms (e.g., pumpable sludges and aqueous liquids) and accepting larger amounts of one waste form may reduce the capacities for others. In responding to the HWTC survey (and ETC updates), facilities sometimes grouped waste types for their capacity-related responses. For example, if a feed system can accommodate both liquids and pumpable sludges, a facility may report a capacity for both

[16] Specifically, the estimate includes all aqueous organic and/or inorganic treatment systems.

[17] In 1994, HWTC became the Environmental Technologies Council (ETC). ETC provided EPA with a 1994 update to the commercial incinerator survey.

forms grouped together. To address this interchangeability of waste forms, the Agency's LDR capacity database accommodated the reported waste groupings (e.g., by developing one capacity estimate for liquids and pumpable sludges combined).

A second issue also relating to the interchangeability of waste forms required more extensive consideration. In the HWTC survey (and ETC update), some facilities reported the maximum combustion capacity for individual waste forms that together exceed the reported overall capacity of the unit. As a result, summing these individual capacities results in a total capacity that far exceeds what a facility may practically accommodate. Therefore, the Agency developed an algorithm to address this situation.

The waste apportionment algorithm focuses on three primary variables: the quantity of waste burned during the year, the maximum practical capacity of the unit, and the available capacity for burning hazardous waste. The available capacity for a waste form (e.g., aqueous liquids, dry solids) is obtained by taking the difference between the quantity of the form burned (hazardous and non-hazardous waste) and the maximum capacity for the waste form. The Agency's approach assumes that a facility will not stop burning non-hazardous waste if it is currently burning non-hazardous waste but all unutilized capacity will be used for hazardous waste. Difficulties arise, however, because facilities report maximum capacities for each waste form without regard to capacity accounted for by other waste forms (e.g., some facilities report the same treatment capacities for sludges as for soils because their treatment systems can accommodate both wastes). Consequently, the sum of maximum capacities for all waste forms may exceed the total capacity.

In these cases, the Agency distributed the total maximum hazardous waste capacities reported by each facility to individual waste forms based on burning practices. The utilization rate for each waste form was calculated by dividing the larger of the quantity of hazardous waste burned or total waste burned for that waste form by the sum of the quantities burned for all waste forms. A new maximum hazardous waste capacity for each waste form was then calculated by multiplying the utilization rate for that waste form by the maximum practical capacity for the incineration unit as a whole.

If the calculated maximum capacity for a waste form exceeded the reported value for that form, EPA used the reported value. In this case, the difference between the calculated and reported value was then redistributed to other waste forms using a hierarchy based on the types of wastes in this rule for which capacity has historically been most limited relative to demand. The Agency used the following order for redistributing capacity:

- Soils;
- Bulk Solids;
- Containerized Solids;
- Nonpumpable Sludges;
- Pumpable Sludges;
- Compressed Gases;
- Non-aqueous Liquids; and
- Aqueous Liquids.

Cement kiln capacity for hazardous waste generally is limited by air emission limits (e.g., boiler and industrial furnace (BIF) limits under 40 CFR 266 subpart H), feed system limitations (e.g., particle size and viscosity limits), and product (i.e., cement clinker) quality considerations. For instance, cement quality considerations may require that wastes burned in cement kilns have a heating value of at least 5,000 BTU/lb to ensure adequate temperatures in the kiln. (Comments received by EPA in previous

rulemakings, however, indicate that some kilns accept wastes below this heating value.) Incineration capacity is also limited by air emission limits and other permit limits (such as heat release limits), and feed system limits. EPA has taken these limitations into account in its estimates of available commercial combustion capacity.

"Pre-baseline" (i.e., prior to accounting for Phases I, II, and III LDR required capacity) available combustion estimates were calculated using the above methodology. EPA then subtracted the required combustion capacity for any previously regulated wastes that are not accounted for in the data received from the incinerators or BIFs (e.g., Phase I wastes under variance and Phase II and III wastes) to derive the baseline available combustion capacity for Phase IV wastes. The capacity required for Phase II and III wastes is not reflected in the estimates of utilized capacity because the Phase II and III rules, promulgated on September 19, 1994 (59 *FR* 47982) and April 8, 1996 (61 *FR* 15566), respectively, were not in effect when the estimates were submitted to EPA. In addition, some Phase I wastes (F037 and F038 in particular) were under a variance for at least part of the period of time for which EPA received capacity estimates (see 57 FR 37194, June 30, 1992).

For this final rule, EPA conducted additional analysis by incorporating new data submitted by commenters to the proposed rule, developing assumptions to account for the uncertainty associated with the age of the bulk of the data (which are now several years old), and assessing the potential trends in combustion capacity over the next two years. Thus, this additional analysis primarily involved three activities: (1) updating available capacity where possible using facility-specific CBI submitted by Rollins Environmental Services (RES), (2) applying assumptions where necessary to obtain a range of overall available capacity, and (3) researching potential impacts of upcoming maximum achievable control technology (MACT) standards.

2.5.2 Results

Exhibit 2-3 summarizes EPA's estimate of the "pre-baseline" available commercial hazardous waste capacity by waste form for incinerators and BIFs. The following paragraphs discuss refinements of these estimates for wood preserving wastes in terms of two types of capacity: (1) liquids, and (2) pumpable/nonpumpable sludges, solids, and soils. This discussion is organized around these two types of capacity because most wastes are assigned to these two types of treatability groups.

Combustion capacity for liquid forms of hazardous wastes has historically been more readily available than capacity for sludges and solids. Using data from Exhibit 2-3, EPA estimates that the pre-baseline available commercial combustion capacity for liquids is about 1,078,000 tons per year.[18] EPA then subtracted the 11,000 tons of required capacity for liquid Phase II wastes. Because Phase III did not result in any required capacity for liquids, the result—1,067,000 tons/year—is assumed to still be available overall. In the Phase IV rulemaking for wood preserving wastes, EPA estimated that approximately 26,312 tons/year of combustion capacity is required for liquid wastes from wood preserving operations. Subtracting this required capacity results in an estimate of 1,040,688 tons/year of

[18] EPA first estimated that there is approximately 1,010,000 tons/year of available capacity for waste forms reported as "aqueous liquids" (92,000 tons/year), "non-aqueous liquids" (159,000 tons/year), and "all liquids" (759,000 tons/year). EPA then added to this quantity the estimate of available capacity to treat "liquid/pumpable sludges" (i.e., 68,000 tons/year). Because this latter quantity is for mixed forms of waste, it was excluded from the non-liquid estimate described below to avoid double counting.

EXHIBIT 2-3
PRE-BASELINE AVAILABLE COMMERCIAL HAZARDOUS WASTE COMBUSTION CAPACITY SUMMARY

Waste Form	Incinerators			BIFs			Total Available (1000 tpy)
	Maximum (1000 tpy)	Available (1000 tpy)	Percent Utilized	Maximum (1000 tpy)	Available (1000 tpy)	Percent Utilized	
Liquids (aqueous)	190	92	51	NA	NA	NA	92
Liquids (non-aqueous)	346	159	54	NA	NA	NA	159
Reported as All Liquids (aqueous & non-aqueous)	82	56	31	1,548	702	55	759
Reported as Liquids & Pumpable Sludges Grouped	32	20	38	236	49	79	68
Pumpable Sludges	116	66	43	37	12	68	78
Nonpumpable Sludges	32	17	47	5	1	72	18
Reported as Solids & Nonpumpable Sludges Grouped	53	38	27	35	11	69	49
Bulk Solids	133	70	47	25	18	30	88
Dry Solids	NA	NA	NA	49	39	20	39
Containerized Solids	231	102	56	146	106	28	208
Compressed Gases	5	3	43	NA	NA	NA	3
Soils	169	157	7	NA	NA	NA	157
TOTAL LIQUIDS & PUMPABLE SLUDGES	766	393	49	1,822	763	58	1,156
TOTAL SOLIDS & NON-PUMPABLE SLUDGES	618	384	38	261	175	33	560
TOTAL	1,390	780	44	2,083	938	55	1,718

1. Values for maximum, available, and percent utilized reflect pre-baseline data (i.e., prior to accounting for Phase I, II, and III required capacity). Values estimated for Phase IV wastes are based on these data and are provided in the text. These numbers may not add due to rounding.
2. This report only includes capacity for currently operating units. The following units are not included in the roll-ups: Waste-Tech (Kimball, NE), Waste-Tech (East Liverpool, OH), CWM (Chicago, IL), and Ash Grove (Louisville, NE).
3. The following BIFs have been included in these figures based on data obtained from the September 1993 EI Digest: North Texas Cement (Midlothion, TX), Florida Solite (Green Cove Springs, FL), Carolina solite (Albermarle, NC), Solite Co. (Arvonia, VA), Solite Co. (Cascade, VA), Essroc (Logansport, IN), Giant (Harleyville, SC), Heartland Cement Co. (Independence, KS), Medusa Cement Co. (Wampum, PA), River Cement (Festus, MO), and Southdown (Fairborn, OH).

available combustion capacity for treating liquid wastes that would be restricted from land disposal by today's proposed rulemaking. EPA used data from Exhibit 2-3 to estimate that the available pumpable/nonpumpable sludge, solid, and soil commercial combustion capacity in the pre-baseline (i.e., prior to the Phase I rule) is 638,000 tons/year.[19] Post-Phase I and II but pre-Phase III data obtained from one major treater, RES, through comments and subsequent submissions of CBI, as well as extrapolation of these data to all other combustion data, were used to update this pre-baseline estimate and to simultaneously account for Phase I and II wastes. The result is approximately 489,100 tons/year,[20] with a range between about 410,400 to 568,600 tons/year.[21] For the Phase III rule wastes, EPA estimated that the relevant required sludge, solid, and soil combustion capacity is 4,600 tons/year. Therefore, the overall current (pre-Phase IV) combustion capacity for sludge, solid, and soil is estimated at 484,500 tons/year (between about 405,800 to 564,000 tons/year). In the Phase IV rulemaking for wood preserving wastes, EPA estimated that approximately 8,968 tons/year of non-liquid/nonwastewater combustion capacity is required for wastes from wood preserving operations. Thus, EPA estimates that approximately 474,532 tons/year (396,823 to 555,032) of combustion capacity is available to treat wastes restricted from land disposal by the Phase IV second supplemental rulemaking.

The estimates discussed above of available combustion capacity are expected to remain relatively steady through 1999. Although one munitions treatment facility is awaiting approval of its permit to burn military munitions and other explosives, no applications for new hazardous waste incinerators are immediately pending. Most of the proposals for new combustion capacity that have surfaced recently are for facilities that specialize in the combustion of military munitions, other explosive materials, or mixed wastes.[22] In addition, several facilities that had proposed expansion of thermal capacity have now abandoned their proposals.[23] Difficulties in permitting make it highly unlikely that other combustion units, such as mobile incineration units, could be brought on-line in the near-term (i.e., within two years). Recent industry publications, such as *The Hazardous Waste Consultant*, indicate that the public continues to oppose nearly every proposed hazardous waste management facility, and state and local legislative bodies continue to pass restrictive siting laws or permitting moratoriums. As a result, many project sponsors have already, or may eventually, find the process too costly.[24] Lastly, the final maximum achievable control technology (MACT) standards for combustors (expected in 1998; see proposed rule, 61 FR 17358) may decrease this available capacity to some degree. However, given the

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[19] EPA summed the available capacity of "pumpable sludges" (78,000 tons/year), "nonpumpable sludges" (18,000 tons/year), "solids and non-pumpable sludges" (49,000 tons/year), "bulk solids" (88,000 tons/year), "dry solids" (39,000 tons/year), "containerized solids" (208,000 tons/year), and "soils" (157,000 tons/year).

[20] To calculate this quantity, EPA first developed separate estimates of available combustion capacity for RES facilities and non-RES facilities. EPA determined the pre-baseline capacity available at non-RES facilities by subtracting the pre-baseline combustion at RES facilities from the pre-baseline estimate of national sludge, solid, and soil combustion available capacity, and then subtracting an estimate of the non-RES share of wastes restricted from land disposal due to the Phase I and II rulemakings. EPA then added this result to the estimated increase in RES available capacity to estimate the total pre-Phase III available capacity for incinerators and BIFs. Because most of the information used in these calculations is CBI, EPA can not disclose the details in this document.

[21] Because of the age of the data used and the uncertainties of the various assumptions used, EPA developed a "best estimate" and a range of available combustion capacity values. EPA's best estimate is based on a calculation of the current percentage of the Phase I and II wastes that RES is combusting. The range was calculated by assuming that RES is combusting a lesser percentage than the best estimate (lower end), or is burning a greater percentage than the best estimate (upper end).

[22] "Commercial Hazardous Waste Management Facilities: 1997 Survey of North America," *The Hazardous Waste Consultant*. March/April 1997.

[23] Aptus, Inc. (Rollins) of Coffeyville, Kansas; Holnam, Incorporated of Ada, Oklahoma; and Medusa Cement Company of Clinchfield, Georgia, as described in "Commercial Hazardous Waste Management Facilities: 1997 Survey of North America," *The Hazardous Waste Consultant*. March/April 1997. Note that the planned expansion by Aptus, Incorporated, would have added more capacity to the estimates discussed above.

[24] "Commercial Hazardous Waste Management Facilities: 1997 Survey of North America," *The Hazardous Waste Consultant*. March/April 1997.

worst-case assumptions used above, EPA does not expect the MACT standards to significantly reduce the available capacity estimated for Phase IV wastes.

2.6 MIXED RCRA/RADIOACTIVE WASTE CAPACITY

Available commercial treatment capacity for mixed radioactive waste is discussed in detail in the capacity analysis background document for the original Phase IV proposed rule (60 *FR* 43654). As discussed in detail in that capacity analysis, any commercial capacity that is available for mixed radioactive wastes must be used for mixed wastes that were regulated in previous LDR rulemakings and whose variances have already expired.

CHAPTER 3
CAPACITY ANALYSIS FOR TOXICITY CHARACTERISTIC METAL WASTES

This section presents EPA's capacity analysis for the TC metal wastes covered by the proposed Phase IV LDR second supplemental rule. TC metal wastes referred to in this analysis include all of the newly identified TC metal wastes and the characteristic wastes previously identified by the Extraction Procedure (EP). Section 3.1, Regulatory Background, provides additional detail on the wastes addressed in this analysis; Section 3.2 describes the data sources used in the analysis; Section 3.3 describes TC metal waste generation and management; Section 3.4 discusses the soil and debris contaminated with newly identified TC metal wastes; Section 3.5 provides the capacity analysis; and Section 3.6 summarizes the results of the capacity analysis.

3.1 REGULATORY BACKGROUND

On May 19, 1980 (45 *FR* 33084), the Agency promulgated the final rule on the use of the Extraction Procedure (EP) toxicity test to identify wastes that pose a hazard to human health and the environment due to their potential to leach significant concentrations of hazardous constituents. Eight metal (D004-D011) and six pesticide constituents (D012-D017) were identified, which if present in the EP waste extract in excess of specified concentrations caused the waste to be identified as hazardous. EPA determined the regulatory concentration levels by multiplying constituent-specific chronic toxicity levels (the National Interim Primary Drinking Waster Standards (DWS)) with a generic dilution/attenuation factor of 100, to reflect both the concentration at which the constituent is harmful to human health and the environment and the fate of the constituent in the environment.

On March 29, 1990 (55 *FR* 11798), the Agency, after several revisions to the existing hazardous waste identification regulations, finalized the Toxicity Characteristic (TC) rule. The TC rule replaced the EP leaching test with the Toxicity Characteristic Leaching Procedure (TCLP) and added 26 organic compounds to the list of TC constituents (D018-D043). A comprehensive list of the Federal Register notices related to the development of the TC regulations is provided in Exhibit 3-1.

Since the promulgation of the TC rule in 1990, the TCLP has been used to determine the toxicity characteristic of a metal waste. Wastes that are characteristic by the TCLP but not by the EP are considered newly identified wastes, which are currently not subject to the land disposal restrictions. On August 22, 1995 (60 *FR* 43654), the Agency proposed revised treatment standards, under the LDRs program, for all characteristic metal wastes, including those previously regulated by the EP. These revised treatment standards, for both wastewater and nonwastewater forms of D004-D011 wastes, are numerically equivalent to the universal treatment standards (UTS). A universal treatment standard is a single treatment standard established for a specific constituent regardless of the waste matrix in which it is present, i.e., the same treatment standard applies to a particular constituent in each waste code in which it is regulated.[1]

EPA received several comments on the treatability of TC metal wastes to the UTS levels. Upon additional review of the comments and data submitted by the commenters, the Agency, in today's proposed rule is proposing to revise the UTS for certain metal constituents in TC wastes and at the same

[1] A more detailed discussion of the Agency's rationale and technical support for establishing universal treatment standards for TC wastes is provided in: U.S. EPA, Final Best Demonstrated Available Technology (BDAT) Background Document for Universal Standards, Volume A: Universal Standards for Nonwastewater Forms of Listed Hazardous Wastes, and Volume B: Universal Standards for Wastewater Forms of Listed Hazardous Wastes, U.S. EPA, Office of Solid Waste, July 1994.

Exhibit 3-1
List of Federal Register Notices Addressing Toxicity Characteristic Rulemakings

TC Issue	FR Notice	Date
Final Rule for Identification and Listing of Hazardous Waste: Use of EP Toxicity Test Procedure	45 *FR* 33084	May 19, 1980
Notice of Availability of Reports that Support the TCLP	51 *FR* 24856	July 9, 1986
Proposed Revisions to the Identification and Listing of Hazardous Waste: Use of the TCLP and Addition of Constituents to the Toxicity Characteristic	51 *FR* 21648	July 13, 1986
Final Land Disposal Restrictions Approach: Use of the TCLP for Compliance with Treatment Standards	51 *FR* 40572	November 7, 1986
Supplemental Notice of the Proposed Rulemaking: Consideration of Separate Wastewater TC	52 *FR* 18583	May 18, 1987
Notice of Data Availability and Request for Comments: Supplemental to Proposed Rule: Use of a Generic DAF and Chronic Toxicity Reference Level Revisions	53 *FR* 18024	May 19, 1988
Proposed Revisions to TCLP to Replace Particle Reduction Step	53 *FR* 18792	May 24, 1988
Proposed Modifications to Groundwater Model	53 *FR* 28892	August 1, 1988
Identification and Listing of Hazardous Wastes: Toxicity Characteristic Revisions, Final Rule	55 *FR* 11798	March 29, 1990
Final Rule for Land Disposal Restrictions for Third Third Scheduled Wastes	55 *FR* 22520	June 1, 1990
Corrections to March 29, 1990 Toxicity Characteristic Revisions	55 *FR* 26986	June 29, 1990
ANPRM and Request for Comment and Data for the Approach for Establishing BDAT Treatment Standards for D004-D043	56 *FR* 55160	October 24, 1991
Land Disposal Restrictions - Phase II: Universal Treatment Standards for Organic TC Wastes and Newly Listed Wastes	59 *FR* 47982	September 19, 1994
Proposed Land Disposal Restrictions - Phase IV: Treatment Standards for TC Metal Wastes	60 *FR* 43654	August 22, 1995
Land Disposal Restrictions - Supplemental Proposal to Phase IV: Clarification of Bevill Exclusion for Mining Wastes, Changes to the Definition of Solid Waste for Mineral Processing Wastes, Treatment Standards for Characteristic Mineral Processing Wastes, and Associated Issues.	61 *FR* 2338	January 25, 1996

time re-propose the UTS for certain other metal constituents, as originally proposed, and make a national capacity variance determination.

3.2 DATA SOURCES

EPA has collected available information on Phase IV TC metal wastes, including contaminated soil and debris, from a number of sources to support the proposed LDRs. The primary data sources used in this capacity analysis are described below.

3.2.1 Information from Background Documents Developed for the Third Third Rulemaking

For the Third Third Rulemaking (55 *FR* 22520, June 1, 1990), the Agency conducted a comprehensive study on the TC metal waste generation and management at the industry and facility level. Information collected and analyzed for the Third Third rulemaking is used in the present analysis for characterizing the TC metal wastes.[2]

3.2.2 Comments from the ANPRM

On October 24, 1991 the Agency published an Advanced Notice of Proposed Rulemaking (ANPRM) (56 FR 55160) and requested comments and data on the development of treatment standards and quantities of wastes requiring alternative commercial capacity due to the LDRs for a group of newly listed wastes, including the TC metal wastes. Several commenters provided comments and data on the TC metal waste generation and management. Applicable comments and data are included in the capacity analysis described in this report.

3.2.3 Biennial Reporting System (BRS)

The 1993 BRS provides information on waste generation and management practices at the individual waste stream and facility level. The BRS is a system by which RCRA-regulated treatment, storage, and disposal facilities (TSDFs) and large quantity generators provide EPA with information on their hazardous waste activities. The BRS contains information on the waste streams generated on site and received from off site, waste physical form, waste codes, waste quantity, and the treatment systems used to treat each hazardous waste stream. Data from the BRS was the primary source for the analysis of required capacity for the TC metal wastes(Appendix D). A detailed description of the methodology and assumptions for using the BRS data are provided in Section 3.5.

3.2.4 Comments from the Original Phase IV LDR Proposed Rule for TC Metal Wastes

In the original Phase IV LDR proposal for TC metal wastes (60 *FR* 43654, August 22, 1995), EPA solicited comments on the waste quantities and management practices of the newly identified TC metal wastes that were impacted by this rule. Several commenters provided comments and data on the TC metal waste generation and management. Applicable comments and data are included in the capacity analysis described in this report.

3.2.5 Comments from the Phase IV Notice of Data Availability (NODA)

On May 10, 1996, the Agency published the NODA (61 *FR* 21418) as a supplement to the original Phase IV proposed rule. In this NODA, EPA requested additional information on the generation

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[2] U.S. EPA, Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions - Final Rule, Third Third Waste Volumes, Characteristics, and Required and Available Treatment Capacity, Office of Solid Waste, May 1990.

and management of the TC metal wastes and TC contaminated soil. Several commenters provided information on waste quantities generated and management practices for TC metal wastes. These comments and data are included in the capacity analysis described in this report.

3.3 WASTE GENERATION AND MANAGEMENT

TC metal wastes are generated by a wide variety of industries and in many different forms. Furthermore, the waste generation rates vary widely from industry to industry. However, the processes by which TC metal wastes are generated are similar for many of the various metals. A more detailed discussion of the potentially impacted industries, and the specific compounds of interest for each TC metal is provided in EPA's Proposed Best Demonstrated Available Technology (BDAT) Background Document for Toxicity Characteristic Metal Wastes - D004-D011, Office of Solid Waste, July 26, 1995.

As indicated in Section 3.1, two different categories of TC metal wastes exist.[3] First is the wastes that are hazardous or would be hazardous using the EP. These wastes are currently required to be treated to the TC level. Second is the newly identified TC metal wastes (i.e., they are not or would not be hazardous using the EP), which currently do not require treatment prior to Subtitle C management (see Section 3.1 for additional regulatory background); this category of waste likely is already being treated to TC levels in order to avoid the higher cost of Subtitle C disposal. In today's proposed rule, the Agency proposes to regulate both categories of TC metal wastes. The BRS data (i.e., the primary data used for the estimate of required capacity) includes information on both of these TC metal waste categories.

The Agency relied primarily on the 1993 BRS to estimate the quantity of potential Phase IV TC metal waste that is currently being generated[4] and currently being surface-disposed (and thus potentially requiring alternative treatment). The following steps describe the methodology used to identify these wastes from the BRS:

1. Data was extracted from the BRS GM Form for all of the TC metal waste streams that carried at least one TC metal code (D004-D011) and no other code. Thus, waste streams that carried a TC metal waste code along with a listed waste code or other characteristic waste code (e.g., a TC organic waste code) were excluded because the TC metals and the UHCs in these waste streams were addressed when EPA promulgated the UTS for these wastes in previous LDR rulemakings.

2. The data were aggregated according to whether the waste was managed on site or shipped off site. The on-site quantity is the "quantity treated, disposed, or recycled in 1993" from the GM form (not the "quantity generated in 1993"), while the off-site quantity is the "total quantity shipped in 1993." Total generation is the summation of these two quantities.

3. To avoid double-counting, non-primary TC metal wastes were eliminated using an origin code of 5 in the GM form.[5] Similarly, waste streams with an origin code of 4, which indicates that the waste stream was received from off site but not managed on site, were eliminated.[6]

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[3] In fact, three categories exist. The third is the EP wastes that are not TC hazardous. These wastes do not need to meet the LDRs because they are no longer considered hazardous wastes.

[4] For the purpose of this capacity analysis, and as discussed in more detail later in this section, the TC metal waste generation refers to wastes that carry only a TC metal code and that are not deep well injected or disposed without treatment under a National Pollutant Discharge and Elimination System (NPDES) permit.

[5] An origin code of 5 on the GM Form indicates that the waste stream was derived from the management of a hazardous waste. In general, non-primary waste streams (i.e., treatment residuals) are not included in the capacity

4. Deepwell/underground injection wastes (waste code M134) and wastes that are directly discharged to surface water under NPDES without prior treatment (waste code M136) were excluded. Underground injected wastes are addressed by a separate analysis, and the NPDES wastes are generally not subject to the LDRs.

5. The generated quantities were aggregated by inorganic and organic liquids, inorganic and organic solids, and inorganic and organic sludges.

6. Waste quantities were aggregated by waste code. Waste streams with multiple TC metal waste codes were grouped separately as "mixture" streams.

Exhibit 3-2 provides the TC metal-only waste quantities generated by waste code and waste type. Note, however, that this exhibit shows total waste generation, which includes wastes potentially affected by the Phase IV LDRs. To estimate the quantity of wastes potentially affected by the Phase IV LDRs, several additional steps were taken and assumptions were made. (See Appendix D for the raw data used for this analysis.)

Exhibit 3-2
1993 Generation of TC Metal Wastes (Tons)[a]

Waste Code	Inorganic Liquids	Organic Liquids	Inorganic Solids	Organic Solids	Inorganic Sludges	Organic Sludges	Total
Arsenic (D004)	162,855	789	4,039	746	520	3	168,952
Barium (D005)	66,364	260	23,822	1,077	431	234	92,188
Cadmium (D006)	1,169,776	1,435	19,173	313	132,594	83	1,323,373
Chromium (D007)	16,823,543	42,474	49,866	2,144	389,790	873	17,308,690
Lead (D008)	6,202,113	29,455	1,190,037	5,607	23,519	1,956	7,452,686
Mercury (D009)	2,690,316	469	8,634	81	95	19	2,699,614
Selenium (D010)	199,733	388	793	22	16,078	0.6	217,015
Silver (D011)	252,682	13,166	2,198	45	1,192	0.3	269,284
Mixtures	3,971,784	12,070	170,953	5,267	36,222	4,051	4,200,347
Total	**31,539,166**	**100,506**	**1,469,515**	**15,302**	**600,442**	**7,220**	**33,732,151**

[a] For the purpose of this capacity analysis, and as discussed in more detail later in this section, the TC metal waste generation refers to wastes that carry only a TC metal code and that are not deep well injected or disposed without treatment under a NPDES permit.

The first key assumption developed to identify TC metal wastes affected by the LDRs involved wastewaters. TC metal wastewaters typically are managed in tanks and discharged under Clean Water Act (CWA) or equivalent regulations or in underground injection wells, and thus would not require any additional treatment capacity or are otherwise outside the scope of this analysis of surface-disposed wastes. Therefore, wastewaters are excluded from our analysis (although liquid nonwastewaters are included). In fact, these wastewaters are likely not reported in the BRS because they do not meet the

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estimates because if management practices change as a result of the LDRs, such residuals will no longer be generated.

[6] Waste streams that are sent to a transfer facility and then sent to a hazardous waste management facility are supposed to be reported in the BRS at least twice, once by the facility generating the waste and once by the facility transferring the waste. To avoid double-counting, waste streams with an origin code of 4 (indicating that the waste was received from off site and not managed on site) were eliminated.

definition of solid waste. However, residues resulting from the treatment of these wastewaters are usually managed as nonwastewaters and thus are included in the BRS.

To develop lower- and upper-bound estimates of the quantity of surface-disposed TC metal wastes, and thus of wastes that may require alternative treatment or recovery capacity upon promulgation of the Phase IV LDR rule, the Agency applied two key sets of assumptions:

1. For the upper-bound estimate, the Agency used the conservative assumption that all of the TC metal nonwastewaters that are either surface-disposed (i.e., where the system type was landfill, land treatment, surface impoundment, or "other" disposal), shipped to transfer facilities,[7] or reported as managed in invalid system types (e.g., when M141 (transfer off site) is used as an on site treatment) will require at least some form of alternative treatment/recovery to meet the new treatment standards. The actual quantity is likely to be lower than this for two main reasons: (i) many of these waste streams are not surface-disposed and thus would not require alternative capacity; and (ii) many facilities likely will make modifications in their production processes and/or waste management in order to avoid the LDRs. EPA believes that these reasons eclipse any of the reasons that would tend to indicate that this estimate would not be an upper bound.[8]

2. For the lower-bound estimate, EPA primarily used the assumption that only the reported surface-disposed wastes would require alternative capacity. The actual quantity is likely to be higher than this because many of the waste streams that are surface-disposed (and thus would likely require alternative capacity) are not reported as such in the BRS. This non-reporting is primarily due to SQGs and to the fact that when TC metal wastes are decharacterized through treatment (e.g., stabilization), they are no longer hazardous and thus their ultimate disposal no longer needs to be reported in the BRS. EPA believes that this non-reporting eclipses any of the reasons that would tend to indicate that this estimate would not be a lower bound.[9]

Exhibits 3-3 and 3-4 provide the upper-bound and lower-bound estimates of surface-disposed TC metal wastes, or approximately 2.6 million to 0.8 million, respectively. This estimate compares favorably with a lower-bound estimate of 2.2 million tons that was obtained by summing the non-mixture quantities (converted from gallons using 8.35 pounds/gallon) of EP metal wastes requiring alternative capacity described in the Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions, Final Rule, Third Third Waste Volumes, Characteristics, and Required and Available Treatment Capacity, Volume II, Chapter 3, May 1990. This (Third Third rule) is considered a lower-bound estimate for EP metal wastes at the time because it does not include EP metal wastes mixed with other EP metal wastes (nor other waste codes or organics, as with the TC metal estimates above). However, the mixture totals for each EP metal waste were consistently less (and usually much less) than the non-mixture totals, and thus the overall EP total from the Third Third LDR is believed to be less than approximately one and a half times the 2.2 million ton estimate (i.e., 3.3 million tons). Nevertheless, given the waste minimization, etc., that likely has occurred since the Third Third LDR, even one and a half times 2.2 million tons would compare favorably with the current estimates.

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[7] Given the manner in which transfers are reported, it is not always possible to identify how transferred waste streams are managed. Therefore, as a worst-case scenario, the Agency assumed that all shipments of wastes to transfer facilities require additional treatment.

[8] For example, small quantity generators (SQGs) are not required to report their wastes in the BRS. Furthermore, although many of these SQG wastes likely are transferred off site to be managed, and thus would be entered on a WR Form, only the generally smaller hazardous waste residual, if any, would be entered on a GM Form.

[9] For example, many facilities likely will make modifications in their production processes and/or waste management in order to avoid the LDRs.

Exhibit 3-3
Upper-bound Estimates of Surface-Disposed TC Metal Wastes (Tons)

Waste Code	Inorganic Liquids	Organic Liquids	Inorganic Solids	Organic Solids	Inorganic Sludges	Organic Sludges	Total
Arsenic (D004)	67	8	4,039	746	520	3	5,383
Barium (D005)	57	11	23,822	1,077	431	234	25,632
Cadmium (D006)	135,098	84	19,173	313	132,594	83	287,346
Chromium (D007)	1,399	2,400	49,866	2,144	389,790	873	446,471
Lead (D008)	46,260	1,525	1,190,037	5,607	23,519	1,956	1,268,905
Mercury (D009)	325,246	55	8,634	81	95	19	334,131
Selenium (D010)	31	7	793	22	16,078	0.6	16,932
Silver (D011)	339	10,532	2,198	45	1,192	0.3	14,306
Mixtures	1,503	987	170,953	5,267	36,222	4,051	218,983
Total	**510,001**	**15,609**	**1,469,515**	**15,302**	**600,442**	**7,220**	**2,618,089**

Exhibit 3-4
Lower-bound Estimates of Surface-Disposed TC Metal Wastes (Tons)

Waste Code	Inorganic Liquids	Organic Liquids	Inorganic Solids	Organic Solids	Inorganic Sludges	Organic Sludges	Total
Arsenic (D004)	33	0.4	2,511	57	420	0.75	3,022
Barium (D005)	0	2	556	497	24	0	1,079
Cadmium (D006)	135,050	25	12,583	84	40,302	39	188,083
Chromium (D007)	396	23	26,213	1,236	231	124	28,223
Lead (D008)	45,640	80	84,449	2,707	602	439	133,917
Mercury (D009)	325,026	0	7,145	35	0	0	332,206
Selenium (D010)	0	1	608	0.08	0	0.6	610
Silver (D011)	16	10,501	37	0.1	2	0	10,556
Mixtures	776	83	98,209	503	1,680	3,258	104,509
Total	**506,937**	**10,715**	**232,311**	**5,119**	**43,261**	**3,861**	**802,210**

3.4 SOIL AND DEBRIS CONTAMINATED WITH NEWLY IDENTIFIED TC METAL WASTES

In all of the data sources consulted by the Agency, there was little information on the amount of soil and debris that might be contaminated with the newly identified TC metal wastes. The Agency believes that most of the soil and debris will probably be generated when facilities begin closing surface impoundments to comply with the LDRs or as part of corrective action procedures where it will be necessary to remove the soils for treatment. Consequently, EPA has no estimates for the amount of contaminated soil and debris that would be subject to the LDRs for this proposed rule. Based on discussions with commercial treaters (see Chapter 2), the Agency believes that these wastes could be really treated to meet the proposed treatment standards. The Agency is seeking comments on this approach and requests the commenters to provide additional information and data on these wastes.

3.5 CAPACITY ANALYSIS

The capacity analysis for the original proposed Phase IV rule assumed that most TC metal wastes are already meeting treatment standards or will meet treatment standards once stabilization formulations and systems are optimized, and therefore no capacity variance was proposed. This section expands on that assumption and provides a waste code-specific discussion of TC metal wastes, including soils, mixtures, UHCs, and any unique features that could have a potential impact on this proposed capacity determination. Relevant comments and data submitted by the commenters in response to the ANPRM (56 *FR* 55160), the original Phase IV LDR proposal for TC metal wastes (60 *FR* 43654), and the NODA (61 *FR* 21418) are also included in this discussion.

3.5.1 Arsenic (D004)

As seen in Exhibits 3-3 and 3-4, approximately 3,000 to 5,400 tons/year of D004 wastes are surface disposed. EPA is re-proposing, as originally proposed, a UTS level of 5.0 mg/l for nonwastewater forms of D004 (Exhibit 3-5). Therefore, there is no change in the treatment standard due to this rulemaking (i.e., the TC level and the UTS level are the same) and, thus, the only potential concern for capacity for D004-only wastes appear to be for the UHCs (see Section 3.5.10). In response to the ANPRM, Chevron reported one facility that generates 30 tons per year of nonwastewaters exhibiting the TC for arsenic (D004) that were not hazardous under the EP. The proposed UTS levels for arsenic wastes are equivalent to the TC levels, however, and since the newly identified arsenic wastes likely are already being treated to the TC levels to facilitate Subtitle D management of the waste, no additional treatment would be required for these wastes as a result of today's proposed rule. Chemical Waste Management (CWM) stated that some arsenic poses technical problems in achieving UTS levels through stabilization technology, and that EPA should establish a high arsenic (> 200 ppm) subcategory. However, the Agency conducted site visits (see the site visit reports, located in the docked for today's proposed rule, for more detailed information) to the commercial treatment facilities to assess the treatability of TC metals using stabilization and collected treatment performance data, which show that arsenic could be treated to the proposed UTS levels using stabilization. Therefore, the Agency is proposing no changes to the originally proposed UTS level or variance decision for arsenic wastes.

Exhibit 3-5
TC Metal Regulatory Levels and Originally Proposed and Re-proposed Treatment Standards (Nonwastewater)

TC Metal	TC Regulatory Level (mg/l TCLP)	Originally Proposed UTS (mg/l TCLP)	Re-proposed UTS (mg/l TCLP)
Arsenic (D004)	5.0	5.0	5.0
Barium (D005)	100	7.6	**21.0**[a]
Cadmium (D006)	1.0	0.19	0.2
Chromium (Total) (D007)	5.0	0.86	**0.85**
Lead (D008)	5.0	0.37	**0.75**
Mercury-retort residues (D009)	0.20	0.20	0.20
Mercury-all others (D009)	0.20	0.025	0.025
Selenium (D010)	1.0	0.16	**5.7**
Silver (D011)	5.0	0.30	0.11

[a] Bold indicates changes to the originally proposed UTS levels.

3.5.2 Barium (D005)

As shown in Exhibits 3-3 and 3-4, approximately 1,000 to 25,600 tons/year of D005 wastes are surface disposed. EPA is re-proposing a revised UTS level of 21 mg/l for nonwastewater forms of D005. This value is about a 80 percent reduction in the treatment standard, but is significantly higher than the proposed level of 7.6 mg/l. No comments were received that provided data on or otherwise discussed the treatment capacity for this TC metal waste code. Therefore, D005-only wastes do not appear to present any particular capacity problems.

3.5.3 Cadmium (D006)

Approximately 188,000 to 287,000 tons/year of D006 wastes are surface disposed (Exhibits 3-3 and 3-4). EPA is re-proposing, a UTS level of 0.2 mg/l for nonwastewater forms of D006. This is approximately an 80 percent reduction in the treatment standard.

AFS and the TDJ Group, commenting to the original proposal, suggested that stabilization technologies have not been shown to treat cadmium to the proposed UTS level. These commenters also implied that waste streams containing cadmium along with other metal constituents present additional treatment problems. TDJ Group stated that approximately 500,000 to 1,000,000 tons of D006-D008 wastes will be affected by the proposed Phase IV rule, which is comparable to the approximately 350,000 to 2,000,000 tons of surface-disposed D006-D008 wastes that EPA estimated using the BRS (taking into account that not all of these wastes will be affected, and that the upper-bound includes a large one-time generation amount of inorganic lead solids). Furthermore, these commenters, in addition to others, suggested that HTMR is not commercially available for treatment and that stabilization is the only commercially available treatment technology for many TC metal wastes. However, no data were received specifically on the available treatment capacity for this TC metal waste. Furthermore, as indicated in Chapter 2 and in the BDAT Background Document, cadmium could be readily treated to meet the treatment standards using stabilization. Therefore, D006-only wastes do not appear to present any particular capacity problems.

3.5.4 Chromium (D007)

As seen in Exhibits 3-3 and 3-4, approximately 28,000 to 446,000 tons/year of D007 wastes are surface disposed. The Agency is re-proposing a UTS level of 0.85 mg/l for nonwastewater forms of D007 wastes. The re-proposed standard results in approximately an 80 percent reduction in the treatment standard and is approximately equivalent to the originally proposed standard of 0.86 mg/l.

AFS suggested that the originally proposed UTS (0.86 mg/l) for chromium would be difficult to achieve for chromium TC wastes (D007) in foundry sands. AFS suggested that the record was not sufficient to address known interferences with stabilization technologies. However, no data were submitted to support or refute this. Additionally, no comments were received specifically on stabilization or other treatment capacity for D007 wastes.

3.5.5 Lead (D008)

Approximately 134,000 to 1,269,000 tons/year of D008 wastes are surface disposed. The Agency is re-proposing a UTS of 0.75 mg/l for nonwastewaters of D008 wastes. This is a reduction of approximately 85 percent in the treatment standard, but is approximately two times higher than the originally proposed treatment standard of 0.37 mg/l.

In the original proposal EPA noted that, for lead wastes, the TCLP might be more aggressive in extracting lead than the EP, and therefore assumed that the additional quantities of newly identified D008 wastes will be approximately 20 percent of the quantity of D008 wastes that were hazardous by the old EP leaching procedure. Applying this 20 percent increase to the estimates EPA used for the Third Third LDR rule results in an additional 41,250 tons per year of D008 nonwastewaters that will require additional treatment. EPA requested comments on this assumption in the original proposal.

Substantial comments regarding the applicability of UTS for lead were submitted by AFS and the Association of Battery Recyclers (ABR). Both groups commenting on the treatment standards for lead suggested that the originally proposed 0.37 mg/l UTS level for lead nonwastewaters is too low and prefer a UTS between 3 and 5 mg/l. The following provide details on the data provided by industry on D008 capacity.

Foundry Sands Waste

AFS has estimated that approximately 410,000 tons of D008 foundry sands are generated each year (which is within EPA's estimated range for D008 wastes), and has stated that foundry metallic waste constituents and concentrations are highly variable. AFS also believes that the foundry sand and the emission control dust contain a significant amount of non-metallic constituents that differentiate foundry waste from K061 wastes, which EPA had used to establish high temperature metal recovery (HTMR) as the BDAT for some of the wastes. AFS believes that foundry sand differs from K061 in ways that precludes them from being treated similarly. These differences include: (1) K061 typically has a much higher concentration of recoverable heavy metals (primarily zinc); and (2) K061 does not have an extremely high sand content in its waste matrix. Emission control dust from foundries also differs from K061 because K061 typically has a much higher overall concentration of recoverable heavy metals (primarily zinc). Because of these critical differences, AFS does not believe that HTMR is available or practical for foundry wastes.

The Agency received additional data from several commenters in response to the original proposed rule. Based on these data the EPA believes that the potentially affected TC metal universe is limited to certain lead-bearing D008 hazardous wastes. The Agency estimates that there are 761 non-ferrous foundries that generate approximately 300,000 tons of hazardous foundry sands, and 9 firms owning 15 secondary lead smelters that generate approximately 198,000 tons of hazardous slags.

Commenters did not provide any comments specifically on stabilization capacity. However, data submitted by the foundry industry shows that the originally proposed UTS level for lead was sometimes achieved through stabilization, even when the treatment system (stabilization) was designed only to target the TC level and not the proposed UTS level. These facts seem to indicate that foundry sands can be treated to the proposed treatment standards using stabilization, and thus meeting the higher re-proposed UTS of 1.6 mg/l will be even less of a problem.

TC Lead Battery Slag

The Association of Battery Recyclers (ABR) and Battery Council International (BCI) submitted some stabilization data, and requested that the UTS for lead be raised to 2.97 mg/l. BCI estimates that the amount of lead slag requiring treatment is approximately 250,000 tons per year and ABR states that an estimated 260,000 tons per year of D008 slag will require treatment (which is within our estimated range for D008 wastes). EPA's preliminary analysis of the data indicated that these data would not affect the estimate of the required or available treatment capacity.

EPA received comments from the Environmental Technology Council (ETC) in response to the Notice of Data Availability (NODA) for the LDR Phase IV proposed rule that provided treatability data that demonstrated that lead battery slags and sludges can be treated by stabilization to UTS for lead and underlying hazardous constituents (UHCs).

ETC's data for lead shows that out of 36 samples of stabilized slag, 29 (80.6%) achieved a TCLP result below the originally proposed UTS for lead of 0.37 mg/l. In all cases the treatment objective was to reduce leachability to below characteristic level, since UTS levels were not applicable at the time. Nevertheless, not only did the stabilization meet the characteristic levels for these samples, it also met the proposed UTS levels for all arsenic, barium, and nickel values. Eight of the nine (88.9%) cadmium values and six of the seven (85.7%) selenium values also met the proposed UTS. Based on these treatability data, ETC believes there can be no doubt regarding the ability to meet the UTS for this slag. Hence, it is unlikely that there will be any capacity shortfalls for TC metal wastes affected by the proposed rule once stabilization "formulations" are optimized to meet UTS.

These data seem to confirm EPA's assumption that the rule would primarily only require some modification to existing stabilization "formulations" to meet UTS. Consequently, sufficient capacity likely already exists to treat these wastes.

3.5.6 Mercury (D009)

EPA is re-proposing, as originally proposed, a UTS level of 0.20 mg/l for the nonwastewater mercury retort residue subcategory and 0.025 for all other nonwastewater forms of D009. Mercury Recovery Services (MRS) provided data (see Appendix E) to show that the proposed UTS levels can be achieved and noted that MRS has the capability to provide mobile treatment units for treating mercury contaminated wastes. No other specific comments were received that would affect our estimate of the required or available alternative treatment capacity for D009-only waste. Therefore, D009-only wastes do not appear to present any particular capacity problems.

3.5.7 Selenium (D010)

Approximately 600 to 17,000 tons of D010 wastes are surface disposed. The Agency, in the original proposal, proposed a treatment standard of 0.16 mg/l for nonwastewater forms of D010 wastes. However, in today's proposal, the Agency is re-proposing a revised UTS of 5.7 mg/l for nonwastewater forms of D010, which would be significantly greater than the TC level of 1.0 mg/l.

CWM and Rollins Environmental both submitted comments that highlighted their inability to stabilize nonwastewater forms of D010 selenium-containing incineration ashes in the presence of other metals. These commenters stated that the proposed 0.16 mg/l TCLP for nonwastewater forms of D010 wastes was not routinely achievable utilizing "best operating practices". They also discussed selenium's unique pH/solubility curve, which is significantly different from other characteristic metals. Specifically, selenium's minimum solubility is at a neutral to mildly acidic pH, while it is highly soluble in the basic pH range. The other characteristic metals have a minimum solubility in the basic pH range, while their solubility increases in the neutral and acidic pH's. These commenters believe that this difference in solubilities creates a problem for treating wastes with a mixture of characteristic metals that includes selenium.

In light of these different pH/solubility curves for selenium and other characteristic metals, CWM and Rollins believe that the treatment standard for selenium should be changed to make it more

consistent with what is routinely achievable. Further, these commenters have provided treatment data on the stabilization of incineration ashes and soils that appear to support their claims regarding the enhanced mobility of selenium under normal alkaline stabilization practices. Since, the Agency has revised the proposed selenium UTS based on these comments, achieving the re-proposed UTS for selenium should not pose any difficulties and, therefore, D010-only wastes do not appear to present any capacity problems.

3.5.8 Silver (D011)

Approximately 11,000 to 14,000 tons/year of D011 wastes are surface disposed. The Agency is re-proposing treatment standards for silver at 0.11 mg/l for nonwastewater forms of D011. This is approximately a 97 percent reduction in the treatment standard, and about a 50 percent reduction from the originally proposed standard of 0.30 mg/l.

The Silver Coalition and Kodak noted that silver was included in the TC list of metals solely based on the MCL for silver under the Safe Drinking Water Act, and since the Agency deleted the silver MCL (56 *FR* 3573) and is further considering deleting silver from the TC list, any new standards for silver should be withheld until the Office of Solid Waste has completed its current review of silver's inclusion on the TC list. However, no specific treatment capacity data were submitted by the commenters. Therefore, D011 wastes do not appear to pose any capacity problems.

3.5.9 TC Metal-Only Mixtures

As seen in Exhibits 3-3 and 3-4, TC metal waste mixtures represent about 10 percent of the upper-bound estimate and 13 percent of the lower bound estimate of surface-disposed TC metal wastes. Thus, mixtures discussed above as causing treatment difficulties likely will be less than 10 percent of the wastes requiring alternative treatment. Nevertheless, several combinations of problem mixtures were identified that are routinely generated in a number of different industries.

AFS submitted comments relating to foundry sands that contain up to 5 to 6 percent lead in addition to cadmium, chromium, and selenium. ABR submitted comments regarding secondary lead smelters that generate a slag containing lead and other metals from the recycling of batteries. Mixtures with combinations of constituents that include arsenic, selenium, chromium, and cadmium probably have the greatest potential to affect capacity based on the fact that CWM and Rollins have found mixed waste streams with these constituents difficult to treat. However, ETC has been successful treating mixtures containing these constituents to UTS and believes that the problem could be totally resolved once specific stabilization "formulations" are developed to meet UTS. The Agency contacted several commercial treatment facilities to collect data to estimate the time required to comply with the proposed treatment standards (see Chapter 2). Based on the information collected from these facilities, EPA believes that the necessary changes to the treatment systems to comply with the proposed treatment standards could be made in a relatively short amount of time. The Agency encourages the commenters to provide additional technical information and treatment performance data to support or refute this analysis for the final rule.

3.5.10 UHCs

Several commenters have expressed concern regarding the treatability of all UHCs in TC metal wastes. The TDJ Group noted that it is not clear whether the Agency fully considered the feasibility of achieving the UTS for all UHCs, and, in addition, whether such requirements would be a prudent use of the waste management dollars. ABR stated that the UHCs in the lead battery slag cannot be treated to the

proposed UTS using the stabilization technology. However, no data were submitted to support these comments.

Some commenters had stated that the presence of organic UHCs interfere with the stabilization process and, therefore, the TC metals in these wastes could not be treated to the proposed treatment standards. CWM stated that new RCRA Subpart CC rules (i.e., for organic air emissions at treatment facilities) have to be complied with when considering the treatment of TC metal wastes with organic UHCs. The Agency contacted several commercial treatment facilities to obtain information on the treatability of TC metal wastes with organic UHCs (see Chapter 2). Several facilities indicated that organic UHCs can be readily treated to the UTS. CWM stated that 75 percent of the wastes managed by CWM are incinerated to meet the organic LDRs prior to metals treatment. Data obtained using the organic form code from the BRS (Exhibits 3-3 and 3-4) indicate that approximately 20,000 to 40,000 tons/year of wastes may contain organic UHCs. Wastes containing organics, however, are amenable to thermal treatment prior to stabilization, and since adequate thermal treatment (and probably some stabilization and other technologies) capacity likely are available for organics, treatment of TC metal wastes containing organic UHCs are expected to pose few problems in terms of capacity (except, perhaps, for relatively minor logistics and timing issues).

3.6 RESULTS

As discussed above, EPA estimates that approximately 0.8 to 2.6 million tons of TC metal wastes are surface disposed. Because many of these wastes are believed to already be meeting the new treatment standards, or will otherwise undergo waste segregation and minimization prior to the LDRs, a much smaller quantity likely would require alternative treatment as a result of promulgation of today's proposed rule. Furthermore, approximately 260,000 tons/year[10] of these wastes are newly identified TC metal wastes (i.e., wastes that are not or would not be hazardous using the EP), while the remainder are EP hazardous TC metal wastes. As discussed in Sections 3.3 and 3.4, both types of wastes are expected to only require optimization of existing stabilization formulations and systems. For example, the majority of the newly identified TC metal wastes are currently being treated to TC levels because it is believed to be more economical to treat the TC metal wastes to TC levels and dispose the waste in Subtitle D landfills rather than to manage the waste untreated in Subtitle C landfills. Also, for arsenic and mercury, the UTS are equivalent to the TC levels and therefore will require no changes in treatment capacity (except to the extent treatment system optimization is needed to meet UTS for UHCs). Nevertheless, as noted in Chapter 2, Available Capacity, more than one million tons/year of commercial stabilization capacity is available for the newly identified wastes (including new treatment residues resulting from thermal treatment of TC metal wastes containing organic UHCs; see below).

Regarding the EP hazardous TC metal wastes, the Agency examined data provided by commenters, obtained during site visits to selected commercial treatment facilities, and discussed in Chapter 2, and believes that the proposed treatment standards are routinely achievable using current treatment technologies such as stabilization. Also, as seen in Chapter 2, limited capacity for vitrification and HTMR also exists to treat the otherwise difficult-to-treat TC metal wastes, and sufficient combustion capacity exists to pre-treat TC metal wastes that contain organic UHCs. In addition, the majority of the TC metal wastes are already being treated to the TC and, possibly, UTS levels. Thus, any capacity variances would likely only be needed to allow treaters sufficient time to implement modifications (e.g., developing new waste-specific stabilization "formulations") to their treatment systems. Based on these results, the Agency proposes to not grant a national capacity variance for the TC metal wastes, including

[10] Based on data (primarily lead slag) provided by the commenters in response to the original proposed rule. No data was provided on other newly identified TC metal wastes, and their quantities are assumed to be much lower.

soil and debris, covered by today's proposed rule. However, the Agency notes that if generators cannot obtain adequate treatment for specific wastes, then the generators may apply for a capacity variance extension under 40 CFR 268.5. Furthermore, if treaters have difficulties in treating specific wastes and would require additional time for developing new treatment recipes, then the treaters may apply for a treatability variance under 40 CFR 268.42. EPA encourages commenters to provide data and additional information on the treatability of TC metal wastes to support the final TC metal LDR rule.

CHAPTER 4
CAPACITY ANALYSIS FOR THE NEWLY IDENTIFIED MINERAL PROCESSING WASTES

This chapter describes the capacity analysis for the newly identified mineral processing wastes that are considered potentially hazardous and thus subject to the LDRs. The main purpose of this analysis is to estimate the demand for commercial treatment/recovery for the newly identified wastes and to propose the effective date of the LDRs for these waste streams in the Phase IV second supplemental proposed rule. This chapter is organized into five sections: Section 4.1 provides the regulatory background and identifies the universe of mineral processing wastes covered by this proposed rule; Section 4.2 describes the data sources used for the capacity analysis; Section 4.3 discusses the analysis of required capacity for the newly identified mineral processing wastes; Section 4.4 discusses soil and debris contaminated with newly identified mineral processing wastes; and Section 4.5 provides a discussion of the capacity variance decisions.

4.1 REGULATORY BACKGROUND

Under section 8002 of the 1980 Amendments to RCRA, commonly referred to as the Bevill Amendment, wastes from extraction, beneficiation, and mineral processing operations were excluded from regulation as hazardous wastes under Subtitle C pending further study. The Bevill Amendment required the Agency to present its findings in a Report to Congress and to issue a regulatory determination based on this study. Mineral processing wastes were considered unique by Congress because they are often generated in large volumes and thought to be of low hazard and less amenable to standard treatment technologies than other Subtitle C wastes.

The Agency completed its study of extraction and beneficiation wastes in 1985 and issued a regulatory determination in 1986 removing these wastes from Subtitle C regulation. Several Court challenges to EPA's regulatory approach delayed completion of the Agency's study of mineral processing wastes until July 1990 and limited the study to high-volume, low-hazard wastes referred to as "special wastes".

The Agency established the criteria for what constitutes a "special waste" in a September 1, 1989 rulemaking (54 *FR* 36592) and permanently removed all but 25 mineral processing wastes from the Bevill exclusion. Five more wastes were removed from the exclusion in a second rulemaking promulgated January 23, 1990 (55 *FR* 2322). All waste streams removed from the Bevill exclusion and subsequently found to exhibit any of the RCRA hazardous characteristics (e.g., corrosivity, ignitability, reactivity, or toxicity) became subject to RCRA Subtitle C requirements.

To determine which sectors generated mineral processing wastes that meet the high-volume, low-hazard criteria, a list of 100 mineral commodity sectors was compiled based on data provided by the Bureau of Mines and additional data collected for earlier regulatory efforts. Using the definitions of mineral processing described in the 1989 rule, 50 mineral processing commodity sectors were determined to generate only extraction and beneficiation wastes and were thus excluded from Subtitle C regulations.

In addition to the above wastes, five wastes (K064-K066, K090-K091) generated from primary metal smelters were listed as hazardous wastes on May 19, 1980 (45 *FR* 33112) and on July 16, 1980 (45

FR 47832).[1] EPA suspended the listings for these smelter wastes on November 12, 1980 (45 *FR* 76618) and on January 16, 1981, because these wastes appeared to be within the scope of the Bevill exclusion.[2] During 1984, several environmental organizations challenged EPA's failure to comply with the terms of the Bevill Amendment. [Concerned Citizens of Adamstown v. EPA, Civ No. 84-3041 (D.D.C.)] As a result, the court ordered EPA to take action on a planned proposed rulemaking reinterpreting the scope of the mining waste exclusion. Under court order, EPA proposed to narrow the scope of the exclusion by relisting the five metal smelting wastes, among other things (50 *FR* 40292). On October 9, 1986, however, the Agency announced that it was withdrawing its proposed reinterpretation due to definitional problems EPA faced in determining how to group and classify the wastes (51 *FR* 36233). This withdrawal of the proposed reinterpretation effectively continued the suspension of the five smelter waste listings. This action was also challenged by environmental organizations [EDF v. EPA, No. 86-1584 (D.C. Cir.)]. The Court directed EPA to relist the smelter wastes by August 31, 1988. Therefore, EPA reinstated the hazardous waste listings for these five wastes associated with smelting operations.

The relisting was subsequently challenged by the American Mining Congress on the grounds that EPA failed to give an adequate reasoned explanation for its decision to relist the wastes [AMC et al. v. U.S. EPA, Nos. 88-1835 et al. (D.C. Cir.)]. During July 1990, the court remanded the five smelting wastes for further consideration and explanation by the Agency with respect to the basis for the relisting.

The Agency is proposing not to re-list these wastes as hazardous in the Phase IV proposed rule. The Agency will, instead, regulate these wastes according to their hazardous characteristics. Thus, the regulatory status of these wastes does not differ from the "de-Bevilled" wastes discussed above, and therefore these wastes are included in the present capacity analysis.

On January 25, 1996, EPA proposed treatment standards for the newly identified mineral processing wastes. Today's proposed rule re-proposes treatment standards for these wastes.

4.2 DATA SOURCES

EPA has collected considerable information on the mineral processing industry, including data on waste volumes generated, waste characteristics, and waste management practices. These data collection efforts have included formal and informal surveys, site visits, sampling, literature searches, and analyses of public comments to proposed rulemakings. As a result of these data collection efforts, the Agency has developed a large body of data on mineral processing industry wastes and management

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[1] A total of eight waste streams generated from metal smelting operations were listed. In 1985, however, EPA determined that K067 and K068 do not meet the current definitions of solid waste; therefore, these wastes are no longer listed (50 *FR* 40296). In addition, K088, which was relisted in 1988 and not affected by the court ruling, was addressed in the Phase III proposed rule (60 *FR* 11702).

[2] On October 21, 1980, Congress enacted a law which included various amendments to RCRA. Section 7 of these amendments (the "Bevill Amendment") amended §3001 of RCRA to exclude "solid waste from the extraction, beneficiation, and processing of ores and minerals" from regulation as hazardous wastes under Subtitle C of RCRA pending the completion of studies of these wastes to determine what adverse effects they had on human health and the environment, if any.

practices.[3] The following sections describe the primary data sources used to develop the mineral processing capacity data set, which was used to perform the capacity analysis.

4.2.1 ANPRM Comments

EPA received eleven comments to the October 24, 1991 Advanced Notice of Proposed Rulemaking (ANPRM) (56 *FR* 55160) from trade associations and mineral producers relevant to former Bevill-exempt mineral processing wastes. Their comments addressed such issues as treatment standards, waste characteristics, management practices, and available and required capacity. EPA used the characterization data provided to supplement the characterization information the Agency already had on these wastes. The pertinent information on available and required capacity and waste management are discussed in the applicable sections below.

4.2.2 National Survey of Solid Waste from Mineral Processing Facilities (RTI Survey)

In February 1989, EPA administered a written questionnaire to the operators of all facilities that, to the Agency's knowledge, generated one or more of the ore and mineral processing waste streams that the Agency was considering retaining within the Bevill exclusion at that time. This survey, known as the RTI Survey (for the Research Triangle Institute, which conducted the survey), included approximately 300 questions, and was distributed to the operators of about 200 mineral processing facilities. Despite certain limitations (described below), the RTI Survey represents the single most comprehensive source of available data on mineral processing waste generation and management.

It should be noted that the RTI Survey was designed and conducted before the regulatory definition of "special waste" was finalized, and only a high volume criterion was used as a basis for inclusion. Forty-two of the wastes included in the RTI Survey have since been removed from the Bevill exclusion, and are expected to be hazardous. The Survey, however, did not include many low-volume mineral processing waste streams which comprise a significant proportion of the potentially hazardous wastes and which could be important for the capacity analysis. Available information on these waste streams is much less complete. For these wastes, EPA generally does not have recent facility-specific data on waste quantities generated.

The RTI Survey was designed to elicit information on operational characteristics of individual facilities, on sources and quantities of wastes, and on current and alternative waste management practices. Several questions requested data on waste characteristics. In each of these questions, respondents were given a list of 82 constituents and asked to report the average total concentration of up to 15 of the constituents for each waste stream (defined by the processing unit from which the waste stream was generated). Respondents were allowed to base their answers either on test results or on general knowledge of the stream in question and were not required to conduct additional testing or to document the basis for their answer. The RTI Survey consisted of nine sections, of which four sections had questions pertaining to waste characteristics. These four sections are described below:

- Section 2 - Processing units that generate a special waste. The questions in Section 2 of the RTI Survey focused on individual units in the production process. Facilities were required to complete a Section 2 question set for each special waste generated. The RTI

[3] U.S. EPA, 1995, *Identification and Description of Mineral Processing Commodity Sectors and Waste Streams - Interim Final Document,* Office of Solid Waste, March 15, 1995.

Survey specifically requested information about 47 special wastes, although some facilities provided information about additional wastes not specifically identified in the Survey. Pertinent questions requested the name of the waste stream, the name of the processing unit generating that waste, and the characteristics of that waste stream.

- Section 3 - Processing units that receive a special waste. Section 3 asked questions about on-site operating units that utilized one or more special wastes as feedstocks, and produced final or intermediate products (i.e., materials of value). Section 3 asked respondents to identify the processing unit and as many as eight of the material inputs (special waste or not) to the unit and to list any (up to six) residues generated by the processing unit. The names of residues listed in actual survey responses varied by facility. Even facilities in the same industry sector with similar operations may have had widely differing residues due to differences in nomenclature and in interpretation of the particular question, making it difficult to identify similar waste streams. Questions in Section 3 asked for the composition of "the liquid residue" and "the solid residue" generated by the unit, but the responses often could not be traced to a precise waste stream.

- Section 4 - Wastewater treatment plants that receive a special waste. Pertinent questions in Section 4 asked facilities to identify the wastewater treatment plant in question, list up to ten inflows to the plant (special waste or not), and give characteristics of the "liquid outflows" and of the "sludge/solid outflows".

- Section 5 - Surface impoundments that receive a special waste. The format of Section 5 is similar to Section 4. Facilities were asked to identify the surface impoundment, list inflows (special waste or not), and provide characteristics of "liquids removed from the surface impoundment" and "sludge/solids removed from the surface impoundment." In many cases the inflow information indicated that special wastes were combined with other wastes (sometimes other special wastes), making it difficult to categorize the data as applying to an individual special waste stream.

4.2.3 Comments to Bevill Rules

EPA proposed, re-proposed, and promulgated several rules related to the 1980 Bevill Amendment. These regulatory actions defined the scope of the Bevill exemption and ultimately determined which waste streams would become subject to Subtitle C regulation. In response to the various proposals and specific requests for information on waste generation and management, public commenters submitted data for specific waste streams for the Agency's use in developing final regulatory actions. For some sectors, these data are the only available information on waste generation used for the present capacity analysis.

4.2.4 EPA Sampling Data

EPA's Offices of Solid Waste (OSW) and Research and Development (ORD) both conducted sampling and analysis efforts. EPA Sampling Data includes analytical data on samples obtained and analyzed by EPA in 1989.

OSW sampled 36 mineral processing facilities in 16 industry sectors as part of its effort to define the scope of the Bevill exclusion. Samples were collected for 42 waste streams at the point of waste

generation from at least two facilities in each sector (except for waste types that were only generated by a single facility). In general, the wastes also were sampled as managed (e.g., after treatment or disposal). Each sample was analyzed using EP and SPLP[4] tests and also analyzed for total concentration. In some cases, wastes were analyzed for various organics, pH, and radioactivity.

ORD collected data to support a series of reports characterizing waste streams and facilities in eight industry sectors. The types of data compiled from this effort varied with the individual report, but in most cases they were similar to that collected by OSW.

4.2.5 §3007 Data (1989)

In 1989, EPA issued a formal request, under authority of RCRA §3007, requesting all mineral processing facilities to submit any currently available information on the characteristics of the special mineral processing wastes generated at the facility. EPA requested these data as part of an effort to augment existing EPA waste characterization data and to give the facilities affected by the Mining Waste exclusion an opportunity for meaningful input into the Agency's evaluation of these wastes. Operators were notified that failure to respond to the information request might lead to penalties under RCRA §3008(a).

The §3007 letter specifically requested all existing data collected since January 1, 1984 on the physical and chemical composition, radioactivity, and pH of candidate wastes. Existing data from extraction-type tests, particularly from SPLP and EP toxicity leach tests, were also requested. In some cases, facility operators had few or none of the requested data, or had reason to believe that existing data were not representative of wastes as currently generated. In these cases, facility operators were allowed to voluntarily collect new data through sampling and analysis.

EPA received responses to its data request from 228 facilities in 22 industry sectors. Facility operators responded in a number of different ways, up to and including submitting hundreds of pages of data from weekly or daily monitoring. Although the §3007 letter requested that all data submitted indicate the type of waste to which they apply, and the analytical method(s) used, this instruction was not always followed. In some cases, the identity of the waste stream and/or the testing method used was not clear.

4.2.6 Data from Effluent Guidelines Development Documents

EPA's Office of Water collected data, under section 308 of the Clean Water Act (CWA), in support of the effluent guidelines and pretreatment standards development process. These data are presented in the effluent limitations guidelines and standards documents for each industry. The mineral processing characterization data set compiled by EPA includes data from these industry specific documents.

4.2.7 §3007 Data (1994)

In December 1994, EPA issued a formal request under the authority of RCRA §3007, requesting ASARCO to submit currently available information on the mineral processing waste generation,

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[4] The Synthetic Precipitation Leaching Procedure (SPLP, Method 1312) is the basis of one of two low hazard criteria used to define the scope of the Bevill exclusion. The second criterion is pH.

composition, management, and treatment practices. ASARCO submitted the requested information for seven facilities as Confidential Business Information (CBI). These data are used in the present analysis, but masked to maintain confidentiality.

4.2.8 Data Submitted by FMC Corporation

In December 1994, FMC Corporation submitted typical analysis data on four different mineral processing waste streams from its Pocatello facility in Idaho. Also, FMC submitted additional data in response to the supplemental proposed Phase IV rule (61 *FR* 2338) and the Phase IV - Notice of Data Availability (61 *FR* 21418). These data are included in the present capacity analysis.

4.2.9 Data Submitted by Commenters in Response to the Supplemental Proposed Phase IV Rule

In the supplemental proposed Phase IV rule (61 *FR* 2338), EPA solicited comments on the waste quantities and management practices of the newly identified mineral processing wastes that were covered by this proposed rule. Several commenters provided comments and data on the waste generation and management of the newly identified mineral processing wastes. These comments and data are included in the capacity analysis described in this report.

4.2.10 Other Data Sources

Various other rulemakings and reports were consulted for this study, including the sources listed below:

- Bevill Mineral Processing Reinterpretation Rule (54 *FR* 36592), September 1, 1989, and Background Document;
- Mining Waste Exclusion Proposed Rule (54 *FR* 39298), September 25, 1989;
- Mining Waste Exclusion Final Rule (55 *FR* 2322), January 23, 1990;
- *Overview of Solid Waste Generation, Management, and Chemical Characteristics: Primary Antimony, Magnesium, Tin and Titanium Smelting and Refining Industries*, PEI Associates, December, 1984;
- Draft Report to Congress, *Solid Wastes from Selected Metallic Ore Processing Operations*, July 15, 1988;
- *Overview of Solid Waste Generation, Management, and Chemical Characteristics in the Bauxite Refining and Primary Aluminum Industry*, Radian Corporation, November, 1984; and
- *Investigative Study to Determine Viable Options to the Remand of Mining and Smelting Wastes* (unpublished draft), EPA Office of Solid Waste, Waste Identification Branch, 1992.

4.3 METHODOLOGY AND ASSUMPTIONS

This section provides an overall description of the methodology and assumptions used to estimate the quantities of newly identified mineral processing wastes that will require alternative treatment as a result of the Phase IV supplemental LDRs.

EPA used several data sources (described in Section 4.2) to characterize the affected universe. Exhibit 4-1 lists the potentially affected waste streams by mineral processing sector, shows the estimated quantity generated, and identifies whether the constituents exceed the TC metal or characteristic regulatory levels (information provided in this exhibit is based on baseline data used in the RIA). The data provided in Exhibit 4-1 are based on the following conventions:[5]

Waste Quantities:

- The waste quantity generated includes both estimated and reported values. Estimated values are provided as a range (minimum, expected, and maximum). Reported values are point estimates (and therefore the same value is used for minimum, expected, and maximum). These generated quantities may be recycled, and/or disposed.

Hazardous Characteristics:

- "Y" means EPA has actual analytical data demonstrating that the waste exhibits one or more of the RCRA hazardous characteristics.
- "Y?" means that EPA, based on professional judgment, believes that the waste may exhibit one or more of the RCRA hazardous characteristics.
- "N" indicates that the waste probably does not exhibit one or more of the RCRA hazardous characteristics.
- "N?" indicates that insufficient data are available to analyze. Based on general knowledge of the industry, however, EPA believes that the waste probably does not exhibit one or more of the RCRA hazardous characteristics.

Recycling Status:

- "Y" means that EPA has information indicating that the wastestream is fully recycled.
- "Y?" means that EPA, based on professional judgment, believes that the wastestream could be fully recycled.
- "YS" means that EPA has information to show that the wastestream is partially recycled.

[5] A detailed discussion on these assumptions can be found in the regulatory impact analysis (RIA) for this proposed rule: U.S. EPA, 1997, *Regulatory Impact Analysis of the Supplemental Proposed Rule Applying Phase IV LDRs to Newly Identified Mineral Processing Wastes,* Office of Solid Waste, U.S. EPA.

Exhibit 4-1
MINERAL PROCESSING WASTES BY COMMODITY SECTOR

Commodity	Waste Stream	Reported Generation (1000mt/yr)	Est./Reported Generation (1000mt/yr)			Number of Facilities with Process	TC Metals								Corr	Ignit	Rctv	Current Recycle	Recycled to Bevill?	Waste Form
			Min	Avg.	Max		As	Ba	Cd	Cr	Pb	Hg	Se	Ag						
Alumina and Aluminum	Cast house dust	19	19	19	19	23			Y			Y			N?	N?	N?	Y?	0	3
	Electrolysis waste	58	58	58	58	23					Y?				N?	N?	N?	Y?	0	3
Antimony	Autoclave filtrate	NA	0.32	27	54	6	Y?		Y?		Y?	Y?			Y?	N?	N?	YS?	0	1
	Stripped anolyte solids	0.19	0.19	0.19	0.19	2	Y?								N?	N?	N?	Y	0	3
	Slag and furnace residue	21	21	21	21	6					Y?				N?	N?	N?	N		3
Beryllium	Chip treatment wastewater	NA	0.2	100	2000	2				Y?					N?	N?	N?	YS?	0	1
	Filtration discard	NA	0.2	45	90	2					Y?				N?	N?	N?	N		3
Bismuth	Alloy residues	NA	0.1	3	6	1					Y?				N?	N?	N?	N		3
	Spent caustic soda	NA	0.1	6.1	12	1					Y?				N?	N?	N?	Y?	0	2
	Electrolytic slimes	NA	0	0.02	0.2	1					Y?				N?	N?	N?	Y?	0	3
	Lead and zinc chlorides	NA	0.1	3	6	1					Y?				N?	N?	N?	N		3
	Metal chloride residues	3	3	3	3	1					Y?				N?	N?	N?	N		3
	Slag	NA	0.1	1	10	1					Y?				N?	N?	N?	N		3
	Spent electrolyte	NA	0.1	6.1	12	1					Y?				N?	N?	N?	N		2
	Spent soda solution	NA	0.1	6.1	12	1					Y?				Y?	N?	N?	Y?	0	1
	Waste acid solutions	NA	0.1	6.1	12	1									Y?	N?	N?	N		1
	Waste acids	NA	0	0.1	0.2	1									Y?	N?	N?	YS?	0	1
Cadmium	Caustic washwater	NA	0.19	1.9	19	2			Y?						Y?	N?	N?	Y?	0	1
	Copper and lead sulfate filter cakes	NA	0.19	1.9	19	2			Y?		Y?				N?	N?	N?	Y?	0	3
	Copper removal filter cake	NA	0.19	1.9	19	2			Y?						N?	N?	N?	Y?	0	3
	Iron containing impurities	NA	0.19	1.9	19	2			Y?						N?	N?	N?	N		3
	Spent leach solution	NA	0.19	1.9	19	2	Y?		Y?		Y?				Y?	N?	N?	Y?	2	2
	Lead sulfate waste	NA	0.19	1.9	19	2			Y?		Y?				N?	N?	N?	Y?	0	3
	Post-leach filter cake	NA	0.19	1.9	19	2			Y?						N?	N?	N?	N		3
	Spent purification solution	NA	0.19	1.9	19	2			Y?						Y?	N?	N?	N		1
	Scrubber wastewater	NA	0.19	1.9	19	2			Y?						Y?	N?	N?	Y?	2	1
	Spent electrolyte	NA	0.19	1.9	19	2			Y?						Y?	N?	N?	N		2
	Zinc precipitates	NA	0.19	1.9	19	2			Y?						N?	N?	N?	Y?	0	3
Calcium	Dust with quicklime	0.04	0.04	0.04	0.04	1									Y?	N?	N?	Y	1	3
Coal Gas	Multiple effects evaporator concentrate	NA	0	0	65	1	Y						Y		N?	N?	N?	YS	1	2
Copper	Acid plant blowdown	5300	5300	5300	5300	10	Y		Y	Y	Y	Y	Y	Y	Y	N?	N?	YS	1	2
	WWTP sludge	6	6	6	6	10			Y?		Y?				N?	N?	N?	YS	0	3
Elemental Phosphorus	Andersen Filter Media	0.46	0.46	0.46	0.46	2			Y						N?	N?	N?	N		3

Exhibit 4-1
MINERAL PROCESSING WASTES BY COMMODITY SECTOR

Commodity	Waste Stream	Reported Generation (1000mt/yr)	Est./Reported Generation (1000mt/yr)			Number of Facilities with Process	TC Metals								Corr	Ignit	Rctv	Current Recycle	Recycled to Bevill?	Waste Form
			Min	Avg.	Max		As	Ba	Cd	Cr	Pb	Hg	Se	Ag						
	AFM rinsate	4	4	4	4	2			Y				Y		N?	N?	N?	Y	2	2
	Furnace scrubber blowdown	410	410	410	410	2			Y						Y	N?	N?	Y	2	1
	Furnace Building Washdown	700	700	700	700	2			Y						N?	N?	N?	Y	2	1
Fluorspar and Hydrofluoric Acid	Off-spec fluosilicic acid	NA	0	15	44	3									Y?	N?	N?	YS	0	1
Germanium	Waste acid wash and rinse water	NA	0.4	2.2	4	4	Y?		Y?	Y?	Y?		Y?	Y?	Y?	N?	N?	YS?	0	1
	Chlorinator wet air pollution control sludge	NA	0.01	0.21	0.4	4	Y?		Y?	Y?	Y?		Y?	Y?	N?	N?	N?	YS?	0	3
	Hydrolysis filtrate	NA	0.01	0.21	0.4	4	Y?		Y?	Y?	Y?		Y?	Y?	N?	N?	N?	N		3
	Leach residues	0.01	0.01	0.01	0.01	3			Y?		Y?				N?	N?	N?	N		3
	Spent acid/leachate	NA	0.4	2.2	4	4	Y?				Y?				Y?	N?	N?	YS?	0	1
	Waste still liquor	NA	0.01	0.21	0.4	4	Y?		Y?	Y?	Y?		Y?	Y?	N?	Y?	N?	N		3
Lead	Acid plant sludge	14	14	14	14	3									Y?	N?	N?	Y?	1	3
	Baghouse incinerator ash	NA	0.3	3	30	3			Y		Y				N?	N?	N?	N		3
	Slurried APC Dust	7	7	7	7	3			Y		Y				N?	N?	N?	Y	1	3
	Solid residues	0.4	0.4	0.4	0.4	3					Y?				N?	N?	N?	Y?	1	3
	Spent furnace brick	1	1	1	1	3					Y				N?	N?	N?	Y	1	3
	Stockpiled miscellaneous plant waste	NA	0.4	88	180	4			Y		Y				N?	N?	N?	YS?	1	3
	WWTP liquid effluent	3500	3500	3500	3500	4					Y?				Y?	N?	N?	Y	1	1
	WWTP sludges/solids	380	380	380	380	4			Y?		Y?				Y	N?	N?	Y	1	3
Magnesium and Magnesia from Brines	Cast house dust	NA	0.076	0.76	7.6	1		Y?							N?	N?	N?	Y?	0	3
	Smut	26	26	26	26	2		Y							N?	N?	N?	N		3
Mercury	Dust	0.007	0.007	0.007	0.007	7						Y?			N?	N?	N?	N		3
	Quench water	NA	63	77	420	7					Y?	Y?			N?	N?	N?	Y?	1	1
	Furnace residue	0.077	0.077	0.077	0.077	7						Y?			N?	N?	N?	N		3
Molybdenum, Ferromolybdenum, and Ammonium Molybdate	Flue dust/gases	NA	1.1	250	500	11					Y?				N?	N?	N?	N		3
	Liquid residues	1	1	1	1	2	Y?		Y?		Y?		Y?		N?	N?	N?	N		1
Platinum Group Metals	Slag	NA	0.0046	0.046	0.46	3					Y?		Y?		N?	N?	N?	Y?	0	3
	Spent acids	NA	0.3	1.7	3	3					Y?			Y?	Y?	N?	N?	N		1
	Spent solvents	NA	0.3	1.7	3	3					Y?			Y?	N?	Y?	N?	N		1
Pyrobitumens, Mineral Waxes, and Natural Asphalts	Still bottoms	NA	0.002	45	90	2									N?	Y?	N?	N		3
	Waste catalysts	NA	0.002	10	20	2			Y?				Y?		N?	N?	N?	Y?	0	1

Exhibit 4-1
MINERAL PROCESSING WASTES BY COMMODITY SECTOR

Commodity	Waste Stream	Reported Generation (1000mt/yr)	Est./Reported Generation (1000mt/yr)			Number of Facilities with Process	TC Metals								Corr	Ignit	Rctv	Current Recycle	Recycled to Bevill?	Waste Form
			Min	Avg.	Max		As	Ba	Cd	Cr	Pb	Hg	Se	Ag						
Rare Earths	Spent ammonium nitrate processing solution	14	14	14	14	1									Y	N?	N?	N		1
	Electrolytic cell caustic wet APC sludge	NA	0.07	0.7	7	1									Y?	N?	N?	Y	0	3
	Process wastewater	7	7	7	7	1					Y				Y?	N?	N?	YS?	1	1
	Spent scrubber liquor	NA	0.1	500	1000	1									Y?	N?	N?	YS?	1	1
	Solvent extraction crud	NA	0.1	2.3	4.5	1									N?	Y?	N?	N		3
	Wastewater from caustic wet APC	NA	0.1	500	1000	1				Y?	Y?				Y?	N?	N?	YS?	1	1
Rhenium	Spent barren scrubber liquor	NA	0	0.1	0.2	2							Y?		N?	N	N	Y?	2	1
	Spent rhenium raffinate	88	88	88	88	2					Y?				N?	N?	N?	N		3
Scandium	Spent acids	NA	0.7	3.9	7	7									Y?	N?	N?	N		1
	Spent solvents from solvent extraction	NA	0.7	3.9	7	7									N?	Y?	N?	Y?	0	1
Selenium	Spent filter cake	NA	0.05	0.5	5	3							Y?		N?	N?	N?	Y?	0	3
	Plant process wastewater	66	66	66	66	2					Y				Y	N?	N?	YS?	2	1
	Slag	NA	0.05	0.5	5	3							Y?		N?	N?	N?	YS?	0	3
	Tellurium slime wastes	NA	0.05	0.5	5	3							Y?		N	N?	N?	Y?	0	3
	Waste solids	NA	0.05	0.5	5	3							Y?		N?	N?	N?	N		3
Synthetic Rutile	Spent iron oxide slurry	45	45	45	45	1			Y?	Y?					N?	N?	N?	YS?	0	3
	APC dust/sludges	30	30	30	30	1			Y?	Y?					N?	N?	N?	Y	0	3
	Spent acid solution	30	30	30	30	1			Y?	Y?					Y?	N?	N?	Y	0	1
Tantalum, Columbium, and Ferrocolumbium	Digester sludge	1	1	1	1	2									Y?	N?	N?	N		3
	Process wastewater	150	150	150	150	2	Y?		Y?	Y?	Y?		Y?		Y	N?	N?	Y?	0	2
	Spent raffinate solids	2	2	2	2	2									Y?	N?	N?	N		3
Tellurium	Slag	NA	0.2	2	9	2							Y?		N?	N?	N?	YS?	0	3
	Solid waste residues	NA	0.2	2	9	2							Y?		N?	N?	N?	N		3
	Waste electrolyte	NA	0.2	2	20	2					Y?		Y?		N?	N?	N?	N		1
	Wastewater	NA	0.2	20	40	2							Y?		Y?	N?	N?	Y	0	1
Titanium and Titanium Dioxide	Pickle liquor and wash water	NA	2.2	2.7	3.2	3			Y?	Y?	Y?				Y?	N?	N?	YS?	0	1
	Scrap milling scrubber water	NA	4	5	6	1			Y?	Y?	Y?		Y?		N?	N?	N?	YS?	0	1
	Smut from Mg recovery	NA	0.1	22	45	2									N?	N?	Y	Y?	0	3
	Leach liquor and sponge wash water	NA	380	480	580	2				Y?	Y?				Y	N?	N?	YS?	0	1
	Spent surface impoundment liquids	NA	0.63	3.4	6.7	7				Y?	Y?				N?	N?	N?	Y?	0	1
	Spent surface impoundments solids	36	36	36	36	7				Y?	Y?				N?	N?	N?	N		3
	Waste acids (Sulfate process)	NA	0.2	39	77	2	Y			Y			Y	Y	Y	N	N	N		1

Exhibit 4-1
MINERAL PROCESSING WASTES BY COMMODITY SECTOR

Commodity	Waste Stream	Reported Generation (1000mt/yr)	Est./Reported Generation (1000mt/yr)			Number of Facilities with Process	TC Metals								Corr	Ignit	Rctv	Current Recycle	Recycled to Bevill?	Waste Form
			Min	Avg.	Max		As	Ba	Cd	Cr	Pb	Hg	Se	Ag						
	WWTP sludge/solids	420	420	420	420	7				Y?					N	N	N	N		3
Tungsten	Spent acid and rinse water	NA	0	0	21	6									Y?	N?	N?	YS?	2	1
	Process wastewater	NA	2.2	4.4	9	6									Y?	N?	N?	YS?	2	1
Uranium	Waste nitric acid from UO2 production	NA	1.7	2.5	3.4	17									Y?	N?	N?	YS?	0	1
	Vaporizer condensate	NA	1.7	9.3	17	17									Y?	N?	N?	N		1
	Superheater condensate	NA	1.7	9.3	17	17									Y?	N?	N?	N		1
	Slag	NA	0	8.5	17	17									N?	Y?	N?	Y	0	3
	Uranium chips from ingot production	NA	1.7	2.5	3.4	17									N?	Y?	N?	Y?	0	3
Zinc	Acid plant blowdown	130	130	130	130	1	Y		Y	Y	Y?	Y?	Y	Y	Y	N	N	Y	0	1
	Waste ferrosilicon	17	17	17	17	1					Y?				N?	N?	N?	Y?	0	3
	Process wastewater	5000	5000	5000	5000	3	Y		Y	Y	Y		Y	Y	Y	N?	N?	Y?	0	1
	Discarded refractory brick	1	1	1	1	1	Y?		Y?	Y?	Y?				N?	N?	N?	N		3
	Spent cloths, bags, and filters	0.15	0.15	0.15	0.15	3			Y?		Y?	Y?	Y?	Y?	N?	N?	N?	Y	0	3
	Spent goethite and leach cake residues	15	15	15	15	3	Y		Y	Y	Y?	Y?	Y	Y	N?	N?	N?	Y	0	3
	Spent surface impoundment liquids	1900	1900	1900	1900	3			Y?						Y	N?	N?	YS?	0	1
	WWTP Solids	0.75	0.75	0.75	0.75	3	Y?		Y?		Y?	Y?	Y?	Y?	N?	N?	N?	YS	1	3
	Spent synthetic gypsum	16	16	16	16	3	Y?		Y		Y?				N?	N?	N?	N		3
	TCA tower blowdown	0.25	0.25	0.25	0.25	1			Y?		Y?	Y?	Y?		Y?	N?	N?	YS	0	1
	Wastewater treatment plant liquid effluent	2600	2600	2600	2600	3			Y?						N?	N?	N?	YS?	0	1
Zirconium and Hafnium	Spent acid leachate from Zr alloy prod.	NA	0	0	850	2									Y?	N?	N?	N		1
	Spent acid leachate from Zr metal prod.	NA	0	0	1600	2									Y?	N?	N?	N		1
	Leaching rinse water from Zr alloy prod.	NA	34	42	51	2									Y?	N?	N?	YS?	0	1
	Leaching rinse water from Zr metal prod.	NA	0.2	1000	2000	2									Y?	N?	N?	YS?	0	1

Note: EPA does not have enough information to determine whether Bromine, Gemstones, Iodine, Lithium and Lithium Carbonate, Soda Ash, Sodium Sulfate, and Strontium produce mineral processing wastes

- "YS?" means that EPA has information to believe that the wastestream could be partially recycled.

- A value of "0" in the "Recycled to Bevill?" column indicates that the waste is recycled in a mineral processing unit.

- A value of "1" in the "Recycled to Bevill?" column indicates that the waste is recycled in a Bevill unit.

- A value of "2" in the "Recycled to Bevill?" column indicates that the waste is recycled in both mineral processing and Bevill units.

Waste Form:

- Key for Waste Form: 1 = waste with < 1% total suspended solids (TSS) (wastewater); 2 = waste with 1 to 10 % TSS (liquid nonwastewater); 3 = waste with > 10% TSS (nonwastewater).

EPA next examined the current waste management practices in the mineral processing industry. EPA had to rely upon several data sources (discussed in Section 4.2) to examine the current waste management practice since no one source provided comprehensive information.

Because of the high level of uncertainty in the current waste management practices, EPA estimated the potentially affected universe of mineral processing waste in reference to three baselines: 1) the no prior treatment baseline, 2) the modified prior treatment baseline, and 3) the prior treatment baseline. Each baseline includes different assumptions about current storage practices of recycled materials and current treatment practices of disposed materials. The no prior treatment baseline assumes that materials to be recycled are stored in unlined land based units, and the disposed portion is placed in a land based disposal unit without treatment. The modified prior treatment baseline assumes that materials to be recycled are stored in unlined land based units, while materials to be disposed are treated to TC levels prior to disposal in land based units. The prior treatment baseline assumes that materials to be recycled are stored according to RCRA requirements (spent materials are stored in tanks, containers, and buildings prior to recycling) and materials to be disposed are treated to TC levels prior to disposal in land based units. EPA chose the modified prior treatment baseline as the basis for the RIA and the capacity analysis because it was most representative of current practices. However, EPA included the other two baselines in an appendix to the RIA to bound the analysis.

EPA considered four regulatory options in the RIA, which represent a wide spectrum of management practices, based on the views of various interested parties. A detailed description of each option can be found in the RIA.[6] In short, all four options require treatment of the disposed portion to UTS levels. The differences between the options are a function of the requirements for storage prior to disposal.

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[6] U.S. EPA, 1997, *Regulatory Impact Analysis of the Supplemental Proposed Rule Applying Phase IV LDRs to Newly Identified Mineral Processing Wastes,* Office of Solid Waste, U.S. EPA.

The key features of each option are summarized below:

1. **Option 1** imposes a legitimacy test for materials recycled to process units, bans the recycling of materials through Bevill beneficiation or Bevill process units, and requires materials destined for recycling to be stored in RCRA tanks, containers, and buildings.

2. **Option 2,** EPA's preferred option, bans the recycling of materials through Bevill beneficiation or Bevill process units, and requires materials destined for recycling to be stored in tanks, containers, and buildings.

3. **Option 3** requires materials destined for recycling to be stored in tanks, containers, and buildings.

4. **Option 4** allows materials destined for recycling to be stored in unlined land based units.

The Agency, in developing the RIA for this proposed rule, estimated the compliance costs for these four options. The costs were estimated as a function of three factors: 1) the expense associated with purchasing new storage units or upgrading existing storage units, 2) the expense of treating materials to be disposed, and 3) shifts of mineral processing residues either from recycling to disposal or from disposal to recycling. Based on these three factors, as well as adjustments to the input data to account for uncertainty about hazardous characteristics, EPA estimated the minimum, expected, and maximum quantities of waste that would require treatment and disposal, and the minimum, expected, and maximum quantities of waste that would require storage prior to recycling. Exhibit 4-2 provides the estimated quantities of the newly identified mineral processing wastes requiring treatment and disposal for the modified prior treatment baseline, and the four regulatory options. The estimated quantities of the newly identified mineral processing wastes requiring treatment and disposal for the no prior treatment and the prior treatment baselines are provided in Appendix E.

As indicated in the RIA, EPA assumes that because of cost and other issues, the primary techniques that are being used or will be used for waste management by the mineral processing industry are chemical precipitation (for wastewaters) and stabilization (for nonwastewaters). Since these treatments are two of the best demonstrated treatment technologies (BDATs) used as the basis for the UTS then, under the modified prior treatment baseline, most of these wastes likely are already meeting or are close to meeting the UTS levels. Even if additional treatment is required, EPA believes that this additional treatment could be achieved through minimal modifications of the existing treatment systems.

In the original proposal, the Agency noted a few exceptions to these assumptions. Based on the analysis of available data, EPA noted that some arsenic-containing wastes and high mercury-containing wastes (e.g., above the High Mercury Subcategory level of 260 mg/kg total mercury) may require alternative treatments (e.g., vitrification for arsenic and acid leaching/retorting for mercury) to meet UTS standards. EPA requested commenters to provide comments and performance data on this issue. However, comments received provided no indication that these wastes pose any treatability problems in meeting the proposed treatment standards. In addition, the Agency conducted site visits to commercial treatment facilities and collected data that indicated no treatability problems are associated with these wastestreams.

Exhibit 4-2
MODIFIED PRIOR TREATMENT (MPT) BASELINE AND OPTIONS

		MPT Baseline			Option 1 (MPT)			Option 2 (MPT)			Option 3 (MPT)			Option 4 (MPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
Alumina and Aluminum	Cast house dust	2,864	2,864	2,864	12,409	12,409	12,409	4,773	4,773	4,773	4,773	4,773	4,773	2,864	2,864	2,864
	Electrolysis waste	-	4,313	8,625	-	18,688	37,375	-	7,188	14,375	-	7,188	14,375	-	4,313	8,625
Antimony	Autoclave filtrate	-	10,800	43,200	-	13,500	54,000	-	11,475	45,900	-	11,475	45,900	-	10,800	43,200
	Stripped anolyte solids	-	-	-	-	29	57	-	-	-	-	-	-	-	-	-
	Slag and furnace residue	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000
Beryllium	Chip treatment wastewater	-	40,000	1,600,000	-	50,000	2,000,000	-	42,500	1,700,000	-	42,500	1,700,000	-	40,000	1,600,000
	Filtration discard	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000
Bismuth	Alloy residues	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000
	Spent caustic soda	-	458	1,800	-	1,983	7,800	-	763	3,000	-	763	3,000	-	458	1,800
	Electrolytic slimes	-	2	30	-	7	130	-	3	50	-	3	50	-	2	30
	Lead and zinc chlorides	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000
	Metal chloride residues	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000
	Slag	-	500	10,000	-	500	10,000	-	500	10,000	-	500	10,000	-	500	10,000
	Spent electrolyte	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000
	Spent soda solution	-	458	1,800	-	1,983	7,800	-	763	3,000	-	763	3,000	-	458	1,800
	Waste acid solutions	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000
	Waste acids	-	40	160	-	50	200	-	43	170	-	43	170	-	40	160
Cadmium	Caustic washwater	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Copper and lead sulfate filter cakes	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Copper removal filter cake	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Iron containing impurities	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Spent leach solution	-	143	2,850	-	950	19,000	-	950	19,000	-	238	4,750	-	143	2,850
	Lead sulfate waste	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Post-leach filter cake	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Spent purification solution	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Scrubber wastewater	-	143	2,850	-	950	19,000	-	950	19,000	-	238	4,750	-	143	2,850
	Spent electrolyte	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Zinc precipitates	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
Calcium	Dust with quicklime	-	-	-	-	20	40	-	20	40	-	-	-	-	-	-
Coal Gas	Multiple effects evaporator concentrate	-	-	16,250	-	-	65,000	-	-	65,000	-	-	22,750	-	-	16,250
Copper	Acid plant blowdown	1,325,000	1,325,000	1,325,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	1,855,000	1,855,000	1,855,000	1,325,000	1,325,000	1,325,000
	WWTP sludge	-	750	1,500	-	3,000	6,000	-	1,050	2,100	-	1,050	2,100	-	750	1,500
Elemental Phosphorus	Andersen Filter Media	460	460	460	460	460	460	480	460	460	460	460	460	460	460	460
	AFM rinsate	-	-	-	4,000	4,000	4,000	4,000	4,000	4,000	-	-	-	-	-	-
	Furnace scrubber blowdown	-	-	-	420,000	420,000	420,000	420,000	420,000	420,000	-	-	-	-	-	-
	Furnace Building Washdown	-	-	-	700,000	700,000	700,000	700,000	700,000	700,000	-	-	-	-	-	-
Fluorspar and Hydrofluoric Acid	Off-spec fluosilicic acid	-	1,875	11,250	-	7,500	45,000	-	2,625	15,750	-	2,625	15,750	-	1,875	11,250
Germanium	Waste acid wash and rinse water	-	880	3,200	-	1,100	4,000	-	935	3,400	-	935	3,400	-	880	3,200

Exhibit 4-2
MODIFIED PRIOR TREATMENT (MPT) BASELINE AND OPTIONS

		MPT Baseline			Option 1 (MPT)			Option 2 (MPT)			Option 3 (MPT)			Option 4 (MPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
	Chlorinator wet air pollution control sludge	-	85	320	-	106	400	-	90	340	-	90	340	-	85	320
	Hydrolysis filtrate	-	106	400	-	106	400	-	106	400	-	106	400	-	106	400
	Leach residues	-	5	10	-	5	10	-	5	10	-	5	10	-	5	10
	Spent acid/leachate	-	880	3,200	-	1,100	4,000	-	935	3,400	-	935	3,400	-	880	3,200
	Waste still liquor	-	106	400	-	106	400	-	106	400	-	106	400	-	106	400
Lead	Acid plant sludge	-	1,058	2,115	-	7,050	14,100	-	7,050	14,100	-	1,763	3,525	-	1,058	2,115
	Baghouse incinerator ash	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000
	Slurried APC Dust	-	-	-	6,900	6,900	6,900	6,900	6,900	6,900	-	-	-	-	-	-
	Solid residues	-	29	59	-	195	390	-	195	390	-	49	98	-	29	59
	Spent furnace brick	-	-	-	990	990	990	990	990	990	-	-	-	-	-	-
	Stockpiled miscellaneous plant waste	320	70,400	144,000	400	88,000	180,000	400	88,000	180,000	340	74,800	153,000	320	70,400	144,000
	WWTP liquid effluent	-	-	-	-	1,760,000	3,520,000	-	1,760,000	3,520,000	-	-	-	-	-	-
	WWTP sludges/solids	-	-	-	380,000	380,000	380,000	380,000	380,000	380,000	-	-	-	-	-	-
Magnesium and Magnesia from Brines	Cast house dust	-	57	1,140	-	247	4,940	-	95	1,900	-	95	1,900	-	57	1,140
	Smut	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000
Mercury	Dust	-	4	7	-	4	7	-	4	7	-	4	7	-	4	7
	Quench water	-	5,775	63,000	-	38,500	420,000	-	38,500	420,000	-	9,625	105,000	-	5,775	63,000
	Furnace residue	-	39	77	-	39	77	-	39	77	-	39	77	-	39	77
Molybdenum, Ferromolybdenum, and Ammonium Molybdate	Flue dust/gases	-	126,500	495,000	-	126,500	495,000	-	128,500	495,000	-	126,500	495,000	-	126,500	495,000
	Liquid residues	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
Platinum Group Metals	Slag	-	3	68	-	15	293	-	6	113	-	6	113	-	3	68
	Spent acids	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000
	Spent solvents	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000
Pyrobitumens, Mineral Waxes, and Natural Asphalts	Still bottoms	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000
	Waste catalysts	-	750	3,000	-	3,250	13,000	-	1,250	5,000	-	1,250	5,000	-	750	3,000
Rare Earths	Spent ammonium nitrate processing solution	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
	Electrolytic cell caustic wet APC sludge	-	-	-	-	105	2,100	-	-	-	-	-	-	-	-	-
	Process wastewater	5,600	5,600	5,600	7,000	7,000	7,000	7,000	7,000	7,000	5,950	5,950	5,950	5,600	5,600	5,600
	Spent scrubber liquor	-	200,000	800,000	-	250,000	1,000,000	-	250,000	1,000,000	-	212,500	850,000	-	200,000	800,000
	Solvent extraction crud	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500
	Wastewater from caustic wet APC	-	200,000	800,000	-	250,000	1,000,000	-	250,000	1,000,000	-	212,500	850,000	-	200,000	800,000
Rhenium	Spent barren scrubber liquor	-	8	30	-	50	200	-	50	200	-	13	50	-	8	30
	Spent rhenium raffinate	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000
Scandium	Spent acids	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000
	Spent solvents from solvent extraction	-	294	1,050	-	1,274	4,550	-	490	1,750	-	490	1,750	-	294	1,050

Exhibit 4-2
MODIFIED PRIOR TREATMENT (MPT) BASELINE AND OPTIONS

		MPT Baseline			Option 1 (MPT)			Option 2 (MPT)			Option 3 (MPT)			Option 4 (MPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
Selenium	Spent filter cake	-	38	765	-	166	3,315	-	64	1,275	-	64	1,275	-	38	765
	Plant process wastewater	52,800	52,800	52,800	66,000	66,000	66,000	66,000	66,000	66,000	56,100	56,100	56,100	52,800	52,800	52,800
	Slag	-	204	4,080	-	255	5,100	-	217	4,335	-	217	4,335	-	204	4,080
	Tellurium slime wastes	-	38	765	-	166	3,315	-	64	1,275	-	64	1,275	-	38	765
	Waste solids	-	255	5,100	-	255	5,100	-	255	5,100	-	255	5,100	-	255	5,100
Synthetic Rutile	Spent iron oxide slurry	-	18,000	36,000	-	22,500	45,000	-	19,125	38,250	-	19,125	38,250	-	18,000	36,000
	APC dust/sludges	-	-	-	-	4,500	9,000	-	-	-	-	-	-	-	-	-
	Spent acid solution	-	-	-	-	4,500	9,000	-	-	-	-	-	-	-	-	-
Tantalum, Columbium, and Ferrocolumbium	Digester sludge	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
	Process wastewater	22,500	22,500	22,500	97,500	97,500	97,500	37,500	37,500	37,500	37,500	37,500	37,500	22,500	22,500	22,500
	Spent raffinate solids	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000
Tellurium	Slag	-	800	7,200	-	1,000	9,000	-	850	7,650	-	850	7,650	-	800	7,200
	Solid waste residues	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000
	Waste electrolyte	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000
	Wastewater	-	-	-	-	3,000	12,000	-	-	-	-	-	-	-	-	-
Titanium and Titanium Dioxide	Pickle liquor and wash water	-	1,080	2,640	-	1,350	3,300	-	1,148	2,805	-	1,148	2,805	-	1,080	2,640
	Scrap milling scrubber water	-	2,000	4,800	-	2,500	6,000	-	2,125	5,100	-	2,125	5,100	-	2,000	4,800
	Smut from Mg recovery	15	3,300	6,900	65	14,300	29,900	25	5,500	11,500	25	5,500	11,500	15	3,300	6,900
	Leach liquor and sponge wash water	304,000	384,000	464,000	380,000	480,000	580,000	323,000	408,000	493,000	323,000	408,000	493,000	304,000	384,000	464,000
	Spent surface impoundment liquids	-	257	1,008	-	1,115	4,368	-	429	1,680	-	429	1,680	-	257	1,008
	Spent surface impoundments solids	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700
	Waste acids (Sulfate process)	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000
	WWTP sludge/solids	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000
Tungsten	Spent acid and rinse water	-	-	16,800	-	-	21,000	-	-	21,000	-	-	17,850	-	-	16,800
	Process wastewater	-	1,752	7,200	-	2,190	9,000	-	2,190	9,000	-	1,862	7,650	-	1,752	7,200
Uranium	Waste nitric acid from UO2 production	-	1,020	2,720	-	1,275	3,400	-	1,084	2,890	-	1,084	2,890	-	1,020	2,720
	Vaporizer condensate	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000
	Superheater condensate	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000
	Slag	-	-	-	-	1,275	5,100	-	-	-	-	-	-	-	-	-
	Uranium chips from ingot production	-	191	510	-	829	2,210	-	319	850	-	319	850	-	191	510
Zinc	Acid plant blowdown	-	-	-	39,000	39,000	39,000	-	-	-	-	-	-	-	-	-
	Waste ferrosilicon	-	1,275	2,550	-	5,525	11,050	-	2,125	4,250	-	2,125	4,250	-	1,275	2,550
	Process wastewater	765,000	765,000	765,000	3,315,000	3,315,000	3,315,000	1,275,000	1,275,000	1,275,000	1,275,000	1,275,000	1,275,000	765,000	765,000	765,000
	Discarded refractory brick	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
	Spent cloths, bags, and filters	-	-	-	-	23	45	-	-	-	-	-	-	-	-	-
	Spent goethite and leach cake residues	-	-	-	4,500	4,500	4,500	-	-	-	-	-	-	-	-	-
	Spent surface impoundment liquids	1,512,000	1,512,000	1,512,000	1,890,000	1,890,000	1,890,000	1,606,500	1,606,500	1,606,500	1,606,500	1,606,500	1,606,500	1,512,000	1,512,000	1,512,000
	WWTP Solids	-	94	188	-	375	750	-	375	750	-	131	263	-	94	188

Exhibit 4-2
MODIFIED PRIOR TREATMENT (MPT) BASELINE AND OPTIONS

		MPT Baseline			Option 1 (MPT)			Option 2 (MPT)			Option 3 (MPT)			Option 4 (MPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
	Spent synthetic gypsum	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900
	TCA tower blowdown	-	31	63	-	125	250	-	44	88	-	44	88	-	31	63
	Wastewater treatment plant liquid effluent	-	1,044,000	2,088,000	-	1,305,000	2,610,000	-	1,109,250	2,218,500	-	1,109,250	2,218,500	-	1,044,000	2,088,000
Zirconium and Hafnium	Spent acid leachate from Zr alloy prod.	-	-	860,000	-	-	860,000	-	-	860,000	-	-	860,000	-	-	860,000
	Spent acid leachate from Zr metal prod.	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000
	Leaching rinse water from Zr alloy prod.	-	16,800	41,600	-	21,000	52,000	-	17,850	44,200	-	17,850	44,200	-	16,800	41,600
	Leaching rinse water from Zr metal prod.	-	400,000	1,600,000	-	500,000	2,000,000	-	425,000	1,700,000	-	425,000	1,700,000	-	400,000	1,600,000
Total		4,046,959	6,688,848	15,579,851	12,680,624	17,707,297	30,249,080	10,188,948	14,859,824	28,519,341	5,221,048	8,007,420	17,302,706	4,046,959	6,688,848	15,579,851

Note: EPA does not have enough information to determine whether Bromine, Gemstones, Iodine, Lithium and Lithium Carbonate, Soda Ash, Sodium Sulfate, and Strontium produce mineral processing wastes.

Typically, liquid nonwastewaters (wastes with 1 to 10 percent TSS) are likely to be reduced in volume prior to stabilization. Therefore, as in the RIA, EPA assumed that approximately 2.25 percent of the liquid nonwastewater quantities will be stabilized (based on an 85 percent reduction of the initial amount because of treatments such as settling and neutralization, and an additional 85 percent reduction because of dewatering). The reduced waste volumes are used for estimating the potentially affected universe of the newly identified mineral processing wastes.

Wastewaters also may generate solid residues; however, these waste quantities do not result in significant quantities compared to the other nonwastewaters and therefore they are not included in this capacity analysis.

4.4 SOIL AND DEBRIS CONTAMINATED WITH NEWLY IDENTIFIED MINERAL PROCESSING WASTES

In all of the data sources consulted by the Agency, there was little information on the amount of soil or debris that might be contaminated with former Bevill-exempt wastes. The Agency believes that most of the soil and debris will probably be generated when facilities begin closing surface impoundments to comply with the LDRs or as part of corrective action procedures where it will be necessary to remove the soils for treatment. Consequently, EPA has no estimates for the amount of contaminated soil and debris that would be subject to the LDRs for this proposed rule. Based on discussions with commercial treaters (see Chapter 2), the Agency believes that these wastes could be readily treated to meet the proposed treatment standards. The Agency is seeking comments on this approach and requests the commenters to provide additional information and data on these wastes.

4.5 MIXED RCRA/RADIOACTIVE WASTES

The radioactivity posed by potentially hazardous mineral processing wastes may affect the amount of available treatment capacity for these wastes. Commercial and on-site treatment facilities for mineral processing wastes may have difficulty in managing both the radioactive and hazardous chemical components of mixed radioactive mineral processing wastes, and therefore may experience shortfalls in providing sufficient capacity for the treatment of these wastes. Adequate data on the generation of these mixed RCRA/radioactive wastes is not available. Therefore, EPA is soliciting the following types of information in this proposed rule:

- Data on the identities and quantities of newly identified mineral processing wastes that are known to be radioactive, including data on radioactivity levels (i.e., specific radioactivity, by radionuclide species), radioactive weight percent or radionuclides, and information on management difficulties, due to radioactivity, encountered with these wastes; and

- Data on the identities and quantities of newly identified, potentially hazardous mineral processing wastes, as well as other hazardous wastes that are commingled with any of the 20 mineral processing waste streams currently retained within the Bevill Exclusion (see 56 *FR* 27300, June 13, 1991).

EPA intends to use information received as a result of these requests to develop estimates of the quantities of mixed RCRA/radioactive wastes generated and accumulated at mineral processing facilities, and to estimate the amount of available capacity for the treatment of these wastes.

4.6 RESULTS

EPA's analysis of the data in Exhibit 4-1 indicates that, at most, approximately 136 facilities that generate 118 wastestreams would be affected by promulgation of today's proposed rule. The number of facilities represent the facilities in each mineral processing commodity sector. Some facilities, however, have processes that fall into more than one commodity sector. This would reduce the indicated total number of facilities affected.

Exhibit 4-3 presents ranges of quantities of newly identified mineral processing wastes that are likely to be affected by today's proposed rule for the modified prior treatment baseline and the four regulatory options. The results indicate that a total of approximately 4 million to 30 million metric tons of waste per year – the majority (approximately 85 - 90 percent) being wastewater – would require alternative treatment capacity. As discussed in Section 4.3, wastewaters are not expected to pose any capacity problems.

Exhibit 4-3
Total Waste Volumes (mt/y) Potentially Requiring Treatment Under the Modified Prior Treatment Baseline

Option	Minimum	Expected	Maximum
Baseline	4,046,959	6,688,848	15,579,851
Option 1	12,680,624	17,707,297	30,249,080
Option 2	10,188,948	14,859,824	26,519,341
Option 3	5,221,048	8,007,420	17,302,706
Option 4	4,046,959	6,688,848	15,579,851

Exhibit 4-4 provides the quantities of nonwastewaters that could require alternative treatment under the modified prior treatment baseline and the four different regulatory options. These quantities were calculated by first accounting for uncertainty in the input data. As discussed in the RIA, each waste stream's generation rate was adjusted to account for uncertainty in hazardous characteristics. The generation rate of waste streams known to be hazardous were not adjusted, while the generation rates of waste streams that were only suspected of being hazardous were reduced in the expected value case, and dropped from the minimum value case. The hazardous portion of each stream was divided into a portion sent to treatment and disposal and a portion stored prior to recycling in the baseline and in each option. Shifts in management of these streams were modeled by using different percentages treated and disposed in the baseline and various options. The quantities sent to treatment and disposal were summed in each sector by waste type (i.e., wastewaters, wastes with 1 to 10 percent solids, wastes with more than 10 percent solids), and divided by the number of facilities in that sector, to get a "model" or average facility quantity of each waste type. These types were then aggregated together based on the portion of input material for each waste type that would require neutralization, dewatering, and/or stabilization and disposal. These model facility quantities were then compared with threshold values to determine the economic feasibility of on-site treatment and disposal.

Exhibit 4-4
Quantities (mt/y) of Nonwastewaters Potentially Affected Under the Modified Prior Treatment Baseline

Option	Minimum		Expected		Maximum	
	Off-Site Stab./Disp	On-Site Stabilization	Off-Site Stab./Disp	On-Site Stabilization	Off-Site Stab./Disp	On-Site Stabilization
Baseline	6,079	129,805	10,381	742,004	17,602	1,925,885
Option 1	14,366	708,793	6,314	1,455,036	11,956	2,840,980
Option 2	7,574	647,621	23,543	1,332,622	24,055	2,618,201
Option 3	8,427	155,768	26,409	781,249	26,921	1,992,322
Option 4	6,079	129,805	17,237	742,004	17,602	1,925,885

While the cost analysis, in the RIA, is calculated on a average facility basis, the capacity analysis is based on the total industry treatment needs. Therefore, the average facility quantities requiring on- and off-site treatment and disposal in each sector were multiplied by the number of facilities in that sector to calculate the required treatment and disposal capacity. The largest increase of required treatment and disposal capacity would occur if Option 1 were chosen, as seen in Exhibit 4-4. This increase reflects a shift in management of a portion of secondary materials which are currently recycled.

As indicated in Chapter 2, for metal bearing wastes exhibiting a hazardous characteristic, the UTS treatment standards are based on chemical precipitation, high temperature metals recovery (HTMR), stabilization, slag vitrification, acid leaching, and mercury roasting and retorting, depending on the hazardous constituents and the waste form. UTS for arsenic nonwastewaters is based on vitrification, and the BDAT for high mercury subcategory wastes is retorting/roasting. All other metal treatment standards for nonwastewaters are based on HTMR and stabilization technologies. UTS for wastewaters are based on treatments such as chemical precipitation. (A detailed discussion on the methodology used for selecting UTS as the treatment standard is provided in the BDAT background document for newly identified mineral processing wastes.[7])

In the original proposal, the Agency noted a few exceptions to these assumptions. Based on the analysis of available data, EPA noted that some arsenic-containing wastes and high mercury-containing wastes (e.g., above the High Mercury Subcategory level of 260 mg/kg total mercury) may require alternative treatments (e.g., vitrification for arsenic and acid leaching/retorting for mercury) to meet UTS standards. EPA requested commenters to provide comments and performance data on this issue. However, comments received provided no indication that these wastes pose any treatability problems in meeting the proposed treatment standards. In addition, the Agency conducted site visits to commercial treatment facilities and collected data that indicated no treatability problems are associated with these wastestreams. Therefore, the Agency believes that a one year national treatment capacity variance may not be required for these wastes, and therefore, in this second supplemental rule, is proposing not to grant a capacity variance for these wastes.

[7] U.S. EPA, *Best Demonstrated Available Technology (BDAT) Background Document for Newly Identified Mineral Processing Wastes*, Office of Solid Waste, U.S. EPA, July, 1995.

For the purpose of determining the need for a capacity variance, the waste streams are grouped into three distinct categories:

(1) Wastestreams from elemental phosphorus processing. Three large-volume waste streams - Medusa Scrubber Blowdown, Anderson Filter media rinsate, and furnace building washdown - generated by the elemental phosphorus processing industry (approximately 500 to 800 thousand mt/y) appear to be lacking adequate wastewater treatment capacity. A major generator of these waste streams, the FMC Corporation's Pocatello, Idaho facility, has stated that these waste streams pose unique treatability problems (e.g., due to the presence of naturally occurring radioactive materials) and that a two-year national capacity variance is needed to develop and construct treatment capacity (Phase IV Notice of Data Availability (61 *FR* 21418, May 10, 1996)). On August 21, 1996, FMC submitted additional data to the docket for the supplemental proposed rule (61 *FR* 2338, January 25, 1996, RCRA Docket F-95-PH4A-FFFFF). After careful review of the additional data (see Appendix G for supporting materials), the Agency has determined that these wastes would require a national capacity variance, and therefore is proposing to grant a two-year national capacity variance for these three waste streams.

(2) Other newly identified mineral processing wastes (including soil and debris). EPA estimates that the quantities of newly identified mineral processing wastes that would be affected by today's proposed rule (other than the mixed RCRA/radioactive wastes discussed above) range from approximately 4 million to 30 million metric tons/year under the modified prior treatment baseline and the five different regulatory options. Of these, under a worst-case scenario, approximately 2.6 million metric tons/year of nonwastewaters would require alternative treatment under the prior treatment baseline. Most of these wastes (about 1 million metric tons/year) are expected to need either none or only relatively minor treatment to meet the treatment standards compared to existing treatment designed to meet hazardous characteristic levels. The remaining wastes (about 600,000 metric tons/year) represent an actual increase in required capacity. As shown in Exhibit 4-4, less than one percent of the nonwastewaters are expected to require commercial off-site stabilization. Given this, as well as the large amount of available off-site and on-site stabilization capacity for nonwastewaters, a national capacity variance does not appear to be warranted for these wastes under a modified prior treatment baseline option. As indicated in Section 4.4, these conclusions are expected to be similar for soil and debris contaminated with newly idendtified mineral processing wastes.

(3) Mixed RCRA/radioactive wastes (including soil and debris). Despite the uncertainty about quantities of mixed radioactive wastes containing newly identified wastes that would require treatment as a result of today's proposed rule, any new commercial capacity that becomes available will be needed for mixed radioactive wastes that were regulated in previous LDR rulemakings and whose variances have already expired. Thus, EPA has determined that sufficient alternative treatment capacity is not available, and is proposing to grant a two-year national capacity variance for mixed RCRA/radioactive wastes contaminated with newly identified mineral processing wastes. See the background document for the original Phase IV wastes for additional discussion of this issue.[8]

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[8] U.S. EPA, *Background Document for proposed LDRs for Phase IV: Issues Associated with Clear Water Act Treatment Equivalency, and Treatment Standards for Wood Preserving Wastes and Toxicity Characteristic Metal Wastes (Proposed Rule)*, August 1995.

A potentially significant regulatory issue that might affect treatment capacity is EPA's possible changes to the definition of solid waste. Such changes would encourage environmentally sound recycling of mineral processing wastes. The Agency's main goal would be to remove regulatory barriers in order to allow metal and resource recovery, while at the same time improving the degree of environmental protection. However, since any modifications to the definition of solid waste and Bevill mixtures are likely to be complex, and the issues associated with such changes must be carefully analyzed by all affected parties, the Agency is deferring any changes to the definition of solid waste and Bevill mixtures for mineral processing wastes to a supplemental proposal that will be issued in the future. After considering comments received in response to this supplemental notice, the final approach to modifying the definition of solid waste will be incorporated into the Phase IV rule. EPA recognizes that changes to the definition of solid waste could affect the manner in which a facility will manage its hazardous waste (e.g., a facility may switch from land disposal to recycling). EPA requests information that could assist in determining the effect of such changes on the need for alternative treatment capacity. In particular, EPA requests data on the quantities of mineral processing wastes that are potentially recyclable, as well as information on the type of recycling process that might be used and the time required to bring these processes on line.

Exhibit 4-5 provides a summary of the results of the required (under the modified prior treatment baseline) and available capacity analysis and the capacity variance decisions for the newly identified wastes under the major treatment system categories.

EXHIBIT 4-5
CAPACITY VARIANCE DECISIONS

Waste	Required Capacity (mt/yr)	Available Capacity (mt/yr)	Proposed Variance
Wastestreams from elemental phosphorus processing	500,000 - 800,000	Low	Two years from promulgation of final rule
Newly identified mineral processing wastes (including soil and debris)	4 million - 30 million (modified prior treatment baseline)	• >800,000* HTMR • >1,000,000 stabilization • Optimization of on-site stabilization and wastewater treatment • >16,200 vitrification	90 days from promulgation of final rule
Mixed RCRA/radioactive wastes (including soil and debris)	Low	0	Two years from promulgation of final rule

* This quantity is total annual feed capacity and does not necessarily represent available capacity.

APPENDIX A
DATA ON AVAILABLE STABILIZATION CAPACITY

This appendix has three sections:

A-1: Describes the information the Agency collected from selected treaters on available stabilization capacity for Phase IV mineral processing and TC metal wastes. Includes an overview of the Agency's approach, summarizes the results, and provides phone logs.

A-2: Discusses available capacities for metal waste stabilization and metal recovery for meeting the Phase IV TC metal and mineral processing waste LDR standards.

A-3: Provides a phone log of calls to TSDs who stabilize D008 and other TC-metal hazardous wastes.

A-4: Summary of meeting with representatives of Chemical Waste Management, Inc. to discuss comments and data related to Phase IV

A-5: Summary of minutes of April 30, 1996, meeting of EPA and representatives of lead recovery from batteries

Appendix A-1

ANALYSIS OF AVAILABLE STABILIZATION CAPACITY FOR PHASE IV WASTES

This appendix describes the information the Agency collected from selected treaters on available stabilization capacity for Phase IV mineral processing and TC metal wastes. The appendix is divided into three parts. Section 1.0 provides an overview of the Agency's approach, Section 1.2 summarizes the results, and Section 1.3 provides phone logs.

1.0 Approach

The Agency's approach for evaluating available stabilization capacity for Phase IV TC metal and mineral processing wastes involved six main steps:

1. Develop interview guide;
2. Identify interviewees (e.g., commenters);
3. Conduct preliminary interviews for a few interviewees;
4. Modify interview guide to address problem areas identified in conducting preliminary interviews;
5. Finish interviews; and
6. Incorporate other information and conduct follow-up activities.

In Steps 1 and 2, EPA developed a preliminary interview guide and identified several commercial treaters and organizations who submitted comments to the proposed Phase IV rule.[1] Also, some treaters were identified from BRS data reviews[2] and previous interviews.[3] In Step 3, EPA conducted a few preliminary interviews and, based on the results, refined the draft interview guide to clarify questions and target key areas. The final phone interview guide used questions such as the following (individually tailored somewhat depending on data supplied previously):

1. How much waste do you treat? How much of this waste is hazardous, as defined under RCRA (i.e., RCRA Subtitle C wastes)? How much of the waste that your facility receives is non-hazardous, as defined under RCRA (i.e., RCRA Subtitle D wastes)? How much treatment capacity is commercial and how much is captive (i.e., your own company's)? Do you treat Phase IV mineral processing and TC metal wastes? If not, do you plan to treat these

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[1]These treaters were interviewed as follow-up to comments and thus did not count toward the limited number of non-federal employees who can be contacted pursuant to the Paperwork Reduction Act

[2]Raghuvan, Raghu, and Jim Laurenson, Memorandum to Bill Kline and C. Pan Lee: Status Report on the Available Capacity Assessment for TC Metal and Mineral Processing Wastes. ICF Inc., June 1996.

[3]Schwartz, Stephan. Memorandum to Stan Moore and Suzanne Wade: Phone Calls to TSDs Who Stabilize D008 and Other TC-metal Hazardous Wastes. Versar Inc., May 1996.

wastes in the future?

2. Approximately what percentage of the Phase IV wastes that you treat are treated on site at your facility and what percentage is treated off site at the generator's facility (e.g., large volumes of mineral processing wastes)? What percentage of the wastes that you accept for treatment is part of a treatment train that began on a generator's facility (e.g., combustion at generator's site followed by stabilization of residuals at your facility site)?

3. What quantity (T/yr) of these Phase IV wastes can be treated to proposed UTS off site or at your facility at the present time and what quantity cannot? What quantity (T/yr) of these Phase IV wastes can be treated to UTS off site or at your facility in the future *(please specify time period (e.g., within one year))*?

4. Would there be any problems treating to individual standards? Would there be any problems when constituents are in a mixed constituent Phase IV waste stream (e.g., mixed metals)? With organic UHCs? Why? What waste streams *(please specify waste codes)*, if any, do you expect will cause you to make modifications in your treatment processes? What quantity (T/yr) of the total Phase IV wastes that you treat do these wastestreams comprise?

5. How extensive and difficult to implement would the modifications to your treatment processes be? How much time would be necessary for modifications to your treatment processes?

6. How much of which kind of <u>additional</u> Phase IV wastes (e.g., one of the wastes that may be problematic) can your facility treat? When?

7. Can you provide data to support any of the above answers?

EPA then conducted follow-up activities to fill in data gaps. To assess difficulties in meeting concentration levels, for example, EPA asked the contacts about the feasibility of meeting several hypothetical values.

Questions were faxed when requested, and follow-up calls were made through January 13, 1997.

1.2 Results

Exhibit 1 summarizes several observations that can be made from the results of this data gathering effort. These results are discussed in more detail below:

<u>Overall treatment capacity</u>

- All facilities treat TC metal or de-Bevilled mineral processing wastes.

- Ten facilities-Environmental Enterprises, Environmental Quality, EnviroSafe, GNI, Heritage Environmental Services, PDC, Rollins, and both of the CWM facilities-conduct 100 percent of the treatment on site at their facility. One facility, Environmental Technologies, Inc., conducts about half of its treatment off site.

- Current treatment at facilities ranges from 15,000 tons/year to 300,000 tons/year.

- Current available capacity of facilities ranges from 140,000 tons/year to 1,159,000 tons/year.

Modifications to treatment processes

- All but the smallest two[4] treaters interviewed-both of the Chemical Waste Management (CWM) facilities, Environmental Quality, Environmental Technologies, Inc., EnviroSafe, GNI, LWD Inc., PDC, and Rollins Environmental Services-commented that no modifications would need to be made to their treatment processes or minimal time (e.g., four weeks) is required for very minor modifications. Environmental Enterprises and Heritage Environmental Services noted that it may take two to five years, primarily due to changing their permits.

- Most facilities commented that the exact time needed and difficulty to implement changes in treatment processes will vary depending on the degree of changes.

- Both of the CWM facilities noted that it would cost approximately $1,000 per waste stream to develop new treatment recipes.

Additional treatment needed

- Both of the Chemical Waste Management (CWM) facilities, Environmental Enterprises, GNI, and Heritage Environmental Services gave a range of 20 to 100 percent of their TC metal waste streams that have constituents above TC or UTS levels that require additional treatment.

- Heritage Environmental Services and GNI noted that meeting the original proposed standard for cadmium would require treatment modification because it is difficult to stabilize it in a mixed constituent waste stream.

- Heritage Environmental Services and CWM in Carlyss, LA indicated that

[4]In terms of known or estimated utilized or available capacity.

meeting the original proposed standard for lead would require treatment modification because it is difficult to stabilize it in a mixed constituent waste stream and leaching rates vary depending on pH.

- GNI, Rollins Environmental Services, and CWM in Carlyss, LA indicated that meeting the original proposed standard for selenium would require treatment modifications because it is hard to stabilize it in a mixed constituent waste stream and leaching rates vary depending on pH.

- Heritage Environmental Services, Rollins Environmental Services and CWM in Carlyss, LA indicated that meeting the original proposed standard for chromium would require treatment modifications because it is hard to stabilize it in a mixed constituent waste stream and leaching rates vary depending on pH.

- Three facilities noted that treating organic UHCs would require treatment modifications. Heritage Environmental Services will incinerate those waste streams while Environmental Enterprises and PDC will send it to another facility for treatment. Two facilities-Environmental Quality and LWD Inc.-specifically stated that organic UHCs can be readily treated to UTS.

EXHIBIT 1
SUMMARY OF PHONE LOG RESULTS

							Additional Treatment Needed for:							
	Degree of Difficulty		Maximum Pratical Capacity				Individual Standards							
Treater	Time	Cost	On site	Off site	Utilized Capacity	Need for Other Treatment	Cd	Pb	Se	Cr	As	Ni	Mixed Constituents	Organic UHCs
Chemical Waste Management Carlyss, LA	Minimal	Initial $1000/ waste stream; additional $5-20/ton	200,000 gal/dy (234,000 tons/yr[a])			75% incinerated to meet organic LDRs		X	X	X			X	X
Chemical Waste Management Oakbrook, IL	6 mths	Initial $1000/ waste stream				Incineration of organics		X	X	X			X	
Environmental Enterprises	3-5 yrs(due to permit modifications)				15,000 tons/yr	Incineration of organics								X
Environmental Quality, Inc. Detroit, MI	Minimal		360,000-450,000 tons/yr		300,000 tons/yr									
Envrionmental Technologies, Inc. King of Prussia, PA	4 wks		70,000 tons/yr	70,000 tons/yr		Low-level radioactive/TC metal wastes								
EnviroSafe	Minimal		150,000-200,000 tons/yr		Ohio: 1,000 tons/dy (260,000 tons/yr[a]) Idaho: 100,000 tons/yr	Organic UHCs								X
GNI (Disposal Systems) Deer Park, TX	Minimal		1,159,000 tons/yr		333,000 wet tons of liquid wastes/yr 2,400 tons of solids/yr		X		X		X		X	
Heritage Envrionmental Services Indianapolis, IN	2 yrs				29,800 tons/yr[b]	Incineration of organic UHCs	X	X		X		X	X	X
LWD Inc. Calvert City, KY	Minimal				38,962 tons in 1995								X	
PDC Peoria, IL	Minimal				41,557 tons/yr[b]	Prior treatment of organic UHCs								X
Rollins Environmental Services Deer Trail, CO	Minimal		200,000 tons/yr		100,000-125,000 tons/yr	Send selenium-bearing wastes off site			X	X				
aEPA estimate														
bFrom 1993 BRS. See Attachment A-1														

1.3 Phone Logs

Mr. Chuck Grant
Environmental Manager
Chemical Waste Management
Location: Carlyss, LA
Phone: 318-583-3774
Fax: 318-583-4615
Interview conducted by: Gillian Foster
Date of interview: August 23, 1996

Mr. Grant responded that their facility does treat Phase IV wastes, and plans on continuing treatment in the future. Approximately 25 percent of the wastes are treated to LDR standards, while 75 percent of the wastes are incinerated to meet organic LDRs, but need metals stabilization. Approximately 200,000 gallons/day of waste can be treated to UTS on site at the facility. Their facility will need to implement modifications to the types and quantities of reagents needed to treat various waste types in their stabilization facility. The time needed to modify recipes for treatment should be minimal. They estimate that it will cost approximately $1000 per waste stream to develop new recipes. It is also estimated to increase treatment costs from $5 to $20 per ton. Approximately 20 to 30 percent of TC metal only waste streams have constituent concentrations above TC or UTS levels that would require additional or modified treatment. For these waste streams, meeting individual standards for selenium, chromium, and lead are going to be problematic. They recommend that the limit be set at 3.0 ppm TCLP for all three metals. They will not be able to treat TC metal-only wastes with organic UHCs because of Subpart CC.

Mr. Mitch Hahn
Chemical Waste Management
Location: Oakbrook, IL
Phone: 630-572-8800
Interview conducted by: Gail Shaw
Date of interview: September 10, 1996
Date of follow-up interview: January 2, 1997

Mr. Hahn responded that only hazardous waste is received for treatment at their facility, and Phase IV wastes are treated. Treatment is 100 percent on site. They have fixed stabilization tanks at their landfills. The quantity of Phase IV wastes that can be treated to UTS depends on the treatment method. Approximately 70 to 80 percent of the wastes can meet the lower UTS levels for metals, while 20 to 30 percent will require development of new treatment recipes (e.g., different ratios of stabilization agents). Of these 20-30%, 5-10% can not meet the lower standards and will not be accepted by this

facility. Applying UHC standards will increase the metal bearing waste streams going to incinerators (i.e., for organics), but there is ample capacity. There will be problems treating some of the wastes to individual standards. Difficulties with a mixed constituent waste stream depend on the metals, which have different stabilization levels and varying rates of leaching depending on pH. The facility does not know exactly what the impact of organic UHC will be on metal bearing waste streams because those waste streams have never needed to be identified. There will be no modifications made to the physical treatment process. However, all of the waste codes with lowered treatment levels will need to have thier treatment recipies looked at to determine if any modifications need made. The difficulty of implementing modifications will vary depending on the difficulty of changes. First, a bench-scale test will be performed in the lab (requiring several days), then at the production level. It could take approximately 6 months to implement recipe modifications depending on when the facility receives the waste streams. The estimated cost is $1000/profile to re-evaluate and develop a new recipe. Refer to the comments on the proposed rule submitted to EPA for supportive data.

In a follow-up call, Mr. Hahn said that they will not have to change any of their actual physical processes. The lower the standards are, the more difficult it will be to modify the recipes. He noted that meeting the hypothetical UTS levels for barium (D005), chromium (D007), lead (D008), selenium (D010), antimony, nickel, thallium, and vanadium would be easier than what was proposed in the August 1995 proposed rule. Only minor modifications to the treatment recipes, requiring several weeks, may be needed. The facility is working on new data.

Mr. Gary Davis
Vice President
Environmental Enterprises
Phone: 513-541-1823
Fax: 513-541-1638
Interview conducted by: Gail Shaw
Date of interview: September 23, 1996
Date of follow-up interview: January 7, 1997

Mr. Davis responded that their facility treats approximately 15,000 tons/year. Approximately 50 percent is hazardous, while the other 50 percent is non-hazardous. He noted that 100 percent of treatment capacity is commercial. They treat Phase IV wastes; 100 percent are treated on site at the facility, and no wastes are part of a treatment train. Less than 50 percent of these Phase IV wastes can be treated to UTS at the present time. In the future, Mr. Davis estimated it could take three to five years to be able to treat to UTS (primarily because the permit would need to be changed). He noted that generally there would be no problems treating to individual standards. Treating a mixed constituent waste stream that has no organic UHCs is not problematic; however, treating a mixed constituent waste stream with organics will be difficult. They will need to be

sent off site to an incinerator. Mr. Davis could not estimate what modifications, if any, would need to be made to treatment processes. He estimated it could take several years, primarily due to changing the permit for part B. The facility can accept very little or no additional Phase IV wastes because they are currently close to capacity. The facility can provide supporting data if requested.

In a follow-up call, Mr. Davis noted that meeting the hypothetical UTS levels for barium (D005), chromium (D007), and lead (D008) would require modifications to both the treatment process and the treatment recipes. Each constituent would require six months to one year to implement the changes. Meeting the UTS levels for antimony and vanadium would need modifications to their treatment recipes, requiring one year to implement. The proposed UTS level for cadmium (D006) could not be met by the facility. Those waste streams would have to be sent off site for treatment. Mr. Davis noted that a UTS level of 0.20 mg/L for cadmium would not be achievable; however, a UTS level of 0.50 mg/L could be met.

Mr. Scott Maris
Technical Manager
Environmental Quality
Location: Detroit, MI
Phone: 313-699-6230
Fax: 313-699-3499
Interview conducted by: Gail Shaw
Date of interview: September 17, 1996
Date of follow-up interview: January 8, 1997

Mr. Maris responded that their facility treats 300,000 tons/year. Approximately 50 percent is hazardous, while the other 50 percent is non-hazardous. He noted that 100 percent of the treatment capacity is commercial. They do treat Phase IV waste; 100 percent of what is received on site is treated, and no percentage of the wastes are part of a treatment train. All of the Phase IV wastes can be treated to UTS at the present time and the same is expected in the future. The facility expects no problems treating to individual standards or a mixed constituent waste stream. Also, there will be no problems treating organic UHCs; their facility uses the process of chemical oxidation, with bleach being a common oxident. No modifications will need made to the treatment process. The facility can accept another 20-50 percent of additional Phase IV wastes, increasing available capacity to 360,000-450,000 tons/year.

In meeting the hypothetical UTS levels, Mr. Maris confirmed in a follow-up call that the facility would have no difficulties. The levels are all the same or higher than the UTS levels they are currently meeting.

Mr. Joseph DeSipio and Mr. Rick Valiga
Principal
Environmental Technologies, Inc.
Location: King of Prussia, PA
Phone: 610-354-9050
Fax: 610-354-9851
Interview conducted by: Gillian Foster and Gail Shaw
Date of interview: August 27, 1996
Date of follow-up interview: January 2, 1997

Mr. DeSipio responded that the facility treats 65 percent de-Bevilled wastes and 25 percent TC metals. They also treat a small amount of biological wastes. The facility uses a three-phase treatment system consisting of physical sizing, chemical leaching with acids and reagents, and liquids processing. They extract metals out of the aqueous waste stream into usable concentrations that are sent to industrial processing facilities. The wastewater is neutralized and discharged into the sewer. Solid waste residue is then returned to the soil. In general, approximately 50 percent of the wastes treated are treated off site and 50 percent are treated on site. The interviewee believed that the percentage of wastes accepted at the facility that is part of a treatment train begun at the generator 's facility is low. The interviewee estimated that the facility could provide 70,000 tons annually of off site capacity and 70,000 tons annually of on site capacity for typical metal wastes. The only problematic waste stream is TC metal wastes that are also low-level radioactive wastes. The facility does not currently treat these wastes. However, Mr. DeSipio indicated that the facility is planning to treat them in the future. The plant would need 4 weeks to be retrofitted to accept low-level radioactive/TC metal wastes. The de-watering systems for the soils that pass through would need to be expanded to handle incresed quantities. The facility can accept almost no additional Phase IV wastes. They expect all individual standards to be met.

In a follow-up call, Mr. Valiga said that the facility would have no difficulties meeting the hypothetical UTS levels. He noted in particular that antimony, beryllium, nickel, thallium, vanadium, and zinc would create no treatment difficulties because they are easily soluble.

Mr. Rod Bartchy
Vice President of Public Affairs
EnviroSafe
Phone: 1-800-523-0781, ext. 5470
Fax: 215-956-5438
Interview conducted by: Gail Shaw
Date of interview: September 25, 1996
Date of follow-up interview: January 13, 1997

Mr. Bartchy commented that their facility in Ohio treats 1,000 tons/day of primarily hazardous waste, depending on the level of business. 20,000 tons/year of capacity is available for Phase IV wastes. The facility in Idaho has the design capacity to treat up to 110,000 tons/year of primarily hazardous waste. The facility usually treats less than 50,000 tons/year in terms of actual receipts. 40,000 tons/year of capacity is available for Phase IV wastes. He noted that 100 percent of treatment capacity is commercial. They do treat Phase IV TC metal wastes; 100 percent of Phase IV wastes are treated on site at the facility, and a minority of wastes may be part of a treatment train. Most of these Phase IV wastes meet the UTS at the present time, and would not be a problem in the future. There would be no problems treating to individual standards or treating a mixed constituent waste stream. However, the facility can not treat organic UHCs. No modifications will need made to the treatment process except perhaps minor additive changes. Mr. Bartchy estimated the facilities could currently accept another 150,000 - 200,000 tons of additional Phase IV wastes. The facility can provide supporting data if requested.

In a follow-up call, Mr. Bartchy said that the facility would have no difficulties meeting the hypothetical UTS levels.

Mr. Warren Norris
Sales Manager
GNI (Disposal Systems)
Location: Deer Park, TX
Phone: 713-930-0350
Fax: 713-930-2511
Interview conducted by: Gillian Foster
Date of interview: August 21, 1996
Date of follow-up interview: Left messages January 2 and January 8, 1997

Mr. Norris responded that their facility treats mineral processing wastes and wastes that fail the TC metals only. The facility does not conduct off site treatment, only on site at the facility. None of the wastes are pretreated before reaching the site. The facility accepts liquid wastes that undergo oil removal (reclaimed for heat value), dewatering, and filtration. The liquid phase is deep well injected. The facility holds a

no-migration petition variance. The solid phase is stabilized on site or shipped off site for incineration. The facility manages 333,000 wet tons of liquid wastes before treatment per year. The facility has a capacity of 1,159,000 tons per year. The facility also manages 2,400 tons of solids per year. All volumes are approximate. None of the waste streams will cause the facility to make modifications in their treatment process. Approximately 50-75 percent of TC metal waste streams have constituent concentrations above TC or UTS levels. Mr. Norris expects that all TC and UTS standards will be able to be met for the TC metal waste streams. He noted that cadmium stabilization is difficult, although not impossible. Selenium does not stabilize well, and arsenic is very soluble and leaches readily. The facility handles arsenic by mixing the waste with aqueous wastes or water and then deep wells the arsenic containing liquid phase.

Mr. Terry Farrell
Heritage Environmental Services
Location: Indianapolis, IN
Phone: 317-486-2726
Fax: 317-249-2046
Interview conducted by: Gillian Foster
Date of interview: August 20, 1996
Date of follow-up interview: Left message January 8

Mr. Farrell responded that their facility does not treat a significant volume of de-Bevilled wastes, if at all, and they do not accept TC organic waste streams. Approximately 60 percent of the wastes they stabilize are generated by their on site treatment facility. This facility treats plating wastes, acids, and caustic liquid wastes through metals precipitation and treatment. The treated wastewater is then filtered in a filter press that generates a liquid, which is discharged to a sewer, and a filter cake, which is stabilized and disposed in a landfill. About 40 percent of their waste stream is filter cake that arrives from off site for stabilization and disposal. In order to meet the UTS for underlying organics, the facility has two options: 1) pre-screen waste materials against organics and refuse those waste streams; 2) undergo a "significant facility expansion" by adding a treatment process to the treatment train that will address organics (e.g., chemical oxidation, or thermal treatment). The second option could take two years for the permit modification approval process, engineering, and construction. The time period would depend upon the type of permit modification that is required (e.g., Class I, II, or III). Almost 100 percent of the TC metal waste streams have constituent concentrations above TC or UTS levels that would require additional or modified treatment. Metals with organic UHCs are problematic at this facility. Their process is geared towards handling characteristic metals only. At the least, additional analytical expense would incur. Mr. Farrell believes that Phase IV would force waste streams to incineration because many waste metal waste streams would need to be incinerated for the organic UHCs. In a mixed constituent waste stream, nickel is the hardest constituent to stabilize. Lead, chromium, and cadmium follow nickel in stabilization difficulty.

Cyanides present in the filter cake received from off site could require oxidation or chlorinating to meet the UTS.

Ms. Kim Knotts
Environmental Coordinator
LWD Inc.
Location: Calvert City, KY
Phone: 502-395-8313
Fax: 502-395-8153
Interview conducted by: Gail Shaw
Date of interview: September 17, 1996
Date of follow-up interview: January 2, 1997

Ms. Knotts responded that in 1995, their facility treated 35,320 tons of hazardous waste through incineration. Another 10 percent was non-hazardous. Additionally, 3,642 tons of hazardous waste and non-hazardous waste was treated through chemical stabilization (35 percent being non-hazardous). She noted that 99 percent of the treatment capacity is commercial. The facility does treat Phase IV waste; 100 percent can be treated to UTS at the present time and the same is expected in the future. The facility expects no problems treating to individual standards. There will be also be no problem treating organic UHCs; the facility will vary their stabilization process, using different chemicals to drive off the organics. Treatment problems may occur with mixed metals. No modifications will need to be made to the treatment process, except minor changes in stabilization processes for mixed metals. A few weeks will be necessary for these minor modifications.

In a follow-up call, Ms. Knotts noted that the facility has not tried to meet levels as restrictive as the hypothetical UTS levels.

Mr. Mark Rein
Assistant VP of Environmental Affairs
PDC
Location: Peoria, IL
Phone: 309-688-0760
Fax: 309-688-6801
Interview conducted by: Gail Shaw
Date of interview: September 17, 1996
Date of follow-up interview: January 2, 1997

Mr. Rein responded that the facility receives only hazardous waste for treatment.

Phase IV wastes (30-40 percent of the waste stream) are treated; 100 percent of wastes received on site are treated. Approximately 30-40 percent of the waste stream is part of a treatment train. He noted that 90 percent of Phase IV wastes can be treated to UTS at the present time and the same is expected in the future. No problems are expected in treating to individual standards or a mixed constituent waste stream. There will be a problem with organic UHCs. Their facility does not have the capability to treat UHCs. They are treated off site at another facility prior to being received at this facility. No modifications will be made to the treatment process. Refer to the comments on the August 1995 proposed rule submitted to EPA for supporting data.

In meeting the hypothetical UTS levels, Mr. Rein commented that the facility would have no difficulties except with lead (D008). For this constituent, the treatment recipes would need to be modified, requiring approximately one month.

Mr. Richard Grondin
Technical Manager
Rollins Environmental Services
Location: Deer Trail, CO
Phone: 970-386-2293
Fax: 970-386-2262
Interview conducted by : Gillian Foster
Date of interview: August 21, 1996
Date of follow-up interview: January 10, 1997

Mr. Grondin responded that 1 percent of their facilities' total waste stream is de-Bevilled wastes. Approximately 50 percent of the total waste stream is TC for metals only wastes. The facility does not conduct off site treatment, only on site at the facility. Twenty percent of its solid waste stream is comprised of incinerator residuals received from off site. Rollins provides stabilization, chemical precipitation, chemical reduction, chemical oxidation, and on site disposal in a Subtitle C landfill. The facility presently receives approximately 100,000 tons to 125,000 tons per year of waste that can be treated to UTS. The total capacity at the facility is approximately 200,000 tons per year. Approximately 99 percent of the waste stream is solid waste and only 1 percent is liquid waste. Treating selenium (D010) through stabilization to UTS is impossible at this facility. They generally exclude waste streams with high concentrations of selenium—currently five to ten tons per year. D010 wastes comprise less than 1 percent of the total waste treated at the facility. The UTS level for selenium is unachievable due to several factors: 1) selenium is an emphoteric metal; it is leachable in many matrices at both low and high pHs; 2) selenium cannot be reduced or oxidized efficiently; 3) the optimum pH for selenium stabilization is between 6 and 7. However, at pH 6-7, all other TC metals will readily leach from the matrix at levels above the TCLP and UTS standards. As a result, many selenium bearing wastes are sent to Canada for disposal. Mr. Grondin believed that the Phase IV LDRs would result in more D010 waste shipped

to Canada for disposal. In treating chromium (D007), the facility will have to increase the amount of reagent used, thus increasing the cost. D007 wastes comprise 10 percent of the total waste stream. Generally though, no extensive modifications to the treatment processes will be necessary. Except for selenium, there should be no problem treating all other TC metal wastes and de-Bevilled wastes to UTS.

In meeting the hypothetical UTS levels, Mr. Grondin commented that the facility would have no difficulties except with selenium (D010), which could not be treated. For this constituent, he noted that a UTS level of 5.7 would be achievable.

In addition to phone conversations, a site visit to Deer Trail was conducted by Mr. Howard Finkel, Project Manager at ICF Incorporated, on August 20, 1996.

APPENDIX A-2

ICF
CONSULTING GROUP

ICF Incorporated
9300 Lee Highway
Fairfax, VA 22031-1207
703/934-3000 Fax 703/934-9740

June 14, 1996

MEMORANDUM

To: Bill Kline and C. Pan Lee, EPA

From: Raghu Raghavan and Jim Laurenson

Subject: Status Report on the Available Capacity Assessment for TC Metal and Mineral Processing Wastes.

This memorandum addresses available capacities for metal waste stabilization and metal recovery for meeting the Phase IV TC metal and mineral processing waste LDR standards. We are currently conducting the following activities:

- We are combining and substantially updating the discussion of available commercial treatment capacity given in the background document for the capacity analyses supporting the proposed LDR rule.
- We have conducted a preliminary review of the biennial reporting system (BRS) for 1993 to identify commercial facilities providing metal waste stabilization and metal recovery capacities.
- We have compiled BRS information on the maximum operational capacity and utilized capacity for various treatment systems providing stabilization or metal recovery at these facilities.
- We have compared the BRS information with the results of the capacity analysis performed for the Third Third LDR rule (1990).
- We are in the process of contacting companies who are operating selected commercial facilities to improve our data and understanding of the available capacity for the wastes affected by the proposed rule.

The remainder of this memo presents our preliminary results of the BRS data review and our activities concerning the contacting of facilities.

A facility required to submit the BRS must complete a separate and independent Form PS for each on-site hazardous waste treatment, disposal, or recycling process system that was existing and operational, for which there were plans to build and start operations, or that was in the closure process. The information given in Form PS includes estimates of the maximum operational and actually used capacities for each system type available on site. After a preliminary review and comparison of data given in the Form PS in 1991 and 1993 BRS, we

decided to focus on the RCRA capacity related information and other data given in Form PS in 1993 BRS for the following metal recovery and stabilization systems:

- Metal Recovery Systems
  - M011 High temperature metals recovery
  - M012 Retorting
  - M013 Secondary Smelting
  - M014 Other metals recovery (e.g., ion exchange, reverse osmosis, acid leaching, etc.)
  - M019 Metals recovery - type unknown

- Stabilization
  - M111 Stabilization/Chemical fixation using cementitious and/or pozzolanic materials
  - M112 Other stabilization
  - M119 Stabilization - type unknown

By using the information given in Form PS to define the commercial capacity availability of each system, we were able to list separately the facilities having commercially available and non-commercial capacities for metal recovery and stabilization. The following lists are attached with this memo as an illustration of the preliminary results of maximum and utilized RCRA capacities that we obtained from use of Form PS in the 1993 BRS:

- Commercial stabilization systems and capacities;
- Non-commercial stabilization systems and capacities;
- Commercial metal recovery systems and capacities; and
- Non-commercial metal recovery systems and capacities.

The attached preliminary tables have been analyzed further by comparing their contents with information on the utilization of capacity given in other forms – Forms WR and GM – in the 1993 BRS. As mentioned before, the BRS information was compared with the results of the capacity analysis performed for the Third Third LDR rule.

Based on the analysis of 1993 BRS completed to-date, it seems that there are nearly 30 operational facilities providing commercial stabilization capacity. The utilized capacity for stabilization appears to be approximately 750,000 tons per year. The maximum operational capacity at these commercial facilities has yet to be confirmed. (For example, the attached table on commercial stabilization indicates that several facilities reported maximum capacities that far exceeded utilized capacities. These data must be confirmed through personal contacts of the facilities or by using other reliable sources of information.) However, it seems that the available stabilization capacity would be more than the previous estimate of 1 million tons per year. The 1993 BRS information also showed that additional stabilization capacity is utilized and available at nearly 60 non-commercial facilities. As for metal recovery, nearly 60 commercial facilities have reported the utilization of approximately 600,000 tons of capacity in 1993. Additional capacity for metal recovery is also being provided at nearly 120 non-commercial facilities. The maximum operational capacity at commercial metal recovery facilities must also be confirmed. (As with stabilization capacity, the attached table on commercial metal recovery shows large differences between maximum and utilized capacities.)

At present, we are trying to improve the data obtained from BRS on maximum operational and utilized capacities for commercial stabilization and metal recovery. It is necessary, however, to improve upon the quality of these numbers through a limited number of phone contacts of selected facilities. It is also necessary to obtain at least some qualitative information addressing the logistics and applicability of existing technologies to meet the UTS for newly identified mineral processing wastes and other TC metal wastes.

We have selected the following six companies to discuss the available capacity for metal waste stabilization:

1. Laidlaw Environmental Services,Inc.
2. Rollins Environmental Services
3. Chemical Waste Management
4. Peoria Disposal Company
5. Gibson Environmental
6. Republic Environmental Systems, Inc.

The first three companies operate commercial hazardous waste landfills in different states and commented on the proposed Phase IV LDR rule. Most of these landfills were reported in EPA's Commercial Treatment/Recovery Data Set (May 1990) and in the 1993 BRS to have stabilization capacity on site. The last three companies listed above were also reported in BRS to have large capacities for metal waste stabilization. All of these companies may be interested in providing available capacity on stabilization for some of the hazardous waste affected by Phase IV LDRs.

We have selected the following six companies to discuss the available capacity for metal recovery:

1. INMETCO, Inc.
2. Quemetco, Inc.
3. Revere Smelting and Refining Corp.
4. Recontek Inc.
5. ETICAM Process
6. Encycle Texas Inc.

INMETCO provided comments on the proposed Phase IV LDR rule. The next two companies showed high utilization of secondary smelting capacity at their facilities. The last three companies were selected due to the need for confirming that they are active in processing a wide range of metal-bearing hazardous wastes, as reported in the capacity analysis background document supporting the proposed rule. We are expecting to resolve some of the major discrepancies between maximum and utilized capacities shown in the attached table on commercial metal recovery systems (e.g., Phibro-Tech, Inc.) without contacting the facilities.

We are asking one or more of the following questions (depending on the information already provided or expected) after contacting the right person in each of these companies:

- What is the maximum capacity for stabilization and/or metal recovery installed at each of the facilities operated by the company? How was this capacity measured?

- When was the facility originally built? What kind of technology confirmation was required before designing, building, or starting operations at the facility?

- What is the current utilization of capacity at each facility? What percentage of capacity is utilized for commercial purposes? Are there any limitations in the use of commercial capacity? What is the non-commercial capacity used for?

- What are the types of capacities available? For example, is stabilization technology based on physical encapsulation or chemical fixation? As another example, what are the metals recovered from the wastes? Are there any technical limitations in the use of technology(ies) used at the facility?

- What types of industries/wastes are being provided with commercially available treatment capacity? Newly-identified mineral processing wastes? Other TC metals required to meet UTS?

- Will the company be interested in building and/or operating on-site metal waste stabilization or metal recovery facilities for selected new customers? Has the company considered or provided similar services in the past? What are the logistics and economic considerations in developing this additional capacity?

In addition to contacting these companies, we are in the process of contacting a few selected trade associations to confirm our new findings on the availability of commercial stabilization or metal recovery capacity, and the feasibility of building new waste treatment capacities on site. We also plan to discuss these topics with some technical specialists in metal waste stabilization or metal recovery. For example, we plan to contact one of the authors of the attached paper on chemical fixation, Gregory Indelicato, to discuss the applicability of new techniques in chemical fixation for hazardous waste treatment.

Please call Raghu Raghavan at 703-934-3417 or Jim Laurenson at 703-934-3648 if you have any questions on this memorandum.

Commercial Stabilization Systems and Capacities [1]
(Basis:1993BRS-Form PS)

Facility	Facility Name	System Code	Maximum RCRA Capacity	Utilized RCRA Capacity
COD991300484	HIGHWAY 36 LAND DEVELOPMENT CORP	M111	40,000,000	17,233
CAD980883177	GIBSON ENVIRONMENTAL	M111	1,752,000	47,231
ILD000805812	PEORIA DISPOSAL CO INC	M111	1,167,840	41,557
PAD085690592	REPUBLIC ENVIRONMENTAL SYSTEMS, INC.	M111	547,500	8,862
UTD991301748	USPCI - GRASSY MOUNTAIN FACILITY	M111	468,000	14,880
ALD000622464	CHEMICAL WASTE MANAGEMENT	M111	428,442	57,370
MID000724831	ENVOTECH MANAGEMENT SERVICES, INC	M111	385,804	142,132
IND093219012	HERITAGE ENVIRONMENTAL SERVICES, INC	M111	350,000	29,800
MID074259565	DYNECOL INCORPORATED	M112	224,648	27,243
PAD059087072	MILL SERVICE INC - BULGER	M111	175,000	-
GAD096629282	CWM RESOURCE MANAGEMENT INC	M112	132,919	423
PAD004835146	MILL SERVICE INC - YUKON	M111	130,088	9,558
KYD985073196	LWD SANITARY LANDFILL, INC.	M111	120,000	656
NYD049836679	CWM CHEMICAL SERVICES, INC.	M111	106,392	60,822
OKD065438376	U.S. POLL. CONTROL, INC.-LONE MOUNTAIN	M111	95,200	93,568
OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	M111	80,000	56,500
OHD980568992	ENVIRITE CORPORATION	M112	75,000	41,056
MID096963194	CHEM-MET SERVICES INCORPORATED	M111	73,502	19,960
ILD010284248	CID RECYCLING & DISPOSAL FAC	M111	67,200	2,843
IDD073114654	ENVIROSAFE SERVICES OF IDAHO, INC	M111	52,000	10,920
IND078911146	CHEMICAL WASTE MANAGEMENT OF INDIANA INC	M111	50,700	34,197
PAD010154045	ENVIRITE CORPORATION	M112	50,000	32,267
CTD072138969	ENVIRONMENTAL WASTE RESOURCES INC	M111	40,000	1,323
OHD083377010	ENVIRONMENTAL ENTERPRISES INC	M111	25,200	16,200
OHD000816629	SPRING GROVE RESOURCE RECOVERY INC	M111	15,230	2,116
IND984874230	ROANOKE WASTEWATER TREATMENT PLANT	M111	14,900	7,450
CTD089631956	EAST COAST ENVIRONMENTAL SERVICES	M111	5,000	22
NVT330010000	US ECOLOGY INC	M111	670	40,810
OKD000402396	PERMA-FIX TREATMENT SERV., INC.	M111	107	21
OKD082708371	HUGO RAILCAR	M111	55	32
GAT000001971	GEORGIA DEPARTMENT OF TRANSPORTATION	M111	8	8
OKD007224702	BARTLETT-COLLINS GLASS CO.	M111	4	4
CAT080010101	APPROPRIATE TECHNOLOGIES 11, INC.	M111	-	4
CAT080033681	CHEM-TECH SYSTEMS, INC.	M111	-	-
ILD000608471	CLEAN HARBORS OF CHICAGO INC	M111	-	-
LAD000777201	CHEMICAL WASTE MANAGEMENT	M111	-	50,973
NED981117153	HOUSTON J-M CORPORATION	M111	-	-
OKD096648837	NORRIS SUCKER ROD	M111	-	1
CAD021774559	AMERICAN BRASS & IRON FOUNDRY	M111	-	273
	TOTAL QUANTITY FOR COMMERCIAL FACILITIES		46,633,208	868,312

Louisiana, Texas

[1] Data in this memorandum has not undergone extensive review by the Agency.

Non Commercial Stabilization Systems and Capacities
(Basis: 1993 BRS-Form PS)

Facility	Facility Name	System Code	Maximum RCRA Capacity	Utilized RCRA Capacity
ID4890008952	USDOE IDAHO NAT'L ENGINEERING LABORATORY	M111	360,000	-
MID005356860	GMC, INLAND FISHER GUIDE	M111	190,360	107,871
LAD010395127	ROLLINS ENVIRONMENTAL SERVICES	M111	130,000	65
ALD003397569	ACIPCO (AMERICAN CAST IRON PIPE COMPANY)	M111	60,034	2,000
CAD009151671	E I DUPONT DENEMOURS & CO	M111	50,000	18,080
ALD046481032	SANDERS LEAD COMPANY, INC.	M111	44,777	26,019
ILD006271696	OLIN CORP	M112	40,320	1,309
ILD005263157	NORTHWESTERN STEEL & WIRE #2	M111	35,092	27,192
CAD009114919	CHEVRON USA PRODUCTS CO, RICHMOND REFIN	M111	31,590	-
AZ4570024055	DAVIS MONTHAN AFB	M111	25,000	24,167
LAD008184137	SCHUYLKILL METALS CORP	M111	25,000	10,499
IND005146683	THE FORD METER BOX CO., INC.	M112	15,000	1,721
NCD986181451	MANNINGTON CERAMIC TILE	M111	12,000	7,935
OHD032271975	MARION STEEL COMPANY	M112	4,500	3,277
NYD980779540	WEST VALLEY DEMONSTRATION PROJECT	M111	2,865	906
ALD983191966	VIRGINIA CAROLINA CHEMICAL SO	M111	2,500	2,500
VAD065417008	GRIFFIN PIPE PRODUCTS CO	M111	2,300	1,236
IND064708845	KUNKLE FOUNDRY CO.,INC.	M111	1,125	244
GAD033842543	TRI-STATE STEEL DRUM INC	M111	1,040	175
CO7890010526	U.S. DEPARTMENT OF ENERGY - ROCKY FLATS	M111	831	-
ALD095688875	ZENECA INC-COLD CREEK	M112	500	244
FLD984243097	BIO MEDICAL SERVICE CORP	M112	459	137
NM0890010515	U.S. DOE LOS ALAMOS NATIONAL LABORATORY	M111	173	60
MOD006308407	A.B. CHANCE COMPANY ALLEN STREET COMPLEX	M111	150	52
IND121581698	WABASH NATIONAL CORPORATION	M112	117	11
PAD004329835	PENNZOIL PRODUCTS CO ROUSEVILLE REFINERY	M111	100	65
CAD982412165	TOPPAN WEST, INC	M111	75	5
PAD041731670	CERDEC CORP - DRAKENFELD PRODUCTS	M111	75	23
MOT300010022	A C F IND SHIPPERS CAR LINE DIVISION	M111	40	10
MSD033353129	THE CLARION LEDGER	M111	34	34
MSD097909485	RELIABLE ELECTRIC UTILITY PROD	M111	25	12
FLD982120024	BOSTON WHALER INC	M112	24	24
IND056041213	LEER MIDWEST	M111	4	4
OKD000758557	CHROMALLOY DIVISION-OK	M111	3	24
GAD098583909	HERCULES INC OXFORD PLANT	M112	0	0
MOD981709272	IT ANALYTICAL SERVICES ST. LOUIS	M111	0	0
CTD981063431	PFALTZ & BAUER INC	M111	0	0
DC8170024311	NAVAL RESEARCH LABORATORY	M112	0	-
KSD007150477	GNB INCORPORATED	M111	-	170
OKD001824564	AMERICAN AIRLINES, M & E CENTER	M111	-	187
OKD007220148	AMERICAN AIRLINES, COMPOSITE CENTER	M111	-	38
OKD081398612	UNIT PARTS COMPANY	M111	-	212
OKT410010797	GEA RAINEY PLANT #II	M111	-	7
CAD001216548	JOSLYN JENNINGS CORP	M112	-	-
CAD056160336	LITTON IND ELECTRON TUBE DIV.	M112	-	-
CAD982324154	COMPOSITE STRUCTURES	M112	-	-
CO7890010526	U.S. DEPARTMENT OF ENERGY - ROCKY FLATS	M112	-	-
MED001097237	SNS PLASTICS CO INC	M112	-	8
OKD000829440	ZINC CORPORATION OF AMERICA	M112	-	3
VAD003444379	VIRGINIA METALCRAFTERS INC	M112	-	-

Non Commercial Stabilization Systems and Capacities
(Basis: 1993 BRS-Form PS)

MOD985821719	MIDAMERICAN TRUCK MAINTENANCE	M119	-	-
OKD000829440	ZINC CORPORATION OF AMERICA	M119	-	3
MD6150004095	NATIONAL INSTITUTES OF HEALTH	M111	-	0
MD6150004095	NATIONAL INSTITUTES OF HEALTH	M112	-	0
	TOTAL FOR NON-COMMERCIAL FACILITIES		1,036,112	236,526

Commercial Metal Recovery Systems and Capacities
(Basi: 1993 BRS - Form PS)

Facility	Facility Name	System Code	Maximum RCRA Capacity	Utilized RCRA Capacity
NYD981182769	KBF POLLUTION MANAGEMENT INC	M019	4,035,363	1,757
CAD008488025	PHIBRO-TECH, INC.	M014	2,322,554	608,199
PAD002395887	HORSEHEAD RESOURCE DEVELOPMENT CO INC	M011	300,000	270,000
PAD990753089	GENERAL BATTERY CORP - READING COMPLEX	M013	83,600	3,894
MND006148092	GOPHER SMELTING & REFINING COMPANY	M013	48,000	60,251
ILD984766279	RECONTEK INC	M014	48,000	357
CAD069124717	MICRO METALLICS CORPORATION	M011	28,050	39
ALD046481032	SANDERS LEAD COMPANY, INC.	M013	25,000	5,200
PAD981038227	WORLD RESOURCES COMPANY	M014	24,250	20,446
MOD059200089	DOE RUN CO BUICK SMELTER	M013	21,175	1,339
PAD981110570	HORSEHEAD RESOURCE DEVELOPEMENT CO INC	M011	20,000	1,216
CAD088504881	KINSBURSKY BROTHERS INC.	M014	15,980	10,500
MND981098478	U.S. FILTER RECOVERY SERVICES, INC.	M014	8,655	418
CAD070148432	DREW RESOURCE CORPORATION	M014	8,501	3,346
CAD069124717	MICRO METALLICS CORPORATION	M014	5,976	31
MND985746569	RECYCLIGHTS, INC.	M014	5,622	610
LAD057109449	UOP - SHREVEPORT PLANT	M014	2,600	726
ILD005087630	UNITED REFINING & SMELTING CO	M011	2,500	126
IND093219012	HERITAGE ENVIRONMENTAL SERVICES, INC	M014	2,105	6
CAD001968361	LEARONAL INC	M014	1,142	100
NYD001325661	LEARONAL, INC.	M014	1,004	46
LAD981152903	NEW ORLEANS SILVERSMITHS	M014	890	157
FLD984217877	CHEMICAL POLLUTION CONTROL INC	M019	842	683
MID985567114	CYANO CORPORATION OF MICHIGAN INC.	M014	788	190
NYD048148175	MERCURY REFINING COMPANY INC	M012	510	311
PAD002390961	BETHLEHEM APPARATUS CO INC	M012	375	350
PAD987367216	ADVANCED ENVIRONMENTAL RECYCLING CORP	M012	345	172
OHD061614673	DAYTON WATER SYSTEMS	M014	259	197
CAD981689953	LESHER COMMUNICATIONS INC.	M014	209	23
ILD005087630	UNITED REFINING & SMELTING CO	M014	209	5
CAD982440273	BAY PHOTO LAB INC.	M014	186	80
CAD069138899	J&B ENTERPRISES	M014	133	53
NYD001325661	LEARONAL, INC.	M011	125	6
ILD000675249	AMERICAN CHEMICAL & REFINING	M014	104	52
KS1571924140	MCCONNELL AIR FORCE BASE	M014	104	-
LAD087029872	ALFRED'S PROCESSOR SALES/SERVICE	M014	100	39
PAD089352983	FEDERATED-FRY METALS	M013	83	83
MND981002470	ELECTROCHEMICALS, INC	M014	78	64
MAD000650051	WINDFIELD ALLOY INC.	M014	38	1
NYD086225596	AT&T NASSAU PLACE	M014	38	29
CAD981424732	QUICKSILVER RECYCLING INC	M019	36	32
IND005226949	REMOTE CONTROLS INC.	M014	27	27
NYD086225596	AT&T NASSAU PLACE	M011	25	12
RID001200609	PEASE & CURREN INC	M019	22	7
AZT050010685	ALLIED PRECIOUS METALS RECYCLING CO.	M013	20	60
CAD981424732	QUICKSILVER RECYCLING INC	M014	5	-
RID001200252	TECHNIC INC	M011	5	4
MAD000650051	WINDFIELD ALLOY INC.	M013	3	0

Commercial Metal Recovery Systems and Capacities
(Basi: 1993 BRS - Form PS)

RID001200252	TECHNIC INC	M019	2	84
NYD071600100	STATE UNIVERSITY OF NY AT BINGHAMTON	M014	1	0
CAD069138899	J&B ENTERPRISES	M011	0	0
NYD030485288	REVERE SMELTING & REFINING CORPORATION	M013	-	114,362
CAD981160948	PHIBRO-TECH, INC. AKA ENTECH RECOVERY, I	M014	-	560
PAD087561015	INMETCO INC	M011	-	40,168
CAD982411993	MERCURY TECHNOLOGIES INTERNATIONAL	M012	-	-
IND000199653	QUEMETCO, INC.	M013	-	148,548
RID981886104	GANNON & SCOTT INC	M013	-	6
COD983788688	ENVIROSERVE INC.	M014	-	-
IND984891994	BOLIDEN METECH, INC	M014	-	64
MID985619824	NORTRU INCORPORATED	M014	-	-
RID063890214	BOLIDEN METECH INC	M014	-	153
RID981886104	GANNON & SCOTT INC	M014	-	32
IND000718130	REFINED METALS CORPORATION	M013	-	-
MOD030712822	SCHUYLKILL METALS CORPORATION	M013	-	-
CAD981978752	PASADENA CITY COLLEGE	M014	-	-
CAD982523102	PHOTOTEK	M014	-	-
TXD084281575	TEXAS INSTRUMENTS, INC.	M014	-	-
TXD981514383	ALPHA OMEGA RECYCLING, INC.	M014	-	-
TXD988079307	FUJI TRUCOLOR	M014	-	-
TX6213820529	LONGHORN ARMY AMMUNITION PLANT	M014	-	-
	TOTAL QUANTITY FOR COMMERCIAL FACILITIES		7,015,635	1,295,222

Non Commercial Metal Recovery Systems and Capacities
(Basis: 1993 BRS- Form PS)

Facility	Facility Name	System Code	Maximum RCRA Capacity	Utilized RCRA Capacity
LAD008184137	SCHUYLKILL METALS CORP	M013	350,000	6,417
IND000717959	GENERAL BATTTERY/EXIDE CORPORATION	M013	240,000	132,923
CAD008344285	DICEON ELECTRONICS INC	M014	127,284	58,687
MAD990886301	ALTRON INCORPORATED	M014	123,853	82,877
CAD980816763	VELIE CIRCUITS INC.	M014	114,679	110,509
MND050730175	HARD CHROME INC	M014	112,594	170,898
CAD983601360	SOUTH BAY CIRCUITS INC	M014	107,381	76,755
PAD990753089	GENERAL BATTERY CORP - READING COMPLEX	M013	106,400	4,956
IAD984568204	UNIVERSAL CIRCUITS INCORPORATED	M014	106,255	38,729
MID006409387	PLASTIC PLATE I	M014	92,160	43,536
MNT280010257	NICO PRODUCTS INC	M014	85,488	54,712
MND980700900	BUREAU OF ENGRAVING, INC - INDUSTRIAL DV	M014	84,762	42,400
CAD008492951	HUGHES MISSILE SYSTEMS CO	M014	72,448	130
MND045976107	PRO-TECH INC	M014	72,195	28,731
MND116224288	PROFESSIONAL PLATING INC	M014	45,872	19,187
PAD005031448	ERIE PLATING COMPANY	M014	45,746	45,746
NJD011417516	PLASTI CLAD METAL PRODUCTS INC	M014	43,853	6,649
MND981089832	UNIVERSAL CIRCUITS, INC.	M014	43,716	25,761
MID981090509	LACKS, AIRLANE	M014	42,952	42,952
FLD004092839	GULF COAST RECYCLING INC	M013	41,000	27,513
CAD983654633	TRUST PRINTED CIRCUITS	M014	33,361	17,608
MND980681589	AVTEC FINISHING SYSTEMS INC	M014	30,901	10,587
MND006481287	JOYNER'S SILVER AND ELECTROPLATING	M014	29,633	15,638
IND980898522	CUSTOM CIRCUITCRAFT, INC.	M014	26,022	15,613
CT4170022020	US NAVAL SUBMARINE BASE	M014	25,500	23
GAD070330576	GNB BATTERY TECHNOLOGIES	M013	25,200	24,010
RID059735761	ADVANCED CHEMICAL COMPANY	M014	18,657	827
ARD981908890	NUCOR YAMATO STEEL	M011	17,000	12,427
CAD009680232	GRAPHIC RESEARCH INC	M014	16,971	2,286
MND006219232	MICOM CORP	M014	13,136	11,259
NYD001273242	QUEENS PLATING COMPANY INC	M014	7,500	1,088
NHD982202673	ABC FABRICATORS INC	M014	6,844	3,332
PAD002116994	TORPEDO WIRE & STRIP INC	M014	4,918	624
MND053422762	UNIVERSAL CIRCUITS INC	M014	4,170	3,963
NYD041293127	R D SPECIALTIES INC	M014	3,753	4
AZD980896310	CONTINENTAL CIRCUITS	M014	3,700	751
MND085114890	TELEX COMMUNICATION INC	M014	3,508	718
AZD980816276	TALLEY DEFENSE SYS	M014	3,123	0
IND075954222	DIVERSFIELD SYSTEM INC.	M014	2,752	440
MAD001411081	RAYTHEON COMPANY	M014	2,717	1,368
MND006253801	SUPERIOR PLATING INC	M014	2,365	647
NYD052782497	NEWSDAY, INC.	M014	2,180	3
MND079731519	UNISYS CORPORATION	M014	1,719	3
CAD982519423	SAN JOSE MERCURY NEWS	M014	1,344	-
MND980615496	ROSEMOUNT AEROSPACE INC.	M014	1,043	518
AZD063274609	CONTINENTAL CIRCUITS CORP	M014	1,000	216
KYD985083625	APPALACHIAN REGIONAL MEDICAL CENTER	M014	957	11
CAD982436172	MULTILAYER TECHNOLOGY, INC.	M014	911	193

Non Commercial Metal Recovery Systems and Capacities
(Basis: 1993 BRS- Form PS)

KYD074047556	GE AIRCRAFT ENGINES	M014	822	21
CAD983600339	KAISER FOUNDATION HOSPITALS	M014	651	580
DED003913266	OCCIDENTAL CHEMICAL CORPORATION	M012	600	153
GAD980847479	HITACHI CHEMICAL ELECTRO-PRODUCTS INC	M014	506	404
KYD130399363	HUMANA HOSPITAL-UNIVERSITY OF LOUISVILLE	M014	450	24
MOD985801380	MONSANTOA COMPANY	M014	436	108
KYD074051202	LEXINGTON CLINIC	M014	420	24
CAD063110605	CHEVRON PETROLEUM TECH. CO.	M014	415	9
CAD071557029	THE GRASS VALLEY GROUP, INC.	M014	410	98
ALD008163388	OCCIDENTAL CHEMICAL CORPORATION	M012	400	120
MAD981063001	CPC INCORPORATED	M014	375	129
MND981089790	WEST PUBLISHING COMPANY	M014	365	123
MND985668227	PRECISION DIVERSIFIED IND., INC.	M014	311	217
CA2170023152	USNAVY CHINA LAKE NAVAL AIR WPNS STN	M014	288	288
MND083467688	MAYO FOUNDATION	M019	280	240
OKD055943286	GRAPHIC ELECTRONICS	M014	271	-
PAD134752583	BURNDY CORP	M014	258	67
PAD980554570	OSRAM SYLVANIA INC - WARREN	M014	252	39
NHD986466688	CIRCUIT CONNECT INC	M014	250	188
FL2800016121	USAF CAPE CANAVERAL STATION	M014	218	37
NYD045201688	AMERICAN BOARD CO	M014	209	197
MAD001014174	AGFA DIVISION, MILES INC,	M014	204	33
ALD004019642	OCCIDENTAL ELECTROCHEMICALS CORP.	M012	200	88
MDD121338297	CARROLL COUNTY ITEMS	M014	163	16
NYD082788126	GEOMETRIC CIRCUITS, INC.	M014	150	83
PAD003004587	ATOTECH USA INC - STATE COLLEGE	M014	133	21
CAD108148958	SAINT JOSEPH MEDICAL CENTER	M014	125	63
NYD045606480	3M PRINTING & PUBLISHING	M014	125	11
CAD047784574	KETEMA A&E	M014	119	3
LAD062666540	PIONEER CHLOR ALKALI COMPANY	M014	115	33
CAD008314908	SOLAR TURBINES INC-HARBOR DRIVE FACILITY	M019	110	22
CTD983876814	COMPONENT TECHNOLOGIES, INC.	M019	92	64
CAD047297593	NATIONAL SMELTING & REFINING	M014	91	-
NYD002241982	HADCO CORPORATION	M014	87	15
OHD004174827	R.R. DONNELLEY & SONS COMPANY	M014	87	46
MND058330473	ADVANCED FLEX, INC. - PLANT 1	M014	87	13
MAD086538394	RAYTHEON COMPANY	M014	78	9
MNT280010414	UNIVERSITY OF MINN MPLS CAMPUS	M014	66	59
KYD981854987	ST. JOSEPH HOSPITAL	M014	65	32
KYD045739471	AMERICAN GREETINGS CORPORATION	M014	62	3
MND000819268	ALLIANT TECHSYSTEMS, INC T.C. AMMUN.	M014	60	20
NYD049838568	EXCEL PRECISION, INC.	M014	59	14
AKD000643239	BP EXPLORATIOIN ALASKA INC PRUDHOE BAY	M014	58	55
CTD001183763	CIRCUIT WISE INC	M014	54	2
KYD068324037	LEXINGTON HERALD LEADER COMPANY	M014	50	17
NYD987000759	COLOR DATA EAST	M014	50	9
MND982425589	STAR TRIBUNE NEWSPAPER	M014	48	5
CAD076243815	TELEDYNE AIRCRAFT PRODS-CAST PRODS OPS	M014	44	37
NHD081255788	ADVANCED CIRCUIT TECHNOLOGY	M014	42	31
KYD985085166	OUR LADY BELLEFONTE HOSPITAL	M014	40	34

Non Commercial Metal Recovery Systems and Capacities
(Basis: 1993 BRS- Form PS)

KY6210020479	USAARMC AND FORT KNOX	M014	38	28
KYD144303864	HARDIN MEMORIAL HOSPITAL	M014	35	25
MND982639775	T.R.C. CIRCUITS INC.	M014	34	7
COD981549413	SAS CIRCUITS INC	M014	33	18
CTD001159557	COMBUSTION ENGINEERING, INC.	M014	32	1
KYD006383665	GATEWAY PRESS INC.	M014	30	12
PA0890090004	US DOE - BETTIS ATOMIC POWER LAB	M014	30	0
MND006147102	QUEBECOR PRINTING INC.	M014	30	15
MAD991289505	CHILDREN'S HOSPITAL CORP.	M014	28	17
CAT080031461	CSUF	M014	25	1
CAD983576760	PROGRESSIVE CIRCUIT PROD	M014	25	1
GA7360015450	VA MEDICAL CENTER	M014	23	8
KYD068135516	HIGHLANDS REGIONAL MEDICAL CENTER	M014	23	23
MD3750832062	FREDERICK CANCER RESEARCH AND DEVELOPN	M014	22	1
MND048166672	INSTANT WEB, INC	M014	22	12
CAD080129000	GENENTECH INC	M014	21	2
FL6800014585	USNASA KENNEDY SPACE CENTER	M014	21	15
NYD033490640	ANDIN INTERNATIONAL	M014	20	7
FLD060240207	MARTIN MARIETTA MISSILE SYSTEMS	M014	18	5
CAT000618603	CHEVRON RESEARCH & TECHNOLOGY	M014	18	1
CA2890012584	LAWRENCE LIVERMORE NATIONAL LABORATOR	M014	18	1
CAD009220898	TELEDYNE RYAN AERONAUTICAL	M014	18	0
COD085270270	BALL AEROSPACE & COMMUNICATIONS GROUP	M014	16	2
FLD004100152	E-SYSTEMS ECI DIV	M014	16	0
UTD980959191	HERCULES AEROSPACE	M014	15	6
MND081138604	ALLIANT TECHSYSTEMS PROVING GROUND	M019	15	0
MND981536006	LITHO SPECIALTIES, INC.	M014	14	12
MED037719846	US DEPRTMENT OF VETERAN AFFAIRS	M014	13	1
CA7170024528	USNAVY NAVAL WEAPONS STN CONCORD	M014	13	1
MND980826457	MCF-STILLWATER	M014	12	0
CTD001183763	CIRCUIT WISE INC	M019	12	1
FLD980841746	MARTIN MARIETTA ELECTRONIC SYSTEMS	M014	12	1
MS6210809871	WATERWAYS EXPERIMENT STATION	M014	11	1
KYD980844757	RIVERPORT IMAGING	M014	10	3
KY5170024173	NAVAL ORDNANCE STATION	M014	10	2
MND985703024	SOURCE, INCORPORATED	M019	10	7
CAT000617597	USC HEALTH SCIENCES CAMPUS	M014	10	8
NYD043835081	AIR TECHNIQUES INC	M014	10	3
FL2570024404	USAF PATRICK	M014	10	7
MDD050793926	TOWSON STATE UNIVERSITY	M014	9	1
VAD000820712	UNIVERSITY OF VIRGINIA	M014	9	5
ME8170022018	US NAVAL AIR STATION	M014	9	1
MND985684620	IMPRESSIONS INC.	M014	8	5
CAD075301390	TELEDYNE AIRCRAFT PRODUCTS	M014	8	7
FLD984225821	HEALTHSOUTH DOCTORS'HOSPITAL	M019	8	6
MND041786930	ADVANCED FLEX, INC. - PLANT 2	M014	8	6
MND985667047	QUEBECOR PRINTING ST. CLOUD, INC.	M014	7	6
FLD004104105	HONEYWELL INC	M014	7	1
KYD985095140	GOOD SAMARITAN HOSPITAL	M014	6	3
MOD071999783	UMSL DANGEROUS CHEMICALS STORAGE BLDG	M014	6	1

Non Commercial Metal Recovery Systems and Capacities
(Basis: 1993 BRS- Form PS)

ME9570024522	US AIR FORCE BASE - LORING	M014	5	2
NYD002235182	MARTIN MARIETTA CORP AIR FORCE PLNT#59	M014	5	1
NYD981875461	PEPSI-COLA COMPANY	M014	5	8
MND985677210	CONTAINER GRAPHICS CORP	M014	4	2
MAD041710609	TECH-ETCH, INC.	M014	4	1
NMD041358904	NEW MEXICO INST. OF MINING & TECHNOLOGY	M014	4	2
CAT000613372	KCA ELECTRONICS INC.	M014	3	1
KSD980852669	UNIVERSITY OF KANSAS	M014	3	1
CAD099457061	MAGNAVOX ELECTRONIC SYSTEMS CO	M014	3	0
CA1800005034	USNASA AMES RESEARCH CENTER	M014	3	177
CAT000617589	USC UNIV PARK CAMPUS	M014	3	2
MND000819292	ADVANCED FLEX, INC. - PLANT 3	M014	2	1
FL8170023792	USN COASTAL SYSTEMS CENTER	M014	2	0
CAT080033392	CALIFORNIA STATE UNIVERSITY NORTHRIDGE	M014	2	-
MND980792642	MANKATO STATE UNIV	M014	2	1
CAD072518517	BECKMAN INSTRUMENTS INC	M014	2	2
VAD046960449	BABCOCK & WILCOX CO N N F D	M014	1	1
ME7170022019	PORTSMOUTH NAVAL SHIPYARD	M019	1	1
CAD079622569	AEROJET ELECTRONIC SYSTEMS PLANT	M014	1	-
MAD001027325	GARE INCORPORATED	M014	1	0
FLD064824030	MCDONNELL DOUGLAS MISSILE PRODUCTION	M014	1	0
MAD001423631	NORTHEASTERN UNIVERSITY	M014	1	0
NYD000810986	CORNELL UNIVERSITY LIFE SAFETY	M014	1	0
CAD009587700	TELEDYNE ELECTRONIC TECHNOLOGIES	M014	0	0
CAD047791421	CARPENTER TECH. CORP. -SPECIAL PROD. DIV	M014	0	0
MO4213820489	LAKE CITY ARMY AMMUNITION PLANT	M014	0	0
MID041793589	PARLIN INDUSTRIES INCORPORATED	M014	0	0
CTD010174613	KLOCK CO DIV OF WICKES CO INC	M014	0	0
CA1170090020	USNAVY PT LOMA NAVAL COMPLEX	M014	0	0
NYD000799239	SYRACUSE UNIVERSITY (QUAD)	M014	0	2
KSD007233323	KANSAS PLATING INC	M014	0	0
NY6360010312	VAMC - NORTHPORT	M014	0	0
MAD071723563	NEW ENGLAND DEACONESS HOSPITAL	M014	0	0
NHD073976904	GENCORP POLYMER PRODUCTS	M014	0	0
CAD066233966	QUEMETCO, INC.	M013	-	1,609
PAD002330165	EAST PENN MFG CO	M013	-	146
CAD000628032	AIRCRAFT X-RAY LABORATORIES, INC	M014	-	3
CAD001425206	RAYTHEON COMPANY ESD	M014	-	-
CAD008319089	CHROMALLOY ADV TURBINOLOGY	M014	-	-
CAD020530846	GDE SYSTEMS INC	M014	-	-
CAD028878015	STANFORD UNIVERSITY HOSPITAL	M014	-	-
CAD069130995	HEWLETT-PACKARD COMPANY	M014	-	-
CAD980673347	U.S. CIRCUIT, INC.	M014	-	-
CAD980737837	SACRAMENTO BEE	M014	-	-
CAD980885941	ALLERGAN MEDICAL OPTICS	M014	-	-
CAD981385958	AMBITECH, INC	M014	-	-
CAD982417172	NAPA PIPE CORP	M014	-	-
CAD982484826	UNIVERSAL CIRCUITS	M014	-	-
CAD990843716	ILC TECHNOLOGY	M014	-	-
CAT000646257	FLIGHT ACCESSORY SERVICE DIV. OF HAWKER	M014	-	-

Non Commercial Metal Recovery Systems and Capacities
(Basis: 1993 BRS- Form PS)

COD082657420	SCHLAGE LOCK COMPANY	M014	-	-
CTD018695999	AEROSPACE METALS	M014	-	-
DED002337806	NVF COMPANY	M014	-	34
KSD116030909	COLT TECHNOLOGY CORPORATION	M014	-	-
MAD001032358	GLOBE NEWSPAPER CO.	M014	-	14
MID047153077	PRODUCTION PLATED PLASTICS INCORPORATEI	M014	-	-
MND006159149	THE JOHN ROBERTS COMPANY	M014	-	6
MND006258115	JAPS-OLSON CO.	M014	-	5
MND985667807	ADVANCED FLEX, INC. - PLANT 2	M014	-	-
NED007281728	LINCOLN PLATING COMPANY	M014	-	-
NED986387041	SUPRA COLOR LABS INCORPORATED	M014	-	-
NYD986875326	HERAEUS PMR	M014	-	39
PAD005031497	AMERICAN TINNING & GALVANIZING CO	M014	-	-
PAD014299523	WEINSTOCK CONESTOGA INC	M014	-	1
PAD987377504	INTERNATIONAL ENVELOPE CO	M014	-	-
VTD001075886	MERIDEN STINEHOUR PRESS	M014	-	-
ALD000826958	AUBURN UNIVERSITY	M019	-	0
CAD009584210	CALIF INSTITUTE OF TECHNOLOGY	M019	-	-
CAD982324154	COMPOSITE STRUCTURES	M019	-	-
CTD002592020	BEAVER BROOK CIRCUITS INC.	M019	-	-
CTD023869423	COMPONENTS TECHNOLOGIES, INC	M019	-	-
CTD099762015	INTERMAGNETICS GENERAL CORP	M019	-	-
CT0572826873	CT ARMY NATIONAL GUARD BRADLEY BASE	M019	-	-
DED003930799	E.I. DUPONT CHESTNUT RUN	M019	-	1
MIT270012198	GRAND HAVEN BRASS FOUNDRY	M019	-	-
MND985668227	PRECISION DIVERSIFIED IND. INC.	M019	-	-
GU9170090022	USNAVY NAVAL HOSPITAL COMPLEX	M014	-	-
KSD007237241	BOEING COMPANY, THE	M014	-	-
	TOTAL QUANTITY FOR NON-COMMERCIAL FACILITIES		2,361,290	1,150,491

ES FOCUS: HAZMAT MANAGEMENT

Chemical fixation increases options for hazardous waste treatment

THE HAZARDOUS AND SOLID WASTE AMENDMENTS (HSWA) to the Resource Conservation and Recovery Act (RCRA) govern the manner in which hazardous materials are managed. Disposing RCRA hazardous wastes on or in the land is no longer an accepted remedial option. This land disposal restriction requires that all listed and characteristic hazardous wastes (as defined by RCRA) must be treated according to specified standards before they are disposed [*40 CFR 268.40*]. These treatment standards define technologies and concentration limits. Hazardous wastes that do not meet the standards are prohibited from being disposed on land, such as in landfills, surface impoundments, land treatment units, injection wells, and mines or caves.

BY GREGORY J. INDELICATO AND GARY A. TIPTON

The Environmental Protection Agency (EPA) permits land disposal of some hazardous waste streams provided the toxicity or mobility of the specific hazardous constituents has been reduced to required treatment standard concentrations. Such is the case with hazardous wastes exhibiting toxicity characteristics (TCs) as identified in *40 CFR 261.24*. Specifically, wastes contaminated with arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver — known as the RCRA metals — fall under the standard.

Given these TC concentration limits, EPA gives generators the ability to choose from several treatment technologies. The standard to which the effectiveness of other treatment technologies for a specific waste is composed is called the best demonstrated available technology.

Remedial options. Treatment generally is the only option for metal-containing listed wastes and wastes that include any RCRA metals in concentrations exceeding the TC treatment standard. There are several non-treatment methods; however, their applicability is limited. These include:

• *Reclassification of the material, followed by disposal.* This involves obtaining a variance to classify the waste as hazardous and dispose it as non-hazardous. Although reclassification is an inexpensive alternative, it is being phased out as variances expire and are not renewed.

• *Disposal in a permitted hazardous waste facility.* The waste is transported as hazardous waste to a hazardous-waste disposal facility, where it is treated and disposed. The advantage of this method is that the waste can be removed from the site quickly. However, the waste still must be treated to meet pre-disposal treatment standards; in addition, transportation, and offsite treatment and disposal of hazardous waste can be costly and increase the generator's risk of exposure to liability.

• *Reclamation and recycling.* As long as the waste contains specific metals in concentrations high enough for recovery, recycling is an attractive option, eliminating long-term liability and reducing the volume of waste generated. However, this method may not be viable if concentrations are not at threshold levels.

Thus, generators usually are forced to treat metal-contaminated waste using an accepted treatment technology, such as solidification and stabilization processes, thermal decomposition, sorbents, osmotic and ion-exchange methods, and flocculation and precipitation.

Solidification/stabilization. This common process treats waste by physically or chemically immobilizing the constituents, diminishing their effective mobility and toxicity. Many solidification and stabilization processes use cementing or encapsulation to immobilize contaminants. A variety of materials — such as portland cement and other calcium-based cements, silicates and other siliceous materials, and even asphaltics and waxess — are used as binders to stabilize the metals, or surround or incorporate the metals in a matrix.

In cement-based approaches, wastes are mixed directly with cement or similar setting materials; the metals then are incorporated and bound in the cement. The pH increases as the cement cures, and most multivalent cations are converted into insoluble hydroxides or carbonates. However, metal hydroxides and carbonates are insoluble only over a narrow pH range; as the curing process continues and pH increases, the solubility of these metal compounds will increase as well.

Another approach is to add a siliceous material with lime, cement, gypsum and other suitable setting agents. Siliceous material includes fly ash, blast furnace slag, and calcium, sodium or potassium silicates. Portland cement and lime are the most commonly used setting agents. Under proper conditions, a reaction will take place between the silica-rich material and the polyvalent metal ions, yielding a weakly bonded metal-silica material.

Various materials generally present in typical waste streams can inhibit the effectiveness of solidification/stabilization; these materials include sulfates, organics (oil and solvents, for example) and many of the metals being treated. The materials prevent or retard the curing process, reducing the strength and durability of the treated waste and increasing the susceptibility for leaching of the contaminants.

Treated wastes also are highly susceptible to changing chemical conditions, such as lower pH. Simple cemented wastes are subject to leaching in the presence of even mildly acidic solutions such as rainwater, thereby rendering the process ineffective for immobilizing the metals. As the matrix breaks down, the encapsulated material will begin to leach. Similarly, the matrix, if not processed properly, can retain a large amount of water that is not chemically bound. This can structurally weaken the final product, making it susceptible to leaching. Over time, the water will migrate out of the treated waste material and, in the process, leach out the metals.

Other solidification processes vary in applicability and effectiveness. Many of the thermoplastic processes — such as asphaltic, bitumen and paraffin-based methods — are costly and have limited compatibility with many waste streams.

These methodologies are enhanced if the contaminants can be chemically stabilized or "fixed" in the molecular structure of the solidified product. The applicability and effectiveness of the various chemical fixation protocols available depend on the nature of the contaminants, their concentrations, the matrix, other metal interactions and interferences, and physical and chemical parameters. These factors must be understood fully to maximize treatment effectiveness.

Chemical fixation. Chemical fixation is a treatment process that employs reagents

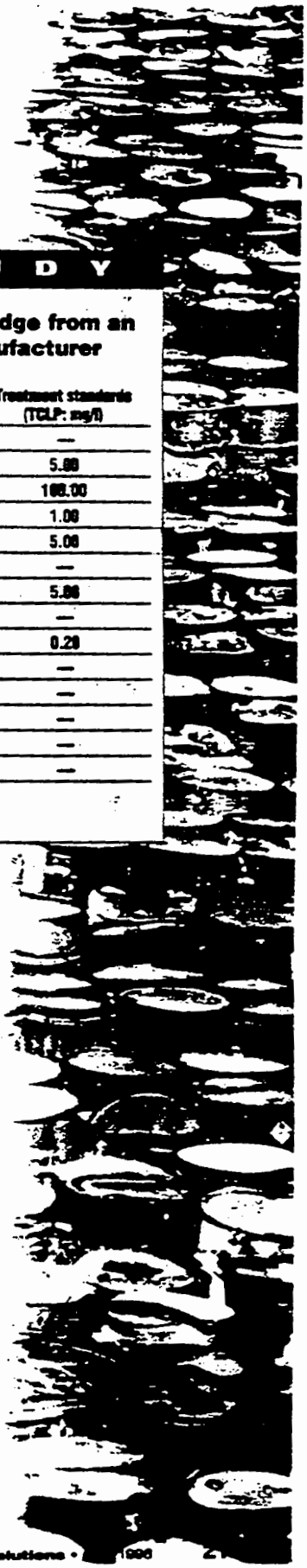
CONTINUED

CASE STUDY

Chemical fixation of dewatered sludge from an electronics/specialty parts manufacturer

Parameter	Untreated waste (mg/kg)	Treated waste (TCLP: mg/l)	Treatment standards (TCLP: mg/l)
Aluminum	2,610.00	0.78	—
Arsenic	2.93	<0.01	5.00
Barium	12.00	<1.00	100.00
Cadmium	<0.48	<0.01	1.00
Chromium	51,800.00	1.90	5.00
Copper	28,300.00	<0.01	—
Lead	28,900.00	<0.01	5.00
Magnesium	287.00	0.15	—
Mercury	0.83	0.003	0.20
Nickel	1,510.00	0.12	—
Selenium	1.70	<0.01	—
Silver	205.00	<0.01	—
Tin	643,000.00	3.20	—
Zinc	116.00	0.07	—

Note: Volume increase was less than 20%.



designed for the specific contaminant or contaminants in the waste stream. Using the pozzolanic material as a silica source, the metal-affected waste is remineralized as non-leachable metal silicates. The physicochemical reaction process, which involves hydration, sorption, molecular cross-linking and other reactions, ultimately produces a monolithic, calcium-metal silicate material with potentially high structural strength.

Chemical fixation uses predetermined treatment protocols based on the contaminants in the waste stream. The protocols specify the volumes, concentrations and proper sequencing of proprietary reagents, and emphasize appropriate mixing and reaction times for each step. Special attention is given to matrix interferences and interactions involving metal solubility, such as ionic strength, valence state, redox potential, pH and competing ions. It may be necessary to reduce the toxicity of specific contaminants (for example, hexavalent chromium or cyanide) before chemical fixation takes place. In other cases, the chemical activity of such specific metals as cadmium, mercury and arsenic may need to be stabilized or modified; this is especially true for metals that complex with organics.

Reaction kinetics must be optimized to ensure effective fixation of the contaminants in the waste stream. Several types of reagents can be added to induce and facilitate the chemical fixation process. These include:

- Mixing agents, which facilitate the dispersion of organics and help incorporate the metal(s) into the mixture;
- Inhibitors, which are used to slow hydration reactions so the slower silicate complexing reactions can occur;
- Complexing agents, which facilitate reactions between amorphous silica and the metal contaminants; and
- Accelerators, which increase the rate of the silicate reactions as the inhibitors are consumed.

Series of reactions. When properly combined, the metals-affected waste, fixing agents and proprietary chemicals (as determined by the appropriate protocol) produce a series of reactions. First, calcium silicates from the pozzolanic material begin to decompose, releasing calcium oxide and silica. Then, the calcium hydroxide is precipitated with the hydrated calcium silica gel under conditions that allow silica complexes to form.

Next, proprietary chemicals (selected based on the contaminants present) are added to the waste stream, increasing the viscosity of the mixture. This acts as an effective interparticule lubricant, which accelerates the homogenization of the mixture and simultaneously decelerates the diffusivity of other components in the cementation reaction.

At this point, the calcium oxide and calcium silicates hydrate while other chemicals dehydrate, generating cross-linkage among particles and dehydrated molecules. This helps prevent volume expansion in the solidified mixture. In this stage, the cementation reaction begins to accelerate.

Next, the hydrated calcium silica gel and crystals physically and chemically entrap the contaminants within the solidified matrix. Many of the metal components are incorporated into the crystalline structure through ion exchange, substitution, solid solution and complexing processes. Some fine inorganic particles are encapsulated physically within the macropores and micropores of the silicate matrix, while some metals are absorbed on the surface of the crystals and the particles of the fixing agent. Contaminant entrapment and encapsulation are enhanced naturally by the cage-like structure associated with the previously formed cross-linked molecules.

Finally, the dissolved or dispersed organic components are physically trapped and encapsulated in the macropores and micropores of the solidified mixture matrix, or are absorbed or chemisorbed on the surfaces of these pores through dipole-dipole interaction, London-force attraction or hydrogen bonding. Remaining components are incorporated chemically into the matrix through a variety of processes, which can include complex formation, chemical (covalent) bonding and cross-linkage formation. The process overcomes the tendency of organic waste components to inhibit the cementation reaction.

The solidified mixture produced by this process has much greater density and mechanical strength, which results in substantially lower leaching rates of the final waste product; 28-day, unconfined compressive strengths of more than 4,000 pounds per square inch (psi) have been achieved in some treated organic sludges, with as much as 12,000 psi in non-organic

CONTINUED

CASE STUDY

Chemical fixation of municipal incinerator ash

Metals	Ash mean* (ppm)	Treatment standard (TCLP: mg/l)	Field trial results 24-hour cure (mg/l) SW-A1	SW-A2	Field trial results 28-day cure (mg/l) SW-1	SW-2
Cadmium	19.65	1.00	ND	ND	ND	ND
Chromium	95.30	5.00	ND	ND	ND	ND
Lead	1,028.00	5.00	2.30	2.00	ND	ND
Nickel	185.00	20.00	ND	ND	ND	ND
Zinc	1,453.00	250.00	0.22	0.17	0.05	ND

ND = non-detectable
*The mean was calculated from samples taken on six different days.
SW-A1 and SW-1: mixture of 10% fly ash, 90% bottom ash, pozzolans, reagents
SW-A2 and SW-2: mixture of fly ash, pozzolans, reagents

materials. Characteristically, an increase in the density of a solid indicates diminished permeability, eliminating any substantial mobility of hazardous components within the solidified waste. The increased mechanical strength also minimizes the generation of additional surfaces from micro- and macro-fissures resulting from structural failure. Water penetration and the subsequent transport of soluble metals constituents are, therefore, minimized.

Chemical fixation advantages. There are distinct advantages in using this proprietary chemical fixation process:

- It can be used to treat a wide range of waste streams;
- There is minimal increase in the volume of the treated waste; and
- The process is relatively inexpensive.

Unlike many conventional solidification processes, chemical fixation can treat a wide range of waste streams, including complex, multicontaminant inorganic wastes and the typically hard-to-treat, organically contaminated wastes. Waste streams treated successfully by this process include soils contaminated by heavy metals, organically contaminated soils, electroplating sludges, paint-sludge wastes, sandblasting grit contaminated by heavy metals, API separator oils and sludges, petroleum tank bottoms, wastes containing polychlorinated biphenyls (PCBs), asbestos wastes, and incineration ash.

CASE STUDY

Chemical fixation of lead oxide catalyst waste

Parameter	Untreated waste	Bench scale results	Field test results	Treatment standards
Lead (total)	[illegible]			
[illegible]	[illegible]	8.50 mg/l	0.79 mg/l	5.00 mg/l
Volume increase	not applicable	–20%*	–15%*	not applicable

*Negative volume increase reflects decrease in volume because of densification of material through processing and solidification.

Note: Treated waste subsequently was disposed of as nonhazardous.

Con•fi•dence: *n* a: faith or belief that one will act in a right, proper, or effective way . . .

(Webster's Ninth New Collegiate Dictionary)

Wouldn't *you* like to have confidence in your hazardous waste management company?

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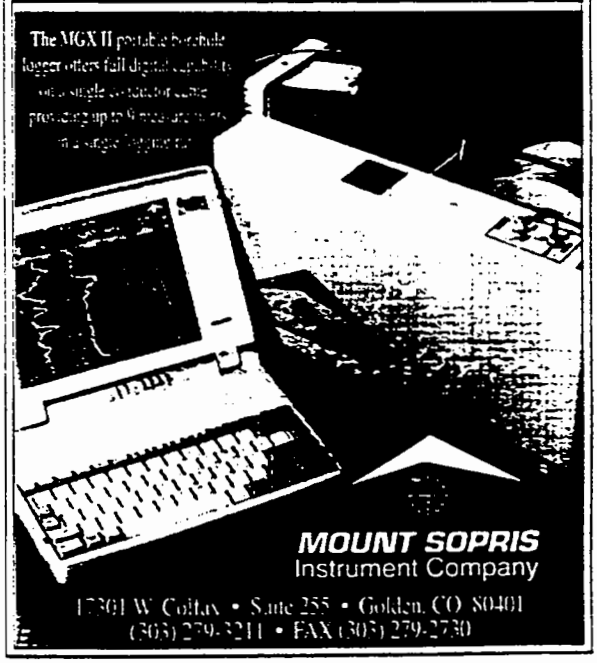
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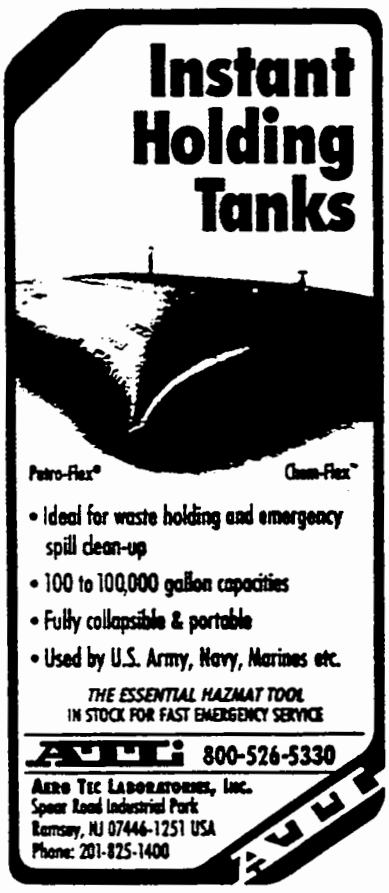
Mix formulations can be modified to accommodate specific waste streams so that the waste takes an active role in the cementation phase of stabilization. Some wastes even function as chemical reagents, assisting in their own stabilization by contributing to physical hardening, thereby reducing or eliminating permeation and leaching concerns. Also, by altering the design of the mix, processed waste can be poured as a plastic solid similar to concrete and cast into blocks, super sacks, rolloff boxes and other forms suitable for disposal. The processed waste also can be stabilized into a final state with a soil-type texture. In either form, low solubility reduces the potential for leaching to a negligible degree. The resulting treated waste yields analytical results below EPA's TC leaching procedures.

Chemical fixation can treat a wide range of waste streams, including multicontaminant inorganic and hard-to-treat organic wastes, at relatively low cost and with minimal volume increase.

Typical solidification/stabilization processes add cement to the mixture, increasing the volume of the waste. Chemical fixation limits volume expansion of the resultant waste material. Because disposal charges at most landfills are based on volume, this translates into significant savings. In one test, a 65-percent organic oily waste sludge that was solidified showed an increase in volume of less than 50 percent. In another test, soil containing PCBs at 30 parts per million was treated with chemical fixation, with a resulting 15-percent volume reduction and a 28-day compressive strength of 3,250 psi. When compared to the costs for treatment and disposal of hazardous waste, treatment processes and subsequent disposal of non-hazardous waste is significantly less expensive.

Chemical fixation can be customized for a facility's specific hazardous waste treatment and disposal program. Years of development and application has resulted in an extensive data base of treatment reactions for metal-contaminated wastes. More than 700 waste streams have been evaluated and successfully treated. More than 400 waste streams have been treated successfully in bench-scale testing, and more than 100 waste streams have been treated in field applications.

Gregory J. Indelicato is manager of emergency and remediation services for CURA Inc. (Dallas). Gary A. Tipton is an environmental consultant in Houston. Readers wishing to obtain further information on the chemical fixation process can contact Indelicato at 800/486-7117, ext. 220.



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Circle No. 306 on Reader Service Card

... Moore, Suzzane Wade

FROM: Stephen Schwartz

SUBJECT: Phone Calls to TSDs Who Stabilize D008 and Other TC-metal Hazardous Wastes

DATE: 13 May 96

At your request I contacted commercial Treatment, Storage, Disposal (TSD) facilities in EPA Regions 5 and 6 in order to determine if they perceived that there would be any problem to stabilize brass/bronze foundry TC-metal hazardous wastes to Universal Treatment Standard (UTS) levels. More specifically, I asked if they could use conventional stabilization technology to treat foundry sand-type D008 (TC for Lead), including the lead and all Underlying Hazardous Constituents (UHCs), to the UTS levels. Further, I requested any treatability data that the TSDs might have to support their contention that they could perform the required treatment. Attached is a list of the TSDs contacted. Also attached are the records of the telephone contacts, including the details of their telephone responses.

Nine TSDs were contacted, seven of which actually performed stabilization of TC-metal wastes, either on-site, or shipped to one of their facilities elsewhere in the country.

Of the two facilities that did not stabilize wastes, one is primarily a Deepwell disposer, and if they received such waste they would subcontract its treatment. The second of the two did not manage foundry-type wastes, or any other bulk solids, but mostly managed drummed waste.

In general, each of the seven facilities that performed the requested stabilization said that they manage foundry sand D008 wastes, or wastes that they believed were similar. Each said that they didn't believe that there were any significant problems in producing the necessary pozzolonic recipe to stabilize the waste in question to all applicable UTS levels, including the lead component. (Most seemed familiar with the UTS requirement for lead of 0.37 ppm TCLP, rather than the current D008 lead requirement of 5.0 ppm.) One facility said they do this type of stabilization to UTS levels routinely, and find no difficulty 90% of the time. (Initially they were only able to hit all UTS levels about 70% of the time, but have since improved.)

....., ADDRESS/PHONE OF FIRM: Chem. Waste Mgmt 318/582-2169
7170 John Brannon Rd.
Carlyss, LA 70663

CONTACT PERSON: Renée Dillon DATE: 10 May

1 - Do you receive non-wastewater wastes from brass/bronze foundries? Do you receive similar wastes? If similar, why are they similar?
Typical foundry waste contains fine sand particles contaminated with a few percent lead, zinc, copper.

Yes, they receive Brass/Bronze foundry wastes & similar wastes

2 - If so, do you stabilize those wastes with pozzolonic-type stabilizing agents?

Yes they stabilize w/ cement/H₂O mixtures → each tailored to the client.

3 - If so, what typical mix of water/stabilizer/waste do you use?

See above (2)

4- To what TCLP levels are you able to stabilize the BDAT/TC metals? CAN WE HAVE - DATA FOR UNTREATED/TREATED METAL CONSTITUENTS? They reach TC & UTS levels → & site believes they can meet UHC levels for all metals, even the primarily T.C. metals Won't release data

5- Would you forsee problems in treating these wastes to TC/UTS levels?

See (4) above

--- NUCLEAR CONTAINMENT SERVICES (LA). INC.
P.O. Box 73877
BATON ROUGE, LA 70874 302/926-3164

CONTACT PERSON: FRED GURDESS ~~Richard Goddard~~ DATE: 10 MAY '96
970/386-2293

1 - Do you receive non-wastewater wastes from brass/bronze foundries? Do you receive similar wastes? If similar, why are they similar?
Typical foundry waste contains fine sand particles contaminated with a few percent lead, zinc, copper.

STAB./LANDFILL FOUNDRY WASTE IN COLORADO.

TALKED TO COLORADO — THEY DO STAB. BRASS/BRONZE FOUNDRY WASTES & OTHER D008.

2 - If so, do you stabilize those wastes with pozzolonic-type stabilizing agents?
YES USE CONVENTIONAL POZZOL. MIXTURES

3 - If so, what typical mix of water/stabilizer/waste do you use?
VARIOUS RECIPES — NOT PROPRIETARY

4- To what TCLP levels are you able to stabilize the BDAT/TC metals? CAN WE HAVE DATA FOR UNTREATED/TREATED METAL CONSTITUENTS?
CAN MEET ANY METAL UTS LEVELS, EVEN LEAD, TYPICALLY LEAD IS NO PROBLEM. WON'T RELEASE DATA

5- Would you forsee problems in treating these wastes to TC/UTS levels?
NO PROBLEMS — HE'LL PROVE IT IF WE SEND SAMPLE

NAME/ADDRESS/PHONE OF FIRM: [illegible] Corp
16435 S. Central Ave.
Harvey, IL 60426
708/596-7040

CONTACT PERSON: Dorian Reyes DATE: 10 May 96

↳ He'll have someone call from York, PA

1 - Do you receive non-wastewater wastes from brass/bronze foundries? Do you receive similar wastes? If similar, why are they similar?
Typical foundry waste contains fine sand particles contaminated with a few percent lead, zinc, copper.
Yes — Get Brass foundry wastes.

2 - If so, do you stabilize those wastes with pozzolonic-type stabilizing agents? Yes, but somewhat PROPRIETARY

3 - If so, what typical mix of water/stabilizer/waste do you use?
See (2) above

4- To what TCLP levels are you able to stabilize the BDAT/TC metals? CAN WE HAVE DATA FOR UNTREATED/TREATED METAL CONSTITUENTS? No problem — Get to detection levels —
no data aware.

5- Would you foresee problems in treating these wastes to TC/UTS levels?
See (4) above

NAME OF FIRM: AETS/Chem. Waste Mngmnt
W124 N9451 Boundary Rd.
Menomonee Falls, WI 53051 414/255-4455

CONTACT PERSON: Brad Kountz DATE: 10 May/96

1 - Do you receive non-wastewater wastes from brass/bronze foundries? Do you receive similar wastes? If similar, why are they similar?
Typical foundry waste contains fine sand particles contaminated with a few percent lead, zinc, copper.
Yes they get brass foundry wastes

2 - If so, do you stabilize those wastes with pozzolonic-type stabilizing agents? Stabilize w/ conventional agents. RCRA

3 - If so, what typical mix of water/stabilizer/waste do you use?
/see (2) above

4- To what TCLP levels are you able to stabilize the BDAT/TC metals? CAN WE HAVE DATA FOR UNTREATED/TREATED METAL CONSTITUENTS? Currently treat Dross - less to <5 ppm TCL.
No data available

5- Would you forsee problems in treating these wastes to TC/UTS levels?
Doesn't think treating to UTS as a problem.

NAME/ADDRESS/PHONE OF FIRM: Heritage Environ. Servs.
7901 W. Morris St.
Indianapolis, IN 46231 317/243-0811 x

CONTACT PERSON: Darcy Ray DATE: 10 May/96

1 - Do you receive non-wastewater wastes from brass/bronze foundries? Do you receive similar wastes? If similar, why are they similar?
Typical foundry waste contains fine sand particles contaminated with a few percent lead, zinc, copper.
Believe they can handle this — don't know if they actually do handle foundries.

2 - If so, do you stabilize those wastes with pozzolonic-type stabilizing agents? Use cement type stuff — use pug-mill

3 - If so, what typical mix of water/stabilizer/waste do you use?
Conventional — separate testing

4- To what TCLP levels are you able to stabilize the BDAT/TC metals? CAN WE HAVE DATA FOR UNTREATED/TREATED METAL CONSTITUENTS?
Treat to F006 code LDR values — believe they can treat — they have a model — no data avail

5- Would you foresee problems in treating these wastes to TC/UTS levels?
Believe they can meet standards for UTS

NAME, ADDRESS, PHONE OF FIRM: GNI Group (Disposal Systems)
P.O. Box 1914
Deer Park, TX 77536

CONTACT PERSON: Bob Gresham (Warren Norris) 713/930-2538

DATE: 10 May 96

1 - Do you receive non-wastewater wastes from brass/bronze foundries? Do you receive similar wastes? If similar, why are they similar?

Typical foundry waste contains fine sand particles contaminated with a few percent lead, zinc, copper.

Not much foundry waste, but do have sand blast Pb depressing waste.

There's a local outfit, Slag Staffed Stuff to Chem. Waste Mngmn't.

2 - If so, do you stabilize those wastes with pozzolonic-type stabilizing agents? Yes

3 - If so, what typical mix of water/stabilizer/waste do you use?

Conventional proportions (Fly ash, lime kiln dust, cement dust - Bill, Ralph, powders)

4- To what TCLP levels are you able to stabilize the BDAT/TC metals? CAN WE HAVE DATA FOR UNTREATED/TREATED METAL CONSTITUENTS?

Can treat — but don't have data to give.

5- Would you foresee problems in treating these wastes to TC/UTS levels?

Believe they can treat all stuff to UTS levels Pass 90% of time.

NAME/ADDRESS/PHONE OF FIRM: Clean Harbors of Chicago
11800 South Indiana Ave.
Chicago, IL 60617
312/646-6202

CONTACT PERSON: CNS Dorian (Smith) Tom Gottloff DATE: 10 May 96

1 - Do you receive non-wastewater wastes from brass/bronze foundries? Do you receive similar wastes? If similar, why are they similar?
Typical foundry waste contains fine sand particles contaminated with a few percent lead, zinc, copper.
Would [illegible] in Centralia - still more someone can at
Yes, The [illegible] Cerro/Olin Foundry
(Method - Same as NOT TC [illegible])

2 - If so, do you stabilize those wastes with pozzolonic-type stabilizing agents? Yes

3 - If so, what typical mix of water/stabilizer/waste do you use?
Whatever Recipe Works.

4- To what TCLP levels are you able to stabilize the BDAT/TC metals? CAN WE HAVE DATA FOR UNTREATED/TREATED METAL CONSTITUENTS? Whatever Client needs, they can meet - but
No Data Available

5- Would you forsee problems in treating these wastes to TC/UTS levels?
No.

——, STORAGE, AND DISPOSAL FACILITIES CONTACTED

1 - GNI Group (Disposal Systems)
P.O. Box 1914
Deer Park, TX 77536

Mr. Warren Norris - 713/930-2588

2 - Clean Harbors of Chicago
11800 Stoney Island Avenue
Chicago, IL 60617

Mr. Tim Getzloff - 312/646-6202

3 - AETS/Chemical Waste Management
W124 N9451 Boundary Road
Menomonee Falls, WI 53051

Mr. Alan Koumtz - 414/255-6655

4 - Heritage Environmental Services
7901 W. Morris Street
Indianapolis, IN 46231

Ms. Darcy Ray - 317/243-0811 ext.1483

5 - Envirite Corp.
16435 S. Center Avenue
Harvey, IL 60426

Mr. David Reyes - 708/596-7040

6 - Rollins Environmental Services (LA), Inc.
P.O. Box 73877
Baton Rouge, LA 74137

Fred Gurdess - 302/426-3168 &
Richard Grondan - 970/386-2293 (Colorado facility)

7 - Chemical Waste Management
7170 John Brannon Road
Carlyss, LA 70663

Ms. Renee Dillion - 318/583-2169

8 - Treatment One
5743 Cheswood
Houston, TX 77087

Ms. Shiela Armstrong - 502/327-8860 (Louisville, KY facility)

THEY DO NOT HANDLE BULK SOLIDS, INCL. FOUNDRY SAND WASTES.

[illegible] Company
P.O. Box 709
Texas City, TX 77592

Ms. Tracy Holister - 409/945-3301

DEEPWELL FACILITY. THEY WOULD SUBCONTR
NONWASTEWATERS.

MEMORANDUM

TO: The RCRA Docket

SUBJECT: Capacity-Related Information

DRAFT

DATE: May 23, 1996

Participants:

Anita Cummings, EPA/OSW
Mike Petruska, EPA/OSW
Kevin Igli, CWM
Mitch Hahn, CWM
Paul Borst, EPA/OSW
Mary Cunningham, EPA/OSW
Jim Buchert, Versar
C. Pan Lee, EPA/OSW
Jose Labiosa, EPA/OSW
Steve Silverman, EPA/OGC
Sue Slotnick, EPA/OSW
Jim Thompson (Phone), EPA/OECA

This meeting note mainly summarized the capacity-related information. (For treatment issues, please refer to meeting notes prepared by Versar for Waste Treatment Branch.) CWM provided treatment data (CBI) to EPA. They stated that industries are generally lack of data for UHC in the wastes streams. They will provide volume data for the 20 to 30% of total waste streams received which are subject to additional treatment if they have to meet the proposed UTS for some of TC metals. Another 5 to 10% (in addition to 20 to 30%) of currently approved waste streams will not be able to meet the proposed UTS even with the development of new recipes.

CWM's current stabilization capacity of 500,000 tons per year is provided by their facilities in (1) Emelle, AL; (2) Kettleman City, CA; (3) Arlington, Or; (4) Model City, NY; (5) Fort Wayne, IN and (6) Menomonee Falls, WI. They are not currently using stabilization capacity maximally.

Attached please find a copy of meeting notes prepared by Versar for OSW/WTB.

DRAFT SUMMARY OF MEETING WITH REPRESENTATIVES OF CHEMICAL WASTE MANAGEMENT (CWM) TO DISCUSS COMMENTS AND DATA RELATED TO PHASE IV

May 23, 1996, 10:00 - 12:00
2800 Crystal Station
Arlington, VA
2nd Floor, Costale Room

DRAFT

ATTENDEES: See Attachment 1

The following summarizes the issues that were discussed at the May 23, 1996 meeting between EPA and CWM representatives. This narrative does not provide a verbatim account of the meeting, and for the purposes of clarity and continuity, items are sometimes not presented in the order in which they were discussed.

The purpose of this meeting was for EPA and CWM representatives to discuss comments and additional data regarding the Proposed Phase IV rule (proposed treatment standards for characteristic metal wastes). The primary concerns expressed by CWM were treatment of wastes that (1) have problems meeting current LDRs; (2) have more than one metal contaminant; (3) contain arsenic, lead, or selenium; and (4) have low levels of contamination. CWM also expressed concerns about the perceived inconsistencies between RCRA and TSCA and the HWIR and Phase IV rules.

After copies of the meeting agenda (attachment 2) were distributed, CWM began with a few opening comments: The comments submitted by CWM were based on a survey of their technical managers. Additional data were provided by CWM that backs up their comments with real waste stream data. In general, CWM lacks data for UHCs, because there have been no previous regulatory drivers requiring generators to test for these constituents in their wastes.

CWM asserted that from a policy standpoint, the Phase IV proposal does not make sense. For example, concerns were raised regarding scenarios such as the following: if a waste is characterized as D008, it will need to be treated for UHCs, but if a similar waste had the same UHCs at higher concentrations, but did not contain lead, it may not be hazardous, and therefore, could be sent to a Subtitle D facility without treatment. Because it fails TCLP for lead, the first waste pulls the organics into Subtitle C. CWM also mentioned the current EPA policy which states that a hazardous waste with metals cannot be burned unless it contains organic UHCs above the UTS levels. If the UHC levels are barely exceeded, incineration may not be appropriate, but it is allowed.

CWM stated that the current system is working fine, and wondered what value was added by the proposal. The UHC requirement complicates the waste characterization process when generators use their knowledge of the characteristics of the waste stream; at low UHC levels,

the generators would just be guessing. Currently, no one can certify that the UHCs are not in the waste.

Sometimes decharacterized waste is sent to a Subtitle C landfill. (The changes to 40 CFR 258 have resulted in better construction of Subtitle D landfills, and the design standards are much closer to Subtitle C than before.)

Agenda items 1 and 2: Applying UTS and UHCs to Characteristic Metal Wastes

CWM stated that their technical managers provided their data quickly, and more may be available. They also stated that when, for example, D008 is treated, treatment is halted when the concentration of the lead in the waste is below the characteristic level of 5.0. Sometimes the TCLP result may be lower than 5.0, but CWM has not tried to reach 0.37, and although they have achieved this level on some occasions, they do not know if it can be reached on a regular basis. Typically, the waste will carry multiple waste codes, and interaction of the metals will interfere with the test results (e.g., low lead leachate, but high chromium leachate levels). CWM indicated that they need to examine the waste streams individually, and determine what new (and possibly cheaper) reagents they need to add to meet the UTS. CWM referred to their original comments where they stated an estimated cost of about $1,000 per waste profile to do this. They mentioned that one of their facilities recently examined different profiles and determined that the cost of changing their stabilization recipes increases the treatment cost by about 32 percent. CWM estimates that about 70 to 80% of the waste that they currently treat can meet UTS without additional cost.

The current CWM treatment capacity is 500,000 TPY, but "20 to 30 percent" of this will require a new treatment recipe to meet the UTS for D004 through D011 wastes. The recipe for a batch stabilization is specific for that batch and is determined on a case-by-case basis. CWM tries different recipes in the lab, and then scales up the process. Treatment is verified at each step in case the original sample was not representative of the waste.

CWM disagrees with EPA's positions that (1) treating to meet the characteristic level does not exempt a waste from RCRA, and (2) even though there is good treatment now, it should be modified if there is better treatment. When treating for metals to UTS, there can be other changes to the wastes characteristics (e.g., solubility) that may effect its treatment. Problems can occur when treating at low ppm levels. For example, when the standard is 0.5 ppm and a waste has been treated to 0.75 ppm, re-treatment with bulk reagents can lead to incidental dilution. (Multiple facilities use a back hoe and a pit to do stabilization.)

CWM believes that pre-treatment is too costly, and competition is already difficult. EPA believes that pre-treatment to homogenize wastes should not be cost prohibitive, because, based on the reaction kinetics, treatment would be ineffective without it. Sometimes pre-treatment (e.g., crushing) is done to facilitate the process. Sometimes problems such as different particle sizes, or a "sticky" clay matrix can require pre-treatment.

Problem wastes include those that contain arsenic, lead, and selenium. Treatment of wastes containing selenium is a consistent problem, especially as an UHC. Sometimes lead is a problem, but CWM can normally treat to meet UTS most of the time. Treating for more than one metal at a time is a problem. Results depend on the interaction of the metals in the waste.

In addition to the "20 to 30 percent" of wastes that are difficult to treat, CWM indicated that 5 to 10 percent are "untreatable." CWM was unsure of the characteristics of these wastes (data and information was not presented at the meeting). EPA is interested in a breakdown (i.e., soil, debris, process) of these wastes. CWM uses the alternative standards for debris, and generally segregates "problem" wastes such as those that contain arsenic and selenium.

When asked about the co-mingling of wastewaters that generate a sludge, and whether the stricter standards will lead to source segregation, CWM stated that they did not believe so. Rather than installing a second tank, CWM believes an electroplater will send the waste to a treater to get rid of the problem before 90 days. They believe that generators will keep looking for a TSDF to solve their problem, such as sending wastes to Stabilex and Laidlaw in Canada, and that generators will treat the waste themselves only in an exception. In general, generators call a TSDF for large one-time wastes, and focus on minimization of continuous process waste.

The CWM waste treatment database (comprised of 6 years of data from all of their sites) may not contain information on trying to treat selenium to lower levels, because CWM only tries to meet the current BDAT levels. CWM stated that the TCLP for selenium in a waste may not change, even when the treatment process recipe for that same waste is modified. Treatment of wastes containing beryllium was not included as part of CWM's data submission, but they could look into it if necessary.

Agenda item 3: May 10, 1996 NODA

- Organic UHCs

CWM does not have much data on organic UHCs except for PCBs treated in conjunction with metals. TOC data is also not available because the generators do not provide it, and CWM does not ask for it. For example, additional TOC information may be requested if organics are identified on a waste profile as present at significant concentrations (e.g., one percent). In general, there is no analytical data to back this value up. CWM does not request halogen analysis for wastes to be stabilized. When their database was queried, only a few examples were found. Previous CWM comments to EPA regarding organic UHCs were guesses, based on their PCB data. CWM conducted stabilization tests in 1985 on low level (1%, 2%) organics, and may have some data (CWM did not have the data at the meeting, and would need to retrieve it from their database).

CWM asserted that treating foundry sands is not a problem if the levels of organics are known. Treating foundry sands with TC level metals can be a problem. CWM asserted that when treating a waste, they need to consider how the level of organics will effect the treatment. They

also examine the level of interference of the constituents, and the effect that these constituents (especially organics) have on liners.

Regarding treatment with organically modified clay, CWM has not reviewed this process yet, but has tried organic oxidation and stabilization (same principle), and submitted their data to EPA. The data show that the treatment does not work well. When the waste is stirred, organics are volatilized. When cement is added, heat is generated, and more organics are volatilized. Even low levels of organics will be volatilized, and these organics are not easily captured.

EPA is examining the following scenario: if a waste meets the UHC standard, then it automatically meets the Subtitle CC standard (i.e., Air Emission Standards for TSDFs). EPA is looking for data that correlates UHC concentrations to the 40 CFR Part 264 Subtitle CC (i.e., Air Emission Standards for TSDFs) action levels, and if the above scenario works in both directions. CWM commented that it would primarily depend on the efficient operation of the stabilization technology. Subtitle CC air emission controls could cover the VOCs that were driven off during treatment, but adequate capture may be a problem. Particulates are captured, but VOCs are a problem because of the huge air volume.

When asked which organic UHCs are most likely to be found in wastewater treatment sludges, CWM stated that they do not have data for plating sludges with low levels of organics because their waste profiles do not always have this information. This may be asked of their customers if the new rule is promulgated. Treated F006 and F009 wastes have not been tested for phthalates, etc., and CWM does not know if they are present. EPA suggested that a generator would know what was in a solvent used in cleaning operations, or the plant engineers should have a feel for this data. CWM suggested that the electroplaters trade association might know this information.

To determine the volume of UHCs and the levels of UHCs in wastewater treatment plant sludges, CWM could only give an educated guess, from the information in their database. This would tell them where to look in the future. Surveying their managers and doing a database query would take a couple of weeks.

CWM data for D012 through D043 wastes has some metals information, but not much on UHCs. EPA wants to get an idea of what is in the waste (e.g, phthalates, solvents, etc.). To accomplish this, the CWM database can be queried by company name, process name, waste code, etc., and after input from their technical managers, CWM could extrapolate a response.

The "order of magnitude" test for organics was recommended by CWM technical managers as an approach to alleviate the problem of wastes with low levels of organics (but CWM has no data to support this).

- PCBs

Last year CWM stabilized 46,000 tons of D004 through D011 wastes with TSCA levels of PCBs. TSCA allows land disposal of "solid" PCBs in a TSCA cell without incineration. There is substantial data to support that "solid" PCBs stay in place once stabilized. RCRA requirement to incinerate may be counterproductive. CWM indicated that the levels of PCBs in the waste they treat are so high that even the order of magnitude solution could not solve this problem. CWM expressed concerns over inconsistencies; TSCA allows land disposal, and treating the UHCs of metal wastes will require incineration. TSCA landfill standards are only slightly different than RCRA standards. CWM suggested that the TSCA standards are sufficient for the PCBs and the metals would be treated.

- Petroleum contaminated media

CWM requested clarification of the 261.4 exclusion for UST corrective action wastes:

Q: If a waste is characterized as D008, the proposal requires treatment for UHCs (e.g., benzene) that seem to be excluded under 40 CFR 261.4. What is the purpose of the exclusion?

A: The exclusion is for hazardous waste identification purposes only. If a waste is hazardous for any other reason, the exclusion is void, and the waste is subject to all RCRA provisions, including LDRs.

- Costs associated with change

Paul Borst/EPA asked if UHC standards would lead to exports or waste minimization, rather than incineration. The answer will depend on economics (currently, incineration can cost from $1,300 to $1,400 per ton). Paul will follow-up with CWM to discuss the nature and types of wastes where the proposal has more than a moderate cost impact.

- Environmental reasons for change in light of HWIR

CWM expressed concerns about how the HWIR rule may be in conflict with the Phase IV rule; that the Agency seemed to be going in opposite directions in terms of stringency.

EPA is constrained because of the consent decree. Also, HWIR is based on total concentrations, and Phase IV is based on TCLP concentrations. CWM was asked if they knew of any obvious wastes that would be covered under the Phase IV rule, and be exempted by HWIR. CWM data is TCLP-based. They do not have much information on the relation of totals to TCLP results. Generally CWM does not run a total analysis on untreated waste.

CWM discussed the issue of contingent management and risk. LDRs are not required to be met if placed in a low risk area. A risk model on a properly designed Subtitle C landfill in a dry climate might indicate that not much treatment is required for waste disposal. This changes if

the area is subject to high precipitation. Similarly, CWM is intrigued because wastes can be delisted at higher than BDAT levels, because delisting is based on risk.

- Lead-bearing Smelter Wastes (Slag from lead-acid batteries)

CWM requested clarification of an issue in the May 10, 1996 NODA.

Q: If a battery is smelted to meet the LDRs, does the slag require further treatment?

A: If the slag is characteristic, all other non-LDR requirements must be met. The slag must be sent to a Subtitle C unit or treated to non-characteristic levels, and then sent to a Subtitle D unit. The waste has met the LDR treatment standard, and the residue does not need to be treated further for Subtitle C disposal.

At the end of the meeting the following Action Items for CWM were discussed:

- Provide break-out (media, process, etc.) of the 20 to 30% of wastes that need to be re-tested.
- Provide break-out (media, process, quantities, etc.) of the 5 to 10% of wastes that need are "untreatable."
- Provide list of industry wastes that CWM expects will have UHCs and organics. Include corresponding SIC codes if possible.
- Provide data on testing of organics and interference problems.
- Provide information on foundry sands. Include data for organics and metals, and provide treatment costs and volumes.
- Provide data on treatment of Selenium wastes (treatment recipe is CBI)

CWM expects to have all information to EPA by June 17. CWM will call Anita Cummings with a tentative schedule for individual items.

Attachment 1: List of Attendees

Anita Cummings, EPA/OSW/WTB
Mike Petruska, EPA/OSW/HWMMD
Kevin Igli, CWM
Mitch Hahn, CWM
Paul Borst, EPA/OSW
Mary Cunningham, EPA/OSW/WTB
Jim Buchert, Versar
C. Pan Lee, EPA/OSW/HWMMD
José E. Labiosa, EPA/OSW
Steve Silverman, OGC/EPA
Sue Slotnick, EPA/OSW
Rhonda Craig, EPA/OSW
Jim Thompson, EPA/OECA (via Phone)

Attachment 2: Meeting Agenda

EPA/Chemical Waste Management

May 23, 1996

Agenda

1. Applying UTS to Characteristic Metal Wastes
2. Applying UHCs to Characteristic Metal Wastes
3. May 10, 1996 NODA

- Metal UHCs
- Organic UHCs
- Inorganic Combustion Policy
- PCBs
- Petroleum contaminated media
- Costs associated with change
- Environmental reasons for change in Light of HWIR
- Lead-bearing Smelter Wastes (Slag from lead-acid batteries)

DRAFT SUMMARY OF MINUTES OF APRIL 30, 1996 MEETING OF EPA AND REPRESENTATIVES OF LEAD RECOVERY FROM BATTERIES

April 30, 1996, 1:00 - 2:00 p.m.
2800 Crystal Station
Arlington, VA
2nd Floor, Conference Room B

ATTENDEES

Mary Cunningham, EPA/OSW/WTB
Michael Petruska, EPA/OSW/HWMMD
C. Pan Lee, EPA/OSW/HWMMD
Anita Cummings, EPA/OSW/WTB
Suzanne Wade, Versar
Robert Steinwurzel, Swidler & Berlin/ABR
Susan Panzik, S&B
Jean Beaudoin, JCBGI/BCI
Jack Waggener, RCI
Charles M. West, RCI
Katie Champon, WBN

DRAFT

Introduction

The purpose of this meeting was for EPA and representatives of lead recovery from batteries (Association of Battery Recyclers, Resource Consultants Inc., and Battery Council International) to discuss proposed treatment standards for lead characteristic wastes. Mary Cunningham opened the meeting by explaining the historical background for setting treatment standards under the Land Disposal Restrictions (LDR) Program. For listed waste codes, residuals carry the waste code forever, unless the waste is delisted. After treatment to the LDR levels, listed wastes may be placed in a Subtitle C landfill. For characteristic wastes, residuals are considered characteristic until they no longer exhibit the characteristic of hazardousness. For wastes treated by recovery of lead, residuals may be placed in a Subtitle D landfill if the lead concentration in the leachate is less than the TCLP limit. If this standard is not met, the characteristic waste could be disposed of in a Subtitle C landfill or undergo further treatment until it no longer exhibits the characteristic of hazardousness, at which time it could be placed in a Subtitle D landfill.

Discussion

The following questions, concerns, and issues were discussed:

1. <u>Universe of wastes treated by recovery of lead</u>

   EPA: What other types of wastes are treated with battery wastes? (Cunningham) What are the underlying hazardous constituents? Do the characteristics of the slag

remain the same (no substantial differences) when other wastes are added to the treatment process? (Petruska)

Ind.: Believes the main issue is slag (residuals). If other wastes are going into the blast furnace, are they also "treated" by "recovery of lead"? Feedstock includes Appendix 11 list constituents (lead materials from various industries). (Steinwurzel)

Conclusions: Based on limited information, EPA could state that the primary waste treated is lead and that other wastes do not appear to significally change the characterics of the slag. EPA could ask for public comment on this issue in the Notice of Data Availability (NODA).

2. Lead-contaminated soil and other non-smelter D008 wastes

Ind.: How is lead-contaminated soil to be managed? (Steinwurzel) How are other D008 wastes to be managed that don't go through smelters, such as remedial wastes, building debris, soil and debris. Industry has data on 7 sites for mobile, commercial excavation plus stabilization (pug mill or phosphate stabilization). It was stated that these wastes usually go to Subtitle D landfills after treatment or are capped in place. (Beaudoin)

EPA: In the Phase II Rule, all available data was evaluated when UTS was promulgated. Limited data and comments were received, so the Agency went forward with UTS based on the available data. It was the Agency's belief that existing stabilization processes (as evidenced by the data) are not optimized for the lower UTS levels, so these stabilizatiom data may not be reflective of actual capabilities. (Cunningham) EPA believes stabilization can achieve lower levels, but there is little supporting data. When the Phase II Notice was published, little feedback was received to suggest that characteristic lead wastes are substantially different from metal wastes in EPA's database and couldn't meet UTS. EPA's position with respect to characteristic soil is that it is substantially different from the metal wastes in EPA's database, so it is assigned case-by-case standards. (Cunningham)

Conclusion: EPA: If there is limited capacity, implementation of the rule for these metal-bearing waste streams could be deferred. Otherwise case-by-case standards could be allowed until the HWIR Media Rule is in place. Alternatively, a generic variance could be used. (Petruska)

Ind.: ABR would prefer to defer implementation and maintain the characteristic level of 5 ppm as the standard until HWIR goes into effect. Cleanup limits for Superfund sites include characteristic levels and site-specific standards (ARARs). It was noted that cleanup is usually under state supervision, so more stringent limits may be imposed. (Steinwurzel)

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3. Additional treatment of secondary lead

EPA: What types of treatments are used for secondary lead (after recovery of lead)? East Penn. runs their lead waste through a reverberator repeatedly until it is non-hazardous (i.e., passes TCLP test for characteristic metals). (Petruska)

Ind.: Usually stabilization or further HTMR is used for secondary lead treatment.

Conclusion: See ABR response above.

4. Capacity issues

EPA: Pan Lee is working on capacity issues. Large quantity remediation sites sometimes treat onsite for economic reasons. Mobile, commercial stabilization units are more commonly used. Regions 4 and 10 rejected soil washing as a viable option for most lead-contaminated soil because it only works reliably on sandy soil. Pan Lee noted that LDRs are not in effect if the treatment is in-situ, for example, if surface contamination is present, then chemicals can be plowed into the soil for treatment. It is believed that less than 10 percent of stabilization sites use insitu treatment. (Pan) For abandoned sites it is more economical to do (treatment) than (send to incinerator) It may be feasible to run the waste through the furnace at RCRA corrective action sites, if there is an operational furnace present. (Petruska)

Ind.: Industry has data on 7 sites for mobile, commercial excavation plus stabilization (pug mill or phosphate stabilization). It was stated that these wastes usually go to Subtitle D landfills after treatment or are capped in place. (Beaudoin) Dozens of Superfund sites involved. Can get lower numbers than characteristic, but not to UTS. Smelters with RCRA Part B permits doing Corrective Action. LDR still applies to corrective action. (Steinwurzel)

Conclusion: Analysis needs to be completed to determine capacity. Not a problem for existing standard, but may be for UTS (see next issue).

5. Capacity of processes to treat below 5 ppm for lead

EPA: What is the capacity of stabilizers treating to below 5 ppm? Some can do it but not all. This could be capacity problem for treatment levels below 5 ppm for lead.

Ind.: Stabilization process is limited by chemical reactions. Not necessarily better to add more of everything. Must be tailored for each site. Some variability must always be expected. Approximately 3 ppm is probably the best consistent target. (West) Feedstock is variable also. (Beaudoin)

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Conclusion: There are probably no capacity problems unless the lead standard is changed to 0.37 ppm, then there could be some problems. The issue of whether to use a variance or an alternate plan is still under consideration.

6. Proposal for contingent management options

Ind.: The idea was introduced for an alternative LDR for generated lead if it can be proven that the lead does not leach. The industry would like to get away from the treatment emphasis on secondary lead and instead try a contingent management scenario like monofills instead of Subtitle C. (Steinwurtzel)

EPA: HWIR may be an appropriate rule to incorporate this type of idea. (Petruska)

Conclusion: See EPA response above.

7. Underlying hazardous constituents

Ind.: Would underlying hazardous constituents (UHC) have to meet BDAT levels? (Champon)

EPA: Flexibility is decreased by specifying treatment method, but then limits are not needed for other constituents. Treaters would only have to meet characteristic level.

Conclusion: See EPA response above.

Closing/Summary

The Notice of Data Availability is scheduled to go out next week. June 30 is the deadline for the rule. Industry does not plan to submit additional data. A videotape of the lead recovery process was provided to EPA.

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APPENDIX B
DATA ON AVAILABLE VITRIFICATION CAPACITY

This appendix has two sections:

B-1: Provides a phone log of vitrification facilities and vendors the Agency contacted.

B-2: Describes the vitrification technology, its applicability, limitations/constraints, and availability/costs.

PHONE LOGS OF VITRIFICATION FACILITIES

Mr. Matt Haas
Geosafe Corporation
Location: Richland, WA
Phone: 509-375-0710
Interview conducted by: Gail Shaw
Date of interview: March 7, 1997
Date of follow-up interview: April 11, 1997

Mr. Haas believes that their facility may be the only supplier of in-situ vitrification. They currently have one system operating which has an available capacity of 15,000 tons/year. The facility can readily expand its operations to three systems if the demand arises. Therefore, their current maximum capacity would be 45,000 tons/year.

Mr. Doug Rosholt
MSE Technology Applications
Location: Butte, MT
Phone: 406-494-7100
Interview conducted by: Gail Shaw
Date of interview: March 7, 1997
Date of follow-up interview: April 11, 1997

Mr. Rosholt responded that their commercial facility supplies plasma vitrification. The unit's available capacity is 2,000 tons/year; that is also their maximum capacity.

Ms. Yvonne Eglanton
Vortech Corporation
Location: Collegeville, PA
Phone: 610-489-2255
Interview conducted by: Gail Shaw
Date of interview: March 7, 1997

Ms. Eglanton responded that their corporation is a vendor of vitrification technology equipment.

Mr. Matt Mede
Retech
Location: Ukiah, CA
Phone: 707-462-6522
Interview conducted by: Gail Shaw
Date of interview: March 7, 1997

Mr. Mede responded that their corporation is a vendor of vitrification technology equipment.

ATTACHMENT TO MEMORANDUM FROM BILL KLINE (U.S. EPA)
TO ICF INCORPORATED, MARCH 17, 1994

Vitrification

1. Process Description

Vitrification is the process by which contaminated soils are converted into chemically inert and stable glass and crystalline materials by a thermal treatment process operating at a temperature of 2000 degrees F to 2800 degrees F. This technology is primarily intended for the treatment of heavy metals; however, an organics content of up to 20% can be handled. A high current of electricity is passed through electrodes inserted into the contaminated soil. The heat causes a melt that gradually works downward through the soil. Organic constituents are destroyed while the inorganic contaminants are immobilized in the high compressive strength glass-like or ceramic end product. A volume reduction of 20% to 45% is achieved. Types of vitrification processes include glass-melting furnaces, ~~high-temperature fluid~~-wall reactors.

2. Waste Applicability

Vitrification was originally tested as a means of immobilizing low level radioactive metals. However, it can be applied to a wide range of contaminants. The process destroys nitrates and partially decomposes sulfate compounds. Fluoride and chlorine compounds are dissolved into the glass materials up to their limits of solubility. Wastes containing heavy metals, PCBs, for example, will either fuse or vaporize.

3. Limitations/Constraints

Vitrification processes are very energy intensive (800-1000 kw/ton), requiring temperatures up to 2500 degrees F for fusion and melting of the waste-silicate matrix. Commercial waste management companies may not have built vitrification processes because: vitrification is only specified as BDAT for a few relatively small-volume hazardous wastes, there is little, if any operating experience with the process, and RCRA permitting officials have essentially no experience with this process. Total organic concentrations are limited to 20% by weight. Also, inorganic debris is limited to a maximum of 20% by volume.

4. Availability/Capacity/Costs

At this time, vitrification processes have not been widely accepted. As mentioned above, this may be due to the high operation costs, technical complexity of the process, and difficulty in obtaining permits. The cost of this process can go up to $1000 per ton, with an average cost in the range of $400-$600 per ton of soil. The following companies* are believed to provide vitrification processes:

1. B&W Nuclear Environmental Services, Inc.; pilot-scale

unit: 200 lb/hour

2. DOE/Battelle Memorial Institute's Pacific Northwest Laboratory; pilot scale; 3 units constructed, 6 other units planned: 10-25 tons/day
3. Electro-Pyrolysis, Inc.: pilot-scale unit: 100-500 lb./hour
4. EM&C Engineering Assoc.; bench-scale; hoped to go full-scale in 1993
5. Geosafe Corp.; full-scale unit: 4-6 tons/hour; 1 unit constructed, 1 other unit planned
6. J.M. Huber Corp.
7. Penberthy Electromelt International, Inc.
8. Pyrogenics, Inc.
9. Stir-Melter, Inc.(subsidiary of Glasstech, Inc.); full-scale unit: 2 tons/hour
10. Texaco Syngas, Inc.; full-scale unit: 2-4 tons/hour
11. Thagard Research Corp.
12. Western Product Recovery Group, Inc.: full-scale unit: 600-1000 lb./hour; 1 planned unit
13. Vortec Corp.: pilot-scale unit: 20 tons/day
14. Vulcan Resources, Ltd.
15. Westinghouse Electric Corp.

* NOTE: Many of the above-mentioned bench-scale/pilot-scale systems for each of the treatment technologies were reported as being such nearly a year ago. Thus, it is quite feasible that at least some of these systems are now commercially available as full-scale systems.

2P4P-50001.C

APPENDIX C
DATA ON AVAILABLE WASTEWATER CAPACITY

This appendix has two sections:

C-1: Discusses available treatment capacity at Centralized Waste Treatment facilities. The information was collected in the 1991 Waste Treatment Industry Questionnaire by the Office of Water and represents 1989 data.

C-2: Wastewater treatment systems data from the 1991 Biennial Reporting System.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Memorandum

OFFICE OF WATER

To: Benjie Carroll (OS-321W)

From: Debra DiCianna
Engineering and Analysis Division (WH-552)

Date: April 30, 1993

Subject: Treatment Capacity Information from Waste Treatment Industry Project

Attached is the information you requested regarding available treatment capacity at Centralized Waste Treatment facilities. This information was collected in the 1991 Waste Treatment Industry Questionnaire by the Office of Water and represents 1989 data. Names and addresses of facilities are also listed.

All of the facilities included have received a final or interim RCRA Permit. None of the information provided pertains to waste which is underground injected. Some facilities did not supply the capacity information requested due to complex operations. Therefore, two totals are presented. One total represents the actual values reported. The second total is scaled-up to included facilities which did not submit data. Below are listed the overall totals:

1989 Reported Capacity Total:	9,669,611,960 gals/year
1989 Scaled-Up Capacity Total:	11,341,084,753 gals/year

(= Reported Capacity Total + 11 x Average Capacity)

If you wish to obtain any additional information or have any questions, please contact me at (202) 260-7141.

cc: Tudor Davies (WH-551)
Ramona Trovato (WH-550G)
Woody Forsht (WH-552)
Bruce Kobelski (WH-550G)

FACILITY CAPACITY FOR HAZARDOUS WASTE (4/19/93)

NAME	STREET	CITY	STATE	ZIP	MAX. CAPACITY (GAL)	% USED (1989)	AMT. AVAILABLE (GAL)
ALTERNATE ENERGY RESOURCES INC	2936 WALDEN DR	AUGUSTA	GA	30904	1,857,200,000	20.02	1,480,397,560
AMERICAN CHEMICAL & REFINING CO.	56 SHEFFIELD ST.	WATERBURY	CT	06704	2,375,000	79	498,750
AMERICAN WASTE OIL CORP	44141 YOST RD	BELLEVILLE	MI	48111	8,240,000	80	1,648,000
APPROPRIATE TECHNOLOGIES II INC	3700 MAXWELL RD	CHULA VISTA	CA	92011	8,942,500	18	7,332,850
BEAVER OIL CO INC	2057 LEND AVE	HODGKINS	IL	60525	14,000,000	20	11,200,000
BELPAR ENVIRONMENTAL OF VIRGINIA INC.	9300 HARVEST ROAD	PRINCE GEORGE	VA	23875	390,000	70	117,000
BOEING CO--AUBURN	700 15TH ST SW, MS 09-10	AUBURN	WA	98001	371,835,000	42.43	214,122,960
BRUNSWICK CORP	4300 INDUSTRIAL AVE	LINCOLN	NE	68504	249,992	3	239,872
BRUSH WELLMAN INC	SOUTH PORTAGE RIVER RD	ELMORE	OH	43416	*		
CECOS INTERNATIONAL	P.O. BOX 649 L.P.O.	NIAGARA FALLS	NY	14304	*		
CECOS INTERNATIONAL INC	4679 SPRING GROVE AVE	CINCINNATI	OH	45232	23,400,000	12	20,592,000
CECOS TREATMENT CORP.	51 BRODERICK RD	BRISTOL	CT	06010	62,500,000	6.02	58,737,500
CHEM-CLEAR INC	11600 S STONY ISLAND AVE	CHICAGO	IL	60617	59,000,000	47	19,080,000
CHEM-TECH SYSTEMS	5000 EAST 26TH STREET	LOS ANGELES	CA	90023	*		
CHEMICAL MANAGEMENT INC	540 EASTERN PARKWAY	FARMINGDALE	NY	11735	7,800,000	44	4,368,000
CHEMICAL PROCESSORS INC	7734 S. LUCILE ST.	SEATTLE	WA	98108	13,142,000	40.42	7,830,004
CHEMICAL PROCESSORS INC	PIER 91	SEATTLE	WA	98108	*		
CHEMICAL PROCESSORS INC	3701 ALEXANDER AVE.	TACOMA	WA	98421	17,001,200	40.56	10,102,113
CHEMICAL WASTE MANAGEMENT OF NEW JERSEY	100 LISTER AVE.	NEWARK	NJ	07105	52,560,000	23	40,471,200
CHEMICAL WASTE MANAGEMENT OF NEW YORK	1135 BALMER RD.	MODEL CITY	NY	14107	21,024,000	73	5,678,480
CLARK PROCESSING INC.	800 S. WEST END AVE.	DAYTON	OH	45427	6,500,000	86	910,000
CLEAN HARBORS	2800 BROADWAY	CLEVELAND	OH	44115	69,000,000	65	22,080,000
CLEAN HARBORS INC.	1910 RUSSELL ST.	BALTIMORE	MD	21230	44,100,000	12	38,808,000
CONOCO INC PONCA CITY	1000 S. PINE	PONCA CITY	OK	74603	720,000,000	92	57,600,000
CP CHEMICALS	34400 ZWISSIG WAY	UNION CITY	CA	94587	5,800,000	74	1,510,000
CP CHEMICALS INC	HARBOR ST	NEWARK	NJ	07077	54,000,000	90	5,400,000
CP CHEMICALS INC	HWY 15 SOUTH INDUTR. PK	SUMTER	SC	29150	45,601,920	61	17,784,749
CROSBY & OVERTON INC	1610 W 17TH ST	LONG BEACH	CA	90813	2,340,000	100	0
CROSBY AND OVERTON INC PLANT 2	20245 76TH AVE. S.	KENT	WA	98032	20,792,000	0.5121	20,645,728
CYANOKEM	12381 SCHAEFER HWY	DETROIT	MI	48227	30,865,000	34	20,370,900
DUPONT E I DE NEMOURS, CHAMBER WORKS	ROUTE 130	DEEPWATER	NJ	08023	14,600,000,000	78	3,212,000,000
DYNEDOL INC	5920 GEORGIA	DETROIT	MI	48211	36,320,000	49.64	18,280,752
EDWARDS OIL CO	500 S ROUGE	DETROIT	MI	48217	21,600,000	80	4,320,000
ELI LILLY & CO TIPPECANOE LABS	1650 LILY RD.	LAFAYETTE	IN	47902	*		
EMPAK INC. DEER PARK	2759 BATTLEGROUND RD.	DEER PARK	TX	77536	316,411,200	35.01	205,635,639

* Facility did not supply capacity information. Scaled-up total incorporates estimation.

NAME	STREET	CITY	STATE	ZIP	MAX. CAPACITY (GAL)	% USED (1989)	AMT. AVAILABLE (GAL)
ENCYCLE/TEXAS INC.	3500 UP RIVER ROAD	CORPUS CHRISTI	TX	78407	120,300,000	29.55	84,692,250
ENVIRITE CORP	16435 S CENTRAL AVE	HARVEY	IL	60426	10,020,200	66.69	3,516,348
ENVIRITE CORP	2000 CENTRAL AVE S.E	CANTON	OH	44707	69,992,500	43.66	35,908,548
ENVIRITE CORPORATION	199 OLD WATERBURY RD	THOMASTON	CT	06787	89,500,000	29.81	37,551,850
ENVIRITE CORPORATION	1600 PENNSYLVANIA AVE.	YORK	PA	17404	50,000,000	79	6,300,000
ENVIRONMENTAL WASTE CONTROL INC	27140 PRINCETON AV	INKSTER	MI	48141	60,000,000	30	42,000,000
ETICAM	2085 E NEWLANDS DR	FERNLEY	NV	89408	750,400	13.81	646,770
ETICAM	35 GRAYSTONE STREET	WARWICK	RI	02886	6,000,000	42	3,480,000
H & H SHIP SERVICE	2200 CHINA BASIN ST	SAN FRANCISCO	CA	94107	*		
HERITAGE ENVIRONMENTAL SERVICES INC	3112 POMPANO ST	CHARLOTTE	NC	28216	7,500,000	72	2,100,000
HOD ALLOYS INTERNATIONAL, INC.	3200 RIVERSIDE DRIVE	HUNTINGTON	WV	25720	*		
INTERCONTINENTAL TERMINALS CO	1949 BATTLEGROUND RD.	DEER PARK	TX	77536	100,000,000	17	83,000,000
JOHN DEERE--COMPONENT WORKS	400 WESTFIELD AVE.	WATERLOO	IA	50701	43,212,440	63	15,988,603
MAYTAG CO	N 18TH AVE. E. 6TH ST. N	NEWTON	IA	50208	380,000,000	73	105,300,000
METRO RECOVERY SYSTEMS	2400 ROSE PLACE	ROSEVILLE	MN	55113	15,130,000	50	7,565,000
MILL SERVICE INC.	BULGER SMITH TWP.	BULGER	PA	15019	74,200,259	56.7	32,128,712
MILL SERVICE INC. YUKON PLT.	RD. NO. 1 CEMETARY LANE	YUKON	PA	15698	184,000,000	44	91,840,000
NORRIS INDUSTRIES INC	3215 SO BOYLE AVE.	LOS ANGELES	CA	90058	477,701,120	45.09	262,356,184
NORTH WEST ENVIROSERVICE INC.	1500 AIRPORT WAY S.	SEATTLE	WA	98134	55,640,000	62.24	13,457,884
OIL PROCESS CO	3756 ALBA ST.	LOS ANGELES	CA	90058	1,894,333	80.69	869,144
OSCO INCORPORATED	408 SANTA FE PIKE BOX 1208	COLUMBIA	TN	38402	*		
PEARL HBR NAVY PUBLIC WORKS CTR	NAVAL STATION AREA	PEARL HARBOR	HI	96860	*		
PEORIA DISPOSAL CO--POTTSTOWN	4349 SOUTHPORT RD.	PEORIA	IL	61604	80,000,000	46.75	25,625,000
PETROLEUM RECLAIMING SERVICE INC.	3009 TAYLOR WAY	TACOMA	WA	98421	15,750,000	11	14,017,500
PRATT & WHITNEY AIRCRAFT GROUP MD & CPD	400 MAIN ST	EAST HARTFORD	CT	06108	1,700,000,673	25.45	1,312,578,488
REMTECH ENVIRONMENTAL GROUP	1600 CARMAN ST.	CAMDEN	NJ	08105	*		
ROMIC CHEM CORP	2081 BAY RD	E PALO ALTO	CA	94303	4,993,377	59	2,043,186
SLOSS INDUSTRIES CORPORATION	3200 35TH AVE N.	BIRMINGHAM	AL	35207	540,000,000	33	367,160,000
SOLVENT SERVICE CO INC	2021 BERRYESSA RD	SAN JOSE	CA	95133	*		
SOUTHERN CALIFORNIA CHEMICAL CO INC	9651 DICE RD.	SANTA FE SPRINGS	CA	90670	21,360,000	39.77	8,599,105
TEKTRONIX INC.	13700 SW KARL BRAUN DR.	BEAVERTON	OR	97077	407,768,113	13.27	353,874,831
TN EASTMAN DIV EASTMAN KODAK	EASTMAN RD	KINGSPORT	TN	37662	9,710,227	89	1,045,227
TREATMENT ONE, DIV. OF SET ENVIRONMENTAL IN	5728 CHESWOOD	HOUSTON	TX	77087	2,000,000	2	1,960,000
TRICIL ENVIRONMENTAL SERVICES INC	5940 ANTIOCH PIKE	NASHVILLE	TN	37013	89,712,000	9	81,637,920
UNION CARBIDE AGR PROD CO INC	RTE. 35	INSTITUTE	WV	25112	2,102,000,000	57	909,660,000

* Facility did not supply capacity information. Scaled-up total incorporates estimation.

FACILITY CAPACITY FOR HAZARDOUS WASTE (4/19/93)

NAME	STREET	CITY	STATE	ZIP	MAX. CAPACITY (GAL)	% USED (1989)	AMT. AVAILABLE (GAL)
UNITED OIL RECOVERY INC.	36 GRACEY AVE.	MERIDEN	CT	06450	13,140,000	50	6,570,000
US POLLUTION CONTROL INC	5 MI. E. US 281 & 1 MI. N. OK. 15	WAYNOKA	OK	73860	6,000,000	50	3,000,000
ENVIRONMENTAL WASTE RESOURCES, INC.	30 FREIGHT ST	WATERBURY	CT	06702	38,535,660	76	9,477,859
HERITAGE ENVIRONMENTAL SERVICES INC	7601 W MORRIS	INDIANAPOLIS	IN	46231	299,299,000	30.02	209,443,142
RESEARCH OIL CO	2655 TRANSPORT RD	CLEVELAND	OH	44116	88,300,000	49	44,019,000
WASTE CONVERSION INC	2559 SANDSTONE DR	HATFIELD	PA	19440	95,895,567	60	7,187,117
					TOTAL		9,609,611,999
					AVERAGE VALUES:		
					337,085,354	46	149,224,789
					SCALE-UP TOTALS		11,341,094,789
							(85 to 76)

* Individual records provide information. Scaled-up total incorporates estimation.

WASTEWATER TREATMENT SYSTEMS DATA FROM THE 1991 BIENNIAL REPORTING SYSTEM

EPA ID NUMBER	A INF QUANTITY GAL FROM BRS DATA	B MAX OPP CAP GAL FROM BRS DATA	C MAX OPP CAP GAL FROM OW SURVEY	D LIQ EFF QUAN GAL FROM BRS DATA	E NEW OPP CAPACITY FROM BRS DATA	F DIFFERENCE IN OPP CAP C-B	G AMOUNT AVAILABLE B-A
CAD050806850	1,106,843	13,250,000	1,894,333	1,082,109	0	-11,355,667	12,143,158
CAD059494310	2,281,976	27,000,000	0	2,280,000	0	-27,000,000	24,718,024
CAT080033681	4,762,512	1,207,824,000	0	4,078,584	0	-1,207,824,000	1,203,061,488
CTD000844399	360,768,560	2,283,660,000	1,760,668,673	414,810,000	0	-522,991,327	1,922,891,440
CTD001184894	574,131	1,370,500	2,375,000	571,370	0	1,004,500	796,369
CTD072138969	11,185,574	28,632,648	38,535,860	9,307,911	0	9,903,212	17,447,074
CTD990672081	60,067,991	777,777,310	1,760,668,673	60,882,904	0	982,891,363	717,709,319
ILD000666206	16,231,493	30,398,036	106,202,000	8,381,001	0	75,803,964	14,166,543
ILD064418353	1,793,987	6,240,000	14,000,000	1,704,941	0	7,760,000	4,446,013
IND006050967	2,772,124,412	50,677,025	0	2,979,115,244	0	-50,677,025	-2,721,447,387
IND093219012	53,475,694	150,804,016	299,290,000	45,735,915	0	148,485,984	97,328,322
MDD980555189	1,662,231	50,360,000	44,100,000	3,925,928	0	-6,260,000	48,697,769
MND981098478	4,597,350	8,417,487	15,130,000	2,783,240	0	6,712,513	3,820,137
NCD121700777	1,901,489	7,008,000	75,000,000	1,711,340	0	67,992,000	5,106,511
NED043534635	6,678,629	53,191,794	243,992	6,669,144	0	-52,947,802	46,513,165
NJD002141950	655,428	4,000,000	54,000,000	198,676	0	50,000,000	3,344,572
NJD002385730	10,347,456,240	14,064,054,720	14,600,000,000	10,522,748,640	0	535,945,280	3,716,598,480
NJD089216790	48,923,122	163,112,860	52,560,000	49,675,058	0	-110,552,860	114,189,738
NVD980895338	641,903	5,057,200	750,400	428,907	0	-4,306,800	4,415,297
NYD000691949	11,222,398	0	7,800,000	11,196,084	0	7,800,000	-11,222,398
NYD080336241	25,079,632	240,920,000	0	24,503,779	240,000	-240,920,000	215,840,368
OHD000724153	29,714,577	75,000,000	63,000,000	37,446,700	0	-12,000,000	45,285,423
OHD004178612	16,642,080	98,160,000	86,300,000	13,286,400	94,500,000	-11,860,000	81,517,920
OHD087433744	0	0	23,400,000	0	1,200,000	23,400,000	0
OKD007233836	570,943,381	354,285,248	720,000,000	557,166,418	0	365,714,752	-216,658,133
ORD009020231	185,493,828	728,763,458	407,788,113	577,768,882	28,902,728	-320,975,345	543,269,630
ORD980725592	39,115,200	76,867,000	407,788,113	38,985,200	0	330,921,113	37,751,800
PAD010154045	17,186,856	27,000,000	30,000,000	12,783,720	66,000,000	3,000,000	9,813,144
PAD059087072	26,770,000	981,120,000	74,200,258	53,472,500	220,544,853	-906,919,742	954,350,000
PAD085690592	1,483,895	434,280	35,985,587	127,569,600	0	35,551,307	-1,049,615
RID980906986	1,416,960	3,961,224	6,000,000	1,733,520	0	2,038,776	2,544,264
TND003376928	7,835,470,800	8,400,000,000	8,710,227	7,835,470,800	0	-8,391,289,773	564,529,200
WAD041337130	282,837,630	366,313,416	37,193,500	282,401,819	0	-329,119,916	83,475,786
WVD004325353	1,743,953,866	2,188,298,888	2,102,000,000	2,537,140,000	0	-86,298,888	444,345,022
WVD076826015	223,468,565	93,013,402	0	217,813,732	0	-93,013,402	-130,455,164
TOTAL	24,707,689,233	32,566,972,513	22,835,584,729	26,444,830,066	411,387,581	-9,731,387,784	7,859,283,279

APPENDIX D

1993 BRS Data (GM Form) - TC Metal Wastes Managed On-Site and Off-Site

Data Keys

WASTE CODE

D004 - Arsenic

D005 - Barium

D006 - Cadmium

D007 - Chromium

D008 - Lead

D009 - Mercury

D010 - Selenium

D011 - Silver

ORIGIN CODE

1 The hazardous waste was generated on site from a production process, service activity, or routine cleanup (including off-specification or spent chemicals).

2 The hazardous waste was the result of a spill cleanup, equipment decommissioning, or other remedial cleanup activity.

3 The hazardous waste was derived from the management of a non-hazardous waste.

4 The hazardous waste was received from off site and was not recycled or treated on site.

5 The hazardous waste was a residual from the on-site treatment, disposal, or recycling of a previously existing hazardous waste.

Code	Waste source
CLEANING AND DEGREASING	
A01	Stripping
A02	Acid cleaning
A03	Caustic (Alkali) cleaning
A04	Flush rinsing
A05	Dip rinsing
A06	Spray rinsing
A07	Vapor degreasing
A08	Physical scraping and removal
A09	Clean out process equipment
A19	Other cleaning and degreasing
SURFACE PREPARATION AND FINISHING	
A21	Painting
A22	Electroplating
A23	Electroless plating
A24	Phosphating
A25	Heat treating
A26	Pickling
A27	Etching
A29	Other surface coating/preparation (Specify in Comments)
PROCESSES OTHER THAN SURFACE PREPARATION	
A31	Product rinsing
A32	Product filtering
A33	Product distillation
A34	Product solvent extraction
A35	By-product processing
A36	Spent catalyst removal
A37	Spent process liquids removal
A38	Tank sludge removal
A39	Slag removal
A40	Metal forming
A41	Plastics forming
A49	Other processes other than surface preparation (Specify in Comments)
PRODUCTION OR SERVICE DERIVED ONE-TIME AND INTERMITTENT PROCESSES	
A51	Leak collection
A53	Cleanup of spill residues
A54	Oil changes
A55	Filter/Battery replacement
A56	Discontinue use of process equipment
A57	Discarding off-spec material
A58	Discarding out-of-date products or chemicals
A59	Other production-derived one-time and intermittent processes
A60	Sludge removal
REMEDIATION DERIVED WASTE	
A61	Superfund Remedial Action
A62	Superfund Emergency Response
A63	RCRA Corrective Action at solid waste management unit
A64	RCRA closure of hazardous waste management unit
A65	Underground storage tank cleanup
A69	Other remediation
POLLUTION CONTROL OR WASTE TREATMENT PROCESSES	
A71	Filtering/screening
A72	Metals recovery
A73	Solvents recovery
A74	Incineration/Thermal treatment
A75	Wastewater treatment
A76	Sludge dewatering
A77	Stabilization
A78	Air pollution control devices
A79	Leachate collection
A89	Other pollution control or waste treatment
OTHER PROCESSES	
A91	Clothing and personal protective equipment
A92	Routine cleanup wastes (e.g., floor sweepings)
A93	Closure of management unit(s) or equipment other than by remediation specified in codes A61 - A69
A94	Laboratory wastes
A99	Other

FORM CODES

Code	Waste description
	LAB PACKS
	LAB PACKS - Lab packs of mixed wastes, chemicals, lab wastes
B001	Lab packs of old chemicals only
B002	Lab packs of debris only
B003	Mixed lab packs
B004	Lab packs containing acute hazardous wastes
B009	Other lab packs (Specify in Comments)
	LIQUIDS
	INORGANIC LIQUIDS - Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content
B101	Aqueous waste with low solvents
B102	Aqueous waste with low other toxic organics
B103	Spent acid with metals
B104	Spent acid without metals
B105	Acidic aqueous waste
B106	Caustic solution with metals but no cyanides
B107	Caustic solution with metals and cyanides
B108	Caustic solution with cyanides but no metals
B109	Spent caustic
B110	Caustic aqueous waste
B111	Aqueous waste with reactive sulfides
B112	Aqueous waste with other reactives (e.g., explosives)
B113	Other aqueous waste with high dissolved solids
B114	Other aqueous waste with low dissolved solids
B115	Scrubber water
B116	Leachate
B117	Waste liquid mercury
B119	Other inorganic liquids (Specify in Comments)
	ORGANIC LIQUIDS - Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content
B201	Concentrated solvent-water solution
B202	Halogenated (e.g., chlorinated) solvent
B203	Nonhalogenated solvent
B204	Halogenated/nonhalogenated solvent mixture
B205	Oil-water emulsion or mixture
B206	Waste oil
B207	Concentrated aqueous solution of other organics
B208	Concentrated phenolics
B209	Organic paint, ink, lacquer, or varnish
B210	Adhesives or epoxies
B211	Paint thinner or petroleum distillates
B212	Reactive or polymerizable organic liquid
B219	Other organic liquids (Specify in Comments)
	SOLIDS
	INORGANIC SOLIDS - Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable
B301	Soil contaminated with organics
B302	Soil contaminated with inorganics only
B303	Ash, slag, or other residue from incineration of wastes
B304	Other "dry" ash, slag, or thermal residue
B305	"Dry" lime or metal hydroxide solids chemically "fixed"
B306	"Dry" lime or metal hydroxide solids not "fixed"
B307	Metal scale, filings, or scrap
B308	Empty or crushed metal drums or containers
B309	Batteries or battery parts, casings, cores
B310	Spent solid filters or adsorbents
B311	Asbestos solids and debris
B312	Metal-cyanide salts/chemicals
B313	Reactive cyanide salts/chemicals
B314	Reactive sulfide salts/chemicals
B315	Other reactive salts/chemicals
B316	Other metal salts/chemicals
B319	Other waste 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
B401	Halogenated pesticide solid
B402	Nonhalogenated pesticide solid
B403	Solid resins or polymerized organics
B404	Spent carbon
B405	Reactive organic solid
B406	Empty fiber or plastic containers

FORM CODES
(Continued)

Code	Waste description
B407	Other halogenated organic solids (Specify in Comments)
B409	Other nonhalogenated organic solids (Specify in Comments)

SLUDGES

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

B501	Lime sludge without metals
B502	Lime sludge with metals/metal hydroxide sludge
B503	Wastewater treatment sludge with toxic organics
B504	Other wastewater treatment sludge
B505	Untreated plating sludge without cyanides
B506	Untreated plating sludge with cyanides
B507	Other sludge with cyanides
B508	Sludge with reactive sulfides
B509	Sludge with other reactives
B510	Degreasing sludge with metal scale or filings
B511	Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)
B512	Sediment or lagoon dragout contaminated with organics
B513	Sediment or lagoon dragout contaminated with inorganics only
B514	Drilling mud
B515	Asbestos slurry or sludge
B516	Chloride or other brine sludge
B519	Other inorganic sludges (Specify in Comments)

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

B601	Still bottoms of halogenated (e.g., chlorinated) solvents or other organic liquids
B602	Still bottoms of nonhalogenated solvents or other organic liquids
B603	Oily sludge
B604	Organic paint or ink sludge
B605	Reactive or polymerizable organics
B606	Resins, tars, or tarry sludge
B607	Biological treatment sludge
B608	Sewage or other untreated biological sludge
B609	Other organic sludges (Specify in Comments)

GASES

INORGANIC GASES - Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure

B701	Inorganic gases

ORGANIC GASES - Waste that is primarily organic with low-to-moderate inorganic content and is a gas at atmospheric pressure

B801	Organic gases

SYSTEM TYPE CODES

Code	System type
	METALS RECOVERY (FOR REUSE)
M011	High temperature metals recovery
M012	Retorting
M013	Secondary smelting
M014	Other metals recovery for reuse: e.g., ion exchange, reverse osmosis, acid leaching, etc. (Specify in Comments)
M019	Metals recovery - type unknown
	SOLVENTS RECOVERY
M021	Fractionation/distillation
M022	Thin film evaporation
M023	Solvent extraction
M024	Other solvent recovery (Specify in Comments)
M029	Solvents recovery - type unknown
	OTHER RECOVERY
M031	Acid regeneration
M032	Other recovery: e.g., waste oil recovery, nonsolvent organics recovery, etc. (Specify in Comments)
M039	Other recovery - type unknown
	INCINERATION
M041	Incineration - liquids
M042	Incineration - sludges
M043	Incineration - solids
M044	Incineration - gases
M049	Incineration - type unknown
	ENERGY RECOVERY (REUSE AS FUEL)
M051	Energy recovery - liquids
M052	Energy recovery - sludges
M053	Energy recovery - solids
M059	Energy recovery - type unknown
	FUEL BLENDING
M061	Fuel blending
	AQUEOUS INORGANIC TREATMENT
M071	Chrome reduction followed by chemical precipitation
M072	Cyanide destruction followed by chemical precipitation
M073	Cyanide destruction only
M074	Chemical oxidation followed by chemical precipitation
M075	Chemical oxidation only
M076	Wet air oxidation
M077	Chemical precipitation
M078	Other aqueous inorganic treatment: e.g., ion exchange, reverse osmosis, etc. (Specify in Comments)
M079	Aqueous inorganic treatment - type unknown
	AQUEOUS ORGANIC TREATMENT
M081	Biological treatment
M082	Carbon adsorption
M083	Air/steam stripping
M084	Wet air oxidation
M085	Other aqueous organic treatment (Specify in Comments)
M089	Aqueous organic treatment - type unknown
	AQUEOUS ORGANIC AND INORGANIC TREATMENT
M091	Chemical precipitation in combination with biological treatment
M092	Chemical precipitation in combination with carbon adsorption
M093	Wet air oxidation
M094	Other organic/inorganic treatment (Specify in Comments)
M099	Aqueous organic and inorganic treatment - type unknown
	SLUDGE TREATMENT
M101	Sludge dewatering
M102	Addition of excess lime
M103	Absorption/adsorption
M104	Solvent extraction
M109	Sludge treatment - type unknown

SYSTEM TYPE CODES
(Continued)

Code	System type	Code	System type

STABILIZATION

M111 Stabilization/Chemical fixation using cementitious and/or pozzolanic materials
M112 Other stabilization (Specify in Comments)
M119 Stabilization - type unknown

OTHER TREATMENT

M121 Neutralization only
M122 Evaporation only
M123 Settling/clarification only
M124 Phase separation (e.g., emulsion breaking, filtration) only
M125 Other treatment (Specify in Comments)
M129 Other treatment - type unknown

DISPOSAL

M131 Land treatment/application/farming
M132 Landfill
M133 Surface impoundment (to be closed as a landfill)
M134 Deepwell/underground injection
M135 Direct discharge to sewer/POTW (no prior treatment)
M136 Direct discharge to surface water under NPDES (no prior treatment)
M137 Other disposal (Specify in Comments)

TRANSFER FACILITY STORAGE

M141 Transfer facility storage, waste was shipped off site with no on-site TDR activity

ACTIVITY CODES

Code	Waste minimization activity

RECYCLING ACTIVITY

W01 On-site beneficial use/reuse began during 1993

W02 Off-site beneficial use/reuse began during 1993

SOURCE REDUCTION ACTIVITY

GOOD OPERATING PRACTICES

W11 Began to segregate types of hazardous waste to make them more amenable to recycling

W12 Began to segregate (stopped combining) hazardous waste from non-hazardous waste (Note: for purposes of hazardous waste reporting, reduces volume of hazardous waste, but does not reduce total waste volume)

W13 Improved maintenance scheduling, recordkeeping, or procedures

W14 Changed production schedule to minimize equipment and feedstock changeovers

W19 Other changes in operating practices (Specify in Comments)

INVENTORY CONTROL

W21 Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life

W22 Began to test outdated material--continue to use if still effective

W23 Eliminated shelf-life requirements for stable materials

W24 Instituted better labelling procedures

W25 Instituted clearinghouse to exchange materials that would otherwise be discarded

W29 Other (Specify in Comments)

SPILL AND LEAK PREVENTION

W31 Improved storage or stacking procedures

W32 Improved procedures for loading, unloading, and t ransfer operations

W33 Installed overflow alarms or automatic shut-off valves

W34 Installed secondary containment

W35 Installed vapor recovery systems

W36 Implemented inspection or monitoring program of potential spill or leak sources

W39 Other (Specify in Comments)

RAW MATERIAL MODIFICATIONS

W41 Increased purity of raw materials

W42 Substituted raw materials

W49 Other (Specify in Comments)

PROCESS MODIFICATIONS

W51 Instituted closed-loop recycling

W52 Modified equipment, layout, or piping

W53 Changed process catalyst

W54 Instituted better controls on operating conditions (flow rate, temperature, pressure, residence time)

W55 Changed from small volume containers to bulk containers to minimize discarding of empty containers

W58 Other (Specify in Comments)

Cleaning and Degreasing

W59 Modified stripping/cleaning equipment

W60 Changed to mechanical stripping/cleaning devices (from solvents or other materials)

W61 Changed to aqueous cleaners (from solvents or other materials)

W62 Reduced the number of solvents used, to make waste more amenable to recycling

W63 Modified containment procedures for cleaning units

W64 Improved draining procedures

W65 Redesigned parts racks to reduce dragout

W66 Modified or installed rinse systems

W67 Improved rinse equipment design

W68 Improved rinse equipment operation

W71 Other (Specify in Comments)

ACTIVITY CODES
(Continued)

Code	Waste minimization activity	Code	Waste minimization activity

Surface preparation and finishing

W72 Modified spray systems or equipment
W73 Substituted coating materials used
W74 Improved application techniques
W75 Changed from spray to other system
W78 Other (Specify in Comments)

PRODUCT MODIFICATIONS

W81 Changed product specifications
W82 Modified design or composition
W83 Modified packaging
W89 Other (Specify in Comments)

OTHER SOURCE REDUCTION ACTIVITY

W99 Specify in Comments

1993 BRS Data (GM Form) - TC Metal Wastes Managed On-site

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D004	M022	COD980591184	0.179				
D004	M039	WA9214053465	0.009	9711			
D004	M039	WAD089335160	1.4	2411	B119		
D004	M039	WA7890008967	0.003	9999	B319		
D004	M041	OHD048415665	0.104	4953			
D004	M042	KYD006373922	82.836	2869	B302	A37	1
D004	M043	OHD048415665	38.724	4953			
D004	M043	NYD980592497	0.166	3861	B009	A59	1
D004	M061	COD980591184	6.146				
D004	M077	IAD984591891	1,000.80	2835	B119	A32	1
D004	M077	NJD030239412	5,525.23	3674	B114	A04	1
D004	M077	NYD001325661	65.93	2899	B119	A49	1
D004	M077	ORD987196771	12.738	3674	B519	A29	1
D004	M078	AZD091235457	40	3674	B119	A19	1
D004	M081	TXD008085185	12,997.23	2879	B114	A92	1
D004	M085	TXD008085185	11,553.09	2879	B114	A92	1
D004	M125	TXD008085185	34,659.28	2879	B114	A92	1
D004	M132	TXD041515420	0.34		B402		
D004	M141	WA9214053465	0.009	9711	B219		
D004	M141	WA7890008967	0.004	9999	B319		
D004	M141	WA7890008967	0.004	9999	B409		
D004D005D006D007D008	M019	SC1890008989	0.03				
D004D005D006D007D008	M039	WA2170023418	3.68	9711			
D004D005D006D007D008	M039	WA2170023418	0.78	9711	B319		
D004D005D006D007D008	M039	WA2170023418	2.96	9711	B519		
D004D005D006D007D008	M041	UTD981552177	1.61	9999	B003	A94	1
D004D005D006D007D008	M043	UTD981552177	17.682	9999	B404	A91	1
D004D005D006D007D008	M043	UTD981552177	19.865	9999	B407	A92	2
D004D005D006D007D008	M061	COD980591184	0.825				
D004D005D006D007D008	M111	IND078911146	0.4	4953	B003	A94	1
D004D005D006D007D008	M141	WA2170023418	0.75	9711	B409		
D004D005D006D007D008	M141	WA2170023418	2.96	9711	B519		
D004D005D006D007D008	M141	WA2170023418	8.74	9711	B609		
D004D005D006D007D008D009	M039	WAD058367152	0.4	4953			
D004D005D006D007D008D009	M039	WA1170023419	16.46	9711			
D004D005D006D007D008D009	M039	WA2170023418	21.14	9711			
D004D005D006D007D008D009	M039	WA2170023418	10.54	9711			2
D004D005D006D007D008D009	M039	WA1170023419	0.06	9711	B319		
D004D005D006D007D008D009	M039	WA2170023418	0.83	9711	B319		
D004D005D006D007D008D009	M039	WA2170023418	10.53	9711	B319		2
D004D005D006D007D008D009	M043	TXD008079642	12.13	2821	B316	A33	1
D004D005D006D007D008D009	M049	TND000772186	2.99				
D004D005D006D007D008D009	M141	WA2170023418	1.4	9711	B219		
D004D005D006D007D008D009	M141	WA1170023419	0.06	9711	B319		
D004D005D006D007D008D009	M141	WA2170023418	58.69	9711	B319		
D004D005D006D007D008D009	M141	WA2170023418	116.3	9711	B409		
D004D005D006D007D008D009	M141	WA1170023419	16.46	9711	B609		
D004D005D006D007D008D009D010D011	M061	GAD096629282	2.167	4953	B307	A56	2
D004D005D006D007D008D009D010D011	M077	COD991300484	841.605	9511	B114	A06	1
D004D005D006D007D008D009D010D011	M077	MID092947928	6.563		B	A	
D004D005D006D007D008D009D010D011	M111	COD991300484	1.683	9511	B114	A06	1
D004D005D006D007D008D009D010D011	M122	GAD073460941	0.531	8221	B113	A94	1
D004D005D006D007D008D009D010D011	M125	MID092947928	7.86		B	A	
D004D005D006D007D008D009D010D011	M125	OKD065438376	4.1	9511	B102	A94	1
D004D005D006D007D008D009D010D011	M125	OKD065438376	186.817	9511	B114	A94	1
D004D005D006D007D008D009D010D011	M132	UTD991301748	52.95	9511	B319	A91	1
D004D005D006D007D008D009D011	M125	CAD069124717	4.777	3341	B304	A78	1
D004D005D006D007D008D010	M039	WA2170023418	0.25	9711			
D004D005D006D007D008D010	M039	WA2170023418	0.03	9711	B319		
D004D005D006D007D008D010	M039	WA7890008967	1.1	9999	B319		
D004D005D006D007D008D010	M141	WA2170023418	0.51	9711	B319		
D004D005D006D007D008D010	M141	WA7890008967	1.1	9999	B319		
D004D005D006D007D008D010	M141	WA2170023418	12.56	9711	B409		
D004D005D006D007D008D011	M039	WAD058367152	0.23	4953			
D004D005D006D007D008D011	M061	COD980591184	1.375				
D004D005D006D007D009D011	M043	OHD048415665	4.926	4953			
D004D005D007D008	M049	TN4210020570	1.75				
D004D005D007D008	M125	OHD083377010	0.085	7389			
D004D005D007D008D010	M039	WA2170023418	0.02	9711			
D004D005D007D008D010	M141	WA2170023418	0.021	9711	B609		
D004D005D008D010	M122	UTD982598898	0.247	9511	B102	A94	1

1993 BRS Data (GM Form) - TC Metal Wastes Managed On-site

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D004D006D007	M061	COD980591184	0.275				
D004D006D007	M141	WA7890008967	0.002	9999	B319		
D004D006D007D008	M039	WA4170090001	2.91	9711			
D004D006D007D008	M039	WA7890008967	0.02	9999	B319		
D004D006D007D008	M071	CAD038139143	1,995.00	3471	B105	A22	1
D004D006D007D008	M141	WA7890008967	0.021	9999	B319		
D004D006D007D008	M141	WA4170090001	1.51	9711	B409		
D004D006D007D008D009	M039	WA2170023418	0.003	9711	B319		
D004D006D007D008D009	M141	WA2170023418	0.003	9711	B319		
D004D006D007D008D009D010	M039	WA2170023418	0.008	9711			
D004D006D007D008D009D010	M141	WA2170023418	31.14	9711	B219		
D004D006D007D008D009D011	M039	WA7890008967	0.03	9999	B119		
D004D006D007D008D009D011	M061	COD980591184	1.375				
D004D006D007D008D009D011	M141	WA7890008967	0.034	9999	B119		
D004D006D007D008D010	M039	WA5170027291	2.03	9711			
D004D006D007D008D010	M043	UTD981552177	0.354	9999	B409	A92	1
D004D006D007D008D010D011	M043	NYD980592497	0.002	3861	B009	A59	1
D004D006D007D010	M125	PAD987321767	1,125.94	3471	B119	A22	1
D004D006D008	M077	PAD041895566	1.8	3471	B103	A22	1
D004D006D008D010	M137	TND004048690	3,271.89				
D004D006D011	M039	CAD097456099	0.813	3674	B106	A09	1
D004D007	M032	ORD103027181	671.796	2491	B503	A31	1
D004D007	M039	HID981164254	13.358	2491	B119	A92	1
D004D007	M041	LAD053783445	0.2	2879	B119	A99	1
D004D007	M122	VAD046991097	1.376	2824	B207	A78	1
D004D007	M125	OHD083377010	0.234	7389			
D004D007D008	M039	WA2170023418	0.63	9711			
D004D007D008	M043	UTD981552177	1.899	9999	B407	A94	1
D004D007D008	M043	UTD981552177	0.622	9999	B409	A94	1
D004D007D008	M061	COD980591184	1.856				
D004D007D008	M141	WA2170023418	0.58	9711	B319		
D004D007D008D010	M039	WA7890008967	0.09	9999			
D004D007D008D010	M077	MID064191216	263.228	1481	B502	A75	
D004D007D008D010	M141	WA7890008967	0.09	9999	B119		
D004D007D009D011	M039	WA7890008967	0.002	9999			
D004D007D009D011	M141	WA7890008967	0.002	9999	B409		
D004D007D010	M137	TN3890090001	0.01				
D004D008	M111	ALD983191966	2,500.00	1475	B302	A69	2
D004D008D009	M041	LAD053783445	2.5	2879	B114	A99	1
D004D008D009	M061	COD980591184	0.206				
D004D008D009D010	M041	UTD981552177	4.397	9999	B102	A53	2
D004D008D011	M039	WA7890008967	0.04	9999	B319		
D004D008D011	M141	WA7890008967	0.037	9999	B319		
D004D009	M039	WA7890008967	0.008	9999	B119		
D004D009	M141	WA7890008967	0.008	9999	B119		
D004D010	M122	OKD007158454	315	3341	B113	A32	1
D004D010	M124	CAD064467996	21,600.73	3699	B519	A08	1
D004D010	M132	TN8570024044	0.14				
D004D010	M137	TND003376928	1.31				
D005	M014	CTD042279513	85.8	2869	B114	A49	1
D005	M039	WA2170023418	0.409	9711			
D005	M039	WA9214053465	0.108	9711			
D005	M039	WA7890008967	0.293	9999			
D005	M039	WA7890008967	0.03	9999	B119		
D005	M039	WA7890008967	0.006	9999	B319		
D005	M041	OHD048415665	0.25	4953			
D005	M043	OHD048415665	0.046	4953			
D005	M043	MID000724724	4.5	2821	B003	A94	1
D005	M043	NYD980592497	0.091	3861	B009	A59	1
D005	M043	NYD980592497	0.243	3861	B203	A49	1
D005	M043	NYD980592497	0.012	3861	B310	A32	1
D005	M043	NYD980592497	1.66	3861	B319	A57	1
D005	M072	CAD008250383	0.117	3471	B505	A22	1
D005	M077	ALD062464748	17,018.00	2819	B113	A37	1
D005	M077	AZD981636665	44.82	3675	B114	A75	1
D005	M077	NCD003195161	1,442.00	3675	B119	A49	1
D005	M077	ORD050955848	20.046	3499	B316	A40	2
D005	M077	VTD001080126	375.135	3423	B114	A25	1
D005	M077	PAD043882323	44,995.47	3675	B119	A09	1
D005	M078	NM0890010515	0.286	9711	B316	A94	1
D005	M111	TN8570024044	0.29				

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Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D005	M112	IND121581698	10.5	3715	B409	A29	1
D005	M112	ORD050955848	102.091	3339	B304	A39	1
D005	M121	WID059972935	1,403.21	2851	B114	A03	1
D005	M125	GAD003275468	10,797.10	2819	B319	A49	1
D005	M125	GAD003275468	10,302.30	2819	B319	A75	1
D005	M125	GAD003275468	464.8	2819	B319	A92	1
D005	M125	MID005344973	0.5	3471	B505	A38	1
D005	M135	MND151774049	5.85	3545	B113	A05	1
D005	M137	TND987790284	120.71				
D005	M141	WA7890008967	0.032	9999	B119		
D005	M141	WA2170023418	0.009	9711	B219		
D005	M141	WA9214053465	0.28	9711	B219		
D005	M141	WA7890008967	0.007	9999	B319		
D005	M141	WA2170023418	0.56	9711	B409		
D005	M141	WA7890008967	0.001	9999	B409		
D005	M141	WA9214053465	0.08	9711	B801		
D005	M999	WID003967148	0.012	9511	B001	A59	2
D005D006	M141	WA9214053465	0.02	9711	B219		
D005D006D007	M039	WA2170023418	1.62	9711			
D005D006D007	M141	WA2170023418	1.62	9711	B409		
D005D006D007D008	M039	WA1170023419	4.72	9711			
D005D006D007D008	M039	WA2170023418	1.12	9711			
D005D006D007D008	M039	WA5170027291	1.8	9711			
D005D006D007D008	M039	WA7890008967	0.18	9999	B319		
D005D006D007D008	M123	CAD982508426	3.011	8221	B113	A49	1
D005D006D007D008	M141	WA2170023418	0.1	9711			
D005D006D007D008	M141	WA2170023418	0.61	9711	B119		
D005D006D007D008	M141	WA1170023419	4.72	9711	B219		
D005D006D007D008	M141	WA2170023418	1.42	9711	B319		
D005D006D007D008	M141	WA7890008967	0.08	9999	B319		
D005D006D007D008D009	M039	WA9214053465	0.13	9711	B319		
D005D006D007D008D009	M121	CA6170023109	10,120.95	3731	B114	A19	1
D005D006D007D008D009	M124	CA6170023109	10,120.95	3731	B114	A19	1
D005D006D007D008D009	M141	WA9214053465	0.13	9711	B319		
D005D006D007D008D009D010D011	M132	TXD041515420	10.88	2821	B114	A94	1
D005D006D007D008D009D011	M039	WA1170023419	0.11	9711	B409		
D005D006D007D008D009D011	M141	WA1170023419	0.11	9711	B409		
D005D006D007D008D010	M111	OHD083377010	0.298	7389			
D005D006D007D008D010	M141	WA7890008967	0.001	9999	B319		
D005D006D007D008D011	M039	WA4170090001	0.59	9711			
D005D006D007D008D011	M141	WA7890008967	0.38	9999	B319		
D005D006D007D008D011	M141	WA4170090001	0.3	9711	B409		
D005D006D008	M077	NCD038547519	7,634.33	3675	B113	A35	1
D005D007	M022	COD980591184	0.234				
D005D007	M039	WA8214053995	0.03	9711			
D005D007	M039	WA1170023419	0.56	9711	B319		
D005D007	M039	WA2170023418	0.11	9711	B319		
D005D007	M039	WA5170027291	0.002	9711	B319		
D005D007	M039	WA9214053465	3.09	9711	B319		
D005D007	M049	TND003376928	0.33				
D005D007	M061	COD980591184	0.041				
D005D007	M137	TND003376928	22.49				
D005D007	M141	WA9214053465	0.004	9711	B219		
D005D007	M141	WA1170023419	0.56	9711	B319		
D005D007	M141	WA2170023418	0.11	9711	B319		
D005D007	M141	WA9214053465	4.32	9711	B319		
D005D007D008	M039	WA7890008967	0.001	9999	B119		
D005D007D008	M043	NYD980592497	0.644	3861	B009	A59	1
D005D007D008	M094	TX7213821831	200.16	3483	B112	A09	1
D005D007D008	M121	IND006042386	3.36	3471	B103	A29	1
D005D007D008	M125	CA2890012923	0.512	9711	B002	A94	1
D005D007D008	M125	OHD083377010	0.3	7389			
D005D007D008	M141	WA7890008967	0.001	9999	B119		
D005D008	M039	WA2170023418	1.118	9711			
D005D008	M039	WA7890008967	0.18	9999			
D005D008	M039	WA2170023418	0.28	9711	B119		
D005D008	M039	WA7890008967	0.05	9999	B319		
D005D008	M041	OHD048415665	1	4953			
D005D008	M043	OHD048415665	0.3	4953			
D005D008	M043	NYD980592497	0.025	3861	B009	A59	1
D005D008	M061	COD980591184	0.825				

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Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D005D008	M077	MAD065781197	19,315.13	3827	B114	A08	1
D005D008	M077	NYD000809327	1,897.87	3861	B119	A29	1
D005D008	M077	PAD003046794	6,108.79	3229	B105	A21	1
D005D008	M077	PAD980712525	133.4	3676	B114	A31	1
D005D008	M111	NMD980744551	259.053	3679	B119	A75	1
D005D008	M122	CAD983614835	1.251	2819	B513	A60	1
D005D008	M129	NMD980744551	370	3679	B119	A75	1
D005D008	M141	WA2170023418	0.28	9711	B119		
D005D008	M141	WA9214053465	0.168	9711	B219		
D005D008	M141	WA7890008967	0.12	9999	B219		
D005D008	M141	WA2170023418	1.72	9711	B409		
D005D009	M039	WA7890008967	0.003	9999	B319		
D005D009	M135	CAD009125303	29.191	2851	B604	A38	1
D005D009	M141	WA7890008967	0.003	9999	B319		
D005D011	M039	WA7890008967	0.007	9999			
D005D011	M141	WA7890008967	0.007	9999	B119		
D006	M014	ID6890190089	0.037	8733	B219	A94	1
D006	M014	NED007281728	4,607.24	3471	B106	A22	1
D006	M032	CA6170023109	0.787	3731	B119	A99	1
D006	M032	NCD101773992	5.485	3519	B206	A29	1
D006	M039	WAD988519252	6.39	5013			
D006	M039	WA1170023419	0.001	9711			
D006	M039	WA2170023418	14.6	9711			
D006	M039	WA9214053465	0.42	9711			
D006	M039	WA7890008967	0.014	9999			
D006	M039	WA0000097675	19.2	3471	B119		1
D006	M039	WA8570024200	0.06	4581	B219		
D006	M039	WA1170023419	0.028	9711	B319		
D006	M039	WA2170023418	0.42	9711	B319		
D006	M039	WA7890008967	0.05	9999	B319		
D006	M043	CAT000612150	67.372	3341	B307	A74	1
D006	M043	OHD048415665	0.45	4953			
D006	M043	MID000724724	2.05	2899	B003	A94	1
D006	M043	NYD980592497	0.062	3861	B009	A59	1
D006	M043	TXD008079642	6.81		B490		
D006	M061	COD980591184	0.275				
D006	M071	NYD002238582	9,691.92	3471	B105	A22	1
D006	M071	NYD002221430	67.2	3471	B107	A22	1
D006	M071	NYD002207520	455.379	3471	B114	A22	1
D006	M072	CAD981376023	1,704.75	3451	B107	A22	1
D006	M072	CAD990843377	26,522.10	3451	B107	A22	1
D006	M072	CAD000093500	14,152.80	3452	B107	A22	1
D006	M072	CAD009548256	1,103.54	3452	B107	A22	1
D006	M072	CAD041160672	6,005.00	3452	B107	A22	1
D006	M072	CAD001946383	6,042.54	3471	B107	A22	1
D006	M072	CAD008271090	1,321.10	3471	B107	A22	1
D006	M072	CAD008387060	417.014	3471	B107	A22	1
D006	M072	CAD008392722	3,152.63	3471	B107	A22	1
D006	M072	CAD009603184	3,002.50	3471	B107	A22	1
D006	M072	CAD981379100	1,042.54	3471	B107	A22	1
D006	M072	CAD097458533	2,236.26	3644	B107	A22	1
D006	M072	CAD009630708	14,265.22	3678	B107	A22	1
D006	M072	CAD008250383	0.266	3471	B502	A22	1
D006	M072	IND052959525	3,991.24	3452	B107	A22	1
D006	M072	GAD000143677	225.188	3471	B107	A22	1
D006	M072	KSD007482011	1,801.50	3721	B114	A31	1
D006	M072	MND006253801	109,790.67	3471	B107	A22	1
D006	M072	MSD008181562	6.405	3471	B107	A22	1
D006	M072	NCD003459336	2,695.68	3471	B107	A22	1
D006	M072	NJD981184591	207.173	3471	B107	A22	1
D006	M072	NYD001230341	106.339	3471	B107	A22	1
D006	M072	NYD002229326	7,516.71	3471	B107	A22	1
D006	M072	NJD002461234	207.507	3559	B107	A22	1
D006	M072	WID054105218	5,241.70	3429	B107	A03	1
D006	M072	WID054105218	24,020.02	3429	B107	A22	1
D006	M072	PAD002161685	2,658.73	3469	B107	A22	1
D006	M072	RID001191931	400.334	3471	B107	A22	1
D006	M073	CAD008289183	10,989.58	3452	B107	A22	1
D006	M073	NYD982730632	1,245.83	3471	B107	A22	1
D006	M074	CAD044429884	7,457.10	3728	B107	A22	1
D006	M074	MID006004451	1,167.19	3471	B107	A22	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D006	M077	CAD981635741	4,203.50	3471	B105	A02	1
D006	M077	CTD001170877	187.656	3579	B106	A22	1
D006	M077	CTD001454032	608.841	3471	B107	A22	1
D006	M077	CAD981449416	5,884.18	3471	B119	A01	1
D006	M077	GAD063152573	209,328.57	3691	B106	A31	1
D006	M077	KSD007233323	1.368	3471	B113	A01	1
D006	M077	MID985583459	0.09	3471	B107	A22	1
D006	M077	MIT270010325	2,084.09	3826	B107	A22	1
D006	M077	MID005511852	13.188	3471	B119	A01	1
D006	M077	NCD098770746	13.636	3728	B119	A01	1
D006	M077	NHD001091073	101,514.47	3825	B119	A22	1
D006	M077	MAD980730857	1,756.51	3827	B119	A49	1
D006	M077	WID054105218	55,085.91	3429	B103	A25	1
D006	M077	WID054105218	123,102.59	3429	B106	A03	1
D006	M077	PAD987332897	92,069.10	2816	B502	A75	1
D006	M078	MDD003093507	3.6	2816	B316	A32	1
D006	M092	TXD054385018	22,159.00				
D006	M101	CAD000093500	14,152.80	3452	B107	A22	1
D006	M101	KSD007233323	1.368	3471	B113	A01	1
D006	M122	AZD982434383	14.584	3691	B114	A09	1
D006	M125	IDD070929518	235.2	2819	B310	A78	1
D006	M125	MID092947928	2.649		B	A	
D006	M125	PAD000765982	0.071	4911	B319	A29	1
D006	M129	SCD043979822	0.5				
D006	M129	WA0000097675	6.4	3471	B119		1
D006	M132	OKD000829440	6,570.00	3339	B316	A99	1
D006	M132	TN2170022600	0.09				
D006	M133	IDD070929518	378.263	2819	B113	A64	2
D006	M133	IDD070929518	134,441.20	2819	B119	A92	1
D006	M133	IDD070929518	0.275	2819	B319	A64	2
D006	M133	IDD070929518	39,908.26	2819	B511	A49	1
D006	M137	TND003095635	649.7				
D006	M137	TND003376928	0.3				
D006	M137	TN3890090001	91.85				
D006	M137	WAD041920554	1.51		B119		
D006	M137	WAD041920554	1.51	3471	B119		
D006	M141	WA1170023419	0.001	9711	B219		
D006	M141	WA2170023418	1.23	9711	B219		
D006	M141	WA7890008967	0.06	9999	B219		
D006	M141	TXD008092793	1.3	2869	B309	A55	1
D006	M141	WA1170023419	0.028	9711	B319		
D006	M141	WA2170023418	1.14	9711	B319		
D006	M141	WA9214053465	0.09	9711	B319		
D006	M141	WA7890008967	0.051	9999	B319		
D006	M141	WA2170023418	14.11	9711	B409		
D006	M141	WA9214053465	0.46	9711	B409		
D006	M141	WA7890008967	0.014	9999	B409		
D006	M999	WID003967148	2.412	9511	B001	A59	2
D006D007	M039	WAD009249509	526.82	3711	B	A	1
D006D007	M039	WAD009491200	48,177.00	3471	B119		1
D006D007	M039	WA8570024200	0.21	4581	B319		
D006D007	M039	WA2170023418	0.03	9711	B319		
D006D007	M039	WA7890008967	0.02	9999	B319		
D006D007	M043	NYD980592497	0.063	3861	B009	A59	1
D006D007	M061	COD980591184	0.206				
D006D007	M071	CAD097458533	2,908.02	3644	B105	A02	1
D006D007	M071	CAD097458533	4,271.16	3644	B105	A23	1
D006D007	M071	IND005177050	12.344	3471	B113	A29	1
D006D007	M071	NYD002204543	5,257.70	3678	B103	A22	1
D006D007	M071	MDD069396711	5,888.59	9999	B103	A69	2
D006D007	M071	NYD982530313	4,769.60	3471	B106	A22	1
D006D007	M071	PAD096225081	986.468	3471	B107	A31	1
D006D007	M071	UT0571724350	179,566.31	3471	B114	A22	1
D006D007	M071	VAD000019364	33.25	3621	B114	A22	1
D006D007	M072	CAD079599460	13,616.37	3471	B103	A22	1
D006D007	M072	CAD079599460	2,019.96	3471	B107	A22	1
D006D007	M072	MAD980672216	184.506	3471	B107	A22	
D006D007	M072	NYD013563390	20.751	3471	B107	A22	1
D006D007	M072	PAD003006798	2,512.83	3471	B107	A22	1
D006D007	M072	PAD096225081	493.232	3471	B107	A31	1
D006D007	M072	PAD003009461	172.394	3678	B107	A22	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D006D007	M077	GAD000143677	66,718.45	3471	B119	A22	1
D006D007	M077	NYD981482839	415.014	3471	B103	A22	1
D006D007	M077	MAD001066059	6,891.41	3471	B106	A22	1
D006D007	M077	PAD002378545	56,588.82	3471	B105	A22	1
D006D007	M077	PAD096225081	47,843.70	3471	B107	A31	1
D006D007	M077	VAD003259561	952.939	3471	B119	A22	1
D006D007	M079	NCD067441394	1,684.41	2754	B119	A22	1
D006D007	M092	PAD074013327	2,055.35	3471	B103	A22	1
D006D007	M101	TT0570090001	75.6	9511	B103	A02	1
D006D007	M111	ALD000622464	3.502	4953	B114	A06	1
D006D007	M111	OKD001824564	59.86	4512	B310	A55	1
D006D007	M111	OKD001824564	127.14	4512	B403	A01	1
D006D007	M111	OKD007220148	38.037	4512	B403	A01	1
D006D007	M121	CTD990672081	0.013	3724	B103	A31	1
D006D007	M125	GAD091534776	2.374	2591	B503	A21	1
D006D007	M129	WAD041920554	31,155.55		B119		
D006D007	M129	WAD009491200	48,177.00	3471	B119		
D006D007	M129	WAD041920554	31,155.55	3471	B119		
D006D007	M137	TND052144011	2,755.78				
D006D007	M137	TN3890090001	0.23				
D006D007	M141	WA9571924647	0.035	9711	B119		
D006D007	M141	WA2170023418	0.86	9711	B319		
D006D007	M141	WA7890008967	0.023	9999	B319		
D006D007	M141	WA9571924647	1.75	9711	B409		
D006D007D008	M014	CAT000646257	1,568.97	3728	B104	A22	1
D006D007D008	M032	ME7170022019	0.705	9711	B205	A49	1
D006D007D008	M032	SCD003344496	41.05				
D006D007D008	M039	WA1170023419	33.08	9711			
D006D007D008	M039	WA2170023418	12.01	9711			
D006D007D008	M039	WA2170023418	0.14	9711	B219		
D006D007D008	M039	WAD020233441	0.19	3961	B319		
D006D007D008	M039	WA1170023419	1.6	9711	B319		
D006D007D008	M039	WA2170023418	67.67	9711	B319		
D006D007D008	M039	WA4170090001	0.08	9711	B319		
D006D007D008	M039	WA7890008967	0	9999	B519		
D006D007D008	M043	KSD981506025	0.509	4953	B319	A40	3
D006D007D008	M043	NYD980592497	0.543	3861	B009	A59	1
D006D007D008	M049	TN8570024044	0.17				
D006D007D008	M061	COD980591184	0.619				
D006D007D008	M071	KSD980688477	23.353	3721	B114	A21	1
D006D007D008	M071	NYD064730294	200.167	8734	B105	A26	1
D006D007D008	M071	MID005068143	1,695.25	3651	B119	A22	1
D006D007D008	M072	MID005068143	1,695.25	3651	B119	A22	1
D006D007D008	M072	PAD005031448	68,050.04	3471	B107	A22	1
D006D007D008	M077	CAD097030993	12,792.60	3471	B119	A22	1
D006D007D008	M077	PAD041731670	73,134.28	2816	B114	A09	1
D006D007D008	M077	TXD007365984	33,954.78	3672	B119	A22	1
D006D007D008	M077	TX2571724333	7.08	9711	B119	A29	1
D006D007D008	M077	TX2571724333	8,446.20	9711	B205	A03	1
D006D007D008	M077	TX2571724333	58.34	9711	B207	A19	1
D006D007D008	M091	NJD002385730	21,572.90	2869	B101	A51	1
D006D007D008	M091	NJD002385730	215,729.50	2869	B114	A37	1
D006D007D008	M111	OKD081398612	114.04	3714	B302	A08	1
D006D007D008	M111	OKD082708371	0.86	3743	B310	A71	1
D006D007D008	M111	OKD081398612	97.758	3714	B504	A75	1
D006D007D008	M111	TX3213820738	53.19	3444	B490	A29	1
D006D007D008	M121	CTD990672081	1.804	3724	B114	A31	1
D006D007D008	M121	VAD098442148	2,303.52	3549	B119	A75	1
D006D007D008	M129	WAD006454516	362.9	2674	B119		
D006D007D008	M129	WAD006454516	362.9	2674	B119		1
D006D007D008	M129	TX2571724333	30.97	9711	B205	A29	1
D006D007D008	M132	TND980847024	11.14				
D006D007D008	M137	TND051386506	6,902.61				
D006D007D008	M137	TND982157570	22.52				
D006D007D008	M137	TN3890090001	0.03				
D006D007D008	M141	WA1170023419	17.71	9711	B219		
D006D007D008	M141	WA2170023418	0.22	9711	B219		
D006D007D008	M141	WA1170023419	1.6	9711	B319		
D006D007D008	M141	WA2170023418	156.89	9711	B319		
D006D007D008	M141	WA4170090001	0.08	9711	B319		
D006D007D008	M141	WA1170023419	15.37	9711	B409		

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D006D007D008	M141	WA2170023418	12.41	9711	B409		
D006D007D008	M141	WA9571924647	0.49	9711	B409		
D006D007D008D009	M137	TN3890090001	63.89				
D006D007D008D009D010	M125	WVD088911854	10	2821	B316	A57	1
D006D007D008D009D011	M039	WA2170023418	0.49	9711			
D006D007D008D009D011	M141	WA2170023418	1.95	9711	B219		
D006D007D008D010	M039	WA1170023419	0.003	9711			
D006D007D008D010	M039	WA2170023418	0.14	9711			
D006D007D008D010	M141	MID092947928	4.087		B	A	
D006D007D008D010	M141	WA9571924647	0.23	9711	B219		
D006D007D008D010	M141	WA1170023419	0.003	9711	B409		
D006D007D008D010	M141	WA9571924647	0.51	9711	B609		
D006D007D008D011	M014	FLD060240207	4.98	3761	B114	A49	1
D006D007D008D011	M039	WA2170023418	0.35	9711			
D006D007D008D011	M039	WA2170023418	5.91	9711	B119		
D006D007D008D011	M071	CAD097483523	544.954	3471	B105	A29	1
D006D007D008D011	M072	PAD990827610	25,459.00	3471	B114	A22	1
D006D007D008D011	M077	CAD084235621	83.622	3462	B103	A27	1
D006D007D008D011	M077	COD007057995	16,418.78	3728	B103	A22	1
D006D007D008D011	M141	WA2170023418	0.35	9711	B409		
D006D007D009	M137	TN3890090001	3.41				
D006D007D010	M111	OKD000758557	16.325	3724	B103	A01	1
D006D007D011	M039	WA7890008967	0.09	9999			
D006D007D011	M077	MAD002068831	1,176.61	3471	B107	A22	1
D006D007D011	M077	PRD987366069	141.78	3499	B119	A31	1
D006D007D011	M141	WA7890008967	0.09	9999	B219		
D006D008	M039	WA7890008967	0.11	9999			
D006D008	M039	WA2170023418	0.83	9711	B119		
D006D008	M039	WA7890008967	0.44	9999	B119		
D006D008	M039	WA7890008967	1.54	9999	B219		
D006D008	M039	WAD027530526	54.65	2879	B319		
D006D008	M039	WAD020233441	0.12	3961	B319		
D006D008	M039	WA2170023418	0.44	9711	B319		
D006D008	M039	WA5170027291	0.001	9711	B319		
D006D008	M039	WA7890008967	0.005	9999	B319		
D006D008	M039	WA2170023418	0.1	9711	B409		
D006D008	M043	KSD981506025	12.928	4953	B519	A74	1
D006D008	M077	MND980996805	17.336	3471	B103	A72	1
D006D008	M077	MAD001027325	630.725	3269	B113	A09	1
D006D008	M077	OKD000829440	849,331.00	3339	B113	A09	1
D006D008	M077	NYD002227296	212.333	3499	B114	A72	1
D006D008	M077	NCD980602445	14,400.00	3432	B119	A75	1
D006D008	M077	TXD066349770	756,605.00	3321	B115	A78	1
D006D008	M078	MDD002901197	28.413	3221	B106	A03	1
D006D008	M091	NJD001296110	0.459	8541	B201	A37	
D006D008	M101	PAD002347003	97.63	3253	B119	A09	1
D006D008	M111	AZ4570024055	24,167.12	9711	B304	A61	2
D006D008	M111	CAD021774559	273	3321	B304	A78	1
D006D008	M111	OHD083377010	0.35	7389			
D006D008	M111	OKD007224702	3.7	3229	B319	A29	1
D006D008	M111	VAD065417008	1,235.50	3321	B304	A78	1
D006D008	M112	OKD000829440	2.709	3339	B310	A75	3
D006D008	M112	TXD066349770	307.4	3321	B319	A78	1
D006D008	M119	OKD000829440	2.944	3339	B310	A32	1
D006D008	M121	MND980996805	17.336	3471	B103	A72	1
D006D008	M122	AZD982503948	15.031	3724	B207	A27	1
D006D008	M122	MAD000652081	217.577	3494	B205	A09	1
D006D008	M125	AZD982503948	15.031	3724	B207	A27	1
D006D008	M129	WAD000064642	31,552.00	3499	B119		1
D006D008	M132	OKD000829440	500.318	3339	B302	A69	2
D006D008	M132	OKD000829440	359.701	3339	B316	A99	1
D006D008	M132	OKD000829440	28.144	3339	B319	A99	1
D006D008	M135	WAD000064642	31,552.00	3499	B219		
D006D008	M137	TND003332012	6,916.63				
D006D008	M137	TND980316301	564.39				
D006D008	M137	TND981023666	10.68				
D006D008	M137	TND982157570	43.57				
D006D008	M137	TN3890090001	1.88				
D006D008	M141	OR6213820917	0.205	9711	B301	A61	2
D006D008	M141	WA2170023418	8.52	9711	B119		
D006D008	M141	WA7890008967	0.44	9999	B119		

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Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D006D008	M141	WA7890008967	1.65	9999	B219		
D006D008	M141	WA2170023418	0.46	9711	B319		
D006D008	M141	WA7890008967	0.005	9999	B319		
D006D008	M141	WA2170023418	0.29	9711	B409		
D006D008D009	M039	WA7890008967	0.08	9999	B319		
D006D008D009	M041	LAD053783445	0.5	2879	B119	A99	1
D006D008D009	M061	COD980591184	0.412				
D006D008D009	M137	TN3890090001	0.03				
D006D008D009	M141	WA7890008967	0.08	9999	B319		
D006D008D009D010	M077	PAD004326542	43.368	3229	B102	A09	1
D006D008D010	M039	WA2170023418	5.11	9711			
D006D008D010	M039	WA7890008967	0.03	9999			
D006D008D010	M141	WA2170023418	5.11	9711	B219		
D006D008D010	M141	WA7890008967	0.034	9999	B219		
D006D008D010D011	M039	WA7890008967	0.001	9999	B319		
D006D008D010D011	M141	WA7890008967	0.001	9999	B319		
D006D008D011	M041	NYD980592497	2.544	3861	B206	A54	1
D006D008D011	M043	NYD980592497	0.163	3861	B009	A59	1
D006D008D011	M123	PAD003053709	14.4	3724	B205	A92	1
D006D009	M039	WA7890008967	0.22	9999	B119		
D006D009	M039	WA7890008967	0.02	9999	B319		
D006D009	M042	KSD981506025	0.531	4953	B519	A53	2
D006D009	M141	WA7890008967	0.22	9999	B119		
D006D009	M141	WA7890008967	0.018	9999	B319		
D006D009	M141	WA7890008967	0.09	9999	B409		
D006D010	M039	WA7890008967	0	9999	B319		
D006D010	M141	WA7890008967	0	9999	B319		
D006D010D011	M039	WA7890008967	0.08	9999			
D006D010D011	M141	WA7890008967	0.08	9999	B219		
D006D011	M014	NYD071600100	0.342	8221	B105	A99	1
D006D011	M039	WA7890008967	0.11	9999	B119		
D006D011	M043	NYD980592497	0.433	3861	B310	A55	1
D006D011	M077	PAD987360047	2,816.79	3499	B105	A02	1
D006D011	M078	NYD982188385	2,890.61	3471	B107	A75	1
D006D011	M141	WA7890008967	0.11	9999	B119		
D006D011	M141	WA7890008967	0.035	9999	B219		
D007	M014	KSD980852669	0.805	8221	B119	A31	1
D007	M014	NYD002235182	0.89	3679	B101	A94	1
D007	M014	MOD052612850	146.923	3471	B105	A22	
D007	M014	MND980681589	9,495.54	3471	B105	A05	1
D007	M014	MNT280010257	23,603.00	3471	B105	A05	1
D007	M014	MND006253801	647.032	3471	B105	A22	1
D007	M014	MND050730175	49,024.85	3471	B113	A22	1
D007	M014	NYD041293127	3.753	3554	B119	A61	2
D007	M021	IAD085372266	22.585	2677	B119	A49	1
D007	M021	VAD046960449	2.4	3443	B519	A99	1
D007	M022	COD980591184	6.793				
D007	M023	CAD008382475	50.794	3721	B207	A21	1
D007	M032	CAD008278236	0.6	3471	B310	A32	1
D007	M032	KSD056789126	5.311	3296	B319	A35	1
D007	M032	NCD986171882	0.15	3534	B207	A49	1
D007	M032	NCD057454670	1.225	2819	B302	A53	2
D007	M032	WID066867060	0.3	2816	B319	A71	1
D007	M039	IND000816090	0.468	3479	B105	A01	1
D007	M039	NJD062043666	0.147	2673	B209	A09	1
D007	M039	WAD988470969	55.42	3471			1
D007	M039	WAD020233441	0.19	3961			
D007	M039	WA1170023419	25.24	9711			
D007	M039	WA2170023418	5.068	9711			
D007	M039	WA9214053465	0.576	9711			
D007	M039	WA7890008967	0.199	9999			
D007	M039	WAD021316427	8.01	3444	B119	A	1
D007	M039	WAD981772957	25,144.00	3471	B119		1
D007	M039	WA0000097675	268.8	3471	B119		1
D007	M039	WAD038529137	72.54	3471	B119	A	1
D007	M039	WAD980738926	22	3479	B119		1
D007	M039	WAD010211415	123.8	3593	B119		1
D007	M039	WAD041337130	1,209,300.00	3728	B119		1
D007	M039	WAD980723449	126.46	3728	B119	A	1
D007	M039	WAD009480823	1.85	3764	B119		1
D007	M039	WA2170023418	0.236	9711	B119		

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M039	WA1170023419	2.75	9711	B119	A	
D007	M039	WA1170023419	2.02	9711	B119	A	1
D007	M039	WA7890008967	0.052	9999	B119		
D007	M039	WAD980833099	4.21	3674	B319		
D007	M039	WAD009480823	0.035	3764	B319		
D007	M039	WA1170023419	0.22	9711	B319		
D007	M039	WA2170023418	3.509	9711	B319		
D007	M039	WA7890008967	0.398	9999	B319		
D007	M039	WA7890008967	0.045	9999	B409		
D007	M039	WAD980738926	2	3479	B519		1
D007	M039	WAD009251323	2	3498	B519		
D007	M039	WA1170023419	2.35	9711	B519		
D007	M041	ARD089234884	838	2865	B219	A35	1
D007	M041	ARD089234884	992	2865	B219	A37	1
D007	M041	OHD004304689	0.75	2821			
D007	M041	LAD001890367	51	2869	B219	A33	1
D007	M041	TND003376928	595.86				
D007	M041	TXD008079642	158.82	2821	B105	A09	1
D007	M043	OHD048415665	0.906	4953			
D007	M043	NYD980592497	0.025	3861	B001	A94	1
D007	M043	NYD980592497	0.417	3861	B009	A39	1
D007	M043	NYD980592497	3.1	3861	B009	A59	1
D007	M043	NYD980592497	0.897	3861	B310	A32	1
D007	M043	NYD980592497	1.172	3861	B310	A49	1
D007	M043	NYD980592497	0.365	3861	B310	A55	1
D007	M043	NYD980592497	0.618	3861	B316	A22	1
D007	M043	NYD980592497	0.533	3861	B316	A53	2
D007	M043	NYD980592497	0.063	3861	B319	A59	1
D007	M043	NYD980592497	43.551	3861	B403	A49	1
D007	M043	NYD980592497	0.1	3861	B407	A55	1
D007	M043	NYD980592497	0.39	3861	B407	A99	1
D007	M049	TND003376928	3,235.90				
D007	M051	ARD089234884	182	2865	B219	A37	1
D007	M061	COD980591184	4.895				
D007	M071	AZD983476185	158.251	3446	B103	A29	1
D007	M071	AZD000625715	32,074.00	3471	B103	A22	1
D007	M071	ALD004023180	6,882.19	3479	B103	A23	1
D007	M071	ALD000827147	12,251.88	3491	B103	A26	1
D007	M071	AZD008397069	14,886.42	3678	B103	A22	1
D007	M071	ALD000737288	7,833.23	3429	B105	A22	1
D007	M071	ALD982098311	949.384	3695	B106	A22	1
D007	M071	ALD980843940	11,711.27	3449	B119	A29	1
D007	M071	AZD983468166	11.828	3724	B119	A29	1
D007	M071	AZD003987997	5,427.26	3499	B503	A02	1
D007	M071	CTD001161793	4,504.51	3499	B101	A22	1
D007	M071	CAD009150194	12,817.85	3312	B103	A22	1
D007	M071	FLD098917149	23,464.60	3354	B103	A29	1
D007	M071	CTD010170363	71,456.91	3429	B103	A22	1
D007	M071	CAD009122557	68.5	3444	B103	A29	1
D007	M071	CAD981376023	1,704.75	3451	B103	A22	1
D007	M071	CTD000841221	8,340.28	3452	B103	A22	1
D007	M071	CAD008271090	990.826	3471	B103	A22	1
D007	M071	CAD077191039	4,250.29	3471	B103	A22	1
D007	M071	CAD981635741	3,619.68	3471	B103	A22	1
D007	M071	CTD001166263	904.921	3471	B103	A22	1
D007	M071	CTD001166826	4.248	3471	B103	A22	1
D007	M071	CTD001183052	7,506.26	3471	B103	A22	1
D007	M071	FLD982167702	21,250.72	3471	B103	A22	1
D007	M071	CAD000628032	8,135.96	3471	B103	A29	1
D007	M071	CTD001449784	277,168.47	3721	B103	A22	1
D007	M071	COD007057995	16,418.78	3728	B103	A22	1
D007	M071	CTD001840974	2,418.04	3829	B103	A29	1
D007	M071	CTD001980911	220,811.00	3949	B103	A22	1
D007	M071	CTD058507740	12,384.72	3724	B104	A22	1
D007	M071	CAD982030678	1,459.55	3354	B105	A29	1
D007	M071	CAD982200503	1,876.56	3354	B105	A29	1
D007	M071	CTD001183300	5,967.47	3421	B105	A22	1
D007	M071	CAD008301467	84,361.97	3429	B105	A22	1
D007	M071	CTD001153840	6,719.76	3432	B105	A22	1
D007	M071	CAD077233658	3,817.49	3449	B105	A27	1
D007	M071	CAD000093500	28,305.60	3452	B105	A02	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M071	CAD008493603	2,193.80	3452	B105	A22	1
D007	M071	CAD008289183	7,567.14	3452	B105	A29	1
D007	M071	CAD008371676	38,557.13	3471	B105	A22	1
D007	M071	CAD008387060	625.521	3471	B105	A22	1
D007	M071	CAD008392722	1,501.25	3471	B105	A22	1
D007	M071	CAD009548942	710.629	3471	B105	A22	1
D007	M071	CAD009686874	9,061.72	3471	B105	A22	1
D007	M071	CAD038682522	62,614.68	3471	B105	A22	1
D007	M071	CAD067629873	5,004.17	3471	B105	A22	1
D007	M071	CAD981981426	7,264.39	3471	B105	A22	1
D007	M071	CAD981990765	1,517.93	3471	B105	A22	1
D007	M071	CTD001139096	12,785.58	3471	B105	A22	1
D007	M071	CTD001149459	3,475.20	3471	B105	A22	1
D007	M071	CTD001180462	20.001	3471	B105	A22	1
D007	M071	CAD001946383	14,099.25	3471	B105	A29	1
D007	M071	CAD009603184	2,752.29	3471	B105	A29	1
D007	M071	CAD046442612	9,125.88	3471	B105	A29	1
D007	M071	CTD001149459	11.004	3471	B105	A29	1
D007	M071	CAD009116211	48.827	3471	B105	A31	1
D007	M071	CTD001149459	8,108.81	3471	B105	A31	1
D007	M071	CAD043089754	2,068.81	3471	B105	A75	1
D007	M071	CAD076053701	42,035.03	3496	B105	A22	1
D007	M071	CAD068856491	66.722	3581	B105	A24	1
D007	M071	FLD060240207	5.696	3761	B105	A22	1
D007	M071	CAT000610931	160.192	2891	B106	A27	1
D007	M071	CAD044052801	208.507	3315	B106	A03	1
D007	M071	CAD041160672	2.752	3452	B106	A22	1
D007	M071	CAD009548256	1,459.93	3452	B106	A29	1
D007	M071	CAD981172125	7,506.26	3471	B106	A22	1
D007	M071	CAD981379100	1,668.06	3471	B106	A31	1
D007	M071	CTD001170877	1,262.30	3579	B106	A22	1
D007	M071	CAD008278236	1,389.12	3471	B113	A22	1
D007	M071	CAD982467011	8,568.93	3721	B113	A29	1
D007	M071	CAD009140120	459,768.81	2499	B114	A61	2
D007	M071	DED980555122	152,210.18	2819	B114	A32	1
D007	M071	CAD008292435	2,110.09	3471	B114	A05	1
D007	M071	CAD008358145	2,488.92	3471	B114	A22	1
D007	M071	CTD001149459	0.292	3471	B114	A22	1
D007	M071	CTD001170257	75.897	3471	B114	A22	1
D007	M071	CAD052384328	1,270.30	3489	B114	A23	1
D007	M071	FLD047966593	843.869	3489	B114	A29	1
D007	M071	CAD000086686	2.064	3491	B114	A04	1
D007	M071	CAD000086686	10,765.84	3491	B114	A06	1
D007	M071	CTD003935905	10,945.99	3724	B114	A31	3
D007	M071	FLD002035723	45.455	3728	B114	A05	1
D007	M071	FLD046771952	195.163	3721	B115	A78	3
D007	M071	CAD008237950	7,000.00	3471	B119	A22	1
D007	M071	CAD008496408	1,209.34	3471	B119	A22	1
D007	M071	CAD009402082	2,377.98	3471	B119	A22	1
D007	M071	CAD008481947	5,000.00	3471	B119	A23	1
D007	M071	CAD040505331	40	3471	B119	A29	1
D007	M071	CTD057794034	4,013.95	3471	B119	A29	1
D007	M071	CTD001149459	15.784	3471	B119	A51	1
D007	M071	CAD008378044	1,540.03	3721	B119	A06	1
D007	M071	CAD982479206	11,560.51	3721	B119	A22	1
D007	M071	CAD983653668	3,094.11	3721	B119	A29	1
D007	M071	FLD043117522	219.247	3721	B119	A29	1
D007	M071	CAD086510005	149,342.02	3728	B119	A05	1
D007	M071	CTD983866955	349.591	3728	B119	A22	1
D007	M071	CAD981367659	2,315.31	3471	B504	A31	1
D007	M071	KYD058688664	138,885.50	3714	B101	A22	1
D007	M071	IND005382346	236.439	3999	B102	A22	1
D007	M071	GAD984304014	801.4	3354	B103	A24	1
D007	M071	GAD003273224	10,308.59	3354	B103	A29	1
D007	M071	GAD003484607	37,304.46	3354	B103	A29	1
D007	M071	ILD074573163	5,439.95	3354	B103	A29	1
D007	M071	KYD981852635	314.835	3471	B103	A03	1
D007	M071	IND006035018	63,002.14	3471	B103	A22	1
D007	M071	KYD006379945	1,826.56	3479	B103	A23	1
D007	M071	KYD074049727	2,026.44	3479	B103	A23	1
D007	M071	IND006420087	3,934.16	3479	B103	A24	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M071	IND990873606	1,414.46	3479	B103	A24	1
D007	M071	IAD062776422	43.52	3489	B103	A29	1
D007	M071	ILD025644493	4.872	3564	B103	A23	1
D007	M071	GAD004501862	260.799	3585	B103	A21	1
D007	M071	ILD182768085	14,406.45	3585	B103	A23	1
D007	M071	GAD980602999	13,540.46	3592	B103	A22	1
D007	M071	IND005105408	2,085.07	3699	B103	A22	1
D007	M071	KYD981803554	569.5	3714	B103	A22	1
D007	M071	IND016520017	270.725	3714	B103	A27	1
D007	M071	IND982617318	2,097.35	3714	B103	A29	1
D007	M071	GAD000615914	14,939.68	3728	B103	A22	1
D007	M071	GAD003302064	723.642	3799	B103	A29	1
D007	M071	IND005382346	0.099	3999	B103	A22	1
D007	M071	GAD018916734	2,731.44	3724	B104	ANA	1
D007	M071	GAD003324944	3,750.00	3354	B105	A21	1
D007	M071	IAD065218737	11,168.38	3369	B105	A26	1
D007	M071	IND098138936	290,126.70	3432	B105	A22	1
D007	M071	IAD065221897	500.417	3471	B105	A22	1
D007	M071	ILT180013468	55,026.86	3471	B105	A22	1
D007	M071	KSD007166853	11,102.20	3471	B105	A22	1
D007	M071	IND057396608	4,236.10	3479	B105	A29	1
D007	M071	GAD980842975	30,212.68	3496	B105	A22	1
D007	M071	KYD981923089	2,201.76	3592	B105	A05	1
D007	M071	GAD003306750	20,934.11	3714	B105	A22	1
D007	M071	IND980700801	22,494.62	3714	B105	A22	1
D007	M071	GAD078106846	13,835.30	3728	B105	A29	1
D007	M071	IND001927961	52.043	3429	B106	A22	1
D007	M071	ILD005105572	228.53	3432	B106	A03	1
D007	M071	IND980677496	1,244.92	3471	B106	A06	1
D007	M071	ILD048948178	79.136	3471	B106	A29	1
D007	M071	GAD048719108	18.5	3499	B106	A29	1
D007	M071	IAD010256923	10,448.29	3625	B106	A22	1
D007	M071	IAD000805143	101,980.82	3694	B106	A22	1
D007	M071	ILD001662816	22,124.91	3714	B106	A02	1
D007	M071	IAT200011187	0.701	3714	B106	A22	1
D007	M071	ILD049813256	16,238.83	3479	B108	A03	1
D007	M071	ILT180014698	53,499.19	3479	B108	A03	1
D007	M071	ILD005121033	12.6	3432	B113	A22	1
D007	M071	GAD061022216	2,793.90	3721	B113	A75	1
D007	M071	GAD981233356	402.451	2754	B114	A31	1
D007	M071	GAD981242613	583.095	3446	B114	A21	1
D007	M071	ILD005172325	148,473.73	3471	B114	A22	1
D007	M071	ILD025494246	0.088	3471	B114	A22	1
D007	M071	ILD980682447	6,142.62	3471	B114	A22	1
D007	M071	KSD007233323	0.25	3471	B114	A22	1
D007	M071	GAD000827873	15,381.66	3479	B114	A29	1
D007	M071	IND082864729	3,603.00	3679	B114	A22	1
D007	M071	IND980897524	27,795.37	3711	B114	A29	1
D007	M071	KSD007482011	177,122.60	3721	B114	A31	1
D007	M071	GAD003480530	38.873	3965	B114	A22	1
D007	M071	GAD981235823	2,959.16	3999	B114	A29	1
D007	M071	GAD097392971	747.025	4512	B114	A05	1
D007	M071	IAD005278502	27,105.92	2431	B119	A29	1
D007	M071	GAD000143677	20,850.71	3471	B119	A22	1
D007	M071	GAD981270416	4,070.48	3471	B119	A22	1
D007	M071	ILD005215421	13,436.20	3471	B119	A22	1
D007	M071	IAD005269527	205.755	3531	B119	A22	1
D007	M071	ILD005070537	42,976.56	3531	B119	A22	1
D007	M071	IAD005272703	3,366.80	3613	B119	A23	1
D007	M071	IAT200011187	3,599.18	3714	B119	A22	
D007	M071	IND982616559	7,247.97	3714	B119	A29	1
D007	M071	GAD106680002	20.85	3519	B504	A09	1
D007	M071	GAD984312843	6.1	3471	B505	A22	1
D007	M071	MID016744971	1,408.12	3479	B101	A22	1
D007	M071	OKD194624235	35.2	3721	B101	A06	1
D007	M071	NCD051331395	832.602	2531	B102	A22	1
D007	M071	NYD981132558	206.4	2754	B102	A22	1
D007	M071	MSD050243534	7,803.38	3471	B102	A22	1
D007	M071	NED007281728	33,786.42	3471	B102	A22	1
D007	M071	NYD002208031	319.9	3471	B102	A22	1
D007	M071	MAD002084093	83.403	3795	B102	A23	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M071	MAD985294347	54.212	3795	B102	A23	1
D007	M071	MAD002084093	90.909	3999	B102	A23	1
D007	M071	NYD002076255	18.675	2514	B103	A27	1
D007	M071	NJD002329621	8,036.99	2796	B103	A22	1
D007	M071	MSD097904932	7,941.00	3354	B103	A29	1
D007	M071	NYD000632109	5,472.00	3354	B103	A29	1
D007	M071	MAD981062284	0.005	3357	B103	A27	1
D007	M071	MID980990113	4,932.17	3417	B103	A22	1
D007	M071	MAD981061419	0.62	3423	B103	A22	1
D007	M071	NCD067200949	6,605.51	3442	B103	A21	1
D007	M071	NCD980844898	1,441.13	3449	B103	A29	1
D007	M071	MID122401318	13,438.28	3471	B103	A22	
D007	M071	MAD001034016	2.808	3471	B103	A22	1
D007	M071	MAD001132331	43,330.00	3471	B103	A22	1
D007	M071	MAD062173497	0.609	3471	B103	A22	1
D007	M071	MAD985294255	2,881.51	3471	B103	A22	1
D007	M071	MDD003065117	2,615.66	3471	B103	A22	1
D007	M071	MID044973642	172.428	3471	B103	A22	1
D007	M071	MID052035425	172,005.85	3471	B103	A22	1
D007	M071	MOD007140874	909.091	3471	B103	A22	1
D007	M071	NYD002207256	1,305.39	3471	B103	A22	1
D007	M071	NYD002207520	2,522.10	3471	B103	A22	1
D007	M071	NYD002221430	2,151.30	3471	B103	A22	1
D007	M071	NYD002226041	4,375.00	3471	B103	A22	1
D007	M071	NYD990774200	331.343	3471	B103	A22	1
D007	M071	MID005394465	9,757.72	3479	B103	A29	1
D007	M071	MOD981501596	1,950.38	3483	B103	A24	1
D007	M071	MND000819268	25.021	3489	B103	A29	1
D007	M071	NCD981862956	6,366.16	3492	B103	A22	1
D007	M071	NJD002345247	10,549.94	3497	B103	A22	1
D007	M071	NCD981003197	3.336	3519	B103	A29	1
D007	M071	OKD074294612	5,905.23	3519	B103	A29	1
D007	M071	NED035036201	341	3523	B103	A06	1
D007	M071	NCD060299880	7,774.48	3592	B103	A23	1
D007	M071	MOD092356096	31,323.03	3613	B103	A22	1
D007	M071	NCD046135992	175.793	3625	B103	A29	1
D007	M071	NCD057037194	1,768.00	3625	B103	A29	1
D007	M071	MAD001923408	6,228.26	3669	B103	A22	1
D007	M071	NYD991292079	6,331.92	3674	B103	A01	1
D007	M071	NYD001827633	59,085.00	3678	B103	A22	1
D007	M071	NYD982189102	37.531	3679	B103	A27	1
D007	M071	NCD003233970	406.589	3713	B103	A24	1
D007	M071	MID006021414	12.177	3714	B103	A89	1
D007	M071	NED068652981	0.5	3751	B103	A29	1
D007	M071	MOD075888487	11,162.60	3761	B103	A26	1
D007	M071	NCD041466251	8,984.27	3824	B103	A22	1
D007	M071	NCD042892067	3,362.69	3999	B103	A22	1
D007	M071	NC1170027261	647.45	9711	B103	A22	1
D007	M071	MAD054430095	0.151	3471	B104	A29	1
D007	M071	MSD096076781	42	3081	B105	A04	1
D007	M071	MID005320247	807,020.38	3316	B105	A31	1
D007	M071	OKD094029063	28,600.00	3429	B105	A22	1
D007	M071	OKD020721098	122,953.81	3432	B105	A22	1
D007	M071	MID072598725	11,248.08	3471	B105	A22	
D007	M071	MOD052612850	25.509	3471	B105	A22	
D007	M071	ORD018216887	4,735.56	3471	B105	A05	1
D007	M071	MID006004451	7,507.17	3471	B105	A22	1
D007	M071	MID985583459	1.856	3471	B105	A22	1
D007	M071	MND006175871	23,929.94	3471	B105	A22	1
D007	M071	MND006253801	109,143.64	3471	B105	A22	1
D007	M071	MOD006264675	5.504	3471	B105	A22	1
D007	M071	MSD008181562	593.895	3471	B105	A22	1
D007	M071	NJD981184591	621.518	3471	B105	A22	1
D007	M071	NYD002229326	11,774.29	3471	B105	A22	1
D007	M071	NYD982721656	10,842.37	3471	B105	A22	1
D007	M071	NYD982730632	750.626	3471	B105	A22	1
D007	M071	NYD981182538	1,876.56	3471	B105	A23	1
D007	M071	MAD982545923	40.2	3471	B105	A29	1
D007	M071	MID020892121	3,395.18	3471	B105	A29	1
D007	M071	MSD007037278	20.876	3471	B105	A31	1
D007	M071	NYD980769830	1,803.60	3471	B105	A31	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M071	NED007268790	1,014.39	3479	B105	A22	1
D007	M071	NCD980845366	13,938.87	3499	B105	A22	1
D007	M071	MAD985290998	5.738	3499	B105	A29	1
D007	M071	MOD006281711	2,502.09	3585	B105	A29	1
D007	M071	NED080219868	11.468	3593	B105	A22	1
D007	M071	NJD030239412	269.308	3679	B105	A22	1
D007	M071	NHD002576817	5,610.93	3679	B105	A31	1
D007	M071	MID017079625	430	3714	B105	A22	1
D007	M071	MID057042434	45,975.81	3714	B105	A22	1
D007	M071	OKD079981874	20,016.68	3714	B105	A22	1
D007	M071	MID044253029	1,501.25	3714	B105	A23	1
D007	M071	NYD002215234	131,434.86	3714	B105	A29	1
D007	M071	MND006148282	12,831.19	3714	B105	A31	1
D007	M071	NYD044689818	14.274	3728	B105	A27	1
D007	M071	NED043534635	12.36	3761	B105	A29	1
D007	M071	MND006156350	399.291	2514	B106	A29	1
D007	M071	NYD060545209	20,177.67	3312	B106	A79	2
D007	M071	MDD003090503	5,170.98	3471	B106	A22	1
D007	M071	MSD130452501	24,132.38	3471	B106	A22	1
D007	M071	NCD991302498	6,290.46	3471	B106	A22	1
D007	M071	NYD002113975	57,302.63	3471	B106	A22	1
D007	M071	NYD022641427	103.628	3471	B106	A22	1
D007	M071	NYD041975715	1,125.94	3471	B106	A22	1
D007	M071	MN3170022914	5	3489	B106	A01	1
D007	M071	NYD002076073	3,170.64	3499	B106	A22	1
D007	M071	NCD101773992	26,631.32	3519	B106	A29	1
D007	M071	NYD001317072	26,000.00	3585	B106	A29	1
D007	M071	NED065133167	4,774.40	3592	B106	A22	1
D007	M071	OK0690540000	32.611	3799	B106	A22	1
D007	M071	NJD045800521	13,511.26	3369	B107	A22	1
D007	M071	MID055850200	188,215.18	3471	B107	A22	1
D007	M071	NYD001230341	2,661.59	3471	B107	A22	1
D007	M071	MAD001122381	47,235.41	3471	B107	A24	1
D007	M071	MID000810390	129	3451	B113	A22	1
D007	M071	MID005375837	45,965.04	3471	B113	A22	
D007	M071	MID270012669	393.013	3471	B113	A31	1
D007	M071	NYD010783967	136,570.00	3479	B113	A29	1
D007	M071	MND004320693	7,944.96	3585	B113	A29	1
D007	M071	MOD050715655	200.16	3724	B113	A22	1
D007	M071	MSD054179403	288,230.00	2911	B114	A49	1
D007	M071	NYD002249613	6,672.23	3465	B114	A22	1
D007	M071	MID006023378	4,744.28	3471	B114	A22	1
D007	M071	NYD002215226	18,465.39	3471	B114	A22	1
D007	M071	NYD091662726	176.927	3471	B114	A22	1
D007	M071	MAD001013515	1.668	3471	B114	A31	1
D007	M071	NCD003951878	13,193.31	3471	B114	A75	1
D007	M071	MND006253801	249.678	3471	B114	A69	2
D007	M071	NYD010783967	140,320.00	3479	B114	A06	1
D007	M071	NYD010783967	61,460.00	3479	B114	A29	1
D007	M071	MAD001114206	25	3484	B114	A89	1
D007	M071	NYD002205755	4,887.20	3541	B114	A22	1
D007	M071	MID006013403	781.902	3545	B114	A22	1
D007	M071	MND079731519	7,548.16	3571	B114	A05	1
D007	M071	NYD982189102	275.229	3679	B114	A23	1
D007	M071	NCD091245498	67,633.07	3711	B114	A27	1
D007	M071	MSD054531215	4,954.13	3949	B114	A22	1
D007	M071	NYD002210565	340	3471	B115	A22	1
D007	M071	NYD002205755	1,263.90	3541	B115	A78	1
D007	M071	NCD057454670	203,394.60	2819	B116	A69	2
D007	M071	NJD011417516	77,592.77	3315	B116	A63	2
D007	M071	MDD053945432	227,348.21	3312	B119	A22	1
D007	M071	MOT300010550	6,152.50	3471	B119	A29	1
D007	M071	NYD002207744	5,497.67	3471	B119	A29	1
D007	M071	ORD009049107	0.483	3471	B119	A29	1
D007	M071	NYD990774200	4,351.73	3471	B119	A69	2
D007	M071	MED985467562	440.367	3479	B119	A19	1
D007	M071	NCD003156940	9,271.24	3479	B119	A24	1
D007	M071	NCD981003197	5,245.89	3519	B119	A29	1
D007	M071	MND000823922	5,992.32	3571	B119	A06	1
D007	M071	NED099564684	16,680.57	3644	B119	A27	1
D007	M071	MDD046041885	141.868	3663	B119	A05	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M071	MID038624508	35,508.41	3714	B119	A31	1
D007	M071	MID057042434	6,575.48	3714	B119	A69	2
D007	M071	NCD098770746	262.098	3728	B119	A22	1
D007	M071	NYD002047967	31,954.81	3479	B208	A29	1
D007	M071	TXD041128083	32,863.62				
D007	M071	PAD046135083	7,108.80	3652	B101	A22	1
D007	M071	WID006424857	48,321.10	3471	B102	A22	1
D007	M071	WID053091005	17,318.60	3471	B102	A22	1
D007	M071	PAD004328076	9,948.55	3479	B102	A21	1
D007	M071	PAD051397768	3,618.80	2754	B103	A22	1
D007	M071	VAD046979498	183.966	2754	B103	A22	1
D007	M071	SDD096407838	13,522.00	3354	B103	A29	1
D007	M071	PAD002976009	546.289	3442	B103	A29	1
D007	M071	WID006073225	12,309.76	3471	B103	A22	1
D007	M071	WID096344056	2,109.76	3471	B103	A22	1
D007	M071	PAD003036662	176.808	3471	B103	A75	1
D007	M071	VAD096372974	4.598	3479	B103	A29	1
D007	M071	PAD003023827	284	3523	B103	A06	1
D007	M071	PAD014433932	40	3523	B103	A06	1
D007	M071	VAD990710675	256.291	3635	B103	A29	1
D007	M071	PAD001746460	27,493.31	3651	B103	A01	1
D007	M071	PAD981038078	1,251.04	3679	B103	A22	1
D007	M071	WID006126999	678.959	3713	B103	A24	1
D007	M071	WID066874207	1,234.15	3714	B103	A19	1
D007	M071	WID066874207	15,890.12	3714	B103	A22	1
D007	M071	VAD054039961	2,289.91	3714	B103	A33	1
D007	M071	TXD980626006	2,340.40	3721	B103	A29	1
D007	M071	TXD981155203	2.84	3812	B103	A23	1
D007	M071	TXD980866990	284.38	3823	B103	A22	1
D007	M071	PAD002275436	5,247.90	3993	B103	A22	1
D007	M071	WID006125215	460.563	3999	B103	A29	1
D007	M071	WID098550437	15,901.03	2591	B105	A29	1
D007	M071	PAD004322509	628,797.92	3312	B105	A26	1
D007	M071	PAD004340444	1,180,150.13	3312	B105	A31	1
D007	M071	PAD987279189	4,670.56	3354	B105	A01	1
D007	M071	PAD002333227	21.685	3471	B105	A22	1
D007	M071	PAD002399285	27,962.33	3471	B105	A22	1
D007	M071	PAD003012077	12,871.78	3471	B105	A22	1
D007	M071	PAD003041415	62.552	3471	B105	A22	1
D007	M071	PAD004316832	9,716.00	3471	B105	A22	1
D007	M071	PAD005031448	123.228	3471	B105	A22	1
D007	M071	PAD069799419	19,098.95	3471	B105	A22	1
D007	M071	RID001191931	3,052.54	3471	B105	A22	1
D007	M071	WID006090732	75.063	3471	B105	A22	1
D007	M071	PAD002378545	152,543.79	3471	B105	A29	1
D007	M071	PAD002101301	320.267	3471	B105	A31	1
D007	M071	WID006115877	10,856.90	3471	B105	A31	1
D007	M071	PAD003015716	250.455	3479	B105	A05	1
D007	M071	PAD005569538	237,274.16	3479	B105	A22	1
D007	M071	PAD049029697	5,167.69	3479	B105	A22	1
D007	M071	PAD003015716	11.89	3479	B105	A24	1
D007	M071	PAD002344463	4,439.01	3498	B105	A26	1
D007	M071	WID980704209	7,750.10	3519	B105	A22	1
D007	M071	PRD090497959	436.7	3585	B105	A21	1
D007	M071	WID006084172	2,278.97	3585	B105	A22	1
D007	M071	PAD980551840	160,000.00	3724	B105	A27	1
D007	M071	TXD091939520	18,053.10	3479	B106	A03	1
D007	M071	WID006135982	7,675.66	3496	B106	A22	1
D007	M071	PAD045297066	16,092.07	3965	B107	A22	1
D007	M071	PAD004338091	2,600.00	3317	B113	A29	1
D007	M071	WID006116529	52.29	3519	B113	A22	1
D007	M071	WID006125215	11.208	3999	B113	A78	1
D007	M071	TXD988019568	12,972.87		B114		
D007	M071	PAD041731670	820.475	2816	B114	A31	1
D007	M071	TXD098818339	18,761.00	2819	B114	A75	1
D007	M071	PAD004397337	11,934.00	3471	B114	A22	1
D007	M071	PRD090156712	9,245.20	3471	B114	A22	1
D007	M071	VAD098694318	11,612.87	3471	B114	A22	1
D007	M071	WID006107122	34,982.72	3471	B114	A22	1
D007	M071	PAD003014560	24.3	3496	B114	A29	1
D007	M071	PAD061075529	137.4	3499	B114	A21	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M071	RID051507044	119.956	3499	B114	A29	1
D007	M071	PAD003002375	1,369.91	3843	B114	A22	1
D007	M071	PAD003053709	483.723	3724	B115	A78	1
D007	M071	VAD003175072	7.2	3731	B115	A22	1
D007	M071	WID054105218	24,020.02	3429	B119	A29	1
D007	M071	PAD002294585	17.001	3444	B119	A29	1
D007	M071	PAD051658573	7,900.00	3448	B119	A05	1
D007	M071	UTD047109269	62.252	3471	B119	A22	1
D007	M071	PAD003037934	9,231.51	3592	B119	A22	1
D007	M071	PAD981035652	7,799.55	3613	B119	A22	1
D007	M071	WID980584239	422.212	3644	B119	A24	1
D007	M071	PAD981947294	274,000.00	3671	B119	A22	1
D007	M071	WID006070320	2,175.07	3694	B119	A22	1
D007	M071	PAD003025418	6,133.81	3795	B119	A29	1
D007	M071	TX2571724333	8.53	9711	B119	A49	1
D007	M072	NCD003459336	8,985.60	3471	B105	A29	1
D007	M072	NJD045800521	3,152.63	3369	B107	A22	1
D007	M072	MAD001122381	23,617.70	3471	B107	A24	1
D007	M072	OK0690540000	28.42	3799	B107	A22	1
D007	M072	PAD981038078	1,251.04	3679	B103	A22	1
D007	M074	CTD001449784	255,608.84	3721	B107	A22	1
D007	M074	MND006255764	25.201	3471	B114	A22	1
D007	M074	PAD002350833	14,810.00	3471	B105	A22	1
D007	M077	AZD018517698	8,781.14	3728	B103	A22	1
D007	M077	AZD008399636	0.25	3764	B103	A22	1
D007	M077	ALD004012050	450.36	3471	B105	A22	1
D007	M077	ALD000653022	13,559.37	3471	B113	A22	1
D007	M077	ALD000652677	11.52	3585	B114	A29	1
D007	M077	AZD008399636	0.055	3764	B319	A01	1
D007	M077	CTD001454032	3,065.05	3471	B103	A22	1
D007	M077	CAD983610304	2,925.87	3471	B105	A23	1
D007	M077	CAD981166051	18.766	3471	B105	A29	1
D007	M077	CAD009116229	62.402	3471	B105	A78	1
D007	M077	CAD009114919	27	2911	B114	A09	1
D007	M077	COD007058167	718.3	3089	B119	A22	1
D007	M077	IAD096515440	8.34	3443	B103	A24	1
D007	M077	IND009422296	5,519.98	3471	B103	A22	1
D007	M077	IAD000610436	349.124	3632	B103	A29	1
D007	M077	IAD005278882	697.224	3949	B103	A22	1
D007	M077	GA4170090001	2.75	9711	B103	A01	1
D007	M077	KYD042596981	420.336	3479	B105	A24	1
D007	M077	IAD005287768	8,239.14	3494	B107	A22	1
D007	M077	KY8890008982	843,832.86	2819	B113	A77	1
D007	M077	GAD981235823	8,877.49	3999	B114	A29	1
D007	M077	KYD041977729	20,860.56	3452	B119	A22	1
D007	M077	MID981088297	3,127.61	3471	B	A	1
D007	M077	NJD986581213	137.214	3291	B032	A75	1
D007	M077	MDD022570923	11.343	3421	B101	A22	1
D007	M077	MID981195696	98,373.65	3471	B101	A22	1
D007	M077	NJD002181386	15,554.63	3356	B103	A02	1
D007	M077	NJD001599604	10,420.69	3471	B103	A29	
D007	M077	NCD045922986	22.518	3564	B103	A26	1
D007	M077	OKD000758557	592.67	3724	B103	A01	1
D007	M077	OKD981908395	40,213.51	3496	B105	A22	1
D007	M077	NJD002181386	17.431	3356	B106	A03	1
D007	M077	NCD986166189	2,168.47	3429	B106	A22	1
D007	M077	MID005480900	212,477.06	3471	B106	A22	1
D007	M077	NYD002115152	48.372	3471	B106	A22	1
D007	M077	MOD006269385	5,057.34	3586	B106	A22	1
D007	M077	NYD006015580	62,110.17	3429	B107	A22	1
D007	M077	NCD053487765	1,751.46	3471	B107	A22	1
D007	M077	MAD001122381	23,617.70	3471	B107	A24	1
D007	M077	NY7213820940	147,402.65	3489	B113	A22	1
D007	M077	NHD000636134	58,484.06	3724	B113	A27	1
D007	M077	LAD062119771	6,606.75	3471	B114	A31	1
D007	M077	NCD049773666	40,400.00	3471	B114	A75	1
D007	M077	MOD000610816	31.275	3714	B114	A78	1
D007	M077	MAD001402320	1,391.79	3861	B114	A94	1
D007	M077	NCD003229358	2,041.70	3634	B119	A22	1
D007	M077	OKD051049427	26.063	3841	B119	A49	1
D007	M077	NJD002181733	2.25	3423	B305	A22	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M077	TXD098292246	16.8				
D007	M077	WID980792063	3,858.75	3446	B101	A21	1
D007	M077	PAD002324978	9,800.00	3316	B105	A22	1
D007	M077	PAD086718566	425.4	3354	B105	A23	1
D007	M077	PAD987283520	11,455.00	3479	B105	A02	1
D007	M077	PAD045388972	364.189	3548	B105	A26	1
D007	M077	PAD004317327	1,559.42	3824	B105	A22	1
D007	M077	WID102220704	4.507	3341	B107	A72	3
D007	M077	WID980584114	135,204.34	3471	B107	A22	1
D007	M077	WID006125215	11.208	3999	B113	A79	1
D007	M078	AZD982486169	508.71	3471	B103	A31	1
D007	M078	ALD000615583	9.712	4911	B119	A99	1
D007	M078	CAD008306482	5.25	3471	B103	A37	1
D007	M078	CAD981166051	4.691	3471	B105	A29	1
D007	M078	CAD008314908	4	3511	B106	A03	1
D007	M078	CAD009140120	449,115.27	2499	B114	A61	2
D007	M078	CAD008382475	164.346	3721	B119	A29	1
D007	M078	NJD011417516	6,644.41	3315	B103	A02	1
D007	M078	NCD067203752	750.626	3625	B103	A22	1
D007	M078	NCD083673590	217.908	3714	B103	A29	1
D007	M078	MDD003062213	8,757.30	3471	B105	A22	1
D007	M078	NJD002365930	734,407.84	3313	B119	A61	2
D007	M078	PAD067392902	3,060.10	3471	B103	A22	1
D007	M078	PAD004326542	32.237	3229	B105	A22	1
D007	M078	PAD002298032	9,500.72	3949	B105	A22	1
D007	M079	OHD083377010	0.234	7389			
D007	M079	ORD018216887	125.384	3471	B105	A22	1
D007	M081	NYD980592497	26.288	3861	B105	A99	1
D007	M081	NHD048724173	51.25	2869	B219	A32	1
D007	M082	TXD007378995	76,340.80				
D007	M085	NYD002047967	3,567.02	3479	B208	A29	1
D007	M091	NJD002385730	194,156.50	2869	B114	A37	1
D007	M092	MAD980525638	0.744	3451	B119	A29	1
D007	M092	TXD007365984	39,710.87	3721	B119	A01	1
D007	M094	NC1170027261	4.95	9711	B106	A21	1
D007	M094	NC1170027261	12.817	9711	B113	A06	1
D007	M094	NC1170027261	2.15	9711	B114	A09	1
D007	M094	NC1170027261	2	9711	B114	A22	1
D007	M094	NC1170027261	15.75	9711	B209	A21	1
D007	M101	CAD000093500	28,305.60	3452	B105	A02	1
D007	M101	CAD000086686	2.064	3491	B114	A04	1
D007	M101	CAD000086686	10,765.84	3491	B114	A06	1
D007	M101	KSD007233323	0.25	3471	B114	A22	1
D007	M111	OHD083377010	2.106	7389			
D007	M111	MOT300010022	9.592	4741	B409	A21	1
D007	M111	TXD065099160	35.5		B319		
D007	M121	AZD058787086	19.813	3324	B103	A02	1
D007	M121	AZD980896310	2.36	3672	B105	A29	1
D007	M121	AZD982486169	78.85	3471	B114	A31	1
D007	M121	COD007059439	13,850.81	3999	B103	A23	1
D007	M121	FLD040216764	91,326.11	4911	B105	A99	1
D007	M121	CTD990672081	2.099	3724	B114	A31	1
D007	M121	ILD005093109	110.863	3471	B114	A02	1
D007	M121	TND047000898	9,084.03				
D007	M121	TND077647832	9.47				
D007	M121	TXD082688896	73,541.13	2819	B113	A75	1
D007	M122	AZD982401085	48	3524	B102	A06	1
D007	M122	CAD000030494	0.42	3764	B113	A19	1
D007	M123	WVD005005509	561.45	2879	B114	A04	1
D007	M125	CTD990672081	50,523.87	3724	B114	A31	1
D007	M125	ILD005266168	3.6	3021		A49	1
D007	M125	ILD006317614	6.987	2851	B114	A09	1
D007	M125	IAD005289806	5,735.61	3523	B119	A22	1
D007	M125	OHD083377010	0.857	7389			
D007	M125	MID005356621	78,190.16	3471	B103	A22	1
D007	M125	MED982766750	75.603	3498	B103	A26	1
D007	M125	MID005344973	0.5	3471	B505	A38	1
D007	M125	TND071530125	1,675.35				
D007	M125	PAD982578072	233.24	3444	B114	A29	1
D007	M129	WAD988512554	59.4		B119	A	1
D007	M129	WAD021316427	8.01	3444	B119		

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007	M129	WAD038529137	75.46	3471	B119		
D007	M129	WAD981772957	25,144.00	3471	B119		
D007	M129	WAD988512554	59.4	3471	B119		
D007	M129	WAD988476149	19.35	3479	B119		
D007	M129	WAD010211415	123.8	3593	B119		
D007	M129	WAD041337130	1,209,300.00	3728	B119		
D007	M129	WA1170023419	2.02	9711	B119		
D007	M132	LAD000777201	0.01	4953	B316	A58	1
D007	M132	TN4210020570	2.22				
D007	M132	TXD057408924	0.01				
D007	M135	MID057004871	9,346.82	3471	B114	A31	1
D007	M137	TND003374683	54,895.10				
D007	M137	TND003381225	589.25				
D007	M137	TND007022072	27,303.36				
D007	M137	TND042454587	2,981.99				
D007	M137	TND054879002	16,757.12				
D007	M137	TND071530620	23,838.42				
D007	M137	TND095050019	36,876.22				
D007	M137	TND101768182	27.01				
D007	M137	TND175237536	60.58				
D007	M137	TND980837892	8,377.58				
D007	M137	TND980845838	4,519.48				
D007	M137	TND991279563	10,091.54				
D007	M137	TN0890090004	0.63				
D007	M137	TN3890090001	6.87				
D007	M137	WAD980723449	126.46	3728	B119		
D007	M141	AR0213820707	5.778	3489	B310	A58	1
D007	M141	WA1170023419	2.75	9711	B119		
D007	M141	WA2170023418	0.236	9711	B119		
D007	M141	WA9214053465	0.165	9711	B119		
D007	M141	WA9571924647	11.33	9711	B119		
D007	M141	WA7890008967	0.12	9999	B119		
D007	M141	WA1170023419	1.84	9711	B219		
D007	M141	WA2170023418	0.21	9711	B219		
D007	M141	WA9214053465	0.378	9711	B219		
D007	M141	WA7890008967	0.012	9999	B219		
D007	M141	WA1170023419	0.22	9711	B319		
D007	M141	WA2170023418	0.046	9711	B319		
D007	M141	WA9214053465	0.18	9711	B319		
D007	M141	WA9571924647	0.01	9711	B319		
D007	M141	WA7890008967	0.421	9999	B319		
D007	M141	WA1170023419	0.84	9711	B409		
D007	M141	WA2170023418	0.42	9711	B409		
D007	M141	WA9214053465	9.45	9711	B409		
D007	M141	WA7890008967	0.225	9999	B409		
D007	M141	WA1170023419	2.35	9711	B519		
D007	M141	WA1170023419	22.57	9711	B609		
D007	M999	CAD086510005	51.148	3728	B115	A21	1
D007	M999	WID003967148	0.075	9511	B001	A59	2
D007D008	M024	MOD980740906	6.612	3086	B203	A09	1
D007D008	M032	CAD982032229	77.796	3211	B314	A78	1
D007D008	M032	MID005356621	1,774.69	3471	B103	A22	1
D007D008	M039	WA1891406349	2.16	4911			
D007D008	M039	WA2170023418	46.126	9711			
D007D008	M039	WA9214053465	0.084	9711			
D007D008	M039	WA7890008967	0.81	9999			
D007D008	M039	WA1170023419	5.65	9711	B119	A	
D007D008	M039	WA1170023419	35.63	9711	B119	A	1
D007D008	M039	WA7890008967	0.002	9999	B219		
D007D008	M039	WA2170023418	0.619	9711	B319		
D007D008	M039	WA7890008967	8.11	9999	B319		
D007D008	M039	WA7890008967	0.01	9999	B409		
D007D008	M039	WA1170023419	0.17	9711	B519		
D007D008	M043	OHD048415665	1.65	4953			
D007D008	M043	NYD980592497	0.974	3861	B009	A59	1
D007D008	M043	NYD980592497	0.282	3861	B307	A08	1
D007D008	M043	NYD980592497	0.507	3861	B319	A21	1
D007D008	M049	TND003376928	0.93				
D007D008	M049	TN8570024044	8.7				
D007D008	M061	COD980591184	0.825				
D007D008	M071	DC2200907812	765.026	2754	B107	A22	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007D008	M071	IAD005300751	45.872	3716	B105	A06	1
D007D008	M071	IAD000805168	3,042.56	3523	B114	A21	1
D007D008	M071	IND016520017	112.594	3714	B209	A09	1
D007D008	M071	NCD002571438	3,127.61	3471	B114	A22	1
D007D008	M071	NCD057927857	25,370.73	3471	B114	A22	1
D007D008	M071	PAD004327987	583.82	3494	B105	A29	1
D007D008	M077	AZD041456872	47.668	3471	B119	A23	1
D007D008	M077	AZD008399636	5	3764	B119	A22	1
D007D008	M077	AZD982479727	1.147	3672	B203	A06	1
D007D008	M077	CAD098385875	26,237.72	3672	B105	A22	1
D007D008	M077	CAD097030993	583.34	3483	B110	A09	2
D007D008	M077	CAD009630708	128,386.99	3678	B113	A22	1
D007D008	M077	IND074068610	46.706	3499	B101	A21	1
D007D008	M077	IND052959640	45,633.40	3714	B106	A22	1
D007D008	M077	MAD041710609	27,022.52	3479	B105	A27	1
D007D008	M077	NYD055865125	345.707	3262	B114	A09	1
D007D008	M077	TX2571724333	134.95	9711	B103	A23	1
D007D008	M077	VTD001075894	219,182.65	3724	B113	A31	1
D007D008	M078	IND016520017	119.266	3714	B209	A09	1
D007D008	M091	IAD005269527	669.415	3531	B119	A01	1
D007D008	M091	NJD002385730	32,410.90	2869	B113	A37	1
D007D008	M091	NJD002385730	323,594.20	2869	B114	A37	1
D007D008	M091	NJD002385730	346,760.30	2869	B115	A78	1
D007D008	M101	CAD983613019	750.024	3479	B113	A05	1
D007D008	M111	COD991300484	190.934	9511	B319	A92	2
D007D008	M111	ID4890008952	0.269	8733	B519	A69	2
D007D008	M123	VTD002068856	0.685	3491	B603	A54	1
D007D008	M125	CA2890012923	0.154	9711	B114	A94	1
D007D008	M125	IAD005289806	700.386	3523	B119	A21	1
D007D008	M125	KYD006386395	1.375	3229	B319	A89	1
D007D008	M125	MAD001119502	0.08	2851	B409	A71	1
D007D008	M125	TXD008135618	854.02	3471	B503	A05	1
D007D008	M129	WA1170023419	35.63	9711	B119		
D007D008	M137	TND982157570	6.04				
D007D008	M141	MAD001028760	3.015	3671	B103	A56	2
D007D008	M141	WA1170023419	5.65	9711	B119		
D007D008	M141	WA7890008967	0.117	9999	B219		
D007D008	M141	WA2170023418	7.702	9711	B319		
D007D008	M141	WA7890008967	0.79	9999	B319		
D007D008	M141	WA1891406349	2.16	4911	B409		
D007D008	M141	WA2170023418	11.529	9711	B409		
D007D008	M141	WA9214053465	0.084	9711	B409		
D007D008	M141	WA7890008967	0.45	9999	B409		
D007D008	M141	WA1170023419	0.17	9711	B519		
D007D008D009	M039	WA7890008967	0.03	9999	B319		
D007D008D009	M137	TN3890090001	20.05				
D007D008D009	M141	WA7890008967	0.034	9999	B319		
D007D008D009D010	M077	IAD005300751	110.092	3716	B105	A06	1
D007D008D010	M061	COD980591184	0.206				
D007D008D011	M043	NYD980592497	2.015	3861	B009	A59	1
D007D008D011	M077	NYD002066173	741.606	3264	B105	A31	1
D007D008D011	M141	WA9214053465	0.002	9711	B219		
D007D009	M039	WA7890008967	0.04	9999	B319		
D007D009	M041	KSD981506025	1.01	4953	B219	A99	1
D007D009	M043	OHD048415665	0.8	4953			
D007D009	M043	NYD980592497	0.016	3861	B319	A94	1
D007D009	M043	TXD008092793	17.8	3313	B319	A64	2
D007D009	M132	TXD008092793	108.5	3313	B319	A64	2
D007D009	M141	WA7890008967	0.044	9999	B319		
D007D009D011	M039	WA7890008967	0.004	9999	B119		
D007D009D011	M141	WA7890008967	0.004	9999	B119		
D007D010	M032	KSD007145956	13.44	2911	B207	A49	1
D007D010	M081	NYD980592497	0.212	3861	B009	A59	1
D007D010	M111	OKD000758557	4.455	3724	B106	A03	1
D007D010	M111	OKD000758557	1.359	3724	B113	A01	1
D007D011	M039	WA2170023418	0.25	9711			
D007D011	M039	WA9214053465	0.89	9711			
D007D011	M039	WA7890008967	0.06	9999			
D007D011	M039	WAD061670766	1,213.30	3728	B	A	1
D007D011	M039	WA7890008967	0.01	9999	B119		
D007D011	M039	WA7890008967	0.09	9999	B319		

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D007D011	M072	PAD059307553	54,600.00	3471	B114	A22	1
D007D011	M077	ALD982097073	754.545	3652	B101	A22	1
D007D011	M077	RID001198605	147.477	3229	B103	A49	1
D007D011	M122	NYD981138480	8.882	8221	B106	A37	1
D007D011	M129	WAD061670766	1,213.30	3728	B219		
D007D011	M137	TN3890090001	3.96				
D007D011	M141	WA7890008967	0.012	9999	B119		
D007D011	M141	WA9214053465	0.012	9711	B219		
D007D011	M141	WA7890008967	0.06	9999	B219		
D007D011	M141	WA7890008967	0.09	9999	B319		
D007D011	M141	WA2170023418	0.25	9711	B409		
D007D011	M141	WA9214053465	1.09	9711	B409		
D007D011	M141	WA9571924647	0.29	9711	B409		
D008	M011	MOD059200089	465.652	3339	B304	A72	1
D008	M012	WID006073225	604.034	3431	B319	A29	1
D008	M021	FLD000824938	0.08	2061	B203	A06	1
D008	M021	SCD052944295	4.33				
D008	M022	COD980591184	0.344				
D008	M022	TXD000782698	0.42		B203		
D008	M032	AZD981683683	0.085	4911	B219	A49	1
D008	M032	IAD005269527	354.252	3531	B206	A49	1
D008	M032	ILD056085863	85.326	3269	B319	A71	1
D008	M032	MED001094473	1.402	3663	B205	A49	1
D008	M032	WID006073225	135.552	3432	B106	A03	1
D008	M032	WID006073225	252.404	3432	B205	A40	1
D008	M032	PAD001502244	25.5	3554	B205	A40	1
D008	M032	UT0571724350	6.047	7538	B207	A59	1
D008	M039	TND002992287	8.829.40				
D008	M039	WAD009480823	0.01	3764			
D008	M039	WAD009480823	0.19	3764			1
D008	M039	WAD009249392	1.75	3812			1
D008	M039	WA8570024200	0.26	4581			
D008	M039	WA1891406349	5.636	4911			
D008	M039	WA1170023419	1.297	9711			
D008	M039	WA2170023418	796.916	9711			
D008	M039	WA4170090001	0.11	9711			
D008	M039	WA5170027291	1.85	9711			
D008	M039	WA9214053465	2.74	9711			
D008	M039	WA2170023418	414.65	9711			1
D008	M039	WA5170027291	12.83	9711			1
D008	M039	WA2170023418	1,003.73	9711			2
D008	M039	WA7890008967	0.993	9999			
D008	M039	WAD089343354	22.695.00	3672	B119		1
D008	M039	WAD070046743	21,079.00	3672	B119	A	1
D008	M039	WAD118965748	8.8	3679	B119		1
D008	M039	WAD050154525	1.1	4131	B119		1
D008	M039	WA2170023418	0.95	9711	B119		
D008	M039	WA7890008967	0.46	9999	B119		
D008	M039	WA1891406349	0.666	4911	B219		
D008	M039	WA2170023418	0.92	9711	B219		
D008	M039	WA7890008967	0.42	9999	B219		
D008	M039	WA8570024200	0.16	4581	B319		
D008	M039	WA1170023419	0.052	9711	B319		
D008	M039	WA2170023418	6.88	9711	B319		
D008	M039	WA2170023418	63.47	9711	B319		2
D008	M039	WA7890008967	3.93	9999	B319		
D008	M039	WA7890008967	0.33	9999	B409		
D008	M041	OHD004304689	7.574	2821			
D008	M041	OHD048415665	2.752	4953			
D008	M041	MND006172969	0.275		B	A	1
D008	M041	WVD004341491	10.4	2865	B206	A54	1
D008	M041	TXD981911209	53.42	2869	B206	A54	1
D008	M042	KYD006373922	114.095	2869	B302	A37	2
D008	M042	LAD000778514	0.8	9511	B206	A54	1
D008	M043	ILD006271696	74.962	3482	B319	A99	1
D008	M043	OHD048415665	38.738	4953			
D008	M043	NYD980592497	3.016	3861	B002	A09	1
D008	M043	NYD980592497	0.067	3861	B009	A59	1
D008	M043	NYD980592497	0.451	3861	B319	A21	1
D008	M049	NCD033999764	0	3999	B303	A57	1
D008	M049	TND003376928	2.41				

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D008	M049	TN4210020570	0.02				
D008	M049	TN8570024044	0.91				
D008	M051	TXD000803247	11.77	4231	B206	A54	1
D008	M061	COD980591184	13.887				
D008	M071	ILD083076018	79.65	3494	B114	A06	1
D008	M072	NCD003459336	5,391.36	3471	B103	A22	1
D008	M072	NYD002207256	129.316	3471	B107	A22	1
D008	M074	AR0000064311	6,580.26	3482	B114	A92	1
D008	M074	MDD003091972	63,019.18	3713	B119	A29	1
D008	M074	PAD002392827	1.278	3471	B107	A22	1
D008	M074	WID049991862	1,290.12	3679	B114	A22	1
D008	M077	AZT050010636	33,708.85	3451	B106	A27	1
D008	M077	ALD046481032	5,421.18	3341	B113	A72	1
D008	M077	ALD000652677	27.15	3585	B114	A32	1
D008	M077	AZT050010677	459.548	3672	B114	A05	1
D008	M077	AZD008399636	0.75	3764	B119	A22	1
D008	M077	AZD063274609	29.275	3672	B219	A49	1
D008	M077	COD022664429	34.195	3471	B103	A22	1
D008	M077	CAD008363962	37,425.28	3672	B103	A22	1
D008	M077	CAD046607511	828.161	3672	B103	A22	1
D008	M077	CAD059498428	82.569	3672	B103	A22	1
D008	M077	CAD982520421	982,912.97	3672	B103	A22	1
D008	M077	CAD983594870	9,726.34	3672	B103	A22	1
D008	M077	CAD077264737	10,842.37	3471	B105	A22	1
D008	M077	CAD016845414	2,627.19	3672	B105	A22	1
D008	M077	CAD028348498	94,952.46	3672	B105	A22	1
D008	M077	CAD982443517	23,443.47	3672	B105	A31	1
D008	M077	DED002369205	31,926.61	3711	B113	A06	1
D008	M077	CAD055764575	193.807	2819	B114	A09	1
D008	M077	CAD983614835	146.63	2819	B114	A09	1
D008	M077	CAD008358145	28,392.08	3471	B114	A22	1
D008	M077	CTD001170257	9,599.71	3471	B114	A22	1
D008	M077	CTD982543571	40.367	3483	B114	A19	1
D008	M077	CTD001183763	13,511.26	3672	B114	A06	1
D008	M077	CAD980893069	191	3672	B119	A01	1
D008	M077	CAD008344285	64,818.24	3672	B119	A05	1
D008	M077	CAD009111212	961.405	3469	B204	A40	1
D008	M077	CAD981632979	25.665	3691	B319	A57	1
D008	M077	IDD984669424	7,660.42	3482	B103	A49	1
D008	M077	ILD005149505	3.591	3672	B103	A01	1
D008	M077	ILD001899772	606.833	3679	B105	A22	1
D008	M077	IND000810903	18,569.64	3714	B105	A05	1
D008	M077	IND985104736	18,619.68	3714	B105	A05	1
D008	M077	IDD984666669	82.722	3482	B106	A03	1
D008	M077	IDD009066481	355,225.17	3482	B106	A19	1
D008	M077	IND057520868	11,380.60	3471	B114	A22	1
D008	M077	IAD040611121	46,959.17	3714	B114	A02	1
D008	M077	KSD065755100	43,687.42	3714	B114	A49	1
D008	M077	IAD096526108	47,476.74	3714	B119	A22	1
D008	M077	KSD065755100	1.845	3714	B206	A54	1
D008	M077	KYD079674016	1.85	3672	B219	A29	1
D008	M077	GA4170090001	3.725	9711	B519	A99	1
D008	M077	MND085114890	10.942	3669	B101	A29	1
D008	M077	NCD041230418	4,353.34	3471	B103	A22	1
D008	M077	NYD001612423	44,682.04	3499	B103	A22	1
D008	M077	NCD049842255	4	3672	B103	A05	1
D008	M077	MOD075888487	18,014.40	3672	B103	A22	1
D008	M077	NCD981014996	3,097.48	3678	B103	A22	1
D008	M077	NCD000615872	2,282.11	3678	B103	A31	1
D008	M077	MAD980730857	8.257	3841	B103	A19	1
D008	M077	MAD981204316	4.17	3672	B105	A05	1
D008	M077	NHD980671077	8,525.54	3672	B105	A22	1
D008	M077	MAD985275569	43.466	3471	B106	A03	1
D008	M077	NCD045646924	32,561.72	3471	B106	A22	1
D008	M077	MDD064846959	6.672	3672	B106	A01	1
D008	M077	NYD002241982	715.6	3672	B106	A01	1
D008	M077	MOD003537271	148.624	3672	B106	A29	1
D008	M077	NVD982467250	4,000.14	3714	B106	A03	1
D008	M077	MND006147268	386.781	3679	B113	A92	1
D008	M077	MID006021414	1,642.56	3714	B113	A89	1
D008	M077	NCD986186369	2,882.83	3262	B114	A75	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D008	M077	NJD002325074	3,802.62	3262	B114	A75	1
D008	M077	MND006147268	545.913	3679	B114	A22	1
D008	M077	MID038624508	157,404.95	3714	B114	A31	1
D008	M077	NCD980843866	212.67	8734	B114	A04	1
D008	M077	NYD001325661	207.786	2899	B119	A92	1
D008	M077	NED035093053	11,592.66	3676	B502	A22	1
D008	M077	TXD048916357	2.75				
D008	M077	TXD081543910	1.34		B103		
D008	M077	PAD981104110	11,414.00	3229	B105	A31	1
D008	M077	PAD054145842	125	3262	B105	A31	1
D008	M077	PAD092868793	31,518.57	3672	B105	A22	1
D008	M077	WID006073225	825.56	3471	B106	A03	1
D008	M077	WID982221350	7,980.24	3612	B106	A21	1
D008	M077	UTD056095334	19,623.69	3672	B113	A22	1
D008	M077	VTD002085108	87,673.06	3724	B113	A31	1
D008	M077	PAD044366003	6,005.00	3229	B119	A49	1
D008	M077	PAD000796334	1,442.00	3678	B119	A22	1
D008	M077	TX2571724333	11.04	9711	B207	A22	1
D008	M078	AZD982486169	52.4	3471	B103	A31	1
D008	M078	AZD982486169	104.8	3471	B106	A31	1
D008	M078	FL6890090008	28.351	3671	B114	A99	1
D008	M078	CAD021221304	8.353	3672	B114	A05	1
D008	M078	MND001037639	41.564	3672	B106	A91	1
D008	M078	NCD982077570	875.73	3262	B114	A92	1
D008	M078	MND000819292	867.389	3672	B114	A31	1
D008	M078	MND006147268	12,138.51	3679	B114	A06	1
D008	M078	PAD092868793	2,058.04	3672	B105	A22	1
D008	M081	NYD002241982	2,175.30	3672	B219	A06	1
D008	M081	NYD002241982	184.8	3672	B219	A19	1
D008	M083	TXD000461533	1,200.00	2869	B115	A09	1
D008	M091	CAD113295877	14.694	3429	B114	A31	1
D008	M091	NJD002385730	3,235,942.50	2869	B114	A63	1
D008	M092	CTD058509712	533.978	2892	B114	A19	1
D008	M092	NCD981744618	2.25	2869	B316	A89	1
D008	M092	TX7213821831	1,934.88	3483	B106	A09	1
D008	M094	CTD043036995	138.605	3672	B113	A49	1
D008	M094	NJD048608897	4.128	3672	B106	A01	1
D008	M101	CAT080010804	4.55	3679	B319	A29	1
D008	M101	LAD985224443	14.259	1799	B519	A03	1
D008	M101	MID099124349	80.803	2851	B519	A60	1
D008	M111	ALD000622464	4.37	4953	B219	A37	1
D008	M111	ALD046481032	25,835.28	3312	B304	A72	1
D008	M111	CAD982412165	36.7	3672	B403	A01	1
D008	M111	IND005081955	911.1	3432	B304	A40	1
D008	M111	IDD073114654	0.005	4953	B310	A53	2
D008	M111	GAT000001971	8	1622	B319	A21	1
D008	M111	IND064708845	244.35	3369	B319	A49	1
D008	M111	IND005081955	124.3	3432	B319	A29	1
D008	M111	NJD002385730	34.286	2869	B301	A99	2
D008	M111	NJD002385730	4.05	9511	B301	A99	2
D008	M111	NJD002385730	34.942	2869	B302	A99	2
D008	M111	NCD986181451	7,935.00	3253	B302	A64	2
D008	M111	NJD002385730	30.34	9511	B302	A08	2
D008	M111	ORD027615186	4,532.54	9999	B302	A61	2
D008	M111	LAD008184137	10,499.00	3341	B304	A72	1
D008	M111	MOD030712822	6,506.06	3341	B304	A72	1
D008	M111	NJD002385730	6.61	2869	B319	A99	1
D008	M112	GAD098583909	0.125	2824	B219	A57	1
D008	M112	ORD050955848	474.706	3339	B319	A49	1
D008	M112	VAD003444379	23.603	3499	B319	A78	1
D008	M119	IDD984673251	27.9	3643	B302	A69	2
D008	M121	AZD982486169	52.4	3471	B114	A31	1
D008	M121	NJD002173946	502.168	2892	B114	A75	1
D008	M121	WID038983532	112.235	3672	B103	A22	1
D008	M122	ID4890008952	3.665	8733	B113	A06	1
D008	M122	NED007257603	325.471	3482	B	A19	1
D008	M122	MID005390836	39.877	3432	B106	A05	
D008	M124	FLD980837744	75,913.66	3672	B119	A29	1
D008	M124	CAD009111212	1,025.69	3469	B204	A40	1
D008	M124	CTD001183763	2.877	3672	B207	A37	1
D008	M124	NYD055865125	184.066	3262	B114	A32	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D008	M124	OKD007194475	259.5	3494	B114	A40	1
D008	M124	NHD001078740	3,486.03	3366	B504	A29	1
D008	M124	WID044394757	9.109	3554	B205	A35	1
D008	M125	AZD009005422	2.01	3761	B114	A01	1
D008	M125	CA2890012923	0.211	9711	B119	A19	1
D008	M125	GAD984311860	5,387.52	3691	B119	A75	1
D008	M125	IAD980630487	5,040.00	2851	B301	A61	
D008	M125	ILD005266168	2.7	3021	B316	A49	1
D008	M125	OHD083377010	0.042	7389			
D008	M125	MID092947928	4.193		B	A	
D008	M125	MAD985290055	22.5	3369	B302	A40	1
D008	M125	MAD086534864	0.622	3841	B310	A71	3
D008	M125	TND987777695	0.28				
D008	M125	PAD002334373	679	3827	B105	A31	1
D008	M129	WAD070046743	21,079.00	3672	B119		
D008	M129	WAD118965748	8.8	3679	B119		
D008	M129	WAD009249392	1.75	3812	B219		
D008	M129	WAD009041443	10.55	2611	B319		
D008	M129	WAD980723738	92.44	5093	B319		1
D008	M132	NJD002385730	34.286	2869	B301	A99	2
D008	M132	NJD002385730	4.05	9511	B301	A99	2
D008	M132	NJD002385730	11.664	2869	B302	A53	2
D008	M132	NJD002385730	34.942	2869	B302	A99	2
D008	M132	NJD002385730	30.34	9511	B302	A08	2
D008	M132	MOD030712822	6,506.06	3341	B304	A72	1
D008	M132	OKD000829440	489.134	3339	B316	A99	1
D008	M132	NJD002385730	0.525	2869	B319	A59	1
D008	M132	NJD002385730	6.61	2869	B319	A99	1
D008	M132	NJD002385730	69.6	2869	B319	A56	2
D008	M132	TN2170022600	0.01				
D008	M132	TN8570024044	1.2				
D008	M135	NYD002026565	16,697.40	3711	B101	A92	1
D008	M135	MND095296364	3.24	3471	B106	A03	1
D008	M135	NMD097970065	4.631	3341	B119	A53	2
D008	M137	TND067690040	5,004.35				
D008	M137	TND982157570	0.92				
D008	M137	TND987783123	0.8				
D008	M137	TN0890090004	1.33				
D008	M137	TN1890090003	1.1				
D008	M137	TN3890090001	167.29				
D008	M137	TN8570024044	37.87				
D008	M137	WAD089343354	22,695.00	3672	B119		
D008	M141	ARD006354161	4.207	4953	B206	A54	2
D008	M141	GU4170090027	0.337	4225	B319	A58	1
D008	M141	WA2170023418	0.95	9711	B119		
D008	M141	WA7890008967	0.21	9999	B119		
D008	M141	WA1891406349	0.67	4911	B219		
D008	M141	WA1170023419	0.52	9711	B219		
D008	M141	WA2170023418	0.92	9711	B219		
D008	M141	WA9214053465	0.009	9711	B219		
D008	M141	WA7890008967	1.404	9999	B219		
D008	M141	WA1170023419	0.06	9711	B319		
D008	M141	WA2170023418	67.24	9711	B319		
D008	M141	WA9214053465	0.31	9711	B319		
D008	M141	WA7890008967	82.659	9999	B319		
D008	M141	WA1891406349	5.63	4911	B409		
D008	M141	WA1170023419	0.78	9711	B409		
D008	M141	WA2170023418	37.91	9711	B409		
D008	M141	WA9214053465	4.01	9711	B409		
D008	M141	WA9571924647	0.044	9711	B409		
D008	M141	WA7890008967	0.4	9999	B409		
D008	M141	WA9571924647	0.13	9711	B609		
D008	M999	WID003967148	0.2	9511	B302	A59	2
D008D009	M021	NYD096297544	22.754	2821	B203	A09	1
D008D009	M039	WA7890008967	0.25	9999			
D008D009	M039	WA7890008967	0.027	9999	B319		
D008D009	M039	WA7890008967	0	9999	B409		
D008D009	M137	TN0890090004	14.28				
D008D009	M137	TN3890090001	0.1				
D008D009	M141	MID092947928	0		B	A	
D008D009	M141	WA7890008967	0.027	9999	B319		

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D008D009	M141	WA7890008967	0	9999	B409		
D008D009D010D011	M039	WA5170027291	0.008	9711	B319		
D008D010	M039	WA7890008967	0.04	9999			
D008D010	M112	FLD984243097	118.966	4953	B304	A78	3
D008D010	M125	MID092947928	3.463		B	A	
D008D010	M137	TND981479777	8.97				
D008D010	M141	WA7890008967	0.042	9999	B219		
D008D010D011	M039	WA1170023419	0.2	9711	B319		
D008D010D011	M141	WA1170023419	0.2	9711	B319		
D008D011	M039	WA1170023419	0.11	9711	B319		
D008D011	M039	WA2170023418	0.02	9711	B319		
D008D011	M039	WA7890008967	0.24	9999	B319		
D008D011	M039	WA7890008967	0.06	9999	B409		
D008D011	M043	NYD980592497	0.133	3861	B310	A19	1
D008D011	M077	MAD063894786	26.841	3471	B106	A03	1
D008D011	M141	WA1170023419	0.11	9711	B319		
D008D011	M141	WA2170023418	0.016	9711	B319		
D008D011	M141	WA7890008967	0.24	9999	B319		
D008D011	M141	WA7890008967	0.06	9999	B409		
D009	M012	DED003913266	13	2812	B319	A56	1
D009	M012	TXD056263528	5				
D009	M012	TXD056263528	2.5	2812	B302	A60	1
D009	M014	LAD062666540	32.5	2812	B519	A36	1
D009	M032	MNT280010414	0.221	8221	B003	A94	1
D009	M032	LAD062666540	5	2812	B519	A36	1
D009	M039	TND003337292	25.8				
D009	M039	WAD009249392	0.04	3812			1
D009	M039	WA1891406349	0.03	4911			
D009	M039	WA2170023418	0.319	9711			
D009	M039	WA5170027291	0.003	9711			
D009	M039	WA9214053465	1.59	9711			
D009	M039	WA2170023418	0.73	9711			1
D009	M039	WA2170023418	0.28	9711			2
D009	M039	WA9214053465	0.11	9711			2
D009	M039	WA7890008967	1.285	9999			
D009	M039	WAD009252297	325,000.00	2611	B119	A	1
D009	M039	WA2170023418	0.03	9711	B119		
D009	M039	WA5170027291	0.024	9711	B119		
D009	M039	WA5170027291	0.99	9711	B119		1
D009	M039	WA7890008967	0.041	9999	B119		
D009	M039	WA1170023419	0	9711	B219	A	
D009	M039	WA7890008967	0.017	9999	B219		
D009	M039	WA1170023419	2.595	9711	B319		
D009	M039	WA2170023418	0.55	9711	B319		
D009	M039	WA5170027291	1.088	9711	B319		
D009	M039	WA9214053465	0.42	9711	B319		
D009	M039	WA7890008967	4.007	9999	B319		
D009	M039	WA7890008967	0.002	9999	B409		
D009	M041	OHD004304689	0.225	2821			
D009	M041	OHD048415665	1.95	4953			
D009	M041	UTD981552177	0.022	9999	B003	A94	1
D009	M043	OHD048415665	5.51	4953			
D009	M043	MID000724724	0.225	2899	B003	A94	1
D009	M043	NYD980592497	0.032	3861	B009	A59	1
D009	M043	UTD981552177	0.02	9999	B003	A94	1
D009	M044	WID000809012	0	8221	B701	A59	1
D009	M049	TN4210020570	1.46				
D009	M061	COD980591184	6.583				
D009	M074	GAD099303182	19,710.00	2812	B106	A04	1
D009	M077	KYD006370167	526,776.19	2812	B114	A49	1
D009	M077	ILD001899772	4.772	3679	B114	A92	1
D009	M077	NCD000648402	1,339.07	3692	B102	A69	2
D009	M077	TXD056263528	302,950.00		B113		
D009	M077	WID046536231	51,893.45	2812	B119	A89	1
D009	M078	GAD040690737	639,254.70	2819	B114	A63	2
D009	M081	NYD980592497	0.226	3861	B114	A09	1
D009	M081	NYD980592497	2.267	3861	B114	A57	1
D009	M091	NJD002385730	787,297.50	2869	B114	A63	1
D009	M111	ALD000622464	0.25	4953	B319	A89	1
D009	M125	ALD004019642	261,814.78	2812	B119	A75	1
D009	M125	CA2890012923	2.756	9711	B319	A59	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D009	M125	OHD083377010	0.149	7389			
D009	M125	MID092947928	0.716		B	A	
D009	M129	WAD009041443	0.05	2611			
D009	M129	WAD009249392	0.035	3812	B409		
D009	M132	IDD081830994	0.291	2819	B316	A58	1
D009	M132	OHD045243706	12	7389			
D009	M132	TND003337292	314.53				
D009	M132	TXD007330202	2	2869	B117	A53	1
D009	M132	WVD004325353	0.25	2869	B313	A59	1
D009	M132	WVD005005509	4.75	2879	B319	A99	1
D009	M137	TND003095635	0.11				
D009	M137	TND003337292	148.752.49				
D009	M137	TND003376928	41.13				
D009	M137	TN3890090001	146.19				
D009	M137	WAD009252297	325,000.00	2812	B119		
D009	M141	WA2170023418	0.044	9711	B119		
D009	M141	WA7890008967	0.04	9999	B119		
D009	M141	WA1170023419	0	9711	B219		
D009	M141	WA2170023418	1.142	9711	B219		
D009	M141	WA9214053465	2.17	9711	B219		
D009	M141	WA7890008967	0.109	9999	B219		
D009	M141	WA1170023419	2.6	9711	B319		
D009	M141	WA2170023418	0.72	9711	B319		
D009	M141	WA9214053465	3.506	9711	B319		
D009	M141	WA9571924647	0.15	9711	B319		
D009	M141	WA7890008967	3.889	9999	B319		
D009	M141	WA1891406349	0.033	4911	B409		
D009	M141	WA2170023418	0.58	9711	B409		
D009	M141	WA9214053465	0.16	9711	B409		
D009	M141	WA9571924647	0.09	9711	B409		
D009	M141	WA7890008967	0.056	9999	B409		
D009	M999	WID003967148	14.3	9511	B001	A59	2
D009D011	M039	WA7890008967	0.001	9999	B319		
D009D011	M141	WA9214053465	0.12	9711	B219		
D009D011	M141	WA7890008967	0.001	9999	B319		
D010	M039	WA9214053465	0.04	9711			
D010	M043	NYD980592497	0.036	3861	B307	A54	1
D010	M043	NYD980592497	0.008	3861	B319	A91	1
D010	M077	MND006175871	60.05	3471	B105	A22	1
D010	M101	PAD990753089	16,078.10	3341	B511	A78	1
D010	M122	MAD001003334	2.502	3471	B119	A22	1
D010	M137	TN3890090001	0.23				
D010	M141	WA9214053465	0.043	9711	B219		
D010	M141	WA7890008967	0	9999	B319		
D010D011	M014	NYD043835081	2.5	3843	B102	A37	1
D010D011	M039	WAD009249392	0.05	3812			1
D011	M011	TXD064972847	0.6	3341	B304	A72	1
D011	M014	AZD980816276	0.425	3483	B106	A37	1
D011	M014	AKD000643239	55.202	1311	B114	A99	1
D011	M014	FLD004104105	1.372	3812	B101	A49	1
D011	M014	CAD980737837	390.463	2711	B102	A59	1
D011	M014	FLD064824030	0.467	3761	B102	A29	1
D011	M014	FL6800014585	14.95	9661	B113	A37	1
D011	M014	CAD047791421	0.092	3499	B114	A31	1
D011	M014	FLD980841746	1.042	3674	B114	A37	1
D011	M014	CAD027828250	0.207	7996	B114	A37	1
D011	M014	CAD028878015	38.644	8062	B114	A37	1
D011	M014	CAD063110605	9.338	8733	B114	A72	1
D011	M014	CAT000618603	1.42	8734	B114	A99	1
D011	M014	FL2570024404	6.922	9711	B114	A49	1
D011	M014	CAD075301390	6.606	3324	B119	A99	1
D011	M014	CAD076243815	36.697	3369	B119	A99	1
D011	M014	FLD004100152	0.327	3663	B119	A37	1
D011	M014	CAT000613372	0.676	3672	B119	A49	1
D011	M014	CAD108148958	63	8062	B119	A37	1
D011	M014	CAT000617597	8	8221	B119	A37	1
D011	M014	CTD001159557	1.271	8711	B119	A72	1
D011	M014	FL2800016121	37.132	9711	B119	A31	1
D011	M014	CAD076124981	58	8062	B207	A49	1
D011	M014	FL8170023792	0.44	9711	B207	A37	1
D011	M014	CAD072518517	0.004	2835	B502	A72	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D011	M014	KYD074051202	23.581	8011	B101	A27	1
D011	M014	KY5170024173	1.705	9711	B101	A37	1
D011	M014	KYD068135516	22.522	8062	B103	A72	1
D011	M014	KYD006383665	12.359	2796	B114	A72	1
D011	M014	KYD074047556	21.138	3724	B114	A49	1
D011	M014	KYD068324037	17.351	2711	B119	A49	1
D011	M014	KYD981854987	32.25	8062	B119	A31	1
D011	M014	KYD985085166	33.985	8062	B119	A37	1
D011	M014	KYD985095140	3.169	8062	B119	A72	1
D011	M014	KYD985083625	10.675	8071	B119	A35	1
D011	M014	GA7360015450	7.6	9451	B119	A29	1
D011	M014	KY6210020479	28.126	9711	B119	A27	1
D011	M014	ID6890190089	0.092	8733	B219	A94	1
D011	M014	KYD980844757	3.211	2759	B307	A35	1
D011	M014	KYD130399363	24.25	8062	B307	A32	1
D011	M014	MND982425589	583.82	2711	B101	A29	1
D011	M014	NJD980772636	8.663	2711	B101	A49	1
D011	M014	MND006147102	14.941	2752	B101	A49	1
D011	M014	MND985684620	5.125	2752	B101	A49	1
D011	M014	MAD001014174	29.368	3555	B101	A49	1
D011	M014	NED986387041	22.055	7384	B102	A49	1
D011	M014	MND981536006	11.7	2752	B103	A49	1
D011	M014	MND006159149	5.995	2752	B103	A89	1
D011	M014	MAD041710609	0.834	3479	B103	A49	
D011	M014	MND990860470	0.513	3479	B103	A05	1
D011	M014	MND980700900	3.878	3672	B105	A37	1
D011	M014	NYD052782497	3	2711	B106	A31	1
D011	M014	MND985668227	114.679	3679	B106	A29	1
D011	M014	MAD980522585	1.084	3679	B106	A49	1
D011	M014	MOD985801380	107.568	3471	B108	A23	1
D011	M014	MAD001032358	13.761	1711	B113	A49	1
D011	M014	MND981089790	122.512	2731	B113	A72	1
D011	M014	NHD073976904	0.014	2295	B114	A49	1
D011	M014	MDD121338297	15.646	2711	B114	A31	1
D011	M014	MND006258115	4.5	2752	B114	A29	1
D011	M014	MND000819268	20	3489	B114	A99	1
D011	M014	MND079731519	3	3571	B114	A37	1
D011	M014	ORD049793995	0.938	7221	B114	A32	1
D011	M014	NYD981875461	7.989	7384	B114	A35	1
D011	M014	NYD000810986	0.375	8221	B114	A37	1
D011	M014	MS6210809871	1.124	9199	B114	A36	1
D011	M014	MND985667047	6	2752	B119	A49	1
D011	M014	MOD007131113	112.05	2771	B119	A72	1
D011	M014	MO4213820489	0.06	3482	B119	A49	1
D011	M014	MAD001027325	0.446	3629	B119	A37	1
D011	M014	MND058330473	1.251	3672	B119	A99	1
D011	M014	MAD086538394	7.59	3679	B119	A49	1
D011	M014	MED037719846	0.5	8062	B119	A35	1
D011	M014	NY6360010312	0.05	8062	B119	A37	1
D011	M014	MAD071723563	0.052	8062	B119	A94	1
D011	M014	NYD000799239	1.541	8221	B119	A94	1
D011	M014	MNT280010414	58.752	8221	B119	A99	1
D011	M014	ME9570024522	1.5	9711	B119	A72	1
D011	M014	NYD987000759	9.363	7384	B219	A37	1
D011	M014	MAD991289505	17.486	8069	B219	A99	1
D011	M014	NMD041358904	2.4	8221	B219	A94	1
D011	M014	MO3213720979	57.621	9711	B219	A49	1
D011	M014	MAD001411081	1,367.64	3679	B316	A72	1
D011	M014	MND980826457	0.456	9223	B319	A99	1
D011	M014	MO3213720979	0.085	9711	B409	A72	1
D011	M014	TX6213820529	22.89		B103		
D011	M014	VTD001075886	20.647	2732	B114	A31	1
D011	M014	PAD014299523	0.775	3993	B119	A49	1
D011	M014	TXD988079307	86.57	7384	B119	A99	1
D011	M014	WID981101165	0.377	8221	B119	A59	1
D011	M014	VAD000820712	4.798	8221	B119	A94	1
D011	M019	CAD008314908	21.626	3511	B119	A09	1
D011	M019	ID4890008952	0.021	8733	B114	A49	1
D011	M019	MND985703024	6.549	2752	B101	A35	1
D011	M019	ME7170022019	0.662	9711	B102	A72	1
D011	M019	NJD986614923	0.5	2752	B103	A29	

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D011	M019	MED985474576	2.669	7336	B105	A37	1
D011	M019	MND083467688	239.976	8011	B105	A99	1
D011	M019	WID980283394	0.337	8221	B219	A27	1
D011	M022	COD980591184	0.439				
D011	M032	IND005460373	7.524	2761	B105	A72	1
D011	M039	CAD000086686	1.109	3491	B119	A49	1
D011	M039	TND982095036	32.08				
D011	M039	WAD118965748	0.11	3679			
D011	M039	WAD982652828	10,500.00	3721			1
D011	M039	WAD009249392	0.69	3812			1
D011	M039	WAD041485301	3.33	8221			1
D011	M039	WA2170023418	0.013	9711			
D011	M039	WAD009480823	0.26	3764	B119		1
D011	M039	WAD009249392	0.11	3812	B119		1
D011	M039	WA8570024200	0.08	4581	B119		
D011	M039	WA2170023418	0.531	9711	B119		
D011	M039	WA7890008967	0.405	9999	B119		
D011	M039	WA7890008967	0	9999	B219		
D011	M039	WA7890008967	0.613	9999	B319		
D011	M039	WA7890008967	0	9999	B409		
D011	M043	NYD980592497	0.243	3861	B009	A59	1
D011	M043	NYD980592497	1.361	3861	B310	A32	1
D011	M043	NYD980592497	0.392	3861	B310	A49	1
D011	M043	NYD980592497	0.139	3861	B310	A78	1
D011	M043	NYD980592497	0.83	3861	B310	A99	1
D011	M061	COD980591184	0.614				
D011	M072	CTD001170257	5,239.36	3471	B107	A22	1
D011	M072	NJD002452324	11.376	3351	B107	A22	1
D011	M072	NCD003459336	12,579.84	3471	B107	A22	1
D011	M072	MOD000687525	81,900.00	3613	B107	A22	1
D011	M072	RID001200252	28,766.17	2819	B107	A31	1
D011	M072	PAD005032750	18,993.96	3471	B107	A22	1
D011	M072	RID001191931	154.295	3471	B107	A22	1
D011	M073	CAD008289183	8,991.24	3452	B107	A22	1
D011	M074	MAD001013515	1.251	3471	B107	A31	1
D011	M074	NYD002112399	3,502.92	3471	B114	A22	1
D011	M077	AZD009000050	0.584	3724	B105	A37	1
D011	M077	AZD980896310	2.252	3672	B119	A49	1
D011	M077	AZD008399636	3.422	3764	B119	A22	1
D011	M077	CAD092606102	2,919.10	3471	B107	A22	1
D011	M077	KS4213720499	7.105	711	B101	A37	1
D011	M077	IAD000819110	6,765.64	3613	B106	A22	1
D011	M077	IAD005272703	2,945.95	3613	B115	A05	1
D011	M077	MDD064846959	0.834	3672	B103	A29	1
D011	M077	MAD981203334	0.048	3672	B103	A37	1
D011	M077	MDD064846959	1.668	3672	B106	A29	1
D011	M077	NJD002461234	311.261	3559	B107	A22	1
D011	M077	MAD001419514	1,086.81	3053	B114	A23	1
D011	M077	PAD005032750	30,199.04	3471	B105	A22	1
D011	M077	PAD987270279	863.19	3499	B105	A22	1
D011	M077	RID987489473	15,929.54	3356	B106	A31	1
D011	M077	PRD090426180	750.6	3499	B106	A22	1
D011	M077	PAD000504175	204.33	3499	B110	A22	1
D011	M078	AZD981683683	0.037	4911	B119	A49	1
D011	M078	CAD982443517	2.002	3672	B106	A35	1
D011	M078	CTD000652206	1.646	3672	B110	A49	1
D011	M078	CAD109227496	1.389	3672	B113	A49	1
D011	M078	CTD001147842	405.7	3731	B113	A09	1
D011	M078	CAD079622569	0.167	3812	B114	A49	1
D011	M078	RI1170024243	41.7	9711	B119	A49	1
D011	M081	NYD980592497	0.424	3861	B009	A59	1
D011	M081	NYD980592497	1.484	3861	B119	A99	1
D011	M081	TXD047459029	0.02				
D011	M122	NYD077299246	7.048	2711	B106	A37	1
D011	M122	NYD982273955	35.446	2741	B106	A37	1
D011	M122	NYD092360635	30.025	2752	B106	A37	1
D011	M122	NYD982278079	8.841	2752	B106	A37	1
D011	M122	NYD986876621	7.256	2752	B106	A37	1
D011	M122	NYD980776827	16.681	3555	B106	A37	1
D011	M122	NYD986884286	43.578	3555	B106	A37	1
D011	M122	NYD982744039	20.851	7384	B106	A37	1

Waste Codes	Type	EPA-ID	Volume (tons)	SIC-Code	Form Code	Source Code	Origin Code
D011	M122	NYD982740342	30.025	8099	B106	A37	1
D011	M122	NYD986891869	14.595	8099	B106	A37	1
D011	M122	NYD986912558	9.1	2759	B110	A59	1
D011	M122	NM8800019434	2.193	9661	B119	A49	1
D011	M123	CAD008352916	23,570.87	3231	B114	A23	1
D011	M123	CAD981388408	0.09	8062	B307	A76	1
D011	M123	CAD981388408	0.552	8062	B519	A76	1
D011	M124	CAD981383573	0.73	4214	B114	A37	1
D011	M124	MND037335072	0.033	2835	B103	A35	1
D011	M125	CA2890012923	5.189	9711	B119	A49	1
D011	M125	KYD006380125	39.531	2796	B113	A89	1
D011	M125	OHD083377010	0.773	7389			
D011	M125	NCD000830737	3.037	8221	B113	A37	1
D011	M125	NVD986775781	14.25	8011	B119	A31	1
D011	M129	TN3890090001	10.11				
D011	M129	WAD009480823	0.26	3764	B119		
D011	M129	WAD017404625	2.52	3764	B119		
D011	M129	WAD009249392	0.49	3812	B119		
D011	M129	WAD009249392	0.31	3812	B219		
D011	M129	WAD041485301	0.12	8221	B219		
D011	M135	CAD980737837	19.517	2711	B204	A35	1
D011	M135	MND048166672	12.187	2043	B114	A29	1
D011	M137	TND044204568	336.4				
D011	M137	TN0890090004	0.59				
D011	M137	TN1890090003	13.26				
D011	M137	TN3890090001	9.51				
D011	M137	WAD982652828	10,500.00	7384	B219		
D011	M141	WA2170023418	1.57	9711	B119		
D011	M141	WA7890008967	0.381	9999	B119		
D011	M141	WAD041485301	2.28	8221	B219		
D011	M141	WA2170023418	0.7	9711	B219		
D011	M141	WA9214053465	0.025	9711	B219		
D011	M141	WA7890008967	0	9999	B219		
D011	M141	WA9214053465	0	9711	B319		
D011	M141	WA9571924647	0.001	9711	B319		
D011	M141	WA7890008967	0.359	9999	B319		
D011	M141	WA2170023418	0.03	9711	B409		
D011	M141	WA9214053465	0.37	9711	B409		
D011	M141	WA7890008967	0	9999	B409		

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D004	M141	VAD000819466	0.017	2111	B001	A94	1
D004	M043	WID096828744	0.075	2621	B001	A59	1
D004	M041	PAD002368892	0.057	2891	B001	A58	1
D004	M125	PAD004379061	0.01	3312	B001	A58	1
D004	M129	PAD063652820	0.007	3624	B001	A93	1
D004	M141	WID006112478	0.075	3931	B001	A22	1
D004	M049	WID988633756	0.175	7342	B001	A58	1
D004	M043	SDD987668134	0.185	8221	B001	A94	1
D004	M049	SDD987668134	0.005	8221	B001	A94	1
D004	M129	WID066881202	0.03	2841	B001	A59	2
D004	M999	WID003967148	216.117	9511	B001	A59	2
D004	M141	VAD003123072	0.232	3674	B002	A29	1
D004	M141	PAD982566341	0.057	8731	B002	A94	1
D004	M141	PRD118150317	0.175	2834	B003	A59	1
D004	M049	WVD060682291	0.093	2869	B003	A94	1
D004	M041	PAD021047584	0.035	3674	B003	A58	1
D004	M141	PAD071453302	0.01	8062	B003	A94	1
D004	M041	WID000809012	0.22	8221	B003	A59	1
D004	M041	WID988576146	0.02	8221	B003	A59	1
D004	M141	PAD042250712	0.013	8221	B003	A94	1
D004	M121	VA7213720082	0.005	9999	B004	A94	1
D004	M049	WID981534142	0.66	9511	B009	A79	3
D004	M039	PRD000691014	5.043	2835	B101	A09	1
D004	M061	TXD982758641	1.15	3674	B102	A29	1
D004	M137	TXD982758641	2.06	3674	B102	A29	1
D004	M141	TXD981050578	0.46	3827	B106	A03	1
D004	M049	WIT560012320	0.791	3089	B109	A09	2
D004	M079	PAD003038411	13.8	3479	B110	A03	1
D004	M119	PAD014249635	0.027	2899	B113	A58	1
D004	M079	WID006429005	1.38	2819	B114	A82	1
D004	M141	WID006429005	2.83	2819	B114	A82	1
D004	M141	TXD008073926	1.1	3674	B119	A09	1
D004	M141	TXD061555611	6.08	3674	B119	A09	1
D004	M079	PAD014416762	4.585	3691	B119	A37	1
D004	M091	PAD014416762	2.934	3691	B119	A37	1
D004	M014	TXD058958265	5.57	7699	B119	A22	1
D004	M141	UT3213820894	0.03	9711	B119	A58	1
D004	M079	PAD068570936	15.257	8221	B119	A55	2
D004	M141	PAD002334753	0.918	2821	B206	A54	1
D004	M061	TXD047830443	2.08	3674	B206	A54	1
D004	M111	PAD003037132	1.196	3086	B207	A41	1
D004	M125	TXD052486099	8.13	4213	B211	A19	1
D004	M061	VAD046991097	0.229	2824	B219	A58	1
D004	M111	PAD098439375	103.5	9999	B302	A69	2
D004	M132	VAD050990357	2.4	2911	B304	A59	1
D004	M111	PAD004326542	15	3229	B304	A19	2
D004	M111	PAD003044609	36.093	3399	B306	A72	1
D004	M119	PAD003044609	18.298	3399	B306	A72	1
D004	M053	WVD005005087	3.397	2869	B307	A09	1
D004	M043	VAD064872575	0.065	3571	B307	A57	1
D004	M019	VAD064872575	0.695	3571	B307	A72	1
D004	M141	PAD002389252	4.775	3674	B307	A08	1
D004	M141	TXD077424885	1.05	2821	B310	A32	1
D004	M141	VAD003123072	1.275	3671	B310	A78	1
D004	M141	TXD061555611	2.21	3674	B310	A08	1
D004	M043	TXD982556524	1.9	3674	B310	A29	1
D004	M141	TXD007321904	4.07	3674	B310	A29	1
D004	M141	TXD049038201	2.81	3674	B310	A49	1
D004	M132	PAD002336410	15.08	2819	B316	A32	1
D004	M141	PAD002336410	4.62	2819	B316	A32	1
D004	M079	WID006429005	0.35	2819	B316	A78	1
D004	M141	WID006429005	1.927	2819	B316	A78	1
D004	M132	TXD087491973	139.05	3331	B316	A32	1
D004	M141	TXD091693622	0.35	3674	B316	A29	1
D004	M141	PAD002327708	2.875	3674	B316	A56	1
D004	M077	PAD002327708	1.075	3674	B316	A91	1
D004	M111	PAD002327708	0.3	3674	B316	A91	1
D004	M053	TXD047830443	1.1	3674	B316	A99	1
D004	M141	VA8213720321	0	9711	B316	A58	1
D004	M061	PAD981111735	0.5	2813	B319	A91	1
D004	M141	PAD981111735	1.3	2813	B319	A91	1
D004	M043	WIT560011629	0.008	2821	B319	A58	1
D004	M132	WIT560011629	1.763	2821	B319	A58	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D004	M043	PAD004329835	19.8	2911	B319	A36	1
D004	M111	PAD980550594	117.3	2911	B319	A36	1
D004	M019	PAD980829287	0.001	3564	B319	A57	1
D004	M141	VAD003123072	0.275	3671	B319	A09	1
D004	M141	VAD003123072	0.15	3671	B319	A99	1
D004	M043	TXD096397211	3.26	3674	B319	A08	1
D004	M043	UTD073008237	0.997	3674	B319	A09	1
D004	M043	VTD002084705	1.839	3674	B319	A09	1
D004	M132	TXD095436747	0.23	3674	B319	A09	1
D004	M132	UTD073008237	0.3	3674	B319	A09	1
D004	M141	PAD003031846	0.5	3674	B319	A09	1
D004	M141	TXD008073926	4.26	3674	B319	A09	1
D004	M141	TXD095436747	0.09	3674	B319	A09	1
D004	M043	TXD980627111	2.24	3674	B319	A29	1
D004	M043	TXD988064564	2.24	3674	B319	A29	1
D004	M043	PAD021047584	0.1	3674	B319	A59	1
D004	M141	VAD003123072	0.05	3674	B319	A91	1
D004	M141	TXD981153174	0.25	3827	B319	A91	1
D004	M999	WAD009250820	0	2611	B319		2
D004	M999	WAD980836530	0.006	4931	B319		2
D004	M999	WAD988466942	0.8	6552	B319		2
D004	M132	UTD063314975	0.25	2911	B409	A32	1
D004	M141	WID006429005	6.35	2819	B410	A82	1
D004	M132	WID006105266	6.01	2013	B410	A82	2
D004	M053	TXD047830443	4.12	3674	B489	A92	1
D004	M141	VAD000019364	4.875	3621	B519	A49	1
D004	M141	VAD003123072	0.01	3671	B701	A58	1
D004	M999	WAD009253246	406.52	2812			2
D005	M141	VAD000819466	0.006	2111	B001	A94	1
D005	M041	PRD091197301	0.006	2834	B001	A58	1
D005	M043	WID076151364	0.1	2834	B001	A59	1
D005	M141	WID084106137	0.018	2869	B001	A59	1
D005	M043	WVD004325353	0	2869	B001	A94	1
D005	M141	PAD000766063	0.083	3312	B001	A58	1
D005	M141	VAD000019364	0.03	3621	B001	A58	1
D005	M043	PRD091150060	0.017	3663	B001	A94	1
D005	M049	WID982650160	0.001	8221	B001	A58	1
D005	M999	WID003967148	66.24	9511	B001	A59	2
D005	M049	WVD060682291	0.039	2869	B003	A94	1
D005	M141	PAD002348324	0	2899	B003	A94	1
D005	M043	PAD021047584	0.005	3674	B003	A58	1
D005	M141	PAD020068383	0.005	8062	B003	A94	1
D005	M141	PAD071453302	0.005	8062	B003	A94	1
D005	M041	WID980283394	0.188	8221	B003	A59	1
D005	M049	WID982650160	0.007	8221	B003	A59	1
D005	M141	PAD042250712	1.553	8221	B003	A94	1
D005	M061	VAD003109444	79.9	3086	B101	A59	1
D005	M129	PAD004393468	2.5	3312	B106	A25	1
D005	M141	PAD021052329	2.5	3679	B113	A21	1
D005	M121	WID000808584	4.587	3531	B114	A60	1
D005	M041	VAD982573248	20.9	3675	B114	A09	1
D005	M129	SD2571924644	0.168	9711	B114	A59	1
D005	M039	VA7213720082	0.004	9999	B117	A57	1
D005	M019	PAD980829287	2.847	3714	B119	A57	1
D005	M999	WA7890008967	0.03	9999	B119		1
D005	M141	UT3213820894	0.007	9711	B202	A58	1
D005	M041	RI8170024790	3.282	9199	B206	A54	1
D005	M061	UT9210020922	0.287	9711	B207	A58	1
D005	M111	PAD004322863	0.4	3317	B209	A58	1
D005	M141	VA5170000181	0.146	3731	B209	A21	1
D005	M061	UTD001705029	0.645	3764	B210	A57	1
D005	M111	PAD082038480	0.22	4789	B211	A21	1
D005	M061	PAD987401221	0.705	3599	B219	A41	1
D005	M019	PAD980829287	82.782	3714	B219	A57	1
D005	M141	PAD980829287	0.8	3714	B219	A59	1
D005	M141	VAD988186110	0.315	3731	B219	A58	1
D005	M141	VAD988186110	0.01	3731	B219	A59	1
D005	M061	WVD001863679	0.42	4011	B219	A99	1
D005	M141	PA5213820892	0.006	9999	B219	A58	1
D005	M999	WA8570024200	0.01	4581	B219		2
D005	M099	PR2170027203	0.125	9711	B219	A93	2
D005	M111	PAD082248972	15.456	3315	B304	A09	1
D005	M141	PAD004322913	0.11	2819	B306	A57	1

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D005	M043	WIT560011629	0.026	2821	B306	A69	1
D005	M043	TX8571524091	0.06	3585	B306	A58	1
D005	M141	PAD003031903	0.05	3559	B307	A58	1
D005	M043	VAD043519248	0.175	4789	B307	A08	1
D005	M132	TXD088474663	262	2911	B310	A57	1
D005	M141	VTD055731038	0.133	3423	B310	A55	1
D005	M141	PAD980712525	1.525	3676	B310	A29	1
D005	M141	PAD980712525	0.175	3676	B310	A78	1
D005	M141	PAD014249635	0.456	2899	B316	A58	1
D005	M077	PAD002344315	1	3312	B316	A25	1
D005	M111	PAD057629479	3.75	3312	B316	A25	1
D005	M111	UTD092024934	8.865	3339	B316	A56	1
D005	M111	PAD086733540	7.2	3351	B316	A25	1
D005	M141	WID006075634	0.375	3400	B316	A26	1
D005	M141	VTD001080126	7.495	3423	B316	A25	1
D005	M132	PAD000797506	1.75	3466	B316	A58	1
D005	M132	VTD001089226	11.232	3541	B316	A25	1
D005	M111	WID068321405	50.043	3545	B316	A26	1
D005	M141	PAD005000500	0.328	3613	B316	A25	1
D005	M141	VTD002065654	0.084	3648	B316	A58	1
D005	M111	VAD001307495	0.205	3731	B316	A59	1
D005	M132	PAD004322913	7.612	3842	B316	A94	1
D005	M111	PAD000731505	4.908	9999	B316	A69	2
D005	M111	PAD003044609	1.784	2819	B319	A32	1
D005	M132	WVD060682291	0.2	2869	B319	A36	1
D005	M111	WID006073225	3	3261	B319	A58	1
D005	M141	PAD002103174	8.1	3399	B319	A57	1
D005	M141	VTD055731038	0.2	3423	B319	A29	1
D005	M141	PAD002395325	0.345	3671	B319	A29	1
D005	M141	PAD981947294	0.7	3671	B319	A29	1
D005	M111	PAD043882323	166.324	3675	B319	A29	1
D005	M019	PAD043882323	37.627	3675	B319	A57	1
D005	M132	WID055302731	14.355	3675	B319	A57	1
D005	M111	PAD046762258	14.4	3676	B319	A57	1
D005	M019	PAD980829287	72.502	3714	B319	A57	1
D005	M043	PRD000003400	0.058	3841	B319	A57	1
D005	M043	PRD090413568	0.147	3841	B319	A57	1
D005	M125	TXD988043469	1	4512	B319	A99	1
D005	M132	WID088878533	0.871	3396	B404	A58	1
D005	M061	PAD004388500	76.84	2843	B406	A32	1
D005	M043	PAD987401221	1.512	3599	B409	A41	1
D005	M141	VA1170024813	0.057	3731	B409	A59	1
D005	M999	WAD009285602	0.05	3559	B409		2
D005	M041	WID059972935	2.185	2821	B410	A32	1
D005	M053	WID059972935	231.666	2821	B410	A32	1
D005	M053	TXD041067638	105.49	2869	B489	A32	1
D005	M132	TXD041067638	458.45	2869	B489	A32	1
D005	M053	WID059972935	6.195	2851	B504	A76	3
D005	M042	WID006080683	4.519	3469	B604	A09	1
D005	M141	WID006091417	0.525	8741	B604	A59	1
D005	M999	WA2170023418	0.27	9711			1
D005	M999	WA5170027291	0.09	9711			1
D005	M999	WAD009052432	0.038	2611			2
D005	M999	WAD009250820	0.65	2611			2
D006	M061	PAD041731670	0.135	2816	B001	A94	1
D006	M041	WID006121347	0.012	3639	B001	A56	1
D006	M019	VA7213720082	0.013	9999	B001	A57	1
D006	M999	WID003967148	329.049	9511	B001	A59	2
D006	M141	PAD000798132	0.022	4911	B002	A55	1
D006	M019	WVD088911854	0.015	2821	B003	A94	1
D006	M049	WVD060682291	0.004	2869	B003	A94	1
D006	M141	PA4170022418	0.009	3731	B003	A55	1
D006	M141	PAD002316305	0.005	3769	B003	A94	1
D006	M141	WID086686003	0.001	3844	B003	A69	1
D006	M043	PA4170000158	0.2	4581	B003	A22	1
D006	M141	VTD060525151	0.035	8062	B003	A55	1
D006	M141	WID980904452	0.002	8221	B003	A57	1
D006	M141	WID000809012	0.068	8221	B003	A59	1
D006	M141	VAD074747908	0.03	8221	B003	A94	1
D006	M039	VA7213720082	0	9999	B004	A57	1
D006	M011	VAD988210621	0	3443	B009	A58	1
D006	M141	PAD002161685	0.165	3469	B009	A22	1
D006	M039	VTD002084705	0.043	3674	B009	A55	1

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D006	M141	WID982650160	0.001	8221	B009	A55	1
D006	M011	WID006102545	0.005	3524	B009	A55	2
D006	M021	PAD003036365	0.12	2099	B101	A07	1
D006	M077	PAD000824730	1.2	2821	B101	A05	1
D006	M074	RID987479003	12.51	4911	B101	A09	1
D006	M077	RID987479003	37.114	4911	B101	A09	1
D006	M111	RID987479003	26.856	4911	B101	A09	1
D006	M099	PAD000765982	0.2	4911	B102	A21	1
D006	M019	WY5571924179	0.129	3761	B103	A23	1
D006	M141	WID006112478	0.125	3931	B103	A22	1
D006	M121	VA4570024477	0.184	9199	B103	A57	1
D006	M141	WID006105266	0.102	2013	B106	A07	1
D006	M079	WID006070205	0.284	3634	B106	A03	1
D006	M029	WID006078141	0.247	3699	B106	A03	1
D006	M077	PAD002602209	0.021	3843	B106	A01	1
D006	M141	PAD002602209	0.242	3843	B106	A01	1
D006	M061	PAD037235116	3.899	4011	B106	A03	1
D006	M141	WID981001878	0.423	7538	B106	A19	1
D006	M042	TX2571524105	0.02	9711	B106	A19	1
D006	M032	WID139773543	7.33	3312	B113	A51	1
D006	M999	WID139773543	16.72	3312	B113	A51	1
D006	M079	VAD981045537	0.7	3471	B113	A01	1
D006	M079	VAD003132438	3.63	3577	B113	A22	1
D006	M121	TX2571524105	0.69	9711	B113	A02	1
D006	M132	TX2571524105	0.22	9711	B113	A02	1
D006	M137	TX2571524105	0.23	9711	B113	A02	1
D006	M999	WID085477925	0.75	3554	B114	A22	1
D006	M079	VAD003132438	2.547	3577	B114	A01	1
D006	M079	VAD003132438	0.688	3577	B114	A49	1
D006	M078	PRD090031410	5.5	3625	B114	A19	1
D006	M141	PRD090031410	3.2	3625	B114	A19	1
D006	M079	RID001620210	0.252	3471	B119	A01	1
D006	M077	WID066892498	0.229	3613	B119	A31	1
D006	M079	PAD000765982	1.187	4911	B119	A56	1
D006	M043	VTD000636449	0.12	8221	B119	A94	1
D006	M141	VTD000636449	0.02	8221	B119	A94	1
D006	M141	VA8170024170	1.49	9711	B119	A29	1
D006	M079	VAD054039961	0.209	3714	B119	A69	2
D006	M141	VA6170061463	0.24	9711	B119	A53	2
D006	M041	PAD982674863	7.343	4512	B201	A75	1
D006	M141	WID055302756	0.288	2752	B202	A09	1
D006	M141	WID114105091	0.479	2752	B202	A09	1
D006	M141	WID981091531	0.848	2752	B202	A09	1
D006	M051	WID004939831	0.355	3221	B203	A19	1
D006	M141	WID006119812	0.126	3317	B203	A19	1
D006	M039	WID048027734	0.087	3321	B203	A19	1
D006	M141	WID006133441	0.076	3321	B203	A19	1
D006	M021	WID028877074	0.245	3399	B203	A19	1
D006	M029	WID006075634	0.129	3400	B203	A19	1
D006	M029	WID068315373	0.017	3471	B203	A19	1
D006	M029	PAD002343200	0.017	3996	B203	A19	1
D006	M021	VA6690500909	0.182	4581	B203	A19	1
D006	M141	WID006091417	0.061	8741	B203	A19	1
D006	M021	PAD114942832	0.175	9711	B203	A05	1
D006	M021	VA1170024722	2.046	9711	B203	A05	1
D006	M141	PAD002282341	0.056	3411	B204	A19	1
D006	M141	WID006126379	0.155	3548	B204	A05	1
D006	M141	WID050262641	0.077	5511	B204	A19	1
D006	M061	PAD004372363	29.7	3339	B205	A49	1
D006	M141	PAD003037934	0.825	3592	B205	A29	1
D006	M041	WID006091045	12.902	3523	B206	A89	1
D006	M061	PAD114942832	0.778	9711	B206	A37	1
D006	M021	WID988567533	0.069	3511	B207	A69	1
D006	M141	VA6170061463	0.324	9711	B207	A04	1
D006	M141	PAD981111537	0.75	3714	B209	A09	1
D006	M029	WID001854454	0.283	2511	B211	A19	1
D006	M029	PAD002602076	0.084	2754	B211	A06	1
D006	M021	PAD003026531	0.187	3312	B211	A05	1
D006	M024	WID000808287	0.174	3321	B211	A05	1
D006	M029	WID066857640	0.05	3692	B211	A06	1
D006	M141	WID006069710	0.02	3824	B211	A09	1
D006	M029	WID023350903	0.231	5511	B211	A19	1
D006	M141	WID076151364	0.02	2834	B219	A19	1

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D006	M141	PAD096837356	5.307	3721	B219	A22	1
D006	M141	WID982650160	0.082	8221	B219	A02	1
D006	M141	VA6170061463	1.336	9711	B219	A19	1
D006	M999	WA7890008967	0.22	9999	B219		1
D006	M141	PAD003418746	0.036	2679	B219	A19	2
D006	M141	VA1170024813	0.69	3731	B301	A99	1
D006	M141	PAD041552829	20	3996	B301	A65	2
D006	M132	WVD005005483	0.5	2869	B302	A99	1
D006	M119	VAD007941644	0.7	4011	B302	A99	1
D006	M119	PR2170027203	4.5	9711	B302	A29	1
D006	M111	WVD988785150	32	3229	B302	A69	2
D006	M132	WVD988785150	32	3229	B302	A69	2
D006	M119	VAD054039961	30.41	3714	B302	A69	2
D006	M141	TX3213820738	0.01	9999	B302	A69	2
D006	M119	WID006091425	1.8	2842	B303	A57	1
D006	M141	VAD046964748	0.4	3585	B303	A71	1
D006	M111	SDD006198980	0.35	3069	B304	A57	1
D006	M013	PAD987278082	187.862	3341	B304	A78	1
D006	M111	TXD054385018	122	3691	B305	A75	1
D006	M132	PAD075485938	0.08	3479	B307	A56	1
D006	M043	VAD002352110	1.25	3494	B307	A29	1
D006	M141	VAD982574113	0.25	3599	B307	A38	1
D006	M043	PAD046558037	0.03	3613	B307	A93	1
D006	M111	PAD980917975	0.05	3674	B307	A29	1
D006	M141	VA1170024813	1.275	3731	B307	A01	1
D006	M141	VA5170000181	0.707	3731	B307	A29	1
D006	M132	PRD980650709	1.3	3961	B307	A60	1
D006	M132	WID054105218	13.46	3429	B307	A56	2
D006	M111	PAD004333860	0.15	3443	B307	A99	2
D006	M141	VAD058909250	0.3	3679	B307	A93	2
D006	M111	PAD005033055	0.3	3743	B307	A56	2
D006	M141	VAD000819466	0.012	2111	B309	A55	1
D006	M141	VAD010067171	0.15	2111	B309	A58	1
D006	M011	PAD002387926	1.046	2834	B309	A49	1
D006	M132	TXD065096273	0.79	2869	B309	A55	1
D006	M141	VAD000019364	0.03	3621	B309	A55	1
D006	M019	PRD091150060	7.16	3663	B309	A99	1
D006	M011	VAD066000993	0.085	3672	B309	A55	1
D006	M011	WID059980045	0.447	3711	B309	A55	1
D006	M013	VAD001307495	2.75	3731	B309	A55	1
D006	M141	VA1170024813	0.251	3731	B309	A55	1
D006	M019	PAD003025418	0.1	3795	B309	A55	1
D006	M011	PAD981036551	0.6	3829	B309	A57	1
D006	M141	PAD000797951	0.037	4911	B309	A55	1
D006	M141	VAD988171567	2.295	5093	B309	A99	1
D006	M141	VAD988204822	1.055	5093	B309	A99	1
D006	M039	VA0572890002	0.014	9711	B309	A55	1
D006	M129	SD2571924644	0.814	9711	B309	A55	1
D006	M129	VA8213720321	0.432	9711	B309	A55	1
D006	M141	TX2571724333	0.71	9711	B309	A55	1
D006	M141	UT3213820894	1.024	9711	B309	A55	1
D006	M141	VA5170022482	0.047	9711	B309	A55	1
D006	M141	VA6170061463	0.522	9711	B309	A55	1
D006	M141	VA8170024170	0.297	9711	B309	A55	1
D006	M019	UT9210020922	0.042	9711	B309	A58	1
D006	M039	VA7213720082	0.001	9999	B309	A55	1
D006	M141	VTD002065597	0.05	3692	B309	A55	2
D006	M019	PAD173472788	0.35	4922	B309	A55	2
D006	M019	WVD988784765	0.4	4922	B309	A55	2
D006	M029	PAD987279049	0.15	4922	B309	A55	2
D006	M141	PAD068570936	1.75	8221	B309	A55	2
D006	M132	PAD987276573	4.8	3315	B310	A02	1
D006	M043	WID006101695	0.45	3366	B310	A78	1
D006	M111	PAD003044609	0.118	3399	B310	A32	1
D006	M141	PA5213820892	0.011	3471	B310	A22	1
D006	M132	PRD090531104	0.45	3613	B310	A09	1
D006	M141	VAD000019364	0.45	3621	B310	A72	1
D006	M129	RID980671887	0.2	3822	B310	A78	1
D006	M141	TXD981050578	0.34	3827	B310	A78	1
D006	M129	UT5210090002	0.659	9711	B310	A09	1
D006	M141	VA6170061463	0.008	9711	B310	A22	1
D006	M129	UT0571724350	0.1	9711	B310	A53	1
D006	M111	PAD002294585	0.856	3444	B312	A29	1

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D006	M041	WID000808147	2.884	2865	B316	A32	1
D006	M119	WID980584114	16.675	3471	B316	A22	1
D006	M111	PAD987360047	0.125	3499	B316	A78	1
D006	M111	WID006121347	0.338	3639	B316	A56	1
D006	M141	PA3170022104	0.008	4225	B316	A55	1
D006	M111	PAD005029582	2.9	5047	B316	A22	1
D006	M141	VA6170061463	0.189	9711	B316	A22	1
D006	M111	PAD003044609	9.092	2819	B319	A57	1
D006	M111	PAD003044609	4.952	2819	B319	A59	1
D006	M111	PAD003044609	7.743	2819	B319	A99	1
D006	M132	WVD060682291	0.4	2869	B319	A59	1
D006	M111	TXD008091290	0.89	2911	B319	A19	1
D006	M111	PAD051146116	19.03	3325	B319	A78	1
D006	M119	PAD981044399	0.55	3341	B319	A78	1
D006	M132	WID006101695	68.05	3351	B319	A19	1
D006	M132	WID006101695	9.06	3366	B319	A56	1
D006	M043	PA5213820892	0.176	3449	B319	A08	1
D006	M141	PA5213820892	1.697	3449	B319	A08	1
D006	M141	PA5213820892	6.409	3449	B319	A91	1
D006	M111	RID001620210	1.2	3471	B319	A53	1
D006	M999	WAD000064642	0.08	3499	B319		1
D006	M141	VAD000019364	1.4	3621	B319	A19	1
D006	M111	PAD980917975	0.075	3674	B319	A08	1
D006	M141	TXD007321904	0.63	3674	B319	A56	1
D006	M111	VAD003259561	2.7	3728	B319	A19	1
D006	M141	PAD000441907	0.25	3728	B319	A29	1
D006	M141	VA1170024813	0.21	3731	B319	A29	1
D006	M999	WAD033606203	0.01	3825	B319		1
D006	M119	RID000652354	1.41	3961	B319	A89	1
D006	M119	PAD080719289	15.383	4512	B319	A29	1
D006	M999	WA8570024200	0.03	4581	B319		1
D006	M132	WID007862964	51.86	5093	B319	A78	1
D006	M141	VA8800010763	0.225	9661	B319	A08	1
D006	M999	WA2170023418	0.18	9711	B319		1
D006	M141	VA6170061463	5.11	9711	B319	A22	1
D006	M111	VA6170061463	18.17	9711	B319	A29	1
D006	M132	VA6170061463	23.13	9711	B319	A29	1
D006	M141	VA6170061463	27.396	9711	B319	A29	1
D006	M119	PAD987356649	12.142	9999	B319	A29	1
D006	M141	UT1570090018	0.317	9999	B319	A29	1
D006	M132	PAD987332897	11.86	2816	B319	A56	2
D006	M999	WAD009276197	0.29	2911	B319		2
D006	M132	PAD080635311	36.6	3334	B319	A59	2
D006	M049	RID030284293	0.125	3674	B319	A57	2
D006	M999	WAD061670766	1.64	3728	B319		2
D006	M999	WAD980981583	0	9621	B319		2
D006	M111	PAD002124360	3.25	3494	B403	A58	1
D006	M125	VA6170061463	20	9711	B404	A75	3
D006	M061	PAD114942832	0.298	9711	B409	A08	1
D006	M111	PAD114942832	0.294	9711	B409	A08	1
D006	M125	PAD114942832	0.642	9711	B409	A08	1
D006	M132	UT0571724350	0.069	9711	B409	A53	1
D006	M141	TXD008076846	0.03	2869	B489	A59	1
D006	M132	TXD982562969	36.43	7699	B490	A29	1
D006	M101	PAD980832307	18.35	3444	B504	A22	1
D006	M141	PAD987362746	9.382	7699	B504	A60	3
D006	M141	PAD003009461	0.4	3678	B506	A22	1
D006	M043	TXD980874200	11.39	3494	B510	A19	1
D006	M132	RID001191055	3.625	3961	B511	A29	1
D006	M141	VA5170000181	0.026	3731	B603	A09	1
D006	M141	WID042622274	0.275	7694	B603	A60	1
D006	M141	VA8170024170	0.114	9711	B603	A60	1
D006	M061	TXD021940416	11.39	3585	B609	A09	1
D006	M999	WA2170023418	1.37	9711			1
D006	M021	WID000805887	0.03	9999		A89	1
D006	M999	WAD980738033	1.67	2421			2
D007	M999	WA1170023419	0.33	9711	B	A	2
D007	M043	WID096828744	0.225	2621	B001	A59	1
D007	M141	PAD043394683	0.1	2819	B001	A58	1
D007	M043	PRD091197301	0.003	2834	B001	A58	1
D007	M013	TX8571524091	11.21	4581	B001	A27	1
D007	M041	TX8571524091	3.52	4581	B001	A27	1
D007	M061	TX8571524091	3.25	4581	B001	A27	1

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D007	M111	TX8571524091	5.51	4581	B001	A27	1
D007	M121	TX8571524091	1.74	4581	B001	A27	1
D007	M141	PAD000797951	0	4911	B001	A57	1
D007	M141	VA6170061463	0.029	9711	B001	A58	1
D007	M999	WID003967148	1,637.26	9511	B001	A59	2
D007	M129	WID053691283	1.35	3483	B002	A89	1
D007	M049	WVD060682291	0.121	2869	B003	A94	1
D007	M049	WID066892498	0.214	3613	B003	A58	1
D007	M041	PAD021047584	0.03	3674	B003	A58	1
D007	M061	PAD981730633	0.005	3679	B003	A58	1
D007	M043	PAD000441907	0.035	3728	B003	A21	1
D007	M141	PAD000621508	0.023	3769	B003	A94	1
D007	M141	PAD001680719	0.1	3769	B003	A94	1
D007	M141	PAD002316305	0.531	3769	B003	A94	1
D007	M141	PAD020068383	0.005	8062	B003	A94	1
D007	M043	WID980904452	0.005	8221	B003	A21	1
D007	M041	WID000809012	0.24	8221	B003	A59	1
D007	M041	WID980283394	0.05	8221	B003	A59	1
D007	M041	WID980904452	0.04	8221	B003	A59	1
D007	M141	PAD042250712	0.018	8221	B003	A94	1
D007	M132	TXD026040709	0.15	2869	B004	A59	1
D007	M039	VA7213720082	0.016	9999	B004	A57	1
D007	M079	WID006091003	33.797	3568	B101	A57	1
D007	M141	PAD000621508	1.425	3769	B101	A37	1
D007	M043	TXD980866990	0.55	3823	B101	A21	1
D007	M109	PAD003032190	69.7	3829	B101	A21	1
D007	M141	PRD980764401	0.2	2834	B102	A99	1
D007	M071	PAD043891530	60.44	3229	B102	A22	1
D007	M019	WY5571924179	0.425	3761	B102	A57	1
D007	M141	PAD002316305	3.957	3769	B102	A99	1
D007	M141	RID001463090	0.459	3812	B102	A01	1
D007	M129	SD2571924644	7.582	9711	B102	A04	1
D007	M141	VA5170022482	0.382	9711	B102	A22	1
D007	M071	WID108294281	0.85	3492	B102	A56	2
D007	M049	WVD060682291	1.749	2869	B103	A02	1
D007	M141	PAD004379061	4.5	3312	B103	A29	1
D007	M077	PAD002324978	37.686	3316	B103	A22	1
D007	M141	PAD002368066	3.375	3444	B103	A02	1
D007	M011	RID987473022	4.541	3471	B103	A22	1
D007	M141	WID980570113	0.12	3471	B103	A22	1
D007	M071	WID006102545	1,450.56	3524	B103	A29	1
D007	M132	WVD157634379	0.262	3531	B103	A02	1
D007	M089	PAD046558037	0.4	3613	B103	A29	1
D007	M141	TXD007321904	0.19	3674	B103	A27	1
D007	M132	WID006092555	0.275	3714	B103	A56	1
D007	M132	TXD980626006	1.62	3721	B103	A29	1
D007	M053	TXD063067466	29.9	3724	B103	A22	1
D007	M121	VTD002068070	0.506	3728	B103	A29	1
D007	M141	UTD980806236	0.813	3764	B103	A27	1
D007	M129	PAD002282556	0.66	3823	B103	A27	1
D007	M041	RID000001750	0.237	3829	B103	A22	1
D007	M099	UTD988079042	0.229	4225	B103	A69	1
D007	M141	VA6170061463	0.664	9711	B103	A02	1
D007	M141	VA6170061463	0.004	9711	B103	A27	1
D007	M141	VA6170061463	6.048	9711	B103	A29	1
D007	M141	VA6170061463	0.073	9711	B103	A94	1
D007	M071	PAD000766162	0.229	2514	B103	A56	2
D007	M141	PAD000766162	12.969	2514	B103	A56	2
D007	M011	PAP000006331	58.47	9999	B103	A56	2
D007	M071	PAP000006331	9.055	9999	B103	A56	2
D007	M141	PAD071457469	0.2	9999	B103	A61	2
D007	M031	WID046535936	1.594	3592	B104	A22	1
D007	M141	VA3211220931	0.09	3861	B104	A27	1
D007	M141	VA6170061463	0.029	9711	B104	A22	1
D007	M071	VAD093561959	218.091	2796	B105	A22	1
D007	M125	PAD987322286	1.8	2851	B105	A31	1
D007	M077	PAD004322509	120.405	3312	B105	A26	1
D007	M011	PAD002392827	47.054	3471	B105	A22	1
D007	M072	WID006090732	1.251	3471	B105	A22	1
D007	M141	WVD113433296	0.25	3471	B105	A22	1
D007	M041	PAD021047584	1	3674	B105	A59	1
D007	M091	PAD075995803	421.115	4911	B105	A02	1
D007	M121	TX2571524105	9.6	9711	B105	A02	1

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D007	M041	PAP000006909	5.046	9999	B105	A61	2
D007	M119	WVD000797480	1.149	3423	B106	A22	1
D007	M119	WID980792063	23.325	3446	B106	A21	1
D007	M011	RID987473022	0.273	3471	B106	A01	1
D007	M111	PAD980715502	59.7	3471	B106	A03	1
D007	M071	VAD003259561	20.16	3471	B106	A22	1
D007	M111	WIT560010746	0.034	3471	B106	A22	1
D007	M071	PAD981108210	128.278	3499	B106	A29	1
D007	M111	WID006097109	1.594	3625	B106	A03	1
D007	M043	TXD039045968	0.32	3721	B106	A03	1
D007	M141	VA1170024813	0.045	3731	B106	A22	1
D007	M011	PAD987388303	62.547	3999	B106	A01	1
D007	M141	PAD987388303	30.858	3999	B106	A01	1
D007	M141	UT3213820894	0.025	9711	B106	A58	1
D007	M141	PAD068730225	339.001	2821	B106	A53	2
D007	M129	VA3971520751	0.071	9711	B108	A58	1
D007	M111	PAD004335154	0.4	3312	B109	A03	1
D007	M042	TXD008135618	1.63	3471	B109	A03	1
D007	M141	TXD008135618	1.09	3471	B109	A03	1
D007	M041	PA2571225349	0.032	9711	B109	A37	1
D007	M109	WID066865163	15.426	3429	B110	A03	1
D007	M071	PAD982365967	53.312	3444	B110	A05	1
D007	M061	PAD981730633	0.12	3679	B110	A58	1
D007	M041	TXD007341175	1.54	3828	B110	A27	1
D007	M099	PAD002333490	110.805	3313	B113	A72	1
D007	M141	PAD002324978	3	3316	B113	A29	1
D007	M071	WID006119812	51.217	3317	B113	A31	1
D007	M077	WID006077978	17.932	3412	B113	A09	1
D007	M071	PAD004319802	9.585	3479	B113	A21	1
D007	M013	WID006116529	2.55	3519	B113	A22	1
D007	M111	TXD095214185	0.96	3724	B113	A22	1
D007	M141	VAD988186110	0.018	3731	B113	A58	1
D007	M061	UTD000651653	0.275	8221	B113	A94	1
D007	M141	VA6170061463	30.49	9711	B113	A37	1
D007	M121	WVD980554703	5.85	4911	B113	A	2
D007	M129	RID001199355	12.542	2298	B114	A33	1
D007	M141	WID980823876	1.925	2621	B114	A69	1
D007	M041	TXD008079212	54.16	2821	B114	A59	1
D007	M071	WID981529993	0.66	2869	B114	A38	1
D007	M041	WVD005012851	21.7	2869	B114	A59	1
D007	M132	TXD980864029	0.46	2899	B114	A56	1
D007	M141	TX3213820738	0.23	2899	B114	A58	1
D007	M071	PAD002378149	7.95	3465	B114	A21	1
D007	M014	UTD033513631	3.784	3471	B114	A22	1
D007	M071	PAD067392902	11.82	3471	B114	A29	1
D007	M141	VAD988211850	2.523	3471	B114	A29	1
D007	M043	UT0571724350	0.167	3479	B114	A53	1
D007	M129	UT0571724350	4.585	3479	B114	A53	1
D007	M132	UT0571724350	12.07	3479	B114	A53	1
D007	M141	PAD982364564	2.05	3671	B114	A57	1
D007	M141	TXD007321904	1.72	3674	B114	A99	1
D007	M141	PAD001680719	2.206	3769	B114	A05	1
D007	M141	PAD002316305	1.323	3769	B114	A53	1
D007	M141	PAD001680719	1.66	3769	B114	A99	1
D007	M071	PAD049623937	68.085	3812	B114	A29	1
D007	M111	PAD049623937	7.6	3812	B114	A29	1
D007	M111	TXD007340797	0.25	3827	B114	A19	1
D007	M141	PAD987267473	0.813	3841	B114	A49	1
D007	M141	RID001201508	0.229	3951	B114	A22	1
D007	M041	WID078673084	20.383	3999	B114	A22	1
D007	M141	TX3571924643	2.57	4581	B114	A29	1
D007	M091	PAD981043748	21.52	3724	B114	A59	2
D007	M141	WID988635587	0.175	4011	B114	A58	2
D007	M129	UT0571724350	0.017	9711	B114	A58	3
D007	M132	UT0571724350	0.056	9711	B114	A58	3
D007	M071	PAD001643691	10.3	3751	B115	A78	1
D007	M019	VA7213720082	0	9999	B117	A57	1
D007	M071	PAD041529744	0.5	2621	B119	A69	1
D007	M141	WID114105091	0.22	2752	B119	A09	1
D007	M071	WID981091531	41.744	2752	B119	A22	1
D007	M099	PAD097153399	2.697	2842	B119	A59	1
D007	M111	TXD982306144	0.27	2869	B119	A32	1
D007	M061	PRD980759443	1	3399	B119	A09	1

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D007	M041	WIT560010803	0.241	3469	B119	A69	1
D007	M061	PAD056602923	0.228	3479	B119	A21	1
D007	M061	TXD980699771	1.6	3585	B119	A29	1
D007	M999	WAD000618140	0.02	3679	B119		1
D007	M141	PAD980829287	0.18	3714	B119	A94	1
D007	M081	PAD096837356	271.8	3721	B119	A05	1
D007	M081	PAD096837356	851.7	3721	B119	A21	1
D007	M077	PAD987343860	2.025	3728	B119	A59	1
D007	M061	PAD980714208	2.473	3824	B119	A06	1
D007	M061	PAD980714208	0.577	3824	B119	A29	1
D007	M041	VAD982366213	53.902	3949	B119	A04	1
D007	M999	WA8570024200	0.3	4581	B119		1
D007	M999	WA2170023418	0.09	9711	B119		1
D007	M141	UT3213820894	0.245	9711	B119	A58	1
D007	M079	WID000713115	23.016	3621	B119	A21	2
D007	M141	PAD981043748	1.835	3724	B119	A59	2
D007	M999	WA8570024200	0.03	4581	B119		2
D007	M141	PAD041744236	3.4	9999	B119	A65	2
D007	M091	TXD063101794	24.71	2869	B199	A09	1
D007	M141	TXD981055635	2,192.98	3721	B202	A29	1
D007	M141	VA5170000181	0.003	3731	B202	A58	1
D007	M141	VA6170061463	0.955	9711	B202	A29	1
D007	M141	RI1170024243	0.01	9711	B202	A58	1
D007	M051	PRD987370939	0.5	3612	B203	A09	1
D007	M129	PAD071612683	2.2	2911	B204	A08	1
D007	M021	WID006136659	2.135	2621	B205	A09	1
D007	M141	PAD051129757	0.175	3069	B206	A40	1
D007	M061	VTD069911873	3.424	3545	B206	A37	1
D007	M061	PAD987401221	1.831	3599	B207	A40	1
D007	M071	WID006126213	9.882	3621	B207	A21	1
D007	M141	VA6170061463	7.81	9711	B207	A21	1
D007	M141	VA6170061463	7.732	9711	B207	A58	1
D007	M061	TXD041516709	98.1	2821	B208	A57	1
D007	M111	PAD004322863	0.2	3317	B209	A58	1
D007	M111	WID988591061	0.88	9199	B209	A21	1
D007	M141	VA6170061463	0.01	9711	B209	A58	1
D007	M141	TXD065102105	4.13	3479	B209	A09	2
D007	M132	PAD004320248	0.33	3429	B210	A58	1
D007	M141	VAD988186110	0.21	3731	B210	A21	1
D007	M141	VA1170024813	0.002	3731	B210	A21	1
D007	M141	VA1170024813	0.005	3731	B210	A29	1
D007	M141	VAD988186110	0.174	3731	B210	A58	1
D007	M141	VA6170061463	1.934	9711	B210	A29	1
D007	M141	VA8170024170	0.063	9711	B210	A58	1
D007	M141	VA6170061463	0.22	9711	B210	A94	1
D007	M141	VA6170061463	3.633	9711	B211	A29	1
D007	M141	RI1170024243	0.115	9711	B211	A58	1
D007	M129	UT0571724350	0.001	9711	B211	A58	3
D007	M141	VTD000791764	3.65	3423	B212	A37	1
D007	M041	WVD045875291	197.6	2821	B219	A37	1
D007	M041	PRD156924573	1.54	2834	B219	A35	1
D007	M141	TXD988021259	4.34	2843	B219	A58	1
D007	M041	WVD009708702	1.08	2869	B219	A57	1
D007	M041	WVD005005509	0.06	2879	B219	A59	1
D007	M141	WID006077978	0.16	3412	B219	A29	1
D007	M141	RID001201508	0.413	3951	B219	A31	1
D007	M111	UT9210020922	2.301	9711	B219	A58	1
D007	M061	VA7213720082	0.03	9999	B219	A57	1
D007	M061	TXD980809677	0.44	2676	B296	A49	1
D007	M141	VA1170024813	0.52	3731	B301	A29	1
D007	M043	WVD005005509	4.377	2879	B301	A53	2
D007	M141	PAD002316305	6.852	3769	B302	A99	1
D007	M111	TXD988066189	28	2869	B302	A53	2
D007	M111	PAD980550594	21.4	2911	B302	A53	2
D007	M119	TXD000719377	2.75	3471	B302	A53	2
D007	M119	WVD982701732	906	3471	B302	A69	2
D007	M132	PAD002342236	254.6	3823	B302	A22	2
D007	M071	PAD059087072	0.05	4953	B302	A69	2
D007	M141	VA6170061463	1.953	9711	B302	A53	2
D007	M043	TXD008079212	7.4	2821	B303	A74	1
D007	M111	TXD008079212	15.29	2821	B303	A74	1
D007	M132	TXD008079212	31.81	2821	B303	A74	1
D007	M132	WVD005005509	40.945	2879	B303	A78	1

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D007	M119	PAD061075529	8	3499	B303	A21	1
D007	M141	WID006194336	4.5	2911	B304	A89	1
D007	M132	PAD113428726	14.64	3211	B304	A35	1
D007	M132	PAD045878238	48.4	3211	B304	A39	1
D007	M133	TXD078552932	37.02	3211	B304	A59	1
D007	M011	PAD045167053	193.25	3221	B304	A39	1
D007	M111	PAD045167053	127.25	3221	B304	A39	1
D007	M111	PAD004338695	39.45	3221	B304	A59	1
D007	M111	PAD002117372	9	3229	B304	A39	1
D007	M111	WID006070338	70.22	3325	B304	A78	1
D007	M111	PAD051658573	1.57	3448	B304	A01	1
D007	M132	PAD002378149	0.825	3465	B304	A19	1
D007	M141	VTD001075894	0.087	3724	B304	A59	1
D007	M141	VTD002085108	0.412	3724	B304	A59	1
D007	M141	WI9210020054	1.095	2892	B304	A56	2
D007	M132	PAD071207880	561.8	3211	B304	A39	2
D007	M141	WID053682712	5.25	3612	B305	A06	1
D007	M141	PAD044311272	2.1	3356	B306	A03	1
D007	M132	WVD076826015	9.072	3356	B306	A26	1
D007	M071	WID006115877	0.425	3471	B306	A22	1
D007	M013	WID014838569	183	3479	B306	A29	1
D007	M014	TXD007318892	4.35	3479	B306	A76	1
D007	M011	PAD980551840	92.18	3724	B306	A76	1
D007	M141	PAD987322286	1.2	2851	B307	A57	1
D007	M011	PAD002344315	3,391.00	3312	B307	A29	1
D007	M111	PAD981945371	13	3339	B307	A49	1
D007	M111	PAD003044609	1.219	3399	B307	A78	1
D007	M043	WID006073225	0.131	3471	B307	A78	1
D007	M011	TXD007331010	14.95	3561	B307	A38	1
D007	M011	TXD981590870	9.15	3561	B307	A38	1
D007	M011	TXD007331010	4.45	3561	B307	A39	1
D007	M011	TXD981590870	5.93	3561	B307	A39	1
D007	M111	PAD004376919	1.7	3599	B307	A22	1
D007	M049	WID981193154	0.203	3599	B307	A29	1
D007	M043	WID078673084	0.661	3695	B307	A03	1
D007	M111	PAD987343860	9.681	3728	B307	A57	1
D007	M132	WID006069710	1.386	3824	B307	A60	1
D007	M039	WID006423495	0.229	3841	B307	A56	1
D007	M141	WYD098805948	0.05	4011	B307	A60	1
D007	M132	PAD004393138	2.01	8731	B307	A94	1
D007	M141	TX2571724333	0.02	9711	B307	A40	1
D007	M051	VA6170061463	0.439	9711	B307	A58	1
D007	M061	VA6170061463	0.032	9711	B307	A58	1
D007	M141	VA6170061463	16.004	9711	B307	A58	1
D007	M109	WID980570550	3.772	3592	B307	A60	2
D007	M141	VTD002065654	0.202	3648	B307	A22	2
D007	M119	PAD014479893	0.31	2299	B308	A99	1
D007	M141	TXD008117400	0.03	2869	B308	A21	1
D007	M141	TXD987997335	0.08	2869	B308	A21	1
D007	M131	PAD003037934	4.41	3592	B308	A56	2
D007	M141	VA5170000181	0.015	3731	B309	A55	1
D007	M132	TX3571924643	0.56	4581	B309	A55	1
D007	M061	TX8214020424	0.12	9711	B309	A55	1
D007	M129	PR2170027203	0.157	9711	B309	A55	1
D007	M137	PR2170027203	0.152	9711	B309	A55	1
D007	M141	VA8170024170	0.073	9711	B309	A55	1
D007	M049	WI3210020563	0.446	9999	B309	A55	1
D007	M999	WI3210020563	0.431	9999	B309	A55	1
D007	M141	PA5213820892	0.195	9999	B309	A99	1
D007	M061	TXD042288597	1.8	2531	B310	A21	1
D007	M061	WID041189291	0.213	2759	B310	A08	1
D007	M053	PRD090028101	0.025	2833	B310	A55	1
D007	M014	TXD990757486	0.91	2873	B310	A55	1
D007	M111	PAD000805028	4.3	3312	B310	A55	1
D007	M141	PAD002324978	0.6	3316	B310	A29	1
D007	M132	VAD988175410	0.147	3429	B310	A32	1
D007	M111	PAD082439191	5.263	3442	B310	A21	1
D007	M111	PAD097874713	2.378	3446	B310	A21	1
D007	M043	VAD981045537	0.15	3471	B310	A21	1
D007	M011	RID987473022	3.624	3471	B310	A49	1
D007	M043	WID087253175	2.75	3471	B310	A89	1
D007	M132	UT0571724350	0.024	3479	B310	A59	1
D007	M043	PAD004330965	0.815	3511	B310	A21	1

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D007	M111	WID181254863	19.037	3531	B310	A32	1
D007	M137	TXD981607468	0.1	3592	B310	A29	1
D007	M141	PAD004339297	3.503	3612	B310	A21	1
D007	M043	WID006126213	7.025	3621	B310	A71	1
D007	M111	VAD003132545	4.9	3625	B310	A56	1
D007	M061	TXD096445069	0.45	3711	B310	A55	1
D007	M061	WID041411943	0.371	3713	B310	A21	1
D007	M043	WID006092555	0.944	3714	B310	A21	1
D007	M043	TX7572024605	0.25	3721	B310	A71	1
D007	M141	TX7572024605	0.1	3721	B310	A71	1
D007	M132	VTD002068070	0.725	3728	B310	A22	1
D007	M053	TXD000836437	0.92	3728	B310	A53	1
D007	M053	TXD000836437	1.42	3728	B310	A71	1
D007	M141	VA5170000181	0.725	3731	B310	A55	1
D007	M141	VA5170000181	4.587	3731	B310	A58	1
D007	M111	WID066883521	0.637	3795	B310	A21	1
D007	M141	RID001463090	0.688	3812	B310	A71	1
D007	M141	RID001201508	0.022	3951	B310	A78	1
D007	M071	RID980668610	0.697	3965	B310	A71	1
D007	M043	WID982074296	0.055	4111	B310	A89	1
D007	M141	PA8213820642	4.023	4225	B310	A54	1
D007	M141	PA3170022104	0.479	4225	B310	A55	1
D007	M141	PAD002487247	0.24	5961	B310	A58	1
D007	M141	PAD980919146	0.075	7539	B310	A78	1
D007	M019	RI8170024790	0.063	9199	B310	A21	1
D007	M125	PA3210090053	0.212	9199	B310	A58	1
D007	M141	VA6170061463	0.046	9711	B310	A02	1
D007	M043	TX2571524105	0.2	9711	B310	A21	1
D007	M061	VA6170061463	3.265	9711	B310	A21	1
D007	M112	TX2571524105	0.31	9711	B310	A21	1
D007	M129	SD2571924644	1.044	9711	B310	A21	1
D007	M132	TX2571524105	0.55	9711	B310	A21	1
D007	M141	VA6170061463	2.934	9711	B310	A21	1
D007	M141	VA6170061463	1.355	9711	B310	A29	1
D007	M141	VA6170061463	0.16	9711	B310	A38	1
D007	M141	TX2571724333	1.2	9711	B310	A55	1
D007	M141	VA8170024170	0.072	9711	B310	A55	1
D007	M043	VA1170024722	0.19	9711	B310	A58	1
D007	M141	VA6170061463	0.598	9711	B310	A71	1
D007	M061	TX8170022786	0.08	9711	B310	A91	1
D007	M141	VA1213720815	0.112	9711	B310	A91	1
D007	M141	VA5170022482	5.331	9711	B310	A91	1
D007	M141	VA8213720321	0.415	9711	B310	A91	1
D007	M141	UT1570090018	0.343	9999	B310	A91	1
D007	M111	PAD000805028	23.5	3312	B310	A29	2
D007	M141	PAD096837356	4.576	3721	B310	A53	2
D007	M141	PAD053149084	0.25	3724	B310	A02	2
D007	M141	RID001201508	0.003	3951	B310	A53	2
D007	M132	UT5210090002	0.05	9711	B310	A53	2
D007	M129	SD2571924644	0.077	9711	B310	A58	2
D007	M019	PAD980550388	0.1	3489	B310	A71	3
D007	M132	VAD003121928	19.74	2869	B311	A56	2
D007	M129	VA3971520751	0.066	9711	B315	A58	1
D007	M132	TXD098818339	103.49	2819	B316	A59	1
D007	M141	VAD005007679	0.2	2823	B316	A58	1
D007	M141	PRD090028101	0.45	2833	B316	A58	1
D007	M132	WID000808147	24.853	2865	B316	A32	1
D007	M079	PAD002320737	0.228	2992	B316	A58	1
D007	M129	WID006098438	0.05	3111	B316	A58	1
D007	M141	PAD042094938	1.925	3229	B316	A35	1
D007	M141	PAD042094938	0.225	3229	B316	A76	1
D007	M014	TXD007332570	10.5	3296	B316	A59	1
D007	M071	WID006101695	1.625	3351	B316	A02	1
D007	M043	TXD980874200	0.1	3471	B316	A22	1
D007	M111	PAD002392827	29.9	3471	B316	A22	1
D007	M132	TXD054461181	13.62	3471	B316	A22	1
D007	M019	TXD091939520	2.59	3479	B316	A29	1
D007	M014	WID059974881	4.988	3482	B316	A38	1
D007	M111	WID006116529	0.225	3519	B316	A60	1
D007	M141	WID053691853	0.485	3545	B316	A38	1
D007	M014	TXD068347814	3.15	3599	B316	A75	1
D007	M111	TXD068347814	135.45	3599	B316	A75	1
D007	M111	PAD046558037	0.23	3613	B316	A93	1

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D007	M111	VAD058913294	4.5	3646	B316	A58	1
D007	M132	TXD007365984	0.25	3721	B316	A58	1
D007	M011	PAD001643691	7.81	3751	B316	A22	1
D007	M141	PAD002316305	0.566	3769	B316	A58	1
D007	M129	WID006423495	0.22	3841	B316	A22	1
D007	M043	PAD987267473	0.01	3841	B316	A71	1
D007	M111	WID006125215	6.585	3999	B316	A21	1
D007	M141	PA3170022104	0.437	4225	B316	A55	1
D007	M125	PA3210090053	0.053	9199	B316	A58	1
D007	M129	VA3971520751	0.096	9711	B316	A58	1
D007	M141	UT3213820894	0.529	9711	B316	A58	1
D007	M141	VA6170061463	0.24	9711	B316	A58	1
D007	M043	PA2571225349	0.819	9711	B316	A91	1
D007	M111	PAD000766162	4.878	2514	B316	A56	2
D007	M011	PAP000006331	1.96	9999	B316	A56	2
D007	M119	PAD014479893	1	2299	B319	A53	1
D007	M119	PAD014479893	1.475	2299	B319	A58	1
D007	M132	WID071150676	5	2491	B319	A09	1
D007	M111	PAD980552012	78	2813	B319	A21	1
D007	M111	PAD002391548	13.695	2816	B319	A32	1
D007	M112	PAD002391548	357.15	2816	B319	A32	1
D007	M132	WVD981040058	0.75	2819	B319	A56	1
D007	M111	PAD000736942	127.979	2819	B319	A78	1
D007	M111	PAD041399403	1.867	2819	B319	A92	1
D007	M132	PAD041399403	29.754	2819	B319	A92	1
D007	M043	PAD000606285	5.063	2821	B319	A36	1
D007	M125	TXD058276130	2.16	2821	B319	A36	1
D007	M141	TXD000807909	0.2	2821	B319	A55	1
D007	M111	PAD003043353	4.365	2833	B319	A59	1
D007	M141	TXD000820928	0.03	2869	B319	A19	1
D007	M132	WVD060682291	0.565	2869	B319	A59	1
D007	M141	VAD003122165	2.5	2869	B319	A74	1
D007	M014	TXD990757486	0.42	2873	B319	A36	1
D007	M141	TXD067285973	2	2911	B319	A09	1
D007	M119	TXD008013468	22	2911	B319	A58	1
D007	M111	PAD004336905	257	3221	B319	A59	1
D007	M132	TXD084284132	1.54	3229	B319	A08	1
D007	M111	PAD004325254	3.4	3312	B319	A09	1
D007	M141	PAD000736934	1.8	3312	B319	A29	1
D007	M132	PAD002326908	1.55	3312	B319	A49	1
D007	M011	PAD002344315	258.9	3312	B319	A78	1
D007	M111	PAD004322863	23.55	3317	B319	A09	1
D007	M111	WID980570055	1.25	3317	B319	A25	1
D007	M111	PAD002387835	0.748	3351	B319	A19	1
D007	M111	WID006073225	0.9	3432	B319	A01	1
D007	M111	PAD982566804	0.6	3441	B319	A21	1
D007	M111	PAD051658573	4.377	3448	B319	A92	1
D007	M141	VAD988221917	1.575	3449	B319	A21	1
D007	M119	PAD005031737	0.74	3463	B319	A78	1
D007	M043	WIT560010803	0.787	3469	B319	A58	1
D007	M119	PAD004316832	0.475	3471	B319	A03	1
D007	M119	UTD047109269	0.85	3471	B319	A22	1
D007	M141	WVD113433296	7.84	3471	B319	A22	1
D007	M043	WID006073225	3.649	3471	B319	A56	1
D007	M111	WID006073225	1.8	3471	B319	A56	1
D007	M111	VAD988211850	0.45	3471	B319	A91	1
D007	M141	VAD988211850	2.5	3471	B319	A91	1
D007	M111	RID001620210	1.2	3471	B319	A92	1
D007	M119	RID001620210	1.2	3471	B319	A92	1
D007	M141	PAD002333227	0.75	3471	B319	A92	1
D007	M061	PAD004319802	4.375	3479	B319	A21	1
D007	M043	PAD075485938	0.271	3479	B319	A29	1
D007	M061	WVD000797720	0.9	3479	B319	A92	1
D007	M141	RID053959706	3.257	3496	B319	A60	1
D007	M119	WID006116529	0.45	3519	B319	A56	1
D007	M119	PAD980715957	0.2	3531	B319	A22	1
D007	M079	PRD090031410	0.3	3625	B319	A22	1
D007	M141	PRD090031410	0.2	3625	B319	A22	1
D007	M111	PRD090282757	0.875	3643	B319	A69	1
D007	M132	PAD001882372	4.85	3672	B319	A09	1
D007	M999	WAD980833099	2.9	3674	B319		1
D007	M061	WID006126999	5.5	3713	B319	A21	1
D007	M061	WID023136997	5.445	3713	B319	A21	1

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D007	M061	WID980905293	2.104	3713	B319	A21	1
D007	M132	WID980905293	1.609	3713	B319	A78	1
D007	M141	TXD007365984	2.75	3721	B319	A29	1
D007	M043	PAD003053709	0.388	3724	B319	A21	1
D007	M141	PAD003053709	0.165	3724	B319	A56	1
D007	M141	VTD001075894	6.091	3724	B319	A59	1
D007	M999	WAD045256971	0.08	3728	B319		1
D007	M043	PAD987343860	0.077	3728	B319	A92	1
D007	M141	WV0170023691	0.7	3764	B319	A29	1
D007	M141	PAD002316305	0.314	3769	B319	A99	1
D007	M141	TXD007340797	0.2	3827	B319	A19	1
D007	M132	RID000001750	0.25	3829	B319	A56	1
D007	M043	PAD004322913	0.82	3842	B319	A21	1
D007	M129	WID086686003	0.344	3844	B319	A56	1
D007	M141	RID001201508	0.06	3951	B319	A22	1
D007	M119	PAD080719289	2.975	4512	B319	A29	1
D007	M111	PAD000621011	53.5	4741	B319	A19	1
D007	M132	TXD091947150	41.5	4741	B319	A29	1
D007	M141	TXD091947150	37.85	4741	B319	A29	1
D007	M132	UTD988073896	5.5	5171	B319	A21	1
D007	M132	VA4570024477	1.53	9199	B319	A29	1
D007	M119	TT0570090001	0.045	9511	B319	A29	1
D007	M141	PAD982580763	3.8	9621	B319	A49	1
D007	M999	WA2170023418	82.35	9711	B319		1
D007	M141	VA6170061463	2.649	9711	B319	A22	1
D007	M061	VA6170061463	0.002	9711	B319	A29	1
D007	M141	VA8170024170	1.315	9711	B319	A29	1
D007	M141	VA6170061463	0.073	9711	B319	A58	1
D007	M141	VA8170024170	0.024	9711	B319	A91	1
D007	M999	WA7890008967	0.01	9999	B319		1
D007	M999	WA7890008967	0.003	9999	B319	A	1
D007	M999	WAD009250820	0.001	2611	B319		2
D007	M111	PAD002323848	4.87	2796	B319	A56	2
D007	M141	PAD981938400	10.251	2821	B319	A69	2
D007	M141	VAD003112588	2.675	2824	B319	A61	2
D007	M111	WID084106137	0.193	2869	B319	A57	2
D007	M011	PAD071207880	895.2	3211	B319	A99	2
D007	M999	WAD009624453	0.45	3471	B319		2
D007	M132	TXD007357932	15.41	3471	B319	A53	2
D007	M043	WID006102545	0.185	3524	B319	A08	2
D007	M111	WID006102545	0.325	3524	B319	A51	2
D007	M999	WAD041338252	40.91	3599	B319		2
D007	M043	PAD001882372	0.15	3672	B319	A53	2
D007	M131	PAD001882372	0.6	3672	B319	A93	2
D007	M999	WAD061670766	2.5	3728	B319		2
D007	M129	SD2571924644	0.192	9711	B319	A56	2
D007	M141	PAD041744236	2.6	9999	B319	A65	2
D007	M111	WID988590139	20.855	3469	B320	A21	1
D007	M111	WID073830028	91.7	3519	B320	A21	1
D007	M111	WID006097083	15.42	3566	B320	A29	1
D007	M043	TXD990757627	26.05	2821	B393	A36	1
D007	M053	TXD008098725	23.5	2821	B393	A36	1
D007	M111	TXD008098725	32.1	2821	B393	A36	1
D007	M132	TXD980625958	41.85	2821	B393	A36	1
D007	M132	TXD000807909	162.62	2821	B393	A57	1
D007	M141	TXD000807909	0.2	2821	B393	A57	1
D007	M125	TXD982552887	16.03	2821	B393	A58	1
D007	M014	TXD990757486	3.96	2865	B393	A36	1
D007	M132	TXD005942438	10.63	2865	B393	A36	1
D007	M011	TXD988066189	254	2869	B393	A36	1
D007	M043	WVD045875291	12.2	2821	B403	A39	1
D007	M043	VAD046991097	1.606	2824	B403	A58	1
D007	M132	PAD071445423	2.194	2851	B403	A57	1
D007	M111	WID006580468	5.4	3444	B403	A29	1
D007	M119	TXD000719377	13.25	3471	B403	A22	1
D007	M111	TXD007359284	38.34	3585	B403	A21	1
D007	M061	PAD002343630	1.217	3714	B403	A21	1
D007	M061	TXD000836437	3.84	3728	B403	A22	1
D007	M141	VA1170024813	0.938	3731	B403	A99	1
D007	M043	PA2571225349	0.56	9711	B403	A01	1
D007	M141	VA6170061463	0.001	9711	B403	A58	1
D007	M053	WID006447890	2.728	3599	B404	A49	1
D007	M129	TX3571924643	0.12	4581	B404	A58	1

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D007	M132	TX3571924643	0.05	4581	B404	A58	1
D007	M141	TX3571924643	0.09	4581	B404	A58	1
D007	M125	PAD114942832	0.235	9711	B404	A91	1
D007	M132	UT5210090002	0.727	9711	B404	A99	1
D007	M041	PRD991291857	0.375	3672	B406	A21	1
D007	M141	TXD000764498	4.23	3721	B407	A21	1
D007	M133	VA9170022488	512.802	4812	B407	A69	2
D007	M111	PAD002917466	33.7	2865	B409	A35	1
D007	M119	WID059974881	5.5	3482	B409	A21	1
D007	M061	TXD982307514	49.45	3499	B409	A29	1
D007	M111	PAD003031903	2.49	3554	B409	A32	1
D007	M043	WID006161368	8.36	3585	B409	A82	1
D007	M053	TXD980699771	0.4	3585	B409	A91	1
D007	M137	TXD980699771	0.2	3585	B409	A91	1
D007	M059	WID006447890	12.505	3599	B409	A21	1
D007	M141	PAD005000500	0.123	3613	B409	A21	1
D007	M111	VAD003132545	1.35	3625	B409	A09	1
D007	M043	PAD003053709	0.12	3724	B409	A21	1
D007	M141	PAD003053709	0.125	3724	B409	A21	1
D007	M999	WAD045256971	0.01	3728	B409		1
D007	M141	VA1170024813	0.098	3731	B409	A53	1
D007	M061	WID084224179	1.625	3999	B409	A21	1
D007	M141	PAD987362746	2.25	7699	B409	A01	1
D007	M043	TX2571524105	0.04	9711	B409	A21	1
D007	M061	TX2571524105	0.59	9711	B409	A21	1
D007	M061	VA6170061463	0.201	9711	B409	A21	1
D007	M112	TX2571524105	0.34	9711	B409	A21	1
D007	M132	TX2571524105	0.96	9711	B409	A21	1
D007	M132	PAD074986795	23.122	2819	B409	A69	2
D007	M129	SD2571924644	0.206	9711	B409	A92	2
D007	M111	PAD000731505	1.1	9999	B409	A69	2
D007	M132	TXD021940416	5	3585	B489	A08	1
D007	M141	TXD026755769	120.25	4741	B490	A21	1
D007	M071	PAD004335162	6.61	3312	B502	A59	1
D007	M129	PAD065651671	79.77	3317	B502	A26	1
D007	M132	VAD988175410	49.125	3429	B502	A22	1
D007	M119	WID006126999	7.25	3713	B502	A76	1
D007	M141	PA4170022418	0.222	3731	B503	A60	1
D007	M071	PAD002335222	1.575	3317	B504	A76	1
D007	M079	WVD076826015	204.18	3356	B504	A75	1
D007	M132	VAD988175410	1.775	3429	B504	A32	1
D007	M061	TXD071372817	4.82	3728	B504	A27	1
D007	M141	TXD981155203	0.17	3812	B505	A03	1
D007	M141	WID006112478	0.25	3931	B505	A22	1
D007	M141	VA6170061463	0.04	9711	B505	A22	1
D007	M125	PAD002324978	0.361	3316	B506	A60	1
D007	M011	PAD004335154	166.41	3312	B511	A78	1
D007	M141	UTD086800620	12.525	3444	B511	A71	1
D007	M141	VAD009305137	3.6	2824	B513	A60	1
D007	M111	PRD991291972	3.7	2911	B519	A09	1
D007	M101	WVD056795842	502.168	3069	B519	A27	1
D007	M132	PAD004393468	9.07	3312	B519	A05	1
D007	M111	PAD002368066	0.8	3444	B519	A32	1
D007	M079	VAD003132560	0.605	3452	B519	A29	1
D007	M132	WVD000068908	25.2	3471	B519	A53	1
D007	M999	WAD009251323	8.5	3498	B519		1
D007	M079	WID006070205	55.386	3634	B519	A21	1
D007	M077	WID006126999	47.715	3713	B519	A21	1
D007	M111	TXD057408924	19.2	3841	B519	A21	1
D007	M042	PA0890090004	0.296	8731	B519	A72	1
D007	M061	WID006077978	0.6	3412	B603	A03	1
D007	M119	PA5210021510	3.157	3483	B604	A21	1
D007	M132	TXD008092983	3.01	3496	B604	A78	1
D007	M141	PAD003401049	9.394	3499	B604	A21	1
D007	M043	PAD003022191	7.8	3585	B604	A60	1
D007	M042	VAD003132545	2.6	3625	B604	A21	1
D007	M061	VAD003132545	3.4	3625	B604	A21	1
D007	M049	TX7572024605	36.91	3721	B604	A21	1
D007	M061	TX7572024605	14.2	3721	B604	A21	1
D007	M132	TX7572024605	0.98	3721	B604	A21	1
D007	M141	TX7572024605	0.65	3721	B604	A21	1
D007	M111	TX6170022770	1.38	3728	B604	A21	1
D007	M141	VA6170061463	3.848	9711	B604	A21	1

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D007	M141	TXD008135618	9.04	3471	B609	A38	1
D007	M119	WID006098545	14	3479	B609	A21	1
D007	M061	WID063378871	1.771	3721	B609	A29	1
D007	M137	TXD981607468	2.92	3592	B695	A29	1
D007	M132	TXD037460706	3,819.00	3211		A56	1
D007	M999	WAD988466900	0.6	3471			1
D007	M077	WID006082531	1.095	3519		A60	1
D007	M999	WAD009256819	0.1	3721			1
D007	M999	WAD009262171	0.08	3721			1
D007	M999	WAD041585464	0.06	3721			1
D007	M999	WAD980980270	0.4	3721			1
D007	M999	WAD045256971	0.06	3728			1
D007	M999	WAD093639946	0.11	3728			1
D007	M999	WAD980982912	0.08	3728			1
D007	M999	WAD981771017	0.1	3728			1
D007	M999	WAD009480823	0.03	3764			1
D007	M999	WA5170027291	0.009	9711			1
D007	M999	WA7890008967	0.002	9999			1
D007	M999	WAD009052432	0.004	2611			2
D007	M999	WAD009244864	0.13	3471			2
D007	M999	WAD991281841	0.09	3825			2
D008	M999	WA1891406349	0.01	4911	B	A	1
D008	M051	WID000808147	0.153	2869	B001	A57	1
D008	M043	PAD002368892	0.015	2891	B001	A58	1
D008	M013	PAD980555197	0.05	3053	B001	A94	1
D008	M043	VAD001307495	0.025	3731	B001	A58	1
D008	M043	PAD980714414	0.01	3952	B001	A58	1
D008	M043	UTD093119980	0.35	4911	B001	A58	1
D008	M049	WID982650160	0.015	8221	B001	A58	1
D008	M141	VA6170061463	0.13	9711	B001	A58	1
D008	M141	UTD009094012	0.019	8221	B002	A53	1
D008	M141	VA7170024684	4.515	9711	B002	A59	1
D008	M141	WID006095251	0.012	2082	B003	A59	1
D008	M043	PAD000766170	0.087	2672	B003	A94	1
D008	M049	WVD060682291	0.385	2869	B003	A94	1
D008	M141	PAD002368892	0.102	2891	B003	A58	1
D008	M111	PAD002136117	0.463	3321	B003	A21	1
D008	M043	PAD981730633	0.09	3679	B003	A58	1
D008	M141	PAD001680719	0.103	3769	B003	A94	1
D008	M141	PAD002316305	0.064	3769	B003	A94	1
D008	M141	VTD060525151	0.013	8062	B003	A58	1
D008	M141	PAD020068383	0.004	8062	B003	A94	1
D008	M041	WID000809012	0.24	8221	B003	A59	1
D008	M041	WID980283394	0.123	8221	B003	A59	1
D008	M041	WID980904452	0.055	8221	B003	A59	1
D008	M141	WID000809012	0.055	8221	B003	A59	1
D008	M141	RID062309299	0.2	3911	B009	A22	1
D008	M061	VA6170061463	15.91	9711	B009	A21	1
D008	M141	VA6170061463	30.613	9711	B009	A21	1
D008	M141	PAD003023827	1.61	3523	B101	A59	1
D008	M141	TXD000709964	36.96	3812	B101	A89	1
D008	M099	NYD987035367	14.45	5149	B102	A06	1
D008	M081	NY0000096123	275.254	5171	B102	A59	1
D008	M141	LAD980866958	2.7	8221	B102	A58	1
D008	M077	ME7170022019	6.247	9711	B102	A29	1
D008	M039	NY4571924451	3.84	9711	B102	A57	1
D008	M129	NY4571924451	2.335	9711	B102	A57	1
D008	M141	NY4571924451	1.855	9711	B102	A57	1
D008	M041	WID006093017	42.721	3594	B102	A69	1
D008	M141	VAD980551782	0.22	3672	B102	A09	1
D008	M051	PAD071473425	7.512	3714	B102	A53	1
D008	M039	UTD069816163	3.647	4131	B102	A99	1
D008	M039	UTD988075610	3.293	4131	B102	A99	1
D008	M039	UTD988075636	46.657	4131	B102	A99	1
D008	M141	WID050262641	5.175	5511	B102	A57	1
D008	M039	WID001781186	0.621	7218	B102	A58	1
D008	M099	VA6170061463	0.207	9711	B102	A37	1
D008	M079	MAD048974349	9.453	3471	B103	A22	1
D008	M019	NYD002226041	4	3471	B103	A23	1
D008	M074	NYD117328229	0.459	3499	B103	A03	1
D008	M041	NYD986874501	0.875	3571	B103	A49	1
D008	M141	MAD001923408	5.563	3669	B103	A23	1
D008	M041	MAD007872690	0.144	3672	B103	A22	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M141	NHD046312559	0.917	3672	B103	A22	1
D008	M119	NCD981021413	1.133	3672	B103	A29	1
D008	M079	NYD009901059	1.8	3675	B103	A22	1
D008	M061	NYD980769848	0.457	3679	B103	A02	1
D008	M104	MD4690307844	0.75	3731	B103	A53	1
D008	M041	LA6170022788	0.034	4581	B103	A55	1
D008	M039	NJD049856974	3.634	5511	B103	A37	1
D008	M111	NYD089394266	0.042	8211	B103	A09	1
D008	M041	OK9571824045	0.13	9711	B103	A55	1
D008	M014	NY2141768703	0.157	9711	B103	A69	1
D008	M141	MA8570024424	0.209	9999	B103	A55	1
D008	M121	PAD002326908	0.2	3312	B103	A26	1
D008	M014	VAD981034895	40	3672	B103	A01	1
D008	M019	WID988598421	0.5	3672	B103	A01	1
D008	M019	WID047263579	2.7	3672	B103	A22	1
D008	M051	TX8170022786	3.9	4581	B103	A55	1
D008	M121	TX8170022786	0.4	4581	B103	A55	1
D008	M014	MN7213820908	40.001	8744	B103	A64	2
D008	M089	WID006274153	1.145	3484	B103	A22	2
D008	M061	RI1170024243	21.684	9711	B104	A02	1
D008	M061	NED035036201	0.237	3523	B104	A53	2
D008	M141	VAD980551782	0.22	3672	B105	A59	1
D008	M061	NJ2571824018	5.074	NA	B106	A04	1
D008	M109	NJ2571824018	4.031	NA	B106	A04	1
D008	M141	NJ2571824018	0.325	NA	B106	A04	1
D008	M124	NJD045133485	2.8	3643	B106	A03	1
D008	M141	MAD001923408	10.394	3669	B106	A22	1
D008	M019	NJD002002319	0.417	3672	B106	A01	1
D008	M077	NYD002241982	600.4	3672	B106	A01	1
D008	M082	NYD002241982	97.2	3672	B106	A01	1
D008	M125	NJD048608897	3.67	3672	B106	A01	1
D008	M077	NHD040244428	0.459	3672	B106	A09	1
D008	M141	MAD001012244	0.229	3672	B106	A09	1
D008	M109	MND985713452	1.6	3672	B106	A27	1
D008	M077	MOD003537271	1.766	3672	B106	A92	1
D008	M029	NCD038547519	18.704	3675	B106	A03	1
D008	M077	NYD009901059	2	3675	B106	A22	1
D008	M079	NYD001315266	17.99	3694	B106	A03	1
D008	M141	MAD000844282	0.125	3699	B106	A19	1
D008	M121	NCD004520136	93.595	3714	B106	A03	1
D008	M141	NCD003465101	2.8	3714	B106	A09	1
D008	M141	MAD001408517	0.311	3724	B106	A03	1
D008	M111	NCD057038168	3.4	4613	B106	A01	1
D008	M029	NJD053275673	2.189	5511	B106	A19	1
D008	M061	NJD986608461	1.018	5511	B106	A58	1
D008	M043	NCD980843866	0.475	8734	B106	A01	1
D008	M039	MS2170022626	1.385	9199	B106	A03	1
D008	M032	WID006073225	13.148	3432	B106	A03	1
D008	M999	WID006073225	0.204	3432	B106	A03	1
D008	M141	WID000808584	2.362	3531	B106	A03	1
D008	M085	PAD987388105	9	3547	B106	A03	1
D008	M077	WID000713115	155.661	3621	B106	A03	1
D008	M141	PAD084776574	2.42	3672	B106	A22	1
D008	M129	VAD981111784	0.15	4111	B106	A55	1
D008	M089	WID006274153	0.458	3484	B106	A03	2
D008	M103	WID981190713	0.286	3519	B106	A51	2
D008	M141	NJD047354881	0.27	2834	B107	A94	1
D008	M141	MAD990685554	0.288	3669	B110	A27	1
D008	M141	MAD981203334	14.906	3672	B110	A01	1
D008	M121	NJD986609279	0.688	3672	B110	A89	1
D008	M074	PAD982674913	1.334	9621	B110	A19	1
D008	M111	PAD063752430	2.294	9999	B110	A69	2
D008	M077	NJD044654978	1.898	2899	B113	A92	1
D008	M041	MAD094277266	0.963	3556	B113	A94	1
D008	M125	NHD986467124	6.397	3599	B113	A29	1
D008	M041	NHD073984288	0.008	3641	B113	A09	1
D008	M077	NYD986913952	5.963	3672	B113	A29	1
D008	M137	MOD003537271	0.413	3672	B113	A99	1
D008	M141	NYD059385120	1.196	3679	B113	A04	1
D008	M111	MAD990886301	3.025	3679	B113	A60	1
D008	M029	NJ0986622066	1.043	3711	B113	A19	1
D008	M021	MOD073046773	42.49	4111	B113	A99	1
D008	M111	NYD987025780	2.697	4813	B113	A69	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M111	MID985579861	19.942	4911	B113	A60	1
D008	M077	MID000722157	0.667	4911	B113	A99	1
D008	M079	NJD101429652	38.026	5093	B113	A75	1
D008	M021	NVD981428923	0.229	5511	B113	A19	1
D008	M078	NYD986952414	2.718	7549	B113	A59	1
D008	M042	WID982204968	1.147	3494	B113	A19	1
D008	M111	VAD098454192	0.784	3672	B113	A92	1
D008	M141	VTD002065597	0.353	3692	B113	A89	1
D008	M129	PAD002282556	0.44	3823	B113	A58	1
D008	M141	VA6170061463	0.015	9711	B113	A05	1
D008	M129	VA3971520751	4.62	9711	B113	A58	1
D008	M111	MID000718544	27.932	3711	B113	A53	2
D008	M041	NYP000908046	3.942	4813	B113	A69	2
D008	M041	NYP000909010	10.25	4813	B113	A69	2
D008	M041	NYP000909739	9.545	4813	B113	A69	2
D008	M041	NYP000910810	1.332	4813	B113	A69	2
D008	M041	NYP000910984	6.565	4813	B113	A69	2
D008	M061	NYP000911297	1.369	4813	B113	A69	2
D008	M111	NYP000908004	0.228	4813	B113	A69	2
D008	M111	NYP000908384	1.275	4813	B113	A69	2
D008	M111	NYP000909366	4.046	4813	B113	A69	2
D008	M111	NYP000910398	1.7	4813	B113	A69	2
D008	M111	NYP000911503	4.565	4813	B113	A69	2
D008	M111	NYP000912477	6.225	4813	B113	A69	2
D008	M141	NYD980233456	5.25	4813	B113	A69	2
D008	M141	NYD987030459	7.989	4813	B113	A69	2
D008	M141	NYD987030541	4.108	4813	B113	A69	2
D008	M141	NYD987030590	2.739	4813	B113	A69	2
D008	M141	NYP000770107	1.598	4813	B113	A69	2
D008	M141	NYP000792002	1.598	4813	B113	A69	2
D008	M141	NYP000793067	2.511	4813	B113	A69	2
D008	M141	NYP000794768	6.897	4813	B113	A69	2
D008	M141	NYP000794867	2.282	4813	B113	A69	2
D008	M141	NYP000907956	1.598	4813	B113	A69	2
D008	M141	NYP000908004	10.375	4813	B113	A69	2
D008	M141	NYP000908046	0.228	4813	B113	A69	2
D008	M141	NYP000908053	1.141	4813	B113	A69	2
D008	M141	NYP000908061	4.793	4813	B113	A69	2
D008	M141	NYP000908178	4.337	4813	B113	A69	2
D008	M141	NYP000908269	1.598	4813	B113	A69	2
D008	M141	NYP000908285	1.141	4813	B113	A69	2
D008	M141	NYP000908467	1.598	4813	B113	A69	2
D008	M141	NYP000908566	1.598	4813	B113	A69	2
D008	M141	NYP000908707	1.369	4813	B113	A69	2
D008	M141	NYP000908855	1.141	4813	B113	A69	2
D008	M141	NYP000908970	1.369	4813	B113	A69	2
D008	M141	NYP000909176	1.141	4813	B113	A69	2
D008	M141	NYP000909192	2.054	4813	B113	A69	2
D008	M141	NYP000909325	1.598	4813	B113	A69	2
D008	M141	NYP000909341	2.739	4813	B113	A69	2
D008	M141	NYP000909561	2.511	4813	B113	A69	2
D008	M141	NYP000909572	1.369	4813	B113	A69	2
D008	M141	NYP000909606	1.867	4813	B113	A69	2
D008	M141	NYP000909614	2.282	4813	B113	A69	2
D008	M141	NYP000909648	1.307	4813	B113	A69	2
D008	M141	NYP000909796	1.141	4813	B113	A69	2
D008	M141	NYP000909937	1.598	4813	B113	A69	2
D008	M141	NYP000909978	3.092	4813	B113	A69	2
D008	M141	NYP000910257	2.282	4813	B113	A69	2
D008	M141	NYP000910414	1.141	4813	B113	A69	2
D008	M141	NYP000910976	1.826	4813	B113	A69	2
D008	M141	NYP000910984	0.685	4813	B113	A69	2
D008	M141	NYP000911172	2.739	4813	B113	A69	2
D008	M141	NYP000911214	3.652	4813	B113	A69	2
D008	M141	NYP000911222	2.054	4813	B113	A69	2
D008	M141	NYP000911339	3.195	4813	B113	A69	2
D008	M141	NYP000911420	1.369	4813	B113	A69	2
D008	M141	NYP000911446	1.826	4813	B113	A69	2
D008	M141	NYP000911503	1.245	4813	B113	A69	2
D008	M141	NYP000911537	2.282	4813	B113	A69	2
D008	M141	NYP000911545	2.282	4813	B113	A69	2
D008	M141	NYP000911552	1.141	4813	B113	A69	2
D008	M141	NYP000911594	2.282	4813	B113	A69	2

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D008	M141	NYP000911651	3.424	4813	B113	A69	2
D008	M141	NYP000911693	1.141	4813	B113	A69	2
D008	M141	NYP000911727	2.967	4813	B113	A69	2
D008	M141	NYP000911735	1.598	4813	B113	A69	2
D008	M141	NYP000911750	2.054	4813	B113	A69	2
D008	M141	NYP000911768	1.369	4813	B113	A69	2
D008	M141	NYP000911784	1.369	4813	B113	A69	2
D008	M141	NYP000912006	1.369	4813	B113	A69	2
D008	M141	NYP000912055	1.598	4813	B113	A69	2
D008	M141	NYP000912071	2.739	4813	B113	A69	2
D008	M141	NCT000002327	9.884	7539	B113	A93	2
D008	M111	PAD002124261	1.876	3624	B113	A60	2
D008	M061	VAD044731685	47.582	3429	B113	A75	3
D008	M111	MAD001051283	164.498	2674	B114	A29	1
D008	M041	MOD981701196	4.152	2851	B114	A59	1
D008	M041	MID099124349	48.636	2851	B114	A94	1
D008	M141	NYD000799122	0.2	2892	B114	A04	1
D008	M081	NJD002173946	502.168	2892	B114	A75	1
D008	M077	NYD006977086	2.89	3341	B114	A19	1
D008	M141	NYD002968246	6.325	3451	B114	A06	1
D008	M077	NCD003448610	23.77	3479	B114	A05	1
D008	M129	MDD985417450	0.814	3499	B114	A05	1
D008	M061	OR2690308927	0.168	3519	B114	A57	1
D008	M112	NJD000473355	0.688	3555	B114	A56	1
D008	M041	MAD094277266	0.862	3556	B114	A94	1
D008	M061	NHD001082304	11.693	3559	B114	A40	1
D008	M141	NCD986185585	12.16	3563	B114	A21	1
D008	M099	MED001109685	0.2	3585	B114	A40	1
D008	M079	NCD003907508	0.5	3624	B114	A49	1
D008	M112	NMD056773765	0.5	3661	B114	A19	1
D008	M119	NMD056773765	14.595	3661	B114	A93	1
D008	M023	MDD985422336	2.502	3663	B114	A49	1
D008	M141	MAD001923408	1.295	3669	B114	A09	1
D008	M078	NYD002204543	6.8	3678	B114	A53	1
D008	M077	NYD080480734	3.54	3679	B114	A05	1
D008	M092	NYD080480734	6.691	3679	B114	A05	1
D008	M141	MED093625358	1.211	3679	B114	A09	1
D008	M141	MAD001060698	0.098	3679	B114	A19	1
D008	M141	MAD001055235	0.459	3679	B114	A59	1
D008	M079	NJD068699107	0.476	3691	B114	A58	1
D008	M141	MED086878980	0.229	3694	B114	A99	1
D008	M041	NYD093305167	0.2	3699	B114	A19	1
D008	M041	NYD986970770	0.2	3699	B114	A19	1
D008	M129	MID005356928	16.264	3711	B114	A09	1
D008	M081	MSD982114712	145.461	3714	B114	A19	1
D008	M077	MID005357355	159.183	3714	B114	A21	1
D008	M132	NMD052684578	2.522	3724	B114	A59	1
D008	M081	NHD064441132	0.228	3812	B114	A06	1
D008	M125	NHD064441132	0.687	3812	B114	A06	1
D008	M141	MAD001402320	18.032	3861	B114	A09	1
D008	M041	NYD000809327	1.13	3861	B114	A56	1
D008	M081	NYD000809327	1.1	3861	B114	A59	1
D008	M141	MAD084814136	8.382	4213	B114	A19	1
D008	M032	NYD987026432	1.142	4911	B114	A21	1
D008	M041	NYD000730382	2.652	4911	B114	A21	1
D008	M099	NJD000730424	31.263	4931	B114	A09	1
D008	M141	MDD000619395	0.15	4931	B114	A21	1
D008	M029	MDD022531057	3.381	5511	B114	A04	1
D008	M029	MDD022685598	3.335	5511	B114	A04	1
D008	M141	NJD986604577	0.229	5541	B114	A99	1
D008	M141	NJD986604700	0.188	5541	B114	A99	1
D008	M141	NJD986606192	0.188	5541	B114	A99	1
D008	M022	NYD981568181	1.245	7549	B114	A57	1
D008	M141	LAD982552994	6.5	7549	B114	A57	1
D008	M141	MDD980829873	6.152	8221	B114	A99	1
D008	M141	ME8170022018	0.084	9711	B114	A04	1
D008	M023	NM0890010515	0.592	9711	B114	A94	1
D008	M041	NM0890010515	0.135	9711	B114	A94	1
D008	M041	NYD080480734	1.22	9999	B114	A99	1
D008	M041	PAD041529744	0.407	2621	B114	A29	1
D008	M141	TXD008084618	0.71	2899	B114	A69	1
D008	M141	TXD007399637	0.45	2911	B114	A99	1
D008	M032	PAD074965096	67.205	3341	B114	A03	1

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D008	M129	PAD074965096	103.591	3341	B114	A03	1
D008	M077	VTD055731038	12.782	3423	B114	A21	1
D008	M061	PAD051658573	0.28	3448	B114	A57	1
D008	M079	WID006072052	16.207	3479	B114	A03	1
D008	M061	PAD096844311	0.687	3489	B114	A19	1
D008	M125	WID982204968	4.483	3494	B114	A69	1
D008	M077	PRD090383860	0.4	3613	B114	A06	1
D008	M061	VAD098454192	3.575	3672	B114	A29	1
D008	M049	RID030284293	0.688	3674	B114	A35	1
D008	M081	VTD001780725	2.064	3691	B114	A29	1
D008	M081	VTD001780725	0.457	3691	B114	A78	1
D008	M061	TXD000357707	6.39	3728	B114	A31	1
D008	M079	PAD987328374	40.389	4813	B114	A92	1
D008	M079	PAD987342839	35.801	4813	B114	A92	1
D008	M039	PAD982662199	1.656	4911	B114	A59	1
D008	M039	PAD982662553	1.656	4911	B114	A59	1
D008	M019	WVD981113327	4.611	5082	B114	A06	1
D008	M041	VA5170022938	0.014	9711	B114	A59	1
D008	M141	NJD986621522	2.508	2821	B114	A69	2
D008	M099	NJD046956892	0.229	3087	B114	A53	2
D008	M141	MAD985294487	0.247	3821	B114	A59	2
D008	M141	NYD982738205	3.839	4931	B114	A53	2
D008	M121	NYD981483985	1.2	8221	B114	A53	2
D008	M129	MID099113128	0.66	9711	B114	A04	2
D008	M079	MD3210021355	4,892.14	9711	B114	A61	2
D008	M111	MD3210021355	303.791	9711	B114	A61	2
D008	M141	MAD981071616	0.229	9711	B114	A69	2
D008	M141	MAD981071699	0.209	9711	B114	A69	2
D008	M141	MAT087461920	0.229	9711	B114	A69	2
D008	M141	MAT087593065	0.229	9711	B114	A69	2
D008	M141	MAT087757857	0.209	9711	B114	A69	2
D008	M141	MAT089476560	0.229	9711	B114	A69	2
D008	M141	MAT089978700	0.792	9711	B114	A69	2
D008	M141	MAT174475011	0.229	9711	B114	A69	2
D008	M141	MAT176627568	0.229	9711	B114	A69	2
D008	M041	PRD090398074	1.6	2834	B114	A53	2
D008	M121	VAD098454192	137.722	3672	B114	A51	2
D008	M094	NJD986607364	27.287	6531	B116	A79	1
D008	M141	NJ0000074278	0.029	8731	B116	A94	1
D008	M041	NJD986648244	1.25	8741	B116	A19	1
D008	M039	NJD986629723	0.2	9999	B116	A72	1
D008	M061	NJ0000037549	0.4	9999	B116	A79	1
D008	M061	NJ0000079400	0.3	9999	B116	A79	1
D008	M041	NYD986973691	40.367	1622	B119	A29	1
D008	M141	MED985731272	0.04	2621	B119	A05	1
D008	M042	OKD056362601	0.684	2631	B119	A19	1
D008	M013	NJD980594022	3.3	3356	B119	A09	1
D008	M019	NJD002152205	7.533	3357	B119	A53	1
D008	M125	NCD067427922	294.76	3432	B119	A03	1
D008	M079	NMD052686896	13.25	3571	B119	A03	1
D008	M119	NMD052686896	0.75	3571	B119	A03	1
D008	M141	MAD050084276	2	3571	B119	A32	1
D008	M129	NYD001482124	0.3	3629	B119	A31	1
D008	M081	NHD073984288	0.22	3641	B119	A19	1
D008	M041	NCD000831057	0.15	3661	B119	A19	1
D008	M141	MDD046041885	2.752	3663	B119	A29	1
D008	M089	NJD002342517	0.417	3669	B119	A58	1
D008	M079	MND058330473	10.008	3672	B119	A29	1
D008	M141	MED077469864	14.025	3675	B119	A19	1
D008	M141	NCD003195161	15.638	3675	B119	A22	1
D008	M039	MND985668227	1.835	3679	B119	A19	1
D008	M081	ORD009020231	0.706	3679	B119	A29	1
D008	M039	MND006207773	1.344	3711	B119	A59	1
D008	M041	MID005356902	2.893	3711	B119	A59	1
D008	M119	MID005356902	3.147	3711	B119	A59	1
D008	M129	MOD089290118	51.47	3714	B119	A21	1
D008	M111	MID985576495	43.119	3714	B119	A29	1
D008	M141	MAD062163191	3.532	3861	B119	A29	1
D008	M141	MAD001025170	0.229	3949	B119	A59	1
D008	M077	NJD980648539	345.788	4789	B119	A99	1
D008	M141	NCD108706029	0.65	4911	B119	A59	1
D008	M032	LAD071941611	0.69	4911	B119	A99	1
D008	M141	NYD981495385	3.4	4931	B119	A19	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M129	MDD056281447	2.576	5511	B119	A49	1
D008	M021	NYD981141666	1.38	5511	B119	A99	1
D008	M141	NJD986606747	0.196	5541	B119	A49	1
D008	M141	NJD986610186	0.434	5541	B119	A49	1
D008	M141	NJD986606135	0.246	5541	B119	A99	1
D008	M111	NYD980642920	0.44	6513	B119	A58	1
D008	M061	MID981000615	1.08	7389	B119	A59	1
D008	M039	NJD986624971	0.167	7538	B119	A59	1
D008	M043	MD3210021355	0.375	9711	B119	A01	1
D008	M141	MO8571924549	0.025	9711	B119	A49	1
D008	M041	MD3210021355	0.515	9711	B119	A59	1
D008	M041	NM5890110518	0.186	9711	B119	A94	1
D008	M061	SDD000003855	2.17	2759	B119	A58	1
D008	M061	PAD002391548	15.438	2816	B119	A92	1
D008	M061	PRD980759443	2.2	3399	B119	A08	1
D008	M077	PAD015139470	3.706	3471	B119	A01	1
D008	M999	WID006075055	1.169	3499	B119	A09	1
D008	M061	WID006084172	4.4	3585	B119	A37	1
D008	M079	PRD987370939	0.4	3612	B119	A09	1
D008	M111	PRD987370939	1.4	3612	B119	A99	1
D008	M111	WID000713115	1.4	3621	B119	A89	1
D008	M141	VAD003123072	0.4	3671	B119	A49	1
D008	M141	VAD988186110	0	3731	B119	A59	1
D008	M999	WAD980979835	0.28	3841	B119		1
D008	M099	PAD014557805	99.155	3999	B119	A29	1
D008	M072	PAD114336233	0.245	5169	B119	A57	1
D008	M077	VA6170061463	19	9711	B119	A64	1
D008	M999	WA7890008967	0.23	9999	B119		1
D008	M124	ORD093481646	0.208	1721	B119	A08	2
D008	M111	ORD991281460	2.299	3341	B119	A61	2
D008	M141	NCD980602445	0.4	3432	B119	A93	2
D008	M125	NHD066755620	0.688	3679	B119	A99	2
D008	M077	MID005358783	4.587	3714	B119	A22	2
D008	M141	NJD002362762	1.376	3823	B119	A69	2
D008	M041	ORD981761133	1.753	4899	B119	A60	2
D008	M119	OKP410139036	0.812	9999	B119	A99	2
D008	M141	VTD093252096	0.165	3571	B119	A56	2
D008	M141	PAD980829329	3.545	9999	B119	A61	2
D008	M133	VTD980670319	0.457	3471	B2	A31	2
D008	M029	OKD131823130	2.627	2752	B201	A06	1
D008	M061	NCD097716625	0.506	2844	B201	A56	1
D008	M029	NJD046942173	0.006	3531	B201	A19	1
D008	M141	NYD002235216	15.158	3594	B201	A09	1
D008	M029	NJD051277895	2.273	5511	B201	A58	1
D008	M999	WID050549039	56.845	2893	B201	A75	1
D008	M041	TXD007341175	9.24	3828	B201	A04	1
D008	M051	VAD023942295	0.22	4011	B201	A99	1
D008	M078	PA4170000158	1.085	4581	B201	A57	1
D008	M021	PAD000731430	0.613	4911	B201	A09	1
D008	M023	PAD981741150	0.36	9621	B201	A58	1
D008	M043	NYD000809327	0.01	3861	B202	A58	1
D008	M029	NJD986618650	9.091	5511	B202	A19	1
D008	M061	NJD986618650	2.314	5511	B202	A19	1
D008	M021	NJD982179145	0.73	7538	B202	A19	1
D008	M061	WVD098433394	0.378	4922	B202	A06	1
D008	M051	TXD063085062	1.68	8734	B202	A08	1
D008	M132	NJD982277329	1.043	4231	B202	A59	2
D008	M061	MTD986072544	18.159	1221	B203	A19	1
D008	M061	MID044260990	0.514	2043	B203	A29	1
D008	M141	MSD980601686	2.4	3519	B203	A09	1
D008	M061	MND985700582	0.2	3569	B203	A29	1
D008	M051	MND000293076	22.227	3572	B203	A01	1
D008	M061	MAD001008770	0.125	3672	B203	A19	1
D008	M141	MAD001055235	5.011	3679	B203	A05	1
D008	M061	MND006147268	2.167	3679	B203	A29	1
D008	M041	NJD064261985	0.09	3691	B203	A19	1
D008	M019	MID005356860	0.734	3714	B203	A09	1
D008	M141	MAD001408517	1.59	3724	B203	A19	1
D008	M141	MDD046283495	0.045	3731	B203	A19	1
D008	M061	MND980793319	11.24	4011	B203	A19	1
D008	M029	NJD149983496	0.646	7538	B203	A54	1
D008	M029	NJD149983553	0.063	7538	B203	A54	1
D008	M024	MD9210020567	1.675	9199	B203	A57	1

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D008	M141	MD9210020567	0.764	9199	B203	A57	1
D008	M022	NJ0170022172	0.132	9711	B203	A19	1
D008	M061	TXD085154359	2.73	2434	B203	A09	1
D008	M137	TXD085154359	5.97	2434	B203	A09	1
D008	M022	WVD136333580	0.271	3262	B203	A19	1
D008	M021	WID000808451	0.18	3363	B203	A19	1
D008	M061	PAD080879992	1.606	3496	B203	A19	1
D008	M141	VTD000509174	0.66	3675	B203	A	1
D008	M125	TXD007331879	3.57	3692	B203	A04	1
D008	M029	WID006126999	0.822	3713	B203	A69	1
D008	M141	NJD002141489	0.2	2899	B204	A59	1
D008	M051	LAD008080350	0.2	2911	B204	A05	1
D008	M141	MNT280010273	0.65	4922	B204	A19	1
D008	M023	VA2170024606	0.921	2851	B204	A37	1
D008	M029	WID006084966	0.017	3325	B204	A09	1
D008	M041	NMD035806405	0.15	1021	B205	A40	1
D008	M041	NJD000692988	1.251	2621	B205	A58	1
D008	M141	NYD012854048	0.488	2673	B205	A40	1
D008	M141	NJD053101085	0.4	2869	B205	A58	1
D008	M032	NJD042905752	0.205	3221	B205	A19	1
D008	M121	NJD002501211	0.367	3231	B205	A29	1
D008	M085	MND006480495	0.383	3271	B205	A19	1
D008	M041	NJD001289610	3.211	3339	B205	A09	1
D008	M051	NJD001289610	1.835	3339	B205	A19	1
D008	M061	MAD001214717	1.1	3411	B205	A65	1
D008	M141	NYD980768253	0.4	3462	B205	A59	1
D008	M141	NHD018953794	0.4	3484	B205	A59	1
D008	M061	NCD097363527	181.77	3494	B205	A04	1
D008	M077	MID006407142	9.75	3499	B205	A09	1
D008	M032	NYD001493774	9.8	3499	B205	A37	1
D008	M061	ORD052218468	0.22	3535	B205	A40	1
D008	M032	NYD002230977	21	3546	B205	A37	1
D008	M061	NYD002230977	175.3	3546	B205	A37	1
D008	M061	NCD049841232	1.605	3552	B205	A40	1
D008	M099	NJD002163400	54.858	3555	B205	A37	1
D008	M061	NYD982179293	3.802	3559	B205	A49	1
D008	M091	NJD061076600	11.676	3562	B205	A37	1
D008	M061	NCD003154804	63.756	3569	B205	A37	1
D008	M051	NJD077548998	0.44	3599	B205	A54	1
D008	M041	NYD093256063	2.177	3629	B205	A69	1
D008	M141	MED065037491	0.987	3663	B205	A37	1
D008	M041	MED001094473	4.675	3663	B205	A49	1
D008	M019	MND001037639	45.289	3672	B205	A25	1
D008	M089	NJD075418285	0.229	3672	B205	A49	1
D008	M061	MND985708437	0.729	3679	B205	A29	1
D008	M141	MAD001055235	10.3	3679	B205	A29	1
D008	M141	NYD065939902	1.141	3679	B205	A37	1
D008	M141	MAD001055235	55.988	3679	B205	A40	1
D008	M061	NJD002170702	0.211	3679	B205	A54	1
D008	M077	MID005358783	204.608	3714	B205	A40	1
D008	M077	MID985582618	62.539	3714	B205	A49	1
D008	M061	MSD050648757	94.9	3731	B205	A75	1
D008	M141	NHD001083955	0.112	3825	B205	A49	1
D008	M141	NYD000818823	11.5	3841	B205	A57	1
D008	M043	NYD000809327	0.06	3861	B205	A19	1
D008	M079	NYD061956470	0.225	3861	B205	A49	1
D008	M061	MOD046218251	0.763	3999	B205	A31	1
D008	M041	NM0980335624	2.99	4911	B205	A54	1
D008	M061	NYD987034865	0.592	5172	B205	A58	1
D008	M141	NJD061836656	0.459	5511	B205	A	1
D008	M141	MED019026822	0.113	5511	B205	A19	1
D008	M129	NYD986959187	1.4	5541	B205	A38	1
D008	M129	NYD986960383	7.3	5541	B205	A38	1
D008	M041	NJD986594893	0.18	5541	B205	A60	1
D008	M061	NJD986594893	0.167	5541	B205	A60	1
D008	M132	NJD986594893	0.15	5541	B205	A60	1
D008	M109	NJD986616605	1.328	7538	B205	A51	1
D008	M141	NY0000083121	15.279	7538	B205	A60	1
D008	M141	NY6890008992	0.505	8731	B205	A40	1
D008	M021	MS2170022626	3.3	9199	B205	A57	1
D008	M091	ME7170022019	7.78	9711	B205	A19	1
D008	M141	ME7170022019	14.735	9711	B205	A19	1
D008	M141	NY4571924774	0.45	9711	B205	A38	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M129	NY4571924451	0.245	9711	B205	A54	1
D008	M049	NY3570025897	0.229	9999	B205	A59	1
D008	M061	NJ0000037507	1.835	9999	B205	A60	1
D008	M111	PAD000766063	0.6	3312	B205	A60	1
D008	M061	TXD050842277	1.61	3315	B205		1
D008	M041	PAD089352983	7.65	3341	B205	A40	1
D008	M141	PAD089352983	0.225	3341	B205	A40	1
D008	M141	PAD003025830	0.2	3369	B205	A59	1
D008	M041	UTD067981316	4.128	3412	B205	A03	1
D008	M032	WID006073225	54.235	3432	B205	A40	1
D008	M999	WID006073225	0.204	3432	B205	A40	1
D008	M077	PAD982569998	53.541	3443	B205	A40	1
D008	M061	RID001187277	0.437	3479	B205	A03	1
D008	M061	PAD091875310	32.529	3492	B205	A37	1
D008	M085	WID006095616	42.952	3494	B205	A49	1
D008	M041	VTD001078757	0.459	3499	B205	A05	1
D008	M041	VTD981065998	13.903	3499	B205	A05	1
D008	M041	VAD098442148	7.96	3549	B205	A40	1
D008	M021	WID044394757	2.721	3554	B205	A35	1
D008	M049	PAD001502244	10.332	3554	B205	A40	1
D008	M141	PAD001502244	4.375	3554	B205	A40	1
D008	M079	VAD054039961	451.7	3714	B205	A06	1
D008	M061	VTD002085108	543.61	3724	B205	A37	1
D008	M061	VAD001307495	0.19	3731	B205	A40	1
D008	M051	WID076153030	270.185	3822	B205	A49	1
D008	M061	PAD002482628	26.7	3823	B205	A37	1
D008	M061	WID006069710	61.646	3824	B205	A49	1
D008	M041	WID006423495	10.384	3841	B205	A37	1
D008	M077	PAD002602209	0.99	3843	B205	A29	1
D008	M141	PAD002602209	2.996	3843	B205	A29	1
D008	M141	PA3170022104	0.166	4225	B205	A05	1
D008	M141	PAD000765982	0.105	4911	B205	A99	1
D008	M089	PAD005029582	71.003	5047	B205	A40	1
D008	M141	UT1570090018	0.235	9999	B205	A89	1
D008	M061	NED007263619	22.5	3714	B205	A53	2
D008	M119	NYD986973980	2.523	5983	B205	A53	2
D008	M041	MAD019685577	10.271	6512	B205	A69	2
D008	M079	PAD002392991	48.146	3561	B205	A56	2
D008	M141	NYD065939902	3.88	3679	B205	A92	3
D008	M051	NJD096983952	4.796		B206	A06	1
D008	M141	MTD063728984	0.27	1221	B206	A08	1
D008	M141	MID006015960	0.412	2023	B206	A54	1
D008	M061	MID006024749	1.44	2531	B206	A54	1
D008	M041	MAD001029073	4.49	2841	B206	A54	1
D008	M041	NJD053099974	0.619	2843	B206	A54	1
D008	MDK	NJD002385730	0.712	2869	B206	A56	1
D008	M141	NJD002197325	1.835	2891	B206	A57	1
D008	M111	MID005354766	1.446	3086	B206	A54	1
D008	M061	NYD000824359	1.411	3229	B206	A09	1
D008	M129	NYD060545209	0.2	3312	B206	A53	1
D008	M059	MID005356696	1.1	3322	B206	A57	1
D008	M032	MID005357504	22.891	3369	B206	A51	1
D008	M061	MID005357504	915.187	3369	B206	A51	1
D008	M141	NYD002968246	8.525	3451	B206	A40	1
D008	M061	NJT350010195	2.544	3469	B206	A40	1
D008	M051	MND981098478	30.374	3471	B206	A22	1
D008	M061	NCD097363527	14.94	3494	B206	A59	1
D008	M061	NJD002459485	1.758	3496	B206	A54	1
D008	M141	NYD000368423	2.975	3519	B206	A58	1
D008	M141	MND079731519	4.795	3571	B206	A09	1
D008	M061	MND000823922	13.809	3571	B206	A25	1
D008	M141	MAD980672042	2.752	3572	B206	A54	1
D008	M061	NJD986643161	5.448	3581	B206	A54	1
D008	M141	NYD986884963	0.459	3646	B206	A54	1
D008	M061	NYD001530138	0.292	3669	B206	A54	1
D008	M032	MND042651687	5.32	3672	B206	A25	1
D008	M061	MND982066730	0.431	3672	B206	A25	1
D008	M141	MAD051778934	15.66	3672	B206	A25	1
D008	M061	MAD001008770	2.252	3672	B206	A29	1
D008	M061	MND066539743	5.303	3672	B206	A29	1
D008	M049	MAD000652644	2.419	3672	B206	A37	1
D008	M051	MND980700900	25.759	3672	B206	A37	1
D008	M041	MND006219232	2.202	3672	B206	A40	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M061	MNT280010034	1.605	3672	B206	A40	1
D008	M141	MAD980672398	0.319	3674	B206	A54	1
D008	M141	NYD009901059	0.5	3675	B206	A29	1
D008	M041	MND086115615	2.39	3679	B206	A25	1
D008	M125	MND982639775	4.5	3679	B206	A25	1
D008	M051	NYD041429242	1.251	3679	B206	A29	1
D008	M141	NHD001076009	0.075	3679	B206	A37	1
D008	M061	NYD002463305	0.229	3679	B206	A49	1
D008	M141	MAD990886301	0.075	3679	B206	A49	1
D008	M141	NYD002463305	0.459	3679	B206	A49	1
D008	M061	MID006020416	3.156	3714	B206	A54	1
D008	M041	NYD002107399	6.881	3714	B206	A57	1
D008	M042	MED000791681	0.427	3724	B206	A54	1
D008	M129	NJD986644524	0.75	3724	B206	A54	1
D008	M041	NYD002211415	1.376	3823	B206	A40	1
D008	M051	MOD000603472	0.198	3841	B206	A54	1
D008	MDK	NJD000689083	12.9	4111	B206	A54	1
D008	M129	NJ4170022400	0.45	4111	B206	A54	1
D008	MDK	NJD056305816	2.294	4151	B206	A54	1
D008	M051	MND003835501	1.35	4512	B206	A54	1
D008	M141	NYD980648562	0.917	4581	B206	A54	1
D008	M141	NJD986645216	2.919	4789	B206	A38	1
D008	M041	NYD000730382	0.236	4911	B206	A54	1
D008	M041	NYD085503746	18.8	4911	B206	A54	1
D008	M089	NYD980782692	1.428	4911	B206	A54	1
D008	M141	NYD000706044	0.623	4931	B206	A59	1
D008	MDK	NJD986593507	63.752	5541	B206	A38	1
D008	M061	NJD986593507	0.834	5541	B206	A38	1
D008	M132	NJD986593507	0.175	5541	B206	A38	1
D008	M061	NJD981484553	1.1	5541	B206	A54	1
D008	M061	NJD981488174	2.1	5541	B206	A54	1
D008	M061	NJD982742025	1.1	5541	B206	A54	1
D008	M061	NJD986574812	5.9	5541	B206	A54	1
D008	M061	NJD986589166	0.3	5541	B206	A54	1
D008	M061	NJD986595668	0.4	5541	B206	A54	1
D008	M061	NJD986595726	0.6	5541	B206	A54	1
D008	M061	NJD986598597	13.1	5541	B206	A54	1
D008	M061	NJD986598837	46.6	5541	B206	A54	1
D008	M061	NJD986599025	0.5	5541	B206	A54	1
D008	M061	NJD986599215	2.7	5541	B206	A54	1
D008	M061	NJD986599777	1.5	5541	B206	A54	1
D008	M061	NJD986604957	0.4	5541	B206	A54	1
D008	M061	NJD986607711	0.9	5541	B206	A54	1
D008	M061	NJD986607844	0.3	5541	B206	A54	1
D008	M061	NJD986608099	0.8	5541	B206	A54	1
D008	M061	NJD986608370	0.5	5541	B206	A54	1
D008	M061	NJD986610699	0.8	5541	B206	A54	1
D008	M129	NJD981488174	0.1	5541	B206	A54	1
D008	M041	NJD000583823	1.669	5541	B206	A60	1
D008	M041	NJD981141815	2.138	5541	B206	A60	1
D008	M041	NJD986594307	1.211	5541	B206	A60	1
D008	M041	NJD986594737	1.062	5541	B206	A60	1
D008	M043	NJD986593275	23	5541	B206	A60	1
D008	M061	NJD981141815	61.224	5541	B206	A60	1
D008	M061	NJD986593275	0.058	5541	B206	A60	1
D008	M032	NJD986627164	3.24	5599	B206	A54	1
D008	M141	MDP000007936	5.012	7532	B206	A19	1
D008	M032	NJD986616225	4.191	7538	B206	A54	1
D008	M032	NJD986618601	1.038	7538	B206	A54	1
D008	M061	NJ0000059402	1.75	7549	B206	A92	1
D008	M032	MED077462554	0.626	7699	B206	A06	1
D008	M051	MED093623890	0.038	7699	B206	A19	1
D008	M041	NV1210090006	1.431	9711	B206	A54	1
D008	M061	OK9571824045	1.418	9711	B206	A54	1
D008	M125	NM9570024423	0.972	9711	B206	A54	1
D008	M141	MA0570024026	0.21	9711	B206	A59	1
D008	M129	NY2141768703	0.042	9711	B206	A69	1
D008	M061	NJ9690308029	3.117	9999	B206	A92	1
D008	M141	NJ6690330729	3.612	9999	B206	A92	1
D008	M041	PAD014391874	0.315	2621	B206	A54	1
D008	M041	TX1151932133	3.23	3089	B206	A54	1
D008	M042	TX1151932133	0.6	3089	B206	A54	1
D008	M029	WID000808287	0.181	3321	B206	A58	1

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D008	M061	PAD041398348	2.475	3449	B206	A40	1
D008	M061	PRD090193277	9.6	3451	B206	A54	1
D008	M061	TXD008092306	26.21	3491	B206	A40	1
D008	M141	PAD043882281	8.1	3534	B206	A54	1
D008	M061	TXD041321241	2.75	3548	B206	A40	1
D008	M061	PRD000632034	0.2	3613	B206	A54	1
D008	M141	WID980995153	3.3	3621	B206	A57	1
D008	M061	PRD090282757	0.225	3643	B206	A54	1
D008	M061	PRD091150060	0.1	3663	B206	A51	1
D008	M141	PAD002395325	0.12	3671	B206	A54	1
D008	M061	UTD988070215	5.459	3672	B206	A29	1
D008	M141	PA5213820892	0.016	3672	B206	A99	1
D008	M032	TXD000014217	1.73	3679	B206	A59	1
D008	M032	PAD014167589	0.394	3691	B206	A54	1
D008	M041	VTD001780725	2.271	3691	B206	A54	1
D008	M051	VAD054040456	28.375	3714	B206	A49	1
D008	M051	VAD054040456	26.28	3714	B206	A54	1
D008	M141	VTD001075894	0.292	3724	B206	A60	1
D008	M141	VA5170000181	0.578	3731	B206	A54	1
D008	M141	VA1170024813	0.23	3731	B206	A59	1
D008	M061	TXD089602684	0.55	3767	B206	A29	1
D008	M141	TXD000709964	0.66	3812	B206	A49	1
D008	M061	TXD002560233	14.08	3841	B206	A54	1
D008	M141	RID001199272	3.2	3915	B206	A49	1
D008	M141	RID001199272	0.825	3915	B206	A54	1
D008	M051	PAD120442660	1.452	4911	B206	A53	1
D008	M041	PAD114942832	0.745	9711	B206	A54	1
D008	M141	VA6170061463	33.17	9711	B206	A54	1
D008	M051	UT9210020922	0.079	9711	B206	A58	1
D008	M041	MND049537129	13.376	1011	B206	A69	2
D008	M061	MND049537129	6	1011	B206	A69	2
D008	M041	NJD042321042	2	2834	B206	A65	2
D008	M061	NED000802843	0.523	3052	B206	A56	2
D008	M041	NJD002349850	50	3221	B206	A57	2
D008	M041	NYD002134880	0.9	3312	B206	A09	2
D008	M141	NYD002134880	1.1	3312	B206	A09	2
D008	M099	NJD986592129	11.468	3356	B206	A69	2
D008	M129	MAD087443537	7.388	4011	B206	A65	2
D008	M141	MID985657444	2.015	4011	B206	A65	2
D008	M141	MID985657469	2.45	4011	B206	A65	2
D008	M141	MID985657477	1.575	4011	B206	A65	2
D008	M089	NJD986621324	0.459	5541	B206	A54	2
D008	M111	NYD987029766	6.5	5541	B206	A65	2
D008	M061	NJ3210020597	1.251	9711	B206	A69	2
D008	M141	VTD002065597	0.129	3692	B206	A53	2
D008	M141	PAD004321527	0.207	3821	B206	A56	2
D008	M141	PAD004327987	2.8	3494	B206	A59	3
D008	M039	MID080508914	40.726	1011	B207	A57	1
D008	M061	MND071507644	2.602	1011	B207	A59	1
D008	M051	MOD985808203	1.39	3061	B207	A54	1
D008	M141	MSD985967165	0.25	3086	B207	A59	1
D008	M141	MOD093750966	0.581	3334	B207	A59	1
D008	M141	NHD981211881	5.15	3672	B207	A01	1
D008	M041	NHD986466688	3.397	3672	B207	A57	1
D008	M032	MAD000649640	1.359	3674	B207	A19	1
D008	M141	NJD980766091	0.087	3679	B207	A04	1
D008	M049	ND3571924759	0.113	4522	B207	A58	1
D008	M059	ND3571924759	0.74	4522	B207	A89	1
D008	M059	LAD985171248	6.6	4922	B207	A09	1
D008	M141	NJD986621183	1.251	5511	B207	A59	1
D008	M141	NYD981138472	4.37	5511	B207	A99	1
D008	M129	NY4571924774	0.23	9711	B207	A19	1
D008	M141	NV5570024112	1.057	9711	B207	A57	1
D008	M141	NC1170027261	0.225	9711	B207	A59	1
D008	M141	NC6570024475	6.503	9711	B207	A59	1
D008	M141	NC8210020121	9.918	9711	B207	A59	1
D008	M141	MI0571924760	0.233	9999	B207	A59	1
D008	M141	WID006101695	0.136	3351	B207	A19	1
D008	M141	PAD982363897	15.788	3451	B207	A49	1
D008	M089	WID006073225	0.286	3471	B207	A58	1
D008	M129	PAD056771405	0.05	3691	B207	A94	1
D008	M077	WID006092555	2.195	3714	B207	A31	1
D008	M124	UTD988079133	0.75	4800	B207	A19	1

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D008	M129	UTD988079133	1.235	4800	B207	A19	1
D008	M141	PAD000804997	1.288	5171	B207	A78	1
D008	M077	UT0571724350	0.559	7538	B207	A59	1
D008	M132	UT0571724350	0.488	7538	B207	A59	1
D008	M141	TX2571724333	13.86	9711	B207	A22	1
D008	M119	NJD986641124	1	1721	B209	A21	1
D008	M119	NJD986647303	33.6	1721	B209	A21	1
D008	M051	NJD060724713	0.644	2674	B209	A29	1
D008	M111	NJD067520890	0.2	2869	B209	A58	1
D008	M111	MDD003084514	32.1	3446	B209	A21	1
D008	M111	MID981089022	24.75	3479	B209	A21	1
D008	M043	MID982604001	0.459	3479	B209	A38	1
D008	M014	MSD081338832	0.563	3585	B209	A21	1
D008	M141	MAD051778934	2.267	3672	B209	A09	1
D008	M049	MID005356928	1.101	3711	B209	A58	1
D008	M043	NYD000809327	0.1	3861	B209	A21	1
D008	M141	MID982628471	0.229	4011	B209	A57	1
D008	M061	MND000826248	0.234	4011	B209	A58	1
D008	M141	NYD991290800	0.3	4729	B209	A21	1
D008	M119	NJD000556340	0.688	4785	B209	A57	1
D008	M141	MAD030821631	10.065	4911	B209	A21	1
D008	M141	NJD003909819	0.03	4911	B209	A51	1
D008	M141	NYD981078330	1.536	4911	B209	A69	1
D008	M141	NJD006980924	0.6	8731	B209	A21	1
D008	M043	NC1170027261	0.2	9711	B209	A21	1
D008	M141	MD4170090001	0.01	9711	B209	A21	1
D008	M141	NV9170022173	0.005	9711	B209	A57	1
D008	M141	NV9170022173	0.005	9711	B209	A58	1
D008	M111	NHD986484152	69.984	9999	B209	A57	1
D008	M141	PAD981738214	2.31	1611	B209	A21	1
D008	M111	WID006085757	15.846	2531	B209	A09	1
D008	M077	WID006085757	27.521	2531	B209	A58	1
D008	M111	PAD002124360	0.737	3494	B209	A21	1
D008	M042	TXD990797441	2.46	3531	B209	A21	1
D008	M021	WID074780982	1.166	3531	B209	A89	1
D008	M041	WID074780982	0.1	3531	B209	A89	1
D008	M043	WID074780982	6.503	3531	B209	A89	1
D008	M141	VA1170024813	0.107	3731	B209	A21	1
D008	M141	VAD988186110	0.002	3731	B209	A58	1
D008	M141	VA1170024813	0.029	3731	B209	A59	1
D008	M129	VA3971520751	0.002	9711	B209	A58	1
D008	M129	MDP000007680	11.7	1721	B209	A21	2
D008	M111	NJD986589992	4.75	2653	B209	A69	2
D008	M132	MID985665520	2.52	4941	B209	A08	2
D008	M111	WID006085757	13.481	2531	B209	A99	2
D008	M061	WID006169502	10.7	3011	B209	A58	2
D008	M141	PAD003046679	4.96	3494	B209	A22	2
D008	M089	NJD001986801	22.544	2671	B210	A09	1
D008	M132	MID005318480	2.188	3069	B210	A29	1
D008	M141	NJD981184773	0.251	3728	B210	A58	1
D008	M141	MD4690307844	0.003	3731	B210	A58	1
D008	M077	NY5690319889	0.125	9199	B210	A58	1
D008	M041	NY2141768703	0.003	9711	B210	A69	1
D008	M141	MI0571924760	0.005	9999	B210	A49	1
D008	M041	RID001786565	1.815	3714	B210	A58	1
D008	M141	PAD096837356	0.005	3721	B210	A21	1
D008	M111	PA6213820503	0.249	9711	B210	A29	1
D008	M061	NYD002116499	0.23	3231	B211	A09	1
D008	M061	NCD980840466	18.975	3524	B211	A01	1
D008	M029	NYD013128582	0.613	3559	B211	A19	1
D008	M061	NYD066075797	1.048	3643	B211	A03	1
D008	M021	MOD106563562	0.5	4011	B211	A19	1
D008	M141	NJD980648497	0.229	4581	B211	A19	1
D008	M029	NJD011876042	0.417	5511	B211	A29	1
D008	M039	NYD980664171	4	9199	B211	A21	1
D008	M141	MI0571924760	0.585	9999	B211	A05	1
D008	M029	WIT560011215	0.233	2741	B211	A05	1
D008	M043	WID088694799	2	3441	B211	A21	1
D008	M051	VAD054040456	50.4	3714	B211	A05	1
D008	M061	PAD054140504	12.15	3715	B211	A21	1
D008	M141	VTD001075894	6.105	3724	B211	A05	1
D008	M141	VA1170024813	0.018	3731	B211	A49	1
D008	M141	VA5170000181	0.05	3731	B211	A49	1

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D008	M051	PAD982674913	0.826	9621	B211	A19	1
D008	M141	VA6170061463	0.011	9711	B211	A58	1
D008	M061	MOD000823252	3.239	1031	B219	A53	1
D008	M141	NYD002067882	0.585	2611	B219	A54	1
D008	M061	LAD008086506	0.392	2812	B219	A59	1
D008	M032	MAD985285758	4	2834	B219	A57	1
D008	M125	MDD003082997	0.95	2844	B219	A21	1
D008	M041	MID005358825	20.2	2851	B219	A99	1
D008	M041	NJD002385730	10.307	2869	B219	A09	1
D008	M141	NYD986934420	0.193	3494	B219	A19	1
D008	M021	OKD074294612	0.573	3519	B219	A19	1
D008	M111	NHD118087154	3	3567	B219	A31	1
D008	M021	MOD006299135	0.6	3585	B219	A59	1
D008	M141	NYD986934420	0.385	3594	B219	A19	1
D008	M061	NYD980777320	1.848	3612	B219	A29	1
D008	M041	NYD093256063	2.735	3629	B219	A92	1
D008	M081	NHD073984288	5.18	3641	B219	A05	1
D008	M141	MAD990685554	0.075	3669	B219	A49	1
D008	M141	NHD981211881	0.975	3672	B219	A01	1
D008	M051	NYD045201688	5.7	3672	B219	A29	1
D008	M061	MND000819292	0.784	3672	B219	A29	1
D008	M141	MAD980525505	3.211	3672	B219	A29	1
D008	M061	NED035093053	1	3676	B219	A19	1
D008	M051	NYD091975037	2.3	3699	B219	A49	1
D008	M041	MND980996391	1.925	3699	B219	A99	1
D008	M041	MOD085002319	28.799	3711	B219	A22	1
D008	M061	MOD085002319	12.936	3711	B219	A22	1
D008	M089	MDD004383402	1.374	3812	B219	A59	1
D008	M141	NHD001091073	0.292	3825	B219	A29	1
D008	M141	MAD086534864	0.212	3841	B219	A99	1
D008	M141	MAD062163191	0.264	3861	B219	A49	1
D008	M039	NJD003811841	2.4	4212	B219	A59	1
D008	M041	MNT280010778	14.262	4225	B219	A58	1
D008	M141	NJ2360010332	27.7	4499	B219	A19	1
D008	M039	NJD986614519	0.834	4512	B219	A58	1
D008	M041	ND3571924759	0.004	4522	B219	A58	1
D008	M041	LA6170022788	0.224	4581	B219	A57	1
D008	M041	MND076502335	0.417	4613	B219	A58	1
D008	M141	NJD982532590	4.5	4925	B219	A59	1
D008	M039	NJD986609121	0.46	5399	B219	A99	1
D008	M039	NJD986627446	0.23	5399	B219	A99	1
D008	M039	NJD986631968	0.92	5399	B219	A99	1
D008	M039	NJD986632453	1.15	5399	B219	A99	1
D008	M129	NJD070572425	1.147	5511	B219	A09	1
D008	M029	NJD986618643	1.076	5511	B219	A19	1
D008	M032	NJD986612455	1.757	5511	B219	A54	1
D008	M061	NJD986612455	22.357	5511	B219	A54	1
D008	M141	NJD986625028	0.157	5511	B219	A54	1
D008	M029	NYD049833163	5.911	5511	B219	A59	1
D008	M039	MDD022545909	3.289	5511	B219	A99	1
D008	M039	NJD986604395	0.254	5541	B219	A49	1
D008	M061	NJD986604601	0.834	5541	B219	A49	1
D008	M061	NJD986604668	0.025	5541	B219	A49	1
D008	M061	NJD986604940	0.05	5541	B219	A49	1
D008	M061	NJD986605020	0.087	5541	B219	A49	1
D008	M061	NJD986605103	0.08	5541	B219	A49	1
D008	M061	NJD986605384	0.229	5541	B219	A49	1
D008	M032	NJD986609972	1.147	5541	B219	A51	1
D008	M032	NJD986613065	0.2	5541	B219	A53	1
D008	M032	NJD986617991	0.2	5541	B219	A54	1
D008	M032	NJD986625028	0.1	5541	B219	A54	1
D008	M061	NJD986617991	0.2	5541	B219	A54	1
D008	M061	NJD986621845	0.196	5541	B219	A54	1
D008	M061	NJD986625028	15.2	5541	B219	A54	1
D008	M061	NJD986608651	13.2	5541	B219	A59	1
D008	M061	NJP000909101	15.2	5541	B219	A59	1
D008	M129	NJD986608651	2.1	5541	B219	A59	1
D008	M061	NYD986930279	3.8	5541	B219	A60	1
D008	M061	NJD986639201	0.2	7538	B219	A54	1
D008	M021	NYD986990539	2.408	7549	B219	A99	1
D008	M021	NYD986990562	3.803	7549	B219	A99	1
D008	M021	NYD986991032	4.613	7549	B219	A99	1
D008	M051	MID985574961	1.525	8711	B219	A37	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M032	NJD986653426	0.41	8711	B219	A49	1
D008	M039	NJ0170022172	0.62	9711	B219	A51	1
D008	M141	NV7570024110	0.221	9711	B219	A53	1
D008	M049	WYD073419517	1.486	1221	B219	A58	1
D008	M141	TXD008016404	1.3	1721	B219	A72	1
D008	M023	WID006126379	0.625	3548	B219	A69	1
D008	M141	WID006114078	1.12	3554	B219	A29	1
D008	M061	PAD097880538	1	3672	B219	A29	1
D008	M061	TXD982563488	5.83	3672	B219	A29	1
D008	M077	PAD097880538	0.25	3672	B219	A29	1
D008	M041	TXD988043204	5.01	3672	B219	A37	1
D008	M141	VAD066000993	3.391	3672	B219	A91	1
D008	M061	PAD987270998	0.1	3679	B219	A56	1
D008	M041	PAD002279149	0.6	3679	B219	A93	1
D008	M141	VAD988186110	0.019	3731	B219	A58	1
D008	M129	PAD003044971	0.3	3795	B219	A99	1
D008	M032	PAD002343200	7.68	3996	B219	A99	1
D008	M052	WVD988799995	0.5	4011	B219	A54	1
D008	M111	WVD988799995	0.5	4011	B219	A54	1
D008	M141	PA8213820642	0.18	4225	B219	A59	1
D008	M141	PAD061102125	0.039	4231	B219	A19	1
D008	M061	PAD086681392	0.836	4789	B219	A19	1
D008	M141	WID098547854	1.61	4953	B219	A69	1
D008	M129	WID045391927	1.147	5171	B219	A60	1
D008	M141	PAD081624520	2.1	7538	B219	A59	1
D008	M141	PAD981738214	0.787	7538	B219	A59	1
D008	M141	PAD980919088	0.5	7539	B219	A99	1
D008	M999	WA2170023418	0.24	9711	B219		1
D008	M077	VAD988228359	0.05	9711	B219	A19	1
D008	M141	UT3213820894	0.011	9711	B219	A58	1
D008	M061	ORD093481646	1.504	1721	B219	A29	2
D008	M039	NJD002406171	0.25	2842	B219	A56	2
D008	M141	NCD048469993	0.2	2843	B219	A58	2
D008	M141	NJD002395382	0.305	3561	B219	A58	2
D008	M061	MID985663467	0.85	4011	B219	A65	2
D008	M129	NYD023949654	1.6	5541	B219	A57	2
D008	M129	NYD061935474	5.3	5541	B219	A57	2
D008	M129	NYD981485022	12.6	5541	B219	A57	2
D008	M129	NYD986958502	6	5541	B219	A57	2
D008	M129	NYD986958577	10.8	5541	B219	A57	2
D008	M129	NYD986958601	1.4	5541	B219	A57	2
D008	M129	NYD986958627	33.6	5541	B219	A57	2
D008	M129	NYD987020120	3.2	5541	B219	A57	2
D008	M141	NYD000702027	6.5	5541	B219	A59	2
D008	M061	NJD981083587	2.3	5541	B219	A60	2
D008	M061	NJD981132483	0.4	5541	B219	A60	2
D008	M061	NJD982739187	1.1	5541	B219	A60	2
D008	M061	NJD982790933	0.6	5541	B219	A60	2
D008	M061	NJD986574812	0.6	5541	B219	A60	2
D008	M061	NJD986595726	0.5	5541	B219	A60	2
D008	M061	NJD986595767	1.3	5541	B219	A60	2
D008	M061	NJD986595783	10.4	5541	B219	A60	2
D008	M061	NJD986596377	4.5	5541	B219	A60	2
D008	M061	NJD986598571	2	5541	B219	A60	2
D008	M061	NJD986598886	13.3	5541	B219	A60	2
D008	M061	NJD986598936	1.1	5541	B219	A60	2
D008	M061	NJD986599017	1.7	5541	B219	A60	2
D008	M061	NJD986599025	2.5	5541	B219	A60	2
D008	M061	NJD986599041	0.2	5541	B219	A60	2
D008	M061	NJD986599207	0.1	5541	B219	A60	2
D008	M061	NJD986599488	1.3	5541	B219	A60	2
D008	M061	NJD986599686	1	5541	B219	A60	2
D008	M061	NJD986599884	1.7	5541	B219	A60	2
D008	M061	NJD986604965	0.3	5541	B219	A60	2
D008	M061	NJD986608313	0.3	5541	B219	A60	2
D008	M061	NJD986608545	1.5	5541	B219	A60	2
D008	M061	NJD986608727	0.3	5541	B219	A60	2
D008	M061	NJD986608784	0.2	5541	B219	A60	2
D008	M061	NJD986610814	1.3	5541	B219	A60	2
D008	M061	NJD986612158	0.2	5541	B219	A60	2
D008	M061	NJD986646982	3.8	5541	B219	A60	2
D008	M132	MTD986073245	39.5	5541	B219	A65	2
D008	M111	WID006073225	0.413	3431	B219	A53	2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M132	VA6690500909	0.459	4581	B219	A59	2
D008	M999	WAD114685373	0.2	4911	B219		2
D008	M041	PAD000797670	0.2	5171	B219	A59	2
D008	M032	TXD981914534	522	2999	B296		1
D008	M061	MID087738431	0.385	3312	B301	A92	1
D008	M132	NJD002152205	154	3357	B301	A69	1
D008	M132	OKP410139374	0.981	3533	B301	A92	1
D008	M111	NJD986586626	136.469	4785	B301	A53	1
D008	M111	MID085899706	92.917	4911	B301	A29	1
D008	M141	MAD051774156	5	5171	B301	A65	1
D008	M129	NJD986626356	109.8	5171	B301	A69	1
D008	M141	NJD000572446	3.696	6512	B301	A69	1
D008	M043	MOD981709272	2.475	8734	B301	A94	1
D008	M141	NJ4213720275	0.917	9711	B301	A53	1
D008	M132	TXD006451090	722	3312	B301	A35	1
D008	M141	VA1170024813	0.915	3731	B301	A29	1
D008	M119	WID086686003	2.293	3844	B301	A99	1
D008	M132	NYD981560931	91	1794	B301	A61	2
D008	M132	NYD043815158	12.27	2869	B301	A93	2
D008	M132	NJD002173946	2,087.28	2892	B301	A69	2
D008	M111	LAD008058471	150.6	2911	B301	A69	2
D008	MDK	NJD044887743	4.5	3452	B301	A68	2
D008	M132	NJD044887743	24.5	3452	B301	A68	2
D008	M132	MID000810648	199.79	3711	B301	A65	2
D008	M111	NYD051809952	2.3	4212	B301	A53	2
D008	M032	NJD064292261	0.05	4231	B301	A53	2
D008	M051	NJD986586386	3,037.69	4785	B301	A69	2
D008	M111	NJD986586592	17.5	4785	B301	A69	2
D008	M111	NJD986586634	25.136	4785	B301	A69	2
D008	M111	NJD986586733	2,714.00	4785	B301	A69	2
D008	M141	NJD986586733	396.416	4785	B301	A69	2
D008	M043	NYD085503746	0.5	4911	B301	A53	2
D008	M111	MID985663970	17	4922	B301	A53	2
D008	M132	NJD980533582	53.44	4931	B301	A60	2
D008	M132	NJD980533541	5.274	4931	B301	A92	2
D008	M019	NJD002329449	132.49	5085	B301	A69	2
D008	M111	NCT000002251	95.77	5093	B301	A69	2
D008	M043	ORD000641639	2.315	5171	B301	A51	2
D008	M111	ORD009597543	0.301	5171	B301	A51	2
D008	M132	ORD093481646	12.98	5171	B301	A53	2
D008	M111	NJT350011144	13.62	5171	B301	A69	2
D008	M043	NJD011717584	507.595	8999	B301	A61	2
D008	M111	NJD011717584	3,006.91	8999	B301	A61	2
D008	M119	MS2170022626	0.05	9199	B301	A53	2
D008	M141	NC6570024475	0.47	9711	B301	A53	2
D008	M049	NJD986573715	0.927	9711	B301	A69	2
D008	M043	ORD027615186	21.519	9999	B301	A61	2
D008	M119	NJD986648954	1.323	9999	B301	A62	2
D008	M111	PAD002107076	62	3412	B301	A69	2
D008	M132	PAD002107076	40	3412	B301	A69	2
D008	M132	PAD004342556	12	3743	B301	A57	2
D008	M141	WID988635868	0.665	9199	B301	A99	2
D008	M011	NVD986767572	0.993	1044	B302	A78	1
D008	M011	NVD986767572	1.985	1044	B302	A92	1
D008	M119	NJD986587079	142.228	1611	B302	A69	1
D008	M111	NYD987033966	53.2	1622	B302	A92	1
D008	M043	LAD008187080	18.13	2869	B302	A21	1
D008	M132	NJD042912287	302.4	2869	B302	A99	1
D008	M141	NYD000799122	1.8	2892	B302	A56	1
D008	M132	MID005356696	5.765	3322	B302	A53	1
D008	M133	NED007285257	220.28	3366	B302	A99	1
D008	M032	NYD002114924	1.5	3442	B302	A69	1
D008	M013	NYD002240638	15.75	3484	B302	A08	1
D008	M141	NHD002059525	1	3484	B302	A92	1
D008	MDK	NJD002345247	88.92	3497	B302	A53	1
D008	M129	NJD002461234	0.235	3559	B302	A92	1
D008	M043	MND000608554	0.072	3571	B302	A29	1
D008	M132	NCT000002235	10	3691	B302	A06	1
D008	M119	NJD002186690	6,118.85	3711	B302	A99	1
D008	M061	MID086744802	0.2	3714	B302	A59	1
D008	M043	NED000822775	3	4013	B302	A69	1
D008	M132	NYD987029949	35	4225	B302	A60	1
D008	M111	MDD010094621	2.4	4613	B302	A29	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M111	NCD057038168	6.6	4613	B302	A29	1
D008	M141	NCD057038168	7.8	4613	B302	A29	1
D008	M141	NYD981483332	0.75	4789	B302	A21	1
D008	M111	NYD987025780	2.55	4813	B302	A69	1
D008	M032	NYD987039138	1.402	4911	B302	A05	1
D008	M111	NYD000730382	3.722	4911	B302	A05	1
D008	M111	NYD980779151	25.057	4911	B302	A05	1
D008	M111	NYD980788483	1.804	4911	B302	A05	1
D008	M129	NYD980782692	4.009	4911	B302	A05	1
D008	M129	NYD981076904	1.569	4911	B302	A05	1
D008	M141	NYD980788483	0.761	4911	B302	A05	1
D008	M141	MID084305903	1.25	4922	B302	A21	1
D008	M141	NJD094961042	0.3	4931	B302	A19	1
D008	M141	NYD000706044	0.15	4931	B302	A59	1
D008	M111	NYD000706218	1,035.30	4931	B302	A60	1
D008	M111	NYD982177743	20.2	4931	B302	A60	1
D008	M119	NYD137976247	54.3	4931	B302	A60	1
D008	M141	NYD000706218	806	4931	B302	A60	1
D008	M141	NYD078510211	27.3	4931	B302	A60	1
D008	M141	NYD137976247	1,490.30	4931	B302	A60	1
D008	M141	NYD982177743	1,704.60	4931	B302	A60	1
D008	M141	NYD986872489	79.3	4931	B302	A60	1
D008	M141	NYD987010964	403.8	4931	B302	A60	1
D008	M132	NJD000574004	19	4931	B302	A99	1
D008	M141	NYD980593636	29.8	4931	B302	A99	1
D008	M141	NJD060728060	13.5	5171	B302	A08	1
D008	M141	NYD986880318	3.75	5171	B302	A08	1
D008	M141	MAD985296482	70.8	5541	B302	A69	1
D008	M132	NYD080480734	0.182	7997	B302	A99	1
D008	M141	NYD080480734	0.19	7997	B302	A99	1
D008	M141	NHD000790923	0.042	8221	B302	A21	1
D008	M141	MDD980829873	0.606	8221	B302	A69	1
D008	M111	NYD987035532	6.9	9511	B302	A08	1
D008	M141	NJ1680090015	0.202	9511	B302	A94	1
D008	M141	NYD987008554	1.25	9621	B302	A21	1
D008	M132	OK9571824045	38.12	9711	B302	A21	1
D008	M141	NC1170027261	0.017	9711	B302	A53	1
D008	M111	ME7170022019	251.92	9711	B302	A69	1
D008	M141	NY2690300635	6.4	9711	B302	A69	1
D008	M111	WID988637419	30.688	1622	B302	A19	1
D008	M111	WID988637427	30.388	1622	B302	A19	1
D008	M111	WID988637435	14.328	1622	B302	A19	1
D008	M132	VAD009305137	44	2824	B302	A59	1
D008	M132	VA1210020730	0.761	2892	B302	A53	1
D008	M111	VID980536080	21.3	2911	B302	A29	1
D008	M111	WVD004319208	55.7	3089	B302	A53	1
D008	M111	PAD004335154	882.84	3312	B302	A69	1
D008	M132	TXD008091712	2.98	3334	B302	A69	1
D008	M041	VTD001780725	0.027	3691	B302	A29	1
D008	M141	VA1170024813	0.64	3731	B302	A21	1
D008	M019	WY5571924179	0.302	3761	B302	A01	1
D008	M119	WID086686003	5.045	3844	B302	A56	1
D008	M141	RID001199272	0.2	3915	B302	A94	1
D008	M119	VAD007941644	1,073.00	4011	B302	A99	1
D008	M129	PA3170022104	14.77	4225	B302	A69	1
D008	M111	WID000711416	9.01	4911	B302	A29	1
D008	M077	PA8890031869	110.2	8733	B302	A69	1
D008	M141	VA5170022482	0.275	9711	B302	A53	1
D008	M111	VA0572890002	25.55	9711	B302	A69	1
D008	M125	NCT000002336	8.1	291	B302	A69	2
D008	M111	NYD987034451	937.6	1542	B302	A69	2
D008	M119	NYD000512848	826.4	1794	B302	A61	2
D008	M111	NYD025597048	7.875	2653	B302	A65	2
D008	M112	NJD051265239	302.8	2819	B302	A69	2
D008	M141	NJD986621522	2.576	2821	B302	A69	2
D008	M019	NJD002171213	545.16	2851	B302	A69	2
D008	M111	NYD093249688	0.45	2865	B302	A60	2
D008	M132	LAD079460895	3.79	2869	B302	A69	2
D008	M132	NJD053101085	410	2869	B302	A69	2
D008	M141	NJD986650273	0.45	3087	B302	A69	2
D008	M141	MED000840991	0.603	3264	B302	A91	2
D008	M132	NJD004496881	170.4	3316	B302	A69	2
D008	M132	NCD045646924	89.8	3339	B302	A53	2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M111	NJD002190155	24.4	3357	B302	A69	2
D008	M141	NJD002143261	31.8	3357	B302	A69	2
D008	M111	MND000819268	0.054	3489	B302	A53	2
D008	M111	NJD038475133	128.016	3499	B302	A69	2
D008	M141	NCD986171882	0.5	3534	B302	A53	2
D008	M132	NJD053426474	1,564.00	3594	B302	A69	2
D008	M141	NJD039112917	0.6	3662	B302	A99	2
D008	M111	NYD981484785	1.5	3671	B302	A69	2
D008	M132	MOD007152903	33.124	3672	B302	A69	2
D008	M132	NCD003213030	22.51	3691	B302	A99	2
D008	M132	MID005357975	1,397.00	3711	B302	A65	2
D008	M132	NYD982183857	18	3743	B302	A69	2
D008	M111	NYD987018496	3.4	4813	B302	A69	2
D008	M111	NYD987030491	117	4813	B302	A69	2
D008	M111	NYP000011826	1.7	4813	B302	A69	2
D008	M111	NYP000794891	1.7	4813	B302	A69	2
D008	M111	NYP000908129	1.7	4813	B302	A69	2
D008	M111	NYP000908293	1.7	4813	B302	A69	2
D008	M111	NYP000908616	5.1	4813	B302	A69	2
D008	M111	NYP000908715	1.7	4813	B302	A69	2
D008	M111	NYP000908962	1.7	4813	B302	A69	2
D008	M111	NYP000909218	2.55	4813	B302	A69	2
D008	M111	NYP000909663	2.55	4813	B302	A69	2
D008	M111	NYP000909929	1.7	4813	B302	A69	2
D008	M111	NYP000909945	3.4	4813	B302	A69	2
D008	M111	NYP000910000	1.7	4813	B302	A69	2
D008	M111	NYP000910018	2.55	4813	B302	A69	2
D008	M111	NYP000910026	2.55	4813	B302	A69	2
D008	M111	NYP000910059	4.25	4813	B302	A69	2
D008	M111	NYP000910968	1.575	4813	B302	A69	2
D008	M111	NYP000910992	5.81	4813	B302	A69	2
D008	M111	NYP000911040	1.7	4813	B302	A69	2
D008	M111	NYP000911057	2.55	4813	B302	A69	2
D008	M111	NYP000911255	1.7	4813	B302	A69	2
D008	M111	NYP000911529	2.55	4813	B302	A69	2
D008	M111	NYP000911628	1.7	4813	B302	A69	2
D008	M111	NYP000911677	1.7	4813	B302	A69	2
D008	M111	NYP000912089	1.7	4813	B302	A69	2
D008	M111	NYP000912121	2.55	4813	B302	A69	2
D008	M111	NYP000912535	2.55	4813	B302	A69	2
D008	M111	NYP000912543	6.8	4813	B302	A69	2
D008	M141	NYP000910158	1.369	4813	B302	A69	2
D008	M132	NYD982738205	252.32	4931	B302	A53	2
D008	M141	NJD077070811	0.015	4931	B302	A53	2
D008	M141	NYD980648158	0.3	4931	B302	A53	2
D008	M141	NYD980648208	7.41	4931	B302	A59	2
D008	M111	NYD012800173	758.6	5171	B302	A69	2
D008	M111	NYD000071282	10	5541	B302	A69	2
D008	M111	NYD987029006	42	5541	B302	A69	2
D008	M132	NJD079320495	49.825	6512	B302	A69	2
D008	M111	NYD126912054	0.9	7538	B302	A69	2
D008	M119	NJD986627271	0.35	7539	B302	A59	2
D008	M141	NYD987026135	51.25	7539	B302	A69	2
D008	M132	MID985663350	537.6	7997	B302	A69	2
D008	MN/A	NJD986613891	1.6	8211	B302	A65	2
D008	M111	NYD987040037	4	8211	B302	A79	2
D008	M111	MD0120508940	1,310.21	8733	B302	A69	2
D008	M132	ME9570024522	14.87	9711	B302	A64	2
D008	M141	MAD981071616	10.6	9711	B302	A69	2
D008	M141	MAD981071699	21.512	9711	B302	A69	2
D008	M141	MAD981071756	28.85	9711	B302	A69	2
D008	M141	MAT087461920	5.25	9711	B302	A69	2
D008	M141	MAT087593065	3.75	9711	B302	A69	2
D008	M141	MAT087757857	12.25	9711	B302	A69	2
D008	M141	MAT089476560	12.25	9711	B302	A69	2
D008	M141	MAT089978700	7	9711	B302	A69	2
D008	M141	MAT174475011	66.5	9711	B302	A69	2
D008	M141	MAT176627568	5.1	9711	B302	A69	2
D008	M111	NYP000909580	6.9	9999	B302	A21	2
D008	M111	NJD986620664	227	9999	B302	A62	2
D008	M111	NJD986633543	1,168.00	9999	B302	A62	2
D008	M111	NJD986641637	713	9999	B302	A62	2
D008	M132	NJD986648954	111.25	9999	B302	A62	2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M129	NJD986579449	1,655.40	9999	B302	A69	2
D008	M141	TT9570090002	0.57	1721	B302	A69	2
D008	M077	PAP000006834	187	2431	B302	A69	2
D008	M111	PAD069038941	14.8	2816	B302	A69	2
D008	M111	PAD098150535	478.8	2819	B302	A99	2
D008	M132	PAD002311884	322.49	2851	B302	A69	2
D008	M111	PAD004332300	23.4	3229	B302	A69	2
D008	M111	PAD990753089	41.3	3341	B302	A59	2
D008	M132	VAD988218038	6.545	3441	B302	A69	2
D008	M111	PAD045880861	168.92	3535	B302	A69	2
D008	M111	PAD079181186	50	3691	B302	A69	2
D008	M119	WID006135388	0.594	3731	B302	A99	2
D008	M111	PAD981035017	57.23	3995	B302	A53	2
D008	M129	PRD980644470	4.579	4911	B302	A53	2
D008	M132	PRD980644496	6.314	4911	B302	A53	2
D008	M043	PAD043583848	0.607	7699	B302	A53	2
D008	M111	WID988639829	8	7997	B302	A99	2
D008	M111	PAD049628480	50	8733	B302	A69	2
D008	M999	WID003967148	4,663.52	9511	B302	A59	2
D008	M111	PAP000006975	763.7	9621	B302	A99	2
D008	M111	PAD980829329	5,066.30	9999	B302	A61	2
D008	M111	PAP000005734	2,545.00	9999	B302	A61	2
D008	M132	PAD980829329	421.7	9999	B302	A61	2
D008	M132	PAP000005734	980	9999	B302	A61	2
D008	M111	PAP000006118	252.3	9999	B302	A69	2
D008	M111	PAP000006385	142.4	9999	B302	A69	2
D008	M111	NJD000909234	247.4	4952	B302	A75	3
D008	M141	MS6210809871	0.711	9199	B302	A94	3
D008	M129	NHD045013257	0.656	2761	B303	A60	1
D008	M111	LAD071940233	26.2	3491	B303	A74	1
D008	M141	NY5120010710	8.4	8733	B303	A74	1
D008	M129	LA9571924050	0.251	9711	B303	A59	1
D008	M132	LAD981055791	16.8	9999	B303	A74	1
D008	M132	VA1210020730	117	2892	B303	A74	1
D008	M141	WI9210020054	0.233	2892	B303	A74	1
D008	M111	UTD988078150	86.03	4953	B303	A78	1
D008	M119	WID981093255	9.488	5093	B303	A74	1
D008	M132	NCD047373766	7.98	2833	B303	A74	3
D008	M111	ORD981764822	13.582	4953	B303	A72	3
D008	M111	NYD987017829	318.9	4953	B303	A74	3
D008	M141	NYD987017829	19	4953	B303	A74	3
D008	M014	NVD982030454	15.695	1041	B304	A72	1
D008	M111	NVD000627034	3.19	1041	B304	A78	1
D008	M111	MTD000710210	8.1	1041	B304	A94	1
D008	M111	NVD000626531	20.38	1041	B304	A94	1
D008	M111	NVD000627034	32.75	1041	B304	A94	1
D008	M132	NVD000626531	93.38	1041	B304	A94	1
D008	M132	NVD000627034	90.81	1041	B304	A94	1
D008	M132	MND000686121	3.5	2819	B304	A39	1
D008	M111	MOD059200089	7,760.87	3339	B304	A72	1
D008	M132	NYD006977086	197.062	3341	B304	A78	1
D008	M141	NJD986588945	66.152	3366	B304	A35	1
D008	M029	MID981091218	13.468	3398	B304	A25	1
D008	M111	MID097804025	60.8	3398	B304	A25	1
D008	M119	NYD013726443	49	3398	B304	A25	1
D008	M049	NJD002195303	0.793	3399	B304	A40	1
D008	M043	MND980702286	0.5	3561	B304	A21	1
D008	M019	NMD052686896	4.28	3571	B304	A39	1
D008	M019	NYD986874501	2.324	3571	B304	A39	1
D008	M112	MOD006267223	0.805	3585	B304	A74	1
D008	M141	NYD002235216	0.522	3594	B304	A19	1
D008	M042	MOD075892646	3.211	3612	B304	A06	1
D008	M061	MOD075892646	1.606	3612	B304	A06	1
D008	M111	NYD002227973	0.536	3644	B304	A39	1
D008	M019	NJD002456499	0.414	3672	B304	A09	1
D008	M019	NJD002170702	3.641	3679	B304	A35	1
D008	M141	NHD001079219	3.05	3699	B304	A49	1
D008	M019	NJD011528346	212.603	5093	B304	A89	1
D008	M011	NVD980885560	41.642	8734	B304	A94	1
D008	M111	MED981215080	1.55	8734	B304	A94	1
D008	M111	NJD001824713	3.6	8734	B304	A94	1
D008	M019	NJ7170023744	0.636	9711	B304	A25	1
D008	M111	NV1210090006	2.23	9711	B304	A74	1

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D008	M019	PAD987392933	57.789	3315	B304	A39	1
D008	M111	WID048027734	212.562	3321	B304	A78	1
D008	M111	WVD009233297	0.075	3334	B304	A08	1
D008	M132	PAD004372363	697.6	3339	B304	A39	1
D008	M111	PAD990753089	38.1	3341	B304	A72	1
D008	M132	PAD990753089	13,769.00	3341	B304	A72	1
D008	M013	PAD089352983	239.342	3341	B304	A78	1
D008	M111	WID980570113	15.04	3366	B304	A78	1
D008	M111	WID006070338	44.79	3369	B304	A78	1
D008	M111	WID006073225	38.022	3431	B304	A29	1
D008	M132	WID006073225	15.49	3431	B304	A29	1
D008	M111	WID006073225	0.175	3432	B304	A69	1
D008	M019	PAD981730633	0.572	3679	B304	A39	1
D008	M013	PAD079181186	789.301	3691	B304	A35	1
D008	M141	PA8213820642	0.285	4225	B304	A21	1
D008	M111	WID006073225	0.225	4961	B304	A69	1
D008	M132	TXD987987807	297.32	9511	B304	A74	1
D008	M141	UT3213820894	0.02	9711	B304	A40	1
D008	M132	NJD002173946	7.57	2892	B304	A93	2
D008	M019	NHD001083914	0.458	3679	B304	A64	2
D008	M011	PAD004344222	21.88	3315	B304	A93	2
D008	M125	MID005381439	89	3341	B305	A59	1
D008	M141	PAD003025830	0.35	3369	B305	A09	1
D008	M141	PAD003025830	13.763	3369	B305	A78	1
D008	M119	NJD002189132	9.24	2819	B306	A38	1
D008	M141	NCD051327963	0.136	3052	B306	A71	1
D008	M132	OKD065436180	243.24	3315	B306	A25	1
D008	M141	PA5213820892	0.076	3672	B306	A60	1
D008	M111	NJD080620040	7	3471	B306	A75	2
D008	M141	WID006091227	0.054	3639	B306	A53	2
D008	M111	NYD000824425	14	3229	B306	A75	3
D008	M111	NYD987005980	377.4	1721	B307	A21	1
D008	M111	NYD987027539	5.85	1721	B307	A21	1
D008	M111	NYD987031937	1.9	1721	B307	A21	1
D008	M111	NYD987037421	2.2	1721	B307	A21	1
D008	M141	NYD987037629	6.275	1721	B307	A21	1
D008	M049	MDD069383289	12	1721	B307	A29	1
D008	M141	MID006015960	0.11	2023	B307	A19	1
D008	M141	MED980671796	0.002	2611	B307	A57	1
D008	M141	MED001107051	1.25	2621	B307	A40	1
D008	M019	MED001095629	0.005	2621	B307	A99	1
D008	M043	LAD008182990	0.61	2822	B307	A21	1
D008	M013	NJD002385730	0.75	2869	B307	A09	1
D008	M141	NCD095459392	0.275	2892	B307	A92	1
D008	M019	NYD980768386	3.2	2992	B307	A51	1
D008	M111	NCD057450090	1,431.10	3231	B307	A21	1
D008	M141	NYD987027687	1.4	3291	B307	A29	1
D008	M141	NYD987027695	1.4	3291	B307	A29	1
D008	M111	MSD985978501	15	3315	B307	A40	1
D008	M032	NYD002214484	0.772	3317	B307	A29	1
D008	M111	ORD009025644	39.94	3369	B307	A29	1
D008	M132	MID980826523	1	3369	B307	A40	1
D008	M132	MID980826523	45	3369	B307	A78	1
D008	M111	ORD009025644	1.711	3369	B307	A92	1
D008	M132	MID072782683	3.461	3465	B307	A08	1
D008	M141	NYD002104875	1.525	3469	B307	A35	1
D008	M013	NVD982511826	33.126	3482	B307	A40	1
D008	M014	MND006156590	9.7	3482	B307	A59	1
D008	M013	MND980616700	0.25	3483	B307	A49	1
D008	M141	NHD018953794	339.63	3484	B307	A69	1
D008	M011	MAD985294347	0.276	3489	B307	A39	1
D008	M111	NJD060074101	53.075	3499	B307	A49	1
D008	M011	NJD986578888	14.147	3499	B307	A57	1
D008	M132	MAD001439546	0.95	3511	B307	A71	1
D008	M019	NYD000824417	1.05	3559	B307	A09	1
D008	M119	MID052046513	0.01	3562	B307	A29	1
D008	M141	NJD002189793	0.4	3568	B307	A99	1
D008	M141	NHD001085158	0.302	3569	B307	A59	1
D008	M019	MND079731519	16.97	3571	B307	A22	1
D008	M011	MND079731519	3.305	3571	B307	A29	1
D008	M132	NYD986874501	8.53	3571	B307	A29	1
D008	M013	MND000823922	2.361	3571	B307	A57	1
D008	M125	MND000823922	25.547	3571	B307	A57	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M013	NMD052686896	0.075	3571	B307	A59	1
D008	M125	MND000823922	0.3	3571	B307	A92	1
D008	M111	NED072902513	0.431	3613	B307	A08	1
D008	M141	NCD003907508	0.4	3624	B307	A49	1
D008	M011	MAD001005370	11.934	3661	B307	A35	1
D008	M012	OKD007189111	33.2	3661	B307	A49	1
D008	M011	MAD001005370	1.528	3661	B307	A57	1
D008	M141	NJD058112947	0.086	3662	B307	A69	1
D008	M011	NJD001643840	2.067	3663	B307	A99	1
D008	M091	NYD044470680	0.35	3669	B307	A09	1
D008	M019	NJD086432903	0.669	3669	B307	A29	1
D008	M019	NJD986598316	3.64	3669	B307	A57	1
D008	M121	MAD001053636	0.048	3671	B307	A71	1
D008	M011	MND006219232	43.25	3672	B307	A22	1
D008	M019	NJD000692350	0.225	3672	B307	A22	1
D008	M011	MND980700900	23.381	3672	B307	A49	1
D008	M011	MND980700900	116.898	3672	B307	A57	1
D008	M019	NYD044477784	6.912	3672	B307	A72	1
D008	M141	MAD000844571	0.204	3672	B307	A92	1
D008	M019	NHD045513785	0.45	3674	B307	A09	1
D008	M011	NYD000707901	5.03	3674	B307	A39	1
D008	M019	MED980913883	0.644	3675	B307	A29	1
D008	M141	MED077469864	0.78	3675	B307	A29	1
D008	M111	MED077469864	112.3	3675	B307	A99	1
D008	M019	MND036232908	4.54	3676	B307	A72	1
D008	M141	NJD986650992	0.5	3677	B307	A56	1
D008	M019	MOD007120652	1.605	3678	B307	A49	1
D008	M141	MAD001411081	13.675	3679	B307	A22	1
D008	M019	MND985668227	0.3	3679	B307	A29	1
D008	M019	NYD002247377	0.033	3679	B307	A39	1
D008	M019	NYD059385120	0.122	3679	B307	A39	1
D008	M019	MND985668227	5.25	3679	B307	A40	1
D008	M141	MND006147268	233.639	3679	B307	A49	1
D008	M019	MND985668227	0.382	3679	B307	A57	1
D008	M141	NJD980766091	0.62	3679	B307	A89	1
D008	M111	MND982424202	1.375	3679	B307	A92	1
D008	M111	NYD001929611	9.87	3714	B307	A24	1
D008	M111	MSD065462517	1.552	3714	B307	A29	1
D008	M019	NYD002115087	48.802	3714	B307	A39	1
D008	M111	MID005356886	27.285	3714	B307	A40	1
D008	M019	NYD002107399	2.989	3714	B307	A57	1
D008	M132	NVD982467250	5.242	3714	B307	A92	1
D008	M141	MAD001408517	1.712	3724	B307	A49	1
D008	M132	OR2690308927	0.075	3731	B307	A21	1
D008	M011	NYD000521971	0.434	3812	B307	A35	1
D008	M019	NYD986934024	2.285	3812	B307	A49	1
D008	M141	NYD986934024	0.171	3812	B307	A49	1
D008	M141	NYD002246114	0.06	3812	B307	A56	1
D008	M141	MAD001013226	0.05	3826	B307	A49	1
D008	M141	NCD986194850	0.5	3843	B307	A08	1
D008	M141	MAD062163191	0.21	3861	B307	A29	1
D008	M141	MAD001011071	0.847	3914	B307	A29	1
D008	M043	NJD986621142	0.1	3951	B307	A35	1
D008	M111	MTD980955660	0.315	4011	B307	A99	1
D008	M043	NYD982181661	1.702	4111	B307	A01	1
D008	M043	NYD987031655	2.102	4111	B307	A01	1
D008	M141	NYD074345315	4	4226	B307	A38	1
D008	M129	NJD981141575	0.229	4482	B307	A29	1
D008	M132	MID000722157	0.017	4911	B307	A08	1
D008	M019	NJD981083025	15	4925	B307	A08	1
D008	M111	NJD000048967	39	4941	B307	A21	1
D008	M141	MD6150004095	2.983	8099	B307	A94	1
D008	M039	MDD050793926	14.045	8221	B307	A56	1
D008	M141	MDD980829873	2.5	8221	B307	A59	1
D008	M041	NYD002223642	0.01	8221	B307	A93	1
D008	M132	NYD002223642	2.74	8221	B307	A93	1
D008	M141	MD8213822762	0.048	8733	B307	A94	1
D008	M011	NCD980843866	1.834	8734	B307	A09	1
D008	M013	NCD980843866	1.038	8734	B307	A57	1
D008	M043	NCD980843866	1.854	8734	B307	A57	1
D008	M111	NY5690319889	26.177	9199	B307	A29	1
D008	M111	MDD980553820	0.017	9669	B307	A40	1
D008	M043	NJ0170022172	0.413	9711	B307	A08	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M132	NJ0170022172	1.585	9711	B307	A08	1
D008	M019	ME9570024522	0	9711	B307	A57	1
D008	M132	NYD080480734	3.841	9999	B307	A99	1
D008	M141	NYD080480734	1.54	9999	B307	A99	1
D008	M013	TX8571524091	0.01	1711	B307	A56	1
D008	M053	PAD002334621	0.057	2673	B307	A29	1
D008	M141	VA3211220931	0.047	2851	B307	A21	1
D008	M132	VA1210020730	3.2	2892	B307	A27	1
D008	M111	PAD980550594	22.5	2911	B307	A08	1
D008	M111	PAD049791098	131	2911	B307	A29	1
D008	M014	PAD981104110	21.511	3229	B307	A40	1
D008	M141	PAD004498010	0.5	3312	B307	A09	1
D008	M111	PAD004335154	0.1	3312	B307	A56	1
D008	M013	PAD987276573	31.78	3315	B307	A02	1
D008	M111	PAD987276573	142.5	3315	B307	A02	1
D008	M141	PAD987276573	22.76	3315	B307	A02	1
D008	M019	PAD003023371	1.54	3315	B307	A09	1
D008	M013	PAD003023371	104.845	3315	B307	A25	1
D008	M019	PAD003023371	1	3315	B307	A29	1
D008	M111	WID006073225	41.425	3364	B307	A40	1
D008	M019	WID006073944	80.31	3369	B307	A40	1
D008	M014	RID987490315	48.722	3369	B307	A57	1
D008	M119	WID006090286	15.476	3432	B307	A08	1
D008	M111	WID006274153	9.568	3484	B307	A29	1
D008	M141	VTD000649780	1.5	3484	B307	A49	1
D008	M111	PAD980554570	3.695	3496	B307	A57	1
D008	M132	VAD044736726	0.2	3612	B307	A02	1
D008	M111	WID066892498	1.954	3613	B307	A38	1
D008	M043	PAD046558037	0.172	3613	B307	A92	1
D008	M111	PAD002103182	61.31	3624	B307	A78	1
D008	M141	VA3211220931	0.215	3669	B307	A21	1
D008	M011	VAD981034895	9.7	3672	B307	A22	1
D008	M019	WID006078141	0.695	3672	B307	A60	1
D008	M111	VAD980551782	6.946	3672	B307	A72	1
D008	M141	VAD980551782	3.087	3672	B307	A72	1
D008	M013	PAD002327708	0.4	3674	B307	A39	1
D008	M013	PAD002389252	0.855	3674	B307	A39	1
D008	M141	PAD002327708	0.65	3674	B307	A39	1
D008	M019	PAD002327484	1.101	3676	B307	A29	1
D008	M019	TXD050858182	38.25	3679	B307	A35	1
D008	M019	PAD002279149	3.677	3679	B307	A99	1
D008	M019	PAD987270998	80.827	3679	B307	A99	1
D008	M013	PAD014167589	6.949	3691	B307	A38	1
D008	M013	PAD014167589	5.615	3691	B307	A78	1
D008	M013	PAD014167589	4.099	3691	B307	A91	1
D008	M013	PAD014167589	9.313	3691	B307	A92	1
D008	M111	VAD054039961	1.89	3714	B307	A78	1
D008	M119	VAD054039961	0.46	3714	B307	A78	1
D008	M141	VA1170024813	2.18	3731	B307	A29	1
D008	M019	WY5571924179	0.198	3761	B307	A59	1
D008	M111	PAD004321527	0.225	3821	B307	A40	1
D008	M043	WID006069710	0.18	3824	B307	A29	1
D008	M121	RID000001750	0.25	3829	B307	A35	1
D008	M132	RID001459890	0.25	3961	B307	A29	1
D008	M999	WID006125215	5.14	3999	B307	A40	1
D008	M129	VAD001894542	12	4911	B307	A08	1
D008	M129	PAD000765982	0.01	4911	B307	A59	1
D008	M111	WIP200000387	23.93	4941	B307	A21	1
D008	M111	PAD980555312	21	5171	B307	A29	1
D008	M125	PAD980555254	6.7	5171	B307	A29	1
D008	M141	PAD980555254	6.7	5171	B307	A29	1
D008	M132	PAD982674913	0.8	9621	B307	A21	1
D008	M141	UT3213820894	0.457	9711	B307	A58	1
D008	M141	VA6170061463	0.97	9711	B307	A99	1
D008	M014	NYD986974962	0.2	2631	B307	A58	2
D008	M049	NYD066829599	1.161	2672	B307	A99	2
D008	M129	NJD001213453	6.602	2869	B307	A69	2
D008	M111	ORD096249081	1.829	3479	B307	A08	2
D008	M141	NYD002228229	0.087	3596	B307	A93	2
D008	M141	NCT000002327	16.25	7539	B307	A93	2
D008	M132	PAD002335545	0.3	3339	B307	A56	2
D008	M132	WID006073225	8.907	3431	B307	A61	2
D008	M141	VTD002065597	0.02	3692	B307	A56	2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M137	PA0890090004	0.859	8731	B307	A99	2
D008	M039	WID006430623	0.01	3821	B307	A82	3
D008	M019	NYD986931251	0.3	1622	B308	A21	1
D008	M043	MID980990642	1.224	2851	B308	A59	1
D008	M043	MOD043937895	0.468	2891	B308	A99	1
D008	M012	OKD007189111	2.643	3661	B308	A49	1
D008	M141	MAD071705222	1.05	3663	B308	A56	1
D008	M111	MID053334439	0.932	3714	B308	A59	1
D008	M141	MAD985290998	0.3	3499	B308	A56	2
D008	M019	MND980995815	0.07	2431	B309	A55	1
D008	M019	MND982425589	16.61	2711	B309	A55	1
D008	M141	NCD042091975	0.25	2834	B309	A55	1
D008	M141	LAD020597597	0.1	2869	B309	A55	1
D008	M031	NJD002342087	0.03	3229	B309	A55	1
D008	M013	MND051446094	0.165	3398	B309	A55	1
D008	M013	MND000819268	0.857	3489	B309	A55	1
D008	M141	NY7213820940	0.802	3489	B309	A55	1
D008	M141	NYD980768642	0.3	3569	B309	A55	1
D008	M014	MND053417515	3.66	3621	B309	A55	1
D008	M011	MOD980686992	209.228	3691	B309	A92	1
D008	M011	MAD001409150	2.287	3691	B309	A94	1
D008	M013	NJD068699107	6,098.32	3691	B309	A99	1
D008	M132	MAD000652644	0.2	3829	B309	A55	1
D008	M013	MND132568015	13.795	4011	B309	A55	1
D008	M019	MND003835501	0.875	4512	B309	A55	1
D008	M141	NJD000730424	0.125	4793	B309	A55	1
D008	M111	NHD000842666	0.018	4911	B309	A55	1
D008	M141	MDD000621243	0.5	4931	B309	A55	1
D008	M141	MDD980555247	0.075	4931	B309	A55	1
D008	M141	NYD003939824	0.9	4931	B309	A55	1
D008	M039	MN0360090195	0.23	8062	B309	A55	1
D008	M049	NYD040464315	0.225	8062	B309	A55	1
D008	M141	MD8213822762	0.305	8733	B309	A94	1
D008	M129	NY0213820830	0.064	9199	B309	A55	1
D008	M011	NM8800019434	0.014	9661	B309	A55	1
D008	M011	MA7210025154	0.006	9711	B309	A55	1
D008	M039	ME7170022019	0.332	9711	B309	A55	1
D008	M129	NY4571924774	0.85	9711	B309	A55	1
D008	M141	ME7170022019	0.732	9711	B309	A55	1
D008	M141	NV7570024110	0.013	9711	B309	A55	1
D008	M141	NV9170022173	0.63	9711	B309	A55	1
D008	M141	NY4571924451	0.008	9711	B309	A55	1
D008	M132	NJ0170022172	0.002	9711	B309	A56	1
D008	M011	MI0571924760	0.535	9999	B309	A55	1
D008	M132	NJP000908376	12.474	9999	B309	A55	1
D008	M141	MI0571924760	0.235	9999	B309	A55	1
D008	M011	MI0571924760	0.006	9999	B309	A57	1
D008	M141	TXD083558486	0.2	2833	B309	A55	1
D008	M013	TXD000751172	3.92	2869	B309	A55	1
D008	M141	TXD000449694	0.56	2869	B309	A55	1
D008	M013	VAD002352110	0.2	3494	B309	A55	1
D008	M014	TXD980627111	1.26	3674	B309	A55	1
D008	M014	TXD988064564	1.26	3674	B309	A55	1
D008	M013	PAD079181186	1,290.20	3691	B309	A40	1
D008	M013	PAD095361655	108.95	3691	B309	A40	1
D008	M013	PAD014167589	4.311	3691	B309	A57	1
D008	M013	PAD079181186	46.223	3691	B309	A57	1
D008	M031	PAD002330165	1,048.86	3691	B309	A72	1
D008	M032	PAD002330165	2,697.93	3691	B309	A72	1
D008	M013	PAD056771405	527	3691	B309	A92	1
D008	M013	TXD007331879	1,708.99	3692	B309	A57	1
D008	M032	TXD007331879	126.78	3692	B309	A57	1
D008	M141	VA1170024813	0.009	3731	B309	A55	1
D008	M019	UTD073095804	0.425	3812	B309	A55	1
D008	M019	VAD058621996	0.007	7699	B309	A55	1
D008	M013	PA0890090004	1.792	8731	B309	A55	1
D008	M013	PA3210090053	0.222	9199	B309	A55	1
D008	M019	UT9210020922	0.056	9711	B309	A55	1
D008	M019	VA1170024722	0.111	9711	B309	A55	1
D008	M141	VA8170024170	0.063	9711	B309	A55	1
D008	M013	PAD002344844	33.2	9999	B309	A57	1
D008	M132	NHD986468338	1.129	3496	B309	A53	2
D008	M031	NJP000909440	1.25	4213	B309	A	2

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D008	M129	NJD070275870	0.082	8069	B309	A93	2
D008	M013	NJD986648954	0.3	9999	B309	A62	2
D008	M111	WI0000020040	180.55	3231	B309	A99	2
D008	M132	UTD047111935	1.6	4011	B309	A69	2
D008	M119	NJD002189132	1.414	2819	B310	A32	1
D008	M061	LAD008080541	0.2	2821	B310	A55	1
D008	M043	MDD980918288	0.137	2851	B310	A32	1
D008	M043	MID980990642	0.566	2851	B310	A32	1
D008	M132	NJD002173946	0.101	2892	B310	A32	1
D008	M141	NCD095459392	0.215	2892	B310	A78	1
D008	M132	LAD008080350	83.2	2911	B310	A32	1
D008	M141	MTD010380574	0.04	2911	B310	A55	1
D008	M141	NYD001704444	0.03	3086	B310	A37	1
D008	M043	NJD002325074	0.344	3262	B310	A55	1
D008	M111	NYD055865125	1.9	3262	B310	A92	1
D008	M129	NYD074034141	0.458	3264	B310	A92	1
D008	M049	MAD040094724	0.184	3355	B310	A92	1
D008	M111	NHD040252744	1.389	3357	B310	A99	1
D008	M132	ORD009025644	2.159	3369	B310	A99	1
D008	M111	NYD055054191	0.9	3399	B310	A78	1
D008	M043	ORD041273889	0.275	3451	B310	A40	1
D008	M141	NYD002968246	51.336	3451	B310	A92	1
D008	M132	MID072782683	2.752	3465	B310	A71	1
D008	M141	MAD063894786	0.448	3471	B310	A22	1
D008	M141	MAD985275569	1.062	3471	B310	A22	1
D008	M043	MID005356621	0.125	3471	B310	A29	1
D008	M119	MID000724864	10.321	3479	B310	A22	1
D008	M111	MIT270012131	33.6	3479	B310	A55	1
D008	M043	MND006156590	0.525	3482	B310	A78	1
D008	M061	MO4213820489	0.344	3482	B310	A92	1
D008	M013	NYD002240638	1.2	3484	B310	A91	1
D008	M141	MDD982566218	0.087	3484	B310	A94	1
D008	M043	MND000819268	0.169	3489	B310	A53	1
D008	M141	NY7213820940	0.125	3489	B310	A55	1
D008	M013	MND000819268	0.041	3489	B310	A99	1
D008	M043	MID005378658	21.101	3491	B310	A92	1
D008	M141	MED985466358	0.255	3499	B310	A29	1
D008	M141	NYD002084135	0.305	3511	B310	A54	1
D008	M132	NJD144391596	0.025	3531	B310	A21	1
D008	M043	NJD106235138	0.13	3542	B310	A03	1
D008	M141	MAD065782252	0.056	3545	B310	A21	1
D008	M043	MAD094277266	0.584	3556	B310	A99	1
D008	M141	NCD986185585	1.5	3563	B310	A21	1
D008	M043	NYD986874501	0.386	3571	B310	A39	1
D008	M043	NCD003907508	1.8	3624	B310	A78	1
D008	M141	MED058951047	2.52	3625	B310	A99	1
D008	M141	NYD093256063	0.689	3629	B310	A78	1
D008	M043	MSD033394602	0.139	3651	B310	A71	1
D008	M043	LAD001809896	0.359	3661	B310	A78	1
D008	M141	MDD985369305	1	3672	B310	A19	1
D008	M043	NYD002241982	1.7	3672	B310	A22	1
D008	M129	MAD155318066	0.5	3672	B310	A22	1
D008	M141	MAD076590652	0.475	3672	B310	A31	1
D008	M141	NHD046312559	8.712	3672	B310	A32	1
D008	M141	MAD001012244	1	3672	B310	A53	1
D008	M141	MAD051778934	0.625	3672	B310	A55	1
D008	M141	MAD076590652	1.875	3672	B310	A55	1
D008	M141	MAD980525505	0.4	3672	B310	A59	1
D008	M043	MOD003537271	4.566	3672	B310	A71	1
D008	M043	NCD000623165	3.29	3672	B310	A71	1
D008	M141	MAD000189068	0.125	3674	B310	A55	1
D008	M019	NED035093053	1.68	3676	B310	A72	1
D008	M141	NCD000615872	0.45	3678	B310	A22	1
D008	M141	NYD065939902	0.4	3679	B310	A22	1
D008	M141	MAD981065451	0.4	3679	B310	A29	1
D008	M111	MND006147268	6.6	3679	B310	A32	1
D008	M141	MAD001411081	0.2	3679	B310	A32	1
D008	M141	ORD000409581	0.019	3679	B310	A99	1
D008	M043	MND077636397	0.9	3699	B310	A22	1
D008	M141	MND077636397	1.05	3699	B310	A22	1
D008	M111	MID980795488	4.425	3711	B310	A21	1
D008	M111	MID981953912	1.81	3711	B310	A21	1
D008	M111	MID985569987	41.493	3711	B310	A21	1

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D008	M132	MOT300010261	21	3711	B310	A21	1
D008	M043	MID980568836	4.444	3711	B310	A22	1
D008	M132	OKD082565714	8.95	3711	B310	A22	1
D008	M119	NJD002186690	4.15	3711	B310	A29	1
D008	M111	MID000718544	7.868	3711	B310	A32	1
D008	M111	MID980896690	31.651	3711	B310	A32	1
D008	M111	NYD002026565	7.8	3711	B310	A32	1
D008	M132	MID005356712	157.01	3711	B310	A32	1
D008	M132	MID005356928	19.331	3711	B310	A71	1
D008	M111	MDD003091972	5.4	3713	B310	A29	1
D008	M061	NCD986166601	2.15	3713	B310	A32	1
D008	M141	NCD986166601	2	3713	B310	A32	1
D008	M132	MID005035464	21	3714	B310	A21	1
D008	M129	NYD002107399	1.756	3714	B310	A53	1
D008	M043	MOD000610816	0.212	3714	B310	A55	1
D008	M061	MID985576495	1.204	3714	B310	A55	1
D008	M111	MID044253029	0.125	3714	B310	A55	1
D008	M141	MAD001408517	0.11	3724	B310	A53	1
D008	M132	NMD052684578	0.712	3724	B310	A59	1
D008	M119	MND985677889	0.125	3823	B310	A31	1
D008	M061	MND980793319	12.345	4011	B310	A49	1
D008	M132	MND000826248	0.45	4011	B310	A59	1
D008	M041	NYD000694174	2.54	4111	B310	A21	1
D008	M032	MND006963508	5.325	4512	B310	A54	1
D008	M061	LA6170022788	0.306	4581	B310	A91	1
D008	M141	NY2213720897	0.41	7538	B310	A55	1
D008	M132	NJD063141063	1	7538	B310	A92	1
D008	M141	NJD063141063	1	7538	B310	A92	1
D008	M141	NY8210020915	0.125	8221	B310	A71	1
D008	M132	NJD980791115	0.125	9199	B310	A55	1
D008	M132	NJD980791131	0.079	9199	B310	A55	1
D008	M061	NJD980790745	0.367	9199	B310	A92	1
D008	M132	NJD980790745	0.19	9199	B310	A92	1
D008	M141	NYD986971604	3.04	9221	B310	A71	1
D008	M141	NJD060792918	16.8	9221	B310	A99	1
D008	M141	MA8690330719	0.285	9621	B310	A78	1
D008	M043	NJ0170022172	0.24	9711	B310	A21	1
D008	M132	NJ0170022172	0.54	9711	B310	A54	1
D008	M039	NJ7170023744	1.087	9711	B310	A55	1
D008	M111	NC1170027261	2.238	9711	B310	A55	1
D008	M111	OR1570024264	0.581	9711	B310	A55	1
D008	M141	NC1170027261	6.325	9711	B310	A55	1
D008	M141	NC8170022570	3.092	9711	B310	A55	1
D008	M141	NJ3210020597	0.175	9711	B310	A55	1
D008	M132	MI0571924760	0.531	9999	B310	A55	1
D008	M141	MI0571924760	0.241	9999	B310	A55	1
D008	M141	MA8570024424	0.351	9999	B310	A58	1
D008	M043	WID003966884	5.267	3069	B310	A21	1
D008	M132	RID001198605	2	3229	B310	A21	1
D008	M021	VAD044731685	1.137	3429	B310	A92	1
D008	M032	TXD007332505	9.31	3432	B310	A53	1
D008	M999	WID006073225	0.825	3432	B310	A55	1
D008	M111	WID006073225	0.2	3432	B310	A69	1
D008	M141	RID001187277	1.417	3471	B310	A22	1
D008	M141	PAD053676631	19.172	3471	B310	A92	1
D008	M032	TXD008012148	4.2	3479	B310	A53	1
D008	M132	WID982204968	2.56	3494	B310	A78	1
D008	M111	WID982204968	1.125	3494	B310	A82	1
D008	M132	WID982204968	2.87	3494	B310	A82	1
D008	M061	TXD003897733	10.51	3571	B310	A09	1
D008	M111	PRD987370939	1.7	3612	B310	A99	1
D008	M119	PRD000632034	0.2	3613	B310	A71	1
D008	M041	PRD991291857	0.49	3672	B310	A09	1
D008	M132	PAD092868793	0.5	3672	B310	A22	1
D008	M141	TXD007321904	0.02	3674	B310	A99	1
D008	M043	PAD000796334	0.473	3678	B310	A22	1
D008	M043	PAD003404167	0.114	3678	B310	A55	1
D008	M013	PAD079181186	37.392	3691	B310	A55	1
D008	M013	PAD014167589	1.628	3691	B310	A78	1
D008	M061	WID006427215	0.875	3694	B310	A71	1
D008	M061	WID981948771	0.977	3694	B310	A71	1
D008	M061	WID006427215	1.485	3694	B310	A82	1
D008	M132	TXD008018004	23	3711	B310	A71	1

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D008	M132	TXD007365984	0.5	3721	B310	A55	1
D008	M061	WID076153030	0.884	3822	B310	A82	1
D008	M043	WID006069710	1.101	3824	B310	A49	1
D008	M053	WID006069710	3.16	3824	B310	A53	1
D008	M051	VAD023942295	5.9	4011	B310	A99	1
D008	M053	VAD023942295	12.8	4011	B310	A99	1
D008	M132	TX7170022787	0.43	7549	B310	A55	1
D008	M141	TX7170022787	0.44	7549	B310	A55	1
D008	M132	PAD004393138	0.265	8731	B310	A94	1
D008	M141	VA4210220139	0.245	9199	B310	A92	1
D008	M141	VA6170061463	0.063	9711	B310	A21	1
D008	M141	VA6170061463	0.033	9711	B310	A22	1
D008	M141	VA6170061463	0.412	9711	B310	A53	1
D008	M141	VA1213720815	0.1	9711	B310	A55	1
D008	M141	VA8213720321	0.688	9711	B310	A55	1
D008	M019	VA7213720082	0.488	9999	B310	A55	1
D008	M119	NED000802843	5.674	3052	B310	A56	2
D008	M141	NY7213820940	0.05	3489	B310	A22	2
D008	M043	NJD073755787	9.967	3554	B310	A51	2
D008	M111	MAD001138726	0.4	3672	B310	A22	2
D008	M043	NYD085503746	2.6	4911	B310	A53	2
D008	M141	NYD980648554	0.8	7539	B310	A69	2
D008	M043	WID000808246	3	5171	B310	A53	2
D008	M141	VA6170061463	0.02	9711	B310	A53	2
D008	M141	NCD003195161	0.339	3675	B310	A71	3
D008	M141	MAD086534864	0.622	3841	B310	A71	3
D008	M011	NJD001289610	1.191	3339	B311	A71	1
D008	M141	PAD002316305	0.007	3769	B311	A93	1
D008	M141	PA3170022104	1.532	4225	B311	A58	1
D008	M141	PA8213820642	0.107	4225	B311	A59	1
D008	M132	TXD000837351	17.06	4911	B311	A59	1
D008	M111	PAD000765362	0.077	4911	B311	A60	1
D008	M111	MID005069430	2.188	2591	B311	A61	2
D008	M132	LAD079460895	29.03	2869	B311	A69	2
D008	M119	MDP000008050	1.511	1622	B312	A21	1
D008	M019	NJD990753493	0.44	3369	B312	A72	1
D008	M043	MOD000687525	0.348	3613	B312	A22	1
D008	M141	NC6170022580	14.575	9711	B312	A55	1
D008	M011	NJD002444024	5.91	3861	B314	A57	1
D008	M125	NYD987014214	12	1622	B316	A21	1
D008	M125	NYD987014230	5	1622	B316	A21	1
D008	M125	NYD987014248	3	1622	B316	A21	1
D008	M111	NJD084011477	14.51	2621	B316	A59	1
D008	M132	MOD007131113	0.156	2771	B316	A59	1
D008	M041	MID000809632	1.2	2826	B316	A41	1
D008	M132	NCD981744618	9.183	2869	B316	A89	1
D008	M061	NJD002568715	28.294	2891	B316	A94	1
D008	M111	NYD000824359	17.7	3229	B316	A78	1
D008	M043	MAD002297968	0.038	3613	B316	A29	1
D008	M129	MDD985369305	0.6	3672	B316	A19	1
D008	M141	MDD985369305	2.425	3672	B316	A19	1
D008	M141	MAD076590652	1.25	3672	B316	A60	1
D008	M141	MAD001414879	0.119	3674	B316	A91	1
D008	M141	MAD990886301	1.172	3679	B316	A09	1
D008	M111	MND006147268	2.72	3679	B316	A92	1
D008	M132	MID050615996	0.759	3711	B316	A94	1
D008	M141	NYD002100295	2	3827	B316	A38	1
D008	M019	NYD002100295	0.2	3827	B316	A49	1
D008	M141	MAD001402320	0.88	3861	B316	A35	1
D008	M141	NJD986586683	0.3	4785	B316	A21	1
D008	M141	MDD000619395	6	4931	B316	A21	1
D008	M141	MDD980555486	1.05	4931	B316	A21	1
D008	M141	OKD000829465	0.1	8221	B316	A29	1
D008	M141	MDD980829873	3.607	8221	B316	A59	1
D008	M111	MIT270010598	0.47	8221	B316	A94	1
D008	M129	MD9210020567	0.182	9199	B316	A21	1
D008	M141	MD9210020567	0.152	9199	B316	A21	1
D008	M111	NYD987023108	95.75	9211	B316	A01	1
D008	M111	NV1210090006	0.256	9711	B316	A78	1
D008	M043	NM0890010515	3.54	9711	B316	A94	1
D008	M111	NM0890010515	3.921	9711	B316	A94	1
D008	M141	NJ2210020978	1.817	9711	B316	A94	1
D008	M141	NJ3210020597	0.249	9711	B316	A94	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M141	NM0890010515	0.732	9711	B316	A94	1
D008	M019	MO9890010524	0.49	9711	B316	A99	1
D008	M141	NJ4213720275	0.459	9711	B316	A99	1
D008	M013	PAD098150535	228.591	2819	B316	A57	1
D008	M999	WID006091425	0.04	2842	B316	A57	1
D008	M043	TXD990757486	0.1	2865	B316	A94	1
D008	M132	PAD005000609	18.682	3264	B316	A57	1
D008	M077	WID006115877	0.5	3471	B316	A02	1
D008	M132	WVD032579369	4.112	3479	B316	A26	1
D008	M111	PAD004327466	39.986	3496	B316	A25	1
D008	M132	PAD004327466	21.951	3496	B316	A25	1
D008	M042	WID006161368	0.15	3585	B316	A82	1
D008	M141	VAD003176724	1.75	3599	B316	A38	1
D008	M141	TXD061555611	1.38	3674	B316	A09	1
D008	M119	WID006082473	0.75	3674	B316	A29	1
D008	M141	PAD003031846	0.007	3674	B316	A58	1
D008	M111	VAD981036957	0.83	3728	B316	A58	1
D008	M132	WV0170023691	2.1	3764	B316	A99	1
D008	M141	VA8213720321	0.647	9711	B316	A21	1
D008	M129	VA3971520751	0.012	9711	B316	A58	1
D008	M141	PA5213820892	0.46	9999	B316	A56	1
D008	M119	MDP000007732	0.25	2999	B316	A62	2
D008	M132	MID058816927	16.8	3691	B316	A	2
D008	M132	NCD000648451	0.4	4953	B316	A99	2
D008	M013	MN7213820908	84.05	8744	B316	A64	2
D008	M132	MID086176658	1.222	1021	B319	A94	1
D008	M132	NVD986774735	2.11	1041	B319	A99	1
D008	M132	LAD980698369	38.25	1389	B319	A19	1
D008	M111	NY8210020915	6.3	1522	B319	A21	1
D008	M141	NYD987039468	4.5	1542	B319	A99	1
D008	M111	NYD987032471	10	1622	B319	A01	1
D008	M111	NYD987035193	5.7	1622	B319	A01	1
D008	M111	NYD987027372	15.96	1622	B319	A08	1
D008	M141	MDP000008027	15.025	1622	B319	A08	1
D008	M141	NYD987033644	1.6	1622	B319	A08	1
D008	M111	NYD986931251	7.162	1622	B319	A21	1
D008	M111	NYD986933232	1.4	1622	B319	A21	1
D008	M111	NYD986933240	3.3	1622	B319	A21	1
D008	M111	NYD986991347	4.9	1622	B319	A21	1
D008	M111	NYD987005105	2	1622	B319	A21	1
D008	M111	NYD987005113	2	1622	B319	A21	1
D008	M111	NYD987005121	2	1622	B319	A21	1
D008	M111	NYD987005139	2	1622	B319	A21	1
D008	M111	NYD987005212	8.4	1622	B319	A21	1
D008	M111	NYD987005220	1.2	1622	B319	A21	1
D008	M111	NYD987005238	4.4	1622	B319	A21	1
D008	M111	NYD987005378	2.695	1622	B319	A21	1
D008	M111	NYD987005386	4.235	1622	B319	A21	1
D008	M111	NYD987005998	4.6	1622	B319	A21	1
D008	M111	NYD987006038	3.5	1622	B319	A21	1
D008	M111	NYD987006046	2.5	1622	B319	A21	1
D008	M111	NYD987006517	32.8	1622	B319	A21	1
D008	M111	NYD987021581	1.4	1622	B319	A21	1
D008	M111	NYD987021599	1.4	1622	B319	A21	1
D008	M111	NYD987035227	2.8	1622	B319	A21	1
D008	M111	NYD987035235	1.4	1622	B319	A21	1
D008	M111	NYD987035243	1.8	1622	B319	A21	1
D008	M111	NYD987035250	6	1622	B319	A21	1
D008	M119	NYD987026655	37.5	1622	B319	A21	1
D008	M119	NYD987038445	207.4	1622	B319	A21	1
D008	M132	NJD986632982	24.7	1622	B319	A21	1
D008	M132	NYD986994960	13.5	1622	B319	A21	1
D008	M137	NYD987029733	5.6	1622	B319	A21	1
D008	M141	NYD987025467	11.4	1622	B319	A21	1
D008	M141	NYD987030350	4.8	1622	B319	A21	1
D008	M141	NYD987037124	2.1	1622	B319	A21	1
D008	M141	NYD987037132	3.2	1622	B319	A21	1
D008	M141	NYD987037140	1.8	1622	B319	A21	1
D008	M141	NYD987037157	2.5	1622	B319	A21	1
D008	M141	NYD987037165	3.5	1622	B319	A21	1
D008	M111	NYD986989317	17.9	1622	B319	A29	1
D008	M111	NYD987029253	3	1622	B319	A29	1
D008	M111	NYD987029261	2.3	1622	B319	A29	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M111	NYD987029279	4.5	1622	B319	A29	1
D008	M111	NYD987029287	2.1	1622	B319	A29	1
D008	M111	NYD987029295	9.8	1622	B319	A29	1
D008	M111	NYD987029311	2.3	1622	B319	A29	1
D008	M111	NYD987029329	10.8	1622	B319	A29	1
D008	M119	NYD986998623	46.1	1622	B319	A29	1
D008	M119	NYD986998631	54	1622	B319	A29	1
D008	M119	NYD986998649	42.7	1622	B319	A29	1
D008	M119	NYD986998656	46	1622	B319	A29	1
D008	M119	NYD986998664	53.7	1622	B319	A29	1
D008	M119	NYD986998672	15.9	1622	B319	A29	1
D008	M119	NYD986998680	17.1	1622	B319	A29	1
D008	M119	NYD986998698	27.2	1622	B319	A29	1
D008	M119	NYD986998706	38	1622	B319	A29	1
D008	M119	NYD986999928	4.5	1622	B319	A29	1
D008	M119	NYD986999969	31.2	1622	B319	A29	1
D008	M119	NYD987028206	13.2	1622	B319	A29	1
D008	M119	NYD987028214	93	1622	B319	A29	1
D008	M119	NYD987028222	5.7	1622	B319	A29	1
D008	M119	NYD987028230	12.8	1622	B319	A29	1
D008	M119	NYD987028248	19.2	1622	B319	A29	1
D008	M119	NYD987028255	23.5	1622	B319	A29	1
D008	M119	NYD987028263	16.7	1622	B319	A29	1
D008	M119	NYD987028271	44.9	1622	B319	A29	1
D008	M119	NYD987028289	12.4	1622	B319	A29	1
D008	M119	NYD987032679	5.7	1622	B319	A29	1
D008	M119	NYD987034071	17	1622	B319	A29	1
D008	M119	NYD987034089	32.8	1622	B319	A29	1
D008	M119	NYD987035862	46	1622	B319	A29	1
D008	M119	NYD987037595	24.3	1622	B319	A29	1
D008	M141	NYD987005063	5.3	1622	B319	A29	1
D008	M141	NYD987005071	6.3	1622	B319	A29	1
D008	M141	NYD987029303	8.4	1622	B319	A29	1
D008	M141	NYD987035896	4.9	1622	B319	A29	1
D008	M141	NYD980534325	0.2	1622	B319	A59	1
D008	M141	NYD986998326	1.4	1622	B319	A59	1
D008	M141	NYD987018488	31.895	1622	B319	A59	1
D008	M111	NYD986932515	44.3	1622	B319	A99	1
D008	M111	NYD986973691	41.825	1622	B319	A99	1
D008	M111	NYD987007499	115.8	1629	B319	A21	1
D008	M111	NYD987030038	149.8	1629	B319	A21	1
D008	M041	MOD006288799	1.445	2082	B319	A08	1
D008	M141	MOD006288799	2.369	2082	B319	A08	1
D008	M043	MED071742225	0.1	2611	B319	A	1
D008	M132	LAD981900418	3.78	2621	B319	A08	1
D008	M132	MED086875887	0.35	2621	B319	A21	1
D008	M141	NYD002243939	2.65	2621	B319	A99	1
D008	M111	NYD002123503	2	2812	B319	A56	1
D008	M043	NJD011658481	0.03	2816	B319	A58	1
D008	M141	NYD097649016	35.975	2819	B319	A59	1
D008	M111	MSD007031230	8.817	2821	B319	A92	1
D008	M132	MID000820381	20	2834	B319	A56	1
D008	M061	MND006250799	0.66	2851	B319	A92	1
D008	M111	LAD000812818	552.9	2869	B319	A08	1
D008	M141	NJD000692905	0.05	2869	B319	A08	1
D008	M119	MID005363114	14	2869	B319	A21	1
D008	M132	LAD041581422	587.01	2869	B319	A21	1
D008	M049	MOD006299689	2.9	2869	B319	A29	1
D008	M132	NYD002220804	5.15	2869	B319	A99	1
D008	M041	MDD003071875	8.06	2879	B319	A08	1
D008	M043	MID981953953	1.961	2891	B319	A57	1
D008	M043	MOD043937895	0.822	2891	B319	A57	1
D008	M141	NJD039101514	1.034	2891	B319	A58	1
D008	M132	NJD002173946	0.065	2892	B319	A32	1
D008	M043	NJD986645984	0.202	2911	B319	A08	1
D008	M111	NJD002342426	44.05	2911	B319	A08	1
D008	M111	NJD986645984	3.82	2911	B319	A08	1
D008	M132	LAD008080350	137	2911	B319	A21	1
D008	M132	LAD062662887	352.9	2911	B319	A21	1
D008	M111	MND006162820	12.73	2911	B319	A29	1
D008	M111	NJD986645984	156.84	2911	B319	A29	1
D008	M132	LAD008186579	683.555	2911	B319	A29	1
D008	M132	MND000686071	0.9	2911	B319	A29	1

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D008	M132	MTD010380574	3.5	2911	B319	A29	1
D008	M132	NDD006175467	0.631	2911	B319	A29	1
D008	M132	NJD062037031	4.77	2911	B319	A29	1
D008	M132	NJD081982902	288.5	2911	B319	A29	1
D008	M141	NJD045445483	0.8	2911	B319	A29	1
D008	M132	LAD008080350	170	2911	B319	A36	1
D008	M141	OKD007188147	0.504	2992	B319	A06	1
D008	M132	NJD002195220	117	2992	B319	A29	1
D008	M013	NJD002502466	62.25	3069	B319	A92	1
D008	M111	NJD056708688	0.2	3081	B319	A57	1
D008	M111	NYD000818732	0.125	3111	B319	A92	1
D008	M132	MID096322532	33.6	3211	B319	A21	1
D008	M111	NYD000824425	807.8	3229	B319	A49	1
D008	M111	NYD000824359	31.45	3229	B319	A57	1
D008	M111	NYD000824425	32.3	3229	B319	A78	1
D008	M039	NJD002148658	1.5	3231	B319	A09	1
D008	M111	MND053429353	496.269	3231	B319	A21	1
D008	M132	NJD002325074	17.55	3262	B319	A56	1
D008	M111	NYD055865125	10.625	3262	B319	A57	1
D008	M141	NCD982077570	10.662	3262	B319	A78	1
D008	M141	NCD982077570	1.578	3262	B319	A91	1
D008	M141	NCD986186369	0.2	3262	B319	A99	1
D008	M141	NYD002066173	17.1	3264	B319	A49	1
D008	M132	NYD980653109	1.606	3269	B319	A09	1
D008	M141	NYD086225596	4.775	3341	B319	A69	1
D008	M132	MND006148092	34.2	3341	B319	A72	1
D008	M011	NMD097970065	0.22	3341	B319	A94	1
D008	M111	NYD071586127	8.77	3351	B319	A29	1
D008	M141	NJD041211392	0.35	3356	B319	A94	1
D008	M111	NED007259054	763.385	3357	B319	A41	1
D008	M141	MAD001842764	7.119	3357	B319	A41	1
D008	M129	NJD002152205	46.75	3357	B319	A92	1
D008	M019	NED007259054	0.994	3357	B319	A99	1
D008	M111	NHD001078740	2.675	3366	B319	A56	1
D008	M111	NYD049253578	26.76	3366	B319	A57	1
D008	M013	MND006166409	7.936	3366	B319	A78	1
D008	M111	NHD001078740	4.3	3366	B319	A92	1
D008	M111	NHD058537960	39.2	3366	B319	A93	1
D008	M132	NCD097363527	452.718	3369	B319	A35	1
D008	M111	MID005357504	1.241	3369	B319	A59	1
D008	M111	MAD985280825	2.925	3429	B319	A29	1
D008	M119	MAD985280825	2.475	3429	B319	A29	1
D008	M111	OKD020721098	162.79	3432	B319	A29	1
D008	M141	NCD067427922	64.025	3432	B319	A29	1
D008	M141	NCD067427922	79.959	3432	B319	A32	1
D008	M111	OKD020721098	3.9	3432	B319	A71	1
D008	M141	NCD067427922	3.85	3433	B319	A02	1
D008	M111	OKD980877856	26.425	3451	B319	A92	1
D008	M132	MID005358783	52.416	3471	B319	A22	1
D008	M111	MAD022960413	0.15	3471	B319	A57	1
D008	M132	MO4213820489	1.738	3482	B319	A29	1
D008	M132	MO4213820489	36.147	3482	B319	A57	1
D008	M111	MND980616700	6.613	3483	B319	A29	1
D008	M013	MND001970334	1.891	3483	B319	A57	1
D008	M013	MND980616700	0.097	3483	B319	A57	1
D008	M013	NYD002240638	3	3484	B319	A59	1
D008	M141	NHD018953794	0.1	3484	B319	A69	1
D008	M043	NYD002240638	1.6	3484	B319	A78	1
D008	M132	MAD001114206	1.105	3484	B319	A78	1
D008	M141	NYD002240638	1.8	3484	B319	A78	1
D008	M132	MAD981069859	4.05	3484	B319	A92	1
D008	M013	MND000819268	2.891	3489	B319	A59	1
D008	M013	MND000819268	1.6	3489	B319	A99	1
D008	M111	NHD058537960	0.229	3494	B319	A29	1
D008	M111	NHD058537960	1.943	3494	B319	A49	1
D008	M141	NJD000764878	0.281	3497	B319	A35	1
D008	M111	MED985466358	11.882	3499	B319	A29	1
D008	M111	NYD002100493	40.8	3499	B319	A29	1
D008	M141	MED985466358	12.274	3499	B319	A29	1
D008	M043	NJD002395382	0.696	3561	B319	A40	1
D008	M141	NJD002395382	0.622	3561	B319	A40	1
D008	M141	MAD053459673	0.15	3561	B319	A99	1
D008	M119	MID052046513	0.104	3562	B319	A29	1

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D008	M042	MND006161756	0.471	3571	B319	A06	1
D008	M043	NMD052686896	1.805	3571	B319	A08	1
D008	M043	MND006161756	0.861	3571	B319	A29	1
D008	M125	MND000823922	0.55	3571	B319	A57	1
D008	M132	NCD982094278	67.558	3571	B319	A57	1
D008	M013	MND006161756	63.898	3571	B319	A58	1
D008	M111	NYD001359694	1.077	3571	B319	A58	1
D008	M011	MND006161756	7.363	3571	B319	A59	1
D008	M043	NMD052686896	0.003	3571	B319	A75	1
D008	M011	NYD084006741	5.279	3571	B319	A93	1
D008	M043	MSD041222878	57.834	3612	B319	A57	1
D008	M111	MSD041222878	56.7	3612	B319	A57	1
D008	M141	NYD980777320	0.379	3612	B319	A99	1
D008	M019	NYD001560879	0.125	3624	B319	A40	1
D008	M061	NYD001560879	7.8	3624	B319	A40	1
D008	M111	NYD001560879	16.255	3624	B319	A40	1
D008	M141	MED058951047	1.305	3625	B319	A35	1
D008	M141	MED058951047	0.063	3625	B319	A56	1
D008	M141	NYD093256063	0.196	3629	B319	A99	1
D008	M125	MAD080031180	248.49	3641	B319	A35	1
D008	M132	NHD073984288	9	3641	B319	A99	1
D008	M137	NHD073984288	9	3641	B319	A99	1
D008	M043	NCD000831057	1.813	3661	B319	A08	1
D008	M043	NMD056773765	0.118	3661	B319	A08	1
D008	M013	LAD001809896	19.7	3661	B319	A35	1
D008	M013	LAD001809896	1.7	3661	B319	A49	1
D008	M043	NCD000831057	0.7	3661	B319	A56	1
D008	M141	NJD001643840	0.023	3663	B319	A56	1
D008	M141	MDD046041885	0.761	3663	B319	A92	1
D008	M013	NCD986194330	2.673	3669	B319	A29	1
D008	M141	NCD986194330	1	3669	B319	A29	1
D008	M013	MND085114890	8.502	3669	B319	A35	1
D008	M013	NYD981484785	226	3671	B319	A35	1
D008	M111	NYD981484785	1,052.10	3671	B319	A35	1
D008	M111	NYD981484785	18.8	3671	B319	A99	1
D008	M043	NCD000623165	6.031	3672	B319	A09	1
D008	M141	MAD985294057	1.068	3672	B319	A22	1
D008	M013	MND980700900	16.888	3672	B319	A29	1
D008	M043	ORD081182180	0.642	3672	B319	A29	1
D008	M141	MAD076590652	1.75	3672	B319	A29	1
D008	M141	ORD980725592	11.072	3672	B319	A37	1
D008	M132	NYD002241982	2.3	3672	B319	A38	1
D008	M141	NHD046312559	0.458	3672	B319	A38	1
D008	M011	MND982066730	1	3672	B319	A49	1
D008	M043	NYD002233039	0.903	3672	B319	A49	1
D008	M043	MND001037639	2.375	3672	B319	A92	1
D008	M079	NJD000692350	0.75	3672	B319	A92	1
D008	M141	ORD000409581	0.326	3672	B319	A99	1
D008	M043	NYD000707901	1.713	3674	B319	A19	1
D008	M111	NYD000707901	30.62	3674	B319	A25	1
D008	M141	MAD000189068	0.834	3674	B319	A29	1
D008	M019	MAD000829986	0.847	3674	B319	A49	1
D008	M141	MAD000846501	0.25	3674	B319	A56	1
D008	M141	NCD003195161	1.389	3675	B319	A22	1
D008	M111	MED077469864	20.76	3675	B319	A29	1
D008	M141	NYD009901059	0.4	3675	B319	A32	1
D008	M019	NCD038547519	6.94	3675	B319	A35	1
D008	M141	NCD003195161	0.375	3675	B319	A49	1
D008	M141	NCD003195161	0.511	3675	B319	A57	1
D008	M141	NHD001076009	0.048	3679	B319	A22	1
D008	M141	MAD001411081	0.35	3679	B319	A29	1
D008	M141	NHD000791616	0.08	3679	B319	A29	1
D008	M141	NYD059385120	0.257	3679	B319	A29	1
D008	M011	ORD009020231	28.064	3679	B319	A39	1
D008	M011	NYD002235182	1.6	3679	B319	A49	1
D008	M019	MND985668227	1.394	3679	B319	A49	1
D008	M141	MAD001411016	0.09	3679	B319	A53	1
D008	M014	NYD059385120	2.168	3679	B319	A57	1
D008	M132	NJD048810337	2.4	3679	B319	A76	1
D008	M141	MED093625358	8.154	3679	B319	A91	1
D008	M019	NYD002247377	0.422	3679	B319	A99	1
D008	M111	ORD009020231	0.459	3679	B319	A99	1
D008	M013	NJD064261985	158.705	3691	B319	A09	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M111	NJD068699107	30.09	3691	B319	A19	1
D008	M013	NJD064261985	216.235	3691	B319	A39	1
D008	M013	NJD064261985	4.443	3691	B319	A59	1
D008	M013	LAD058530510	3,920.36	3691	B319	A75	1
D008	M141	MED086878980	4.372	3694	B319	A35	1
D008	M111	MID005356951	361.345	3711	B319	A21	1
D008	M043	MOD085002319	1.527	3711	B319	A22	1
D008	M132	MID005356894	5.192	3711	B319	A29	1
D008	M119	MOD007118078	19.184	3711	B319	A35	1
D008	M109	MND006207773	70.227	3711	B319	A38	1
D008	M111	MID005379714	352.8	3711	B319	A38	1
D008	M132	MID980700827	0.1	3711	B319	A56	1
D008	M111	MID980795488	46.85	3711	B319	A57	1
D008	M029	MID980896690	14.45	3711	B319	A59	1
D008	M043	MID005356902	33.84	3711	B319	A59	1
D008	M119	MID005356902	18.31	3711	B319	A59	1
D008	M053	MID065597809	11.5	3714	B319	A29	1
D008	M111	MID065597809	8.75	3714	B319	A29	1
D008	M132	NVD982467250	40.823	3714	B319	A49	1
D008	M111	MID005357355	27	3714	B319	A53	1
D008	M061	MID086744802	8.95	3714	B319	A57	1
D008	M119	MID086744802	0.45	3714	B319	A57	1
D008	M111	MID006021414	197.8	3714	B319	A92	1
D008	M132	MID005356951	0.517	3714	B319	A99	1
D008	M019	NH8572824847	46.52	3728	B319	A21	1
D008	M141	NJD002140358	0.177	3728	B319	A29	1
D008	M141	MDD003419090	4.471	3728	B319	A49	1
D008	M141	MDD046283495	168.49	3731	B319	A29	1
D008	M132	MD4690307844	19.372	3731	B319	A78	1
D008	M141	MD4690307844	31.8	3731	B319	A78	1
D008	M141	NYD986934743	12.003	3743	B319	A38	1
D008	M132	NCD041463761	0.336	3751	B319	A57	1
D008	M111	NYD002040921	0.3	3812	B319	A29	1
D008	M141	NJD002342434	0.005	3812	B319	A59	1
D008	M141	NYD000521971	0.075	3812	B319	A69	1
D008	M119	MND985677889	7.384	3823	B319	A31	1
D008	M141	MAD065781197	0.995	3827	B319	A29	1
D008	M141	MAD086534864	0.884	3841	B319	A49	1
D008	M141	NCD055162069	1.95	3843	B319	A56	1
D008	M132	MID061872917	4.725	3843	B319	A57	1
D008	M141	NCD986194850	0.04	3843	B319	A58	1
D008	M013	MND000293365	0.161	3845	B319	A49	1
D008	M013	NYD980592497	137.02	3861	B319	A49	1
D008	M132	NYD980592497	7.15	3861	B319	A49	1
D008	M141	MAD062163191	10.296	3861	B319	A57	1
D008	M043	NYD000809327	0.4	3861	B319	A59	1
D008	M013	MAD000650051	0.18	3911	B319	A94	1
D008	M111	NYD002229128	55.7	3914	B319	A29	1
D008	M141	MAD001202340	5.525	3961	B319	A29	1
D008	M111	NYD002001923	123	3999	B319	A49	1
D008	M111	NYD987037488	90.1	4011	B319	A29	1
D008	M043	NED000822783	0.45	4011	B319	A54	1
D008	M111	NJD981076276	0.5	4111	B319	A21	1
D008	M111	NJD986641090	2.7	4111	B319	A21	1
D008	M111	NYD075243139	373.8	4119	B319	A21	1
D008	M111	NYD982796377	6.2	4119	B319	A21	1
D008	M111	NYD982796401	119.28	4119	B319	A21	1
D008	M111	NYD982796435	17.3	4119	B319	A21	1
D008	M141	NYD075243139	96.6	4119	B319	A21	1
D008	M111	NJD986638997	10.8	4141	B319	A21	1
D008	M141	MAD084814136	0.2	4213	B319	A91	1
D008	M061	LA6170022788	-0.136	4581	B319	A21	1
D008	M119	NJD000729640	1.8	4613	B319	A08	1
D008	M119	NJD068679760	11.7	4613	B319	A29	1
D008	M132	LAD000726224	12.94	4613	B319	A29	1
D008	M132	NJD981876675	91.2	4613	B319	A29	1
D008	M141	NCD000623074	4	4613	B319	A29	1
D008	M141	NJD068679760	17.5	4613	B319	A29	1
D008	M111	NYD981182280	42.5	4789	B319	A21	1
D008	M141	NJD980648539	59.55	4789	B319	A21	1
D008	M141	NJD986645232	14.8	4789	B319	A21	1
D008	M111	NYD980534317	157.5	4789	B319	A29	1
D008	M111	NYD986963429	5.3	4789	B319	A29	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M111	NYD986992246	16	4789	B319	A29	1
D008	M111	NYD987017456	3.3	4789	B319	A29	1
D008	M111	NYD987035821	20	4789	B319	A29	1
D008	M111	NY0000073197	2.1	4789	B319	A29	1
D008	M141	NJD980648539	8	4789	B319	A29	1
D008	M141	NJD980648547	138.15	4789	B319	A29	1
D008	M141	NJD980648539	0.25	4789	B319	A91	1
D008	M111	NJD980648539	25	4789	B319	A99	1
D008	M141	MAD007854631	0.2	4911	B319	A08	1
D008	M141	NCD000856591	0.18	4911	B319	A08	1
D008	M141	MAD055179634	2.775	4911	B319	A21	1
D008	M141	NCD108706029	0.05	4911	B319	A21	1
D008	M019	MED043250109	0.304	4911	B319	A29	1
D008	M132	MSD000824995	7.903	4911	B319	A29	1
D008	M132	NYD000765065	0.4	4911	B319	A29	1
D008	M141	NJD000768036	0.3	4911	B319	A29	1
D008	M019	NHD018919282	0.016	4911	B319	A57	1
D008	M141	MAD000845412	4.251	4911	B319	A57	1
D008	M043	MDD000731596	0.149	4911	B319	A99	1
D008	M043	MDD120291109	2.146	4911	B319	A99	1
D008	M043	MDD981115132	0.25	4911	B319	A99	1
D008	M129	MOD000687392	0.027	4911	B319	A99	1
D008	M141	MAD000845412	515.785	4911	B319	A99	1
D008	M132	LAD985191089	90.04	4922	B319	A21	1
D008	M132	NMD000839134	3.9	4922	B319	A21	1
D008	M132	NN0000367847	9.45	4922	B319	A21	1
D008	M141	NYD006978795	0.661	4924	B319	A21	1
D008	M119	NYD003939592	4	4931	B319	A08	1
D008	M119	NYD981567019	0.4	4931	B319	A08	1
D008	M141	NYD980593636	2.1	4931	B319	A08	1
D008	M141	NYD986990315	2.1	4931	B319	A09	1
D008	M141	MND985667674	1.227	4931	B319	A19	1
D008	M141	NJD000768226	0.05	4931	B319	A21	1
D008	M141	NJD077070811	1.21	4931	B319	A21	1
D008	M141	NYD980648166	0.649	4931	B319	A21	1
D008	M141	NYD980648174	0.45	4931	B319	A21	1
D008	M132	NV7142390007	0.25	4931	B319	A29	1
D008	M119	NJD981490063	0.5	4941	B319	A08	1
D008	M125	MND981192800	174.45	5048	B319	A29	1
D008	M132	LAD000757237	32	5171	B319	A21	1
D008	M132	MAD000842427	4.75	5171	B319	A29	1
D008	M141	NYD001919976	0.8	7219	B319	A59	1
D008	M132	NYD046157392	85.438	7378	B319	A57	1
D008	M132	NJD002177210	11.342	7379	B319	A58	1
D008	M132	NJD980765754	103.387	7379	B319	A59	1
D008	M141	NYD980648554	61.875	7539	B319	A19	1
D008	M141	NYD982792483	14.28	7622	B319	A59	1
D008	M132	MAD985289677	66.5	7629	B319	A49	1
D008	M141	NJD986647618	0.75	8211	B319	A08	1
D008	M111	MIT270010598	0.797	8221	B319	A29	1
D008	M129	NYD067919183	0.25	8731	B319	A09	1
D008	M141	NJD048804488	0.1	8731	B319	A29	1
D008	M141	MA1210020631	0.175	8733	B319	A21	1
D008	M077	ORD980725592	0.054	8734	B319	A94	1
D008	M101	ORD980725592	0.06	8734	B319	A94	1
D008	M111	NJD000526525	1.35	8734	B319	A94	1
D008	M141	NJD079319414	0.525	8734	B319	A94	1
D008	M141	NJD980648521	0.25	8741	B319	A29	1
D008	M019	NVD981967375	1.5	8999	B319	A78	1
D008	M111	NYD986899722	27.4	9199	B319	A21	1
D008	M111	NYD986968386	26.3	9199	B319	A21	1
D008	M111	NYD986974475	1.8	9199	B319	A21	1
D008	M111	NYD986982023	5.7	9199	B319	A21	1
D008	M111	NYD986986776	3	9199	B319	A21	1
D008	M111	NYD986992501	3.15	9199	B319	A21	1
D008	M111	NYD986993483	11	9199	B319	A21	1
D008	M111	NYD986994002	840.5	9199	B319	A21	1
D008	M111	NYD986996163	14	9199	B319	A21	1
D008	M111	NYD986996171	7.7	9199	B319	A21	1
D008	M111	NYD986996338	1.2	9199	B319	A21	1
D008	M111	NYD986996379	1.2	9199	B319	A21	1
D008	M111	NYD986997831	233.2	9199	B319	A21	1
D008	M111	NYD986999068	81.6	9199	B319	A21	1

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D008	M111	NYD987008414	2.1	9199	B319	A21	1
D008	M111	NYD987008422	6.6	9199	B319	A21	1
D008	M111	NYD987008430	5.6	9199	B319	A21	1
D008	M111	NYD987012853	30.6	9199	B319	A21	1
D008	M111	NYD987022175	2.1	9199	B319	A21	1
D008	M111	NYD987022183	4.55	9199	B319	A21	1
D008	M111	NYD987022720	3.2	9199	B319	A21	1
D008	M111	NYD987022969	6.8	9199	B319	A21	1
D008	M111	NYD987023017	3.2	9199	B319	A21	1
D008	M111	NYD987024577	5.7	9199	B319	A21	1
D008	M111	NYD987024585	6	9199	B319	A21	1
D008	M111	NYD987029642	33.8	9199	B319	A21	1
D008	M111	NYD987033982	21.8	9199	B319	A21	1
D008	M111	NYD987036720	24.727	9199	B319	A21	1
D008	M111	NYD987039443	2.5	9199	B319	A21	1
D008	M111	NYD987039450	2.5	9199	B319	A21	1
D008	M111	NYD987040904	13	9199	B319	A21	1
D008	M111	NY0000004549	3.4	9199	B319	A21	1
D008	M111	NY0000045005	130.5	9199	B319	A21	1
D008	M141	NYD982187858	7.2	9199	B319	A21	1
D008	M141	NYD986950319	6.3	9199	B319	A21	1
D008	M061	MI4690390550	10.279	9199	B319	A29	1
D008	M111	NYD986950715	62.04	9199	B319	A29	1
D008	M111	NYD986992303	16.8	9199	B319	A29	1
D008	M111	NYD986992386	42.84	9199	B319	A29	1
D008	M111	NYD986992410	33.4	9199	B319	A29	1
D008	M111	NYD987024239	20	9199	B319	A29	1
D008	M111	NYD987025376	4.4	9199	B319	A29	1
D008	M111	NYD987039559	75.6	9199	B319	A29	1
D008	M111	NYD987039567	45.024	9199	B319	A29	1
D008	M111	NYD987039575	12.6	9199	B319	A29	1
D008	M111	NYD987039583	65.52	9199	B319	A29	1
D008	M132	NYD002429355	12.6	9199	B319	A29	1
D008	M141	NYD986897023	6.3	9199	B319	A29	1
D008	M141	NYD986950715	17.5	9199	B319	A29	1
D008	M141	NJD060792918	0.75	9221	B319	A99	1
D008	M141	NCT000002355	1.5	9531	B319	A29	1
D008	M141	MDD981106131	1	9621	B319	A27	1
D008	M111	MS7570024060	30.41	9711	B319	A01	1
D008	M129	LA9571924050	9.31	9711	B319	A08	1
D008	M129	NJ9170022694	2.487	9711	B319	A08	1
D008	M141	NE8571924648	1.189	9711	B319	A08	1
D008	M019	MT8571924556	0.085	9711	B319	A19	1
D008	M061	MO3213720979	0.751	9711	B319	A21	1
D008	M132	ME9570024522	0.576	9711	B319	A21	1
D008	M132	MOD980631295	0.206	9711	B319	A21	1
D008	M141	MO3213720979	0.478	9711	B319	A21	1
D008	M053	MT8571924556	0.008	9711	B319	A29	1
D008	M061	ME7170022019	7.637	9711	B319	A29	1
D008	M111	MD3210021355	19.94	9711	B319	A29	1
D008	M111	ME7170022019	237.545	9711	B319	A29	1
D008	M141	ME7170022019	5.99	9711	B319	A29	1
D008	M111	ME7170022019	17.507	9711	B319	A35	1
D008	M141	ME7170022019	16.837	9711	B319	A35	1
D008	M141	NY4571924774	0.3	9711	B319	A38	1
D008	M119	ME7170022019	68.825	9711	B319	A49	1
D008	M043	MT8571924556	0.098	9711	B319	A53	1
D008	M061	MA0570024026	0.01	9711	B319	A59	1
D008	M112	MA0570024026	71.42	9711	B319	A59	1
D008	M043	NM5890110518	0.065	9711	B319	A94	1
D008	M132	NJ0170022172	0.477	9711	B319	A99	1
D008	M141	MS7570024060	0.01	9711	B319	A99	1
D008	M141	NJ0170022172	0.24	9711	B319	A99	1
D008	M141	NYD982736894	0.05	9999	B319	A92	1
D008	M019	NY7890008975	0.084	9999	B319	A94	1
D008	M119	NY7890008975	39.51	9999	B319	A94	1
D008	M132	UTD980718332	6.764	1041	B319	A94	1
D008	M111	PAD982365033	28.2	1622	B319	A21	1
D008	M111	PAD987279577	3.4	1622	B319	A21	1
D008	M111	PAP000006411	720.5	1622	B319	A21	1
D008	M111	WID988637385	39.95	1622	B319	A21	1
D008	M111	WID988637393	54.95	1622	B319	A21	1
D008	M111	WID988637401	8.5	1622	B319	A21	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M141	PAD987279577	13	1622	B319	A21	1
D008	M111	PAD980919153	36	1622	B319	A29	1
D008	M111	WID988597662	8	1622	B319	A29	1
D008	M111	WID988627527	16	1622	B319	A29	1
D008	M111	WID988627535	8.9	1622	B319	A29	1
D008	M111	WID988635975	1.9	1622	B319	A29	1
D008	M111	WID988635983	1.8	1622	B319	A29	1
D008	M111	WID988637351	24	1622	B319	A29	1
D008	M111	WID988637468	8	1622	B319	A29	1
D008	M111	WID988637526	6.38	1622	B319	A29	1
D008	M111	WID988637534	12	1622	B319	A29	1
D008	M111	WID988637542	7.2	1622	B319	A29	1
D008	M111	WID988637690	7.18	1622	B319	A29	1
D008	M111	WID988638177	3.25	1622	B319	A29	1
D008	M111	WID988640793	12.928	1622	B319	A29	1
D008	M141	PAD980919153	4.95	1622	B319	A29	1
D008	M141	PAP000005862	4	1622	B319	A29	1
D008	M043	TXD008123168	9.95	2819	B319	A08	1
D008	M141	WID006429005	2	2819	B319	A08	1
D008	M111	UTD988072294	2.236	2819	B319	A29	1
D008	M019	UTD988072294	19.09	2819	B319	A35	1
D008	M111	PAD041399403	0.219	2819	B319	A78	1
D008	M111	PAD004397030	15.33	2851	B319	A21	1
D008	M043	WID981958655	0.222	2851	B319	A82	1
D008	M041	PAD000650366	1.7	2851	B319	A94	1
D008	M132	TXD005942438	80.58	2869	B319	A01	1
D008	M132	VA1210020730	19	2892	B319	A74	1
D008	M141	PAD003004587	0.075	2899	B319	A92	1
D008	M132	TXD000792937	2.9	2911	B319	A08	1
D008	M111	PAD001604693	7.05	2911	B319	A21	1
D008	M132	PAD000651281	1.69	2911	B319	A21	1
D008	M132	UTD073093874	0.05	2911	B319	A29	1
D008	M119	PAD071612683	14.1	2911	B319	A53	1
D008	M032	VID980536080	0.126	2911	B319	A78	1
D008	M032	VID980536080	0.47	2911	B319	A91	1
D008	M043	VID980536080	0.52	2911	B319	A91	1
D008	M999	WID006073225	0.225	3088	B319	A49	1
D008	M132	RID001198605	2.7	3229	B319	A21	1
D008	M013	PAD981104110	80.59	3229	B319	A57	1
D008	M053	WVD004319935	1.4	3229	B319	A59	1
D008	M111	PAD004332300	18	3229	B319	A71	1
D008	M014	PAD981104110	86.749	3229	B319	A78	1
D008	M111	PAD004332300	1.5	3229	B319	A78	1
D008	M111	PAD004332300	6.7	3229	B319	A89	1
D008	M039	PAD004336368	685.8	3231	B319	A21	1
D008	M039	PAD098439037	1,080.00	3231	B319	A29	1
D008	M039	PAD004336350	225	3231	B319	A49	1
D008	M043	PAD004336350	0.425	3231	B319	A91	1
D008	M111	WID006073225	3.6	3261	B319	A29	1
D008	M111	WID006073225	0.3	3261	B319	A78	1
D008	M132	WVD136333580	14.834	3262	B319	A59	1
D008	M111	PAD981109135	127.12	3312	B319	A75	1
D008	M019	PAD003023371	3.981	3315	B319	A09	1
D008	M011	PAD096266499	17.278	3322	B319	A78	1
D008	M132	UTD000826412	11.7	3331	B319	A94	1
D008	M111	UTD092024934	0.612	3339	B319	A59	1
D008	M132	PAD004372363	1,818.00	3339	B319	A99	1
D008	M132	WYD000776435	0.75	3341	B319	A57	1
D008	M111	PAD004315156	16.19	3351	B319	A59	1
D008	M111	WID006073225	19.5	3364	B319	A29	1
D008	M111	WID006073225	11.55	3364	B319	A40	1
D008	M132	WID006073225	4.8	3364	B319	A40	1
D008	M111	PAD003017092	35.6	3364	B319	A78	1
D008	M111	WID006073225	13.2	3364	B319	A78	1
D008	M111	PAD003017092	84.7	3364	B319	A92	1
D008	M013	PAD004335485	1,307.46	3366	B319	A40	1
D008	M132	PAD004335485	189.005	3366	B319	A40	1
D008	M132	PAD041398348	2.94	3366	B319	A78	1
D008	M019	WID980570113	21.626	3366	B319	A89	1
D008	M119	WID980570113	88.285	3366	B319	A89	1
D008	M121	WVD003062643	714.4	3369	B319	A35	1
D008	M112	PAD987387792	542.46	3369	B319	A49	1
D008	M111	WID006073225	123.955	3431	B319	A29	1

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D008	M132	WID006073225	6.37	3431	B319	A29	1
D008	M111	WID006073225	0.9	3431	B319	A53	1
D008	M999	WID006073225	0.9	3431	B319	A53	1
D008	M999	WID006073225	0.75	3432	B319	A08	1
D008	M111	WVD065632424	718.7	3432	B319	A40	1
D008	M111	WID006073225	4.95	3432	B319	A51	1
D008	M111	WID006073225	59.78	3432	B319	A82	1
D008	M119	VAD046960449	0.709	3443	B319	A99	1
D008	M141	WID006426431	0.7	3469	B319	A82	1
D008	M013	PAD002350833	373.384	3471	B319	A29	1
D008	M111	WID006072052	6.301	3479	B319	A78	1
D008	M132	VAD083059311	30.5	3479	B319	A99	1
D008	M111	WID982204968	92.18	3494	B319	A49	1
D008	M141	PAD080879992	13.6	3496	B319	A49	1
D008	M111	VAD003444379	3.8	3499	B319	A78	1
D008	M141	TXD981053713	0.09	3533	B319	A49	1
D008	M132	PAD003018090	0.337	3541	B319	A25	1
D008	M141	PAD987388121	0.1	3547	B319	A08	1
D008	M141	PAD987388105	0.375	3547	B319	A29	1
D008	M141	PAD987388121	0.1	3547	B319	A29	1
D008	M019	TXD088996186	0.94	3577	B319	A09	1
D008	M141	TXD088996186	5.31	3577	B319	A09	1
D008	M111	PRD987370939	8.2	3612	B319	A08	1
D008	M111	PRD987370939	2.9	3612	B319	A29	1
D008	M119	PRD987370939	5.6	3612	B319	A91	1
D008	M111	PRD987370939	3.6	3612	B319	A92	1
D008	M111	PRD987370939	0.4	3612	B319	A99	1
D008	M043	PAD046558037	0.214	3613	B319	A92	1
D008	M111	WID000713115	0.875	3621	B319	A89	1
D008	M141	PAD059282459	1.6	3624	B319	A57	1
D008	M019	WID988632154	0.075	3641	B319	A49	1
D008	M119	WID988632154	18.461	3641	B319	A49	1
D008	M132	VAD070360219	45.38	3641	B319	A49	1
D008	M141	VAD058913294	7.25	3646	B319	A59	1
D008	M013	PAD981947294	6	3663	B319	A49	1
D008	M141	PAD981947294	0.25	3671	B319	A29	1
D008	M111	PAD982364564	35.9	3671	B319	A57	1
D008	M132	PAD982364564	54.9	3671	B319	A57	1
D008	M141	VAD003123072	0.125	3671	B319	A59	1
D008	M043	PRD987374527	0.25	3672	B319	A08	1
D008	M141	VAD980551782	0.772	3672	B319	A08	1
D008	M132	TXD007365984	1.66	3672	B319	A22	1
D008	M129	PAD001882372	2.55	3672	B319	A39	1
D008	M019	VAD066000993	117.123	3672	B319	A49	1
D008	M129	PAD001882372	9.38	3672	B319	A49	1
D008	M141	TXD048916357	3.35	3672	B319	A49	1
D008	M141	PA5213820892	0.995	3672	B319	A56	1
D008	M111	PAD001882372	549	3672	B319	A58	1
D008	M132	PAD001882372	1,834.00	3672	B319	A58	1
D008	M111	PAD004510848	73.819	3674	B319	A49	1
D008	M013	PAD002327708	0.025	3674	B319	A53	1
D008	M111	VTD002084705	18.456	3674	B319	A57	1
D008	M111	VTD002084705	1.4	3674	B319	A58	1
D008	M049	RID030284293	0.35	3674	B319	A59	1
D008	M132	WID055302731	1.98	3675	B319	A57	1
D008	M043	WID055302731	0.247	3675	B319	A82	1
D008	M013	UTD009073305	45.789	3679	B319	A57	1
D008	M132	PAD002279149	2.11	3679	B319	A69	1
D008	M013	PAD014167589	2.179	3691	B319	A57	1
D008	M013	PAD014167589	0.858	3691	B319	A59	1
D008	M013	PAD079181186	22.423	3691	B319	A91	1
D008	M111	WID059980045	23.97	3711	B319	A29	1
D008	M132	VAD054039961	0.76	3714	B319	A22	1
D008	M132	TXD027115856	29.01	3714	B319	A59	1
D008	M141	VTD002085108	5.446	3724	B319	A56	1
D008	M141	VTD001075894	1.141	3724	B319	A59	1
D008	M141	VAD988186110	9.842	3731	B319	A08	1
D008	M141	VA1170024813	0.73	3731	B319	A19	1
D008	M111	WID044391712	147	3731	B319	A29	1
D008	M141	VA5170000181	1.525	3731	B319	A29	1
D008	M141	PA4170022418	0.117	3731	B319	A58	1
D008	M141	VAD988186110	0.001	3731	B319	A58	1
D008	M111	VAD001307495	57.85	3731	B319	A91	1

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D008	M132	RID063900690	1.275	3731	B319	A91	1
D008	M141	PA4170022418	1.406	3731	B319	A91	1
D008	M132	UTD009081357	19.332	3761	B319	A75	1
D008	M141	PAD002316305	3.023	3769	B319	A99	1
D008	M141	TXD000709964	0.24	3812	B319	A29	1
D008	M141	TXD000709964	18.24	3812	B319	A49	1
D008	M132	PAD004335485	0.975	3824	B319	A19	1
D008	M999	WAD033606203	0.04	3825	B319		1
D008	M141	TXD981050578	7.33	3827	B319	A99	1
D008	M043	PAD981036551	1.132	3829	B319	A57	1
D008	M043	WVD003095536	0.626	3861	B319	A56	1
D008	M043	WID006112478	0.405	3931	B319	A89	1
D008	M117	RID000652354	0.578	3961	B319	A75	1
D008	M141	WID045131182	13.629	3993	B319	A69	1
D008	M999	WAD053814091	11.5	3999	B319		1
D008	M049	WID043858935	1.091	3999	B319	A99	1
D008	M052	WVD988799995	0.25	4011	B319	A54	1
D008	M061	VAD044779015	1.6	4011	B319	A56	1
D008	M061	WVD001863679	7.113	4011	B319	A99	1
D008	M111	PAD987347606	71.25	4111	B319	A21	1
D008	M141	PA8213820642	0.15	4225	B319	A59	1
D008	M111	VA6690500909	6	4581	B319	A29	1
D008	M111	PAD060508397	40	4613	B319	A29	1
D008	M112	PAD980713002	28.524	4613	B319	A29	1
D008	M119	PAD000647354	7.5	4613	B319	A78	1
D008	M999	WA4960010151	1.58	4911	B319		1
D008	M111	PAD086204245	313.85	4911	B319	A21	1
D008	M132	WVD980554943	0.24	4911	B319	A21	1
D008	M132	PAD060496072	2	4911	B319	A59	1
D008	M013	PAD000765883	4.8	4911	B319	A99	1
D008	M132	TXD000837393	0.22	4911	B319	A99	1
D008	M132	TXD097311849	0.11	4911	B319	A99	1
D008	M111	PAD981938897	15.435	4922	B319	A29	1
D008	M132	PAD981938897	30.235	4922	B319	A29	1
D008	M043	PAD049672389	0.04	4922	B319	A99	1
D008	M111	PAD005029582	18.4	5047	B319	A40	1
D008	M119	VAD085125466	0.8	5169	B319	A19	1
D008	M111	PAD000779959	36	5171	B319	A21	1
D008	M111	PAD074979857	20	5171	B319	A21	1
D008	M132	VAD056907611	40	5171	B319	A29	1
D008	M141	PAD106384993	0.058	8062	B319	A94	1
D008	M119	WID988637781	7.029	8211	B319	A89	1
D008	M141	PAD980829980	8.95	8221	B319	A01	1
D008	M111	VAD000820712	1.5	8221	B319	A08	1
D008	M141	TXD000633982	1.61	8221	B319	A08	1
D008	M141	TXD980869184	9.25	8221	B319	A08	1
D008	M141	VTD000636449	0.456	8221	B319	A59	1
D008	M043	PAD004393138	2.744	8731	B319	A94	1
D008	M111	PA8890031869	5.81	8733	B319	A08	1
D008	M043	VA4570024477	36.259	9199	B319	A29	1
D008	M132	VA4570024477	1.35	9199	B319	A29	1
D008	M141	VA4690320235	23.33	9511	B319	A29	1
D008	M111	PAD981042237	135.1	9621	B319	A21	1
D008	M111	PAD982674913	4	9621	B319	A21	1
D008	M111	PAD981741457	7.493	9621	B319	A29	1
D008	M999	WA2170023418	0.5	9711	B319		1
D008	M111	VA1170024722	0.582	9711	B319	A08	1
D008	M141	VA8170024170	0.45	9711	B319	A21	1
D008	M141	UT3213820894	0.09	9711	B319	A78	1
D008	M019	VA5170022938	1.55	9711	B319	A92	1
D008	M141	VA5170022938	0.88	9711	B319	A92	1
D008	M999	WA7890008967	0.31	9999	B319		1
D008	M119	PA6170024545	1.954	9999	B319	A29	1
D008	M111	NVD000626531	1.25	1041	B319	A59	2
D008	M132	NVD000626531	95.88	1041	B319	A59	2
D008	M013	NYD986995819	32.105	1522	B319	A69	2
D008	M013	NYD986995868	14.735	1522	B319	A69	2
D008	M111	NYD986995868	3.47	1522	B319	A69	2
D008	M111	MID982075392	4.25	1795	B319	A56	2
D008	M141	NYD986989713	4.5	2086	B319	A08	2
D008	M119	MID985621051	17.287	2514	B319	A69	2
D008	M141	NJD002147023	0	2834	B319	A53	2
D008	M132	NHP000003506	73.7	2851	B319	A62	2

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D008	M013	NJD002385730	13.112	2869	B319	A63	2
D008	M043	NJD002385730	52.533	2869	B319	A69	2
D008	M043	NJD002184448	20	2869	B319	A93	2
D008	M141	LAD008052334	2.537	2911	B319	A08	2
D008	M049	NJP000908327	47	3011	B319	A65	2
D008	M137	NED000802843	3.5	3052	B319	A56	2
D008	M132	NYD002104404	12.748	3083	B319	A63	2
D008	M111	NYD004971503	280	3229	B319	A56	2
D008	M111	NYD006977086	4.44	3341	B319	A92	2
D008	M043	NJD986592129	10	3356	B319	A69	2
D008	M132	NCT000002323	1,259.52	3369	B319	A61	2
D008	M132	NCD021389358	33.165	3411	B319	A69	2
D008	M141	NYD002100493	5.3	3499	B319	A40	2
D008	M111	MAD002084093	17.46	3612	B319	A56	2
D008	M141	MAD080031180	0.325	3641	B319	A29	2
D008	M132	NJD002342517	17.271	3669	B319	A69	2
D008	M111	ORD980982839	2.126	3672	B319	A59	2
D008	M043	MOD003537271	0.688	3672	B319	A92	2
D008	M111	ORD980982839	0.652	3672	B319	A99	2
D008	M141	MED985467844	0.4	3678	B319	A93	2
D008	M111	NHD066755620	0.6	3679	B319	A91	2
D008	M111	NHD066755620	85.276	3679	B319	A93	2
D008	M111	NYD064337298	86	3691	B319	A56	2
D008	M111	MID005356795	887,363.00	3711	B319	A08	2
D008	M119	MID005356795	5.835	3711	B319	A56	2
D008	M132	NYD002126852	12.33	3714	B319	A56	2
D008	M043	MAD001408517	0.176	3724	B319	A69	2
D008	M111	NYD982183857	0.1	3743	B319	A69	2
D008	M141	NJD002362762	25.272	3823	B319	A69	2
D008	M043	NYD000809327	0.04	3861	B319	A69	2
D008	M141	MAD001011071	0.125	3914	B319	A92	2
D008	M039	NJD043274471	94.92	4226	B319	A	2
D008	M121	NYD986870319	1,238.17	4813	B319	A35	2
D008	M043	NYD006866008	0.228	4931	B319	A53	2
D008	M111	NYD987011665	17	4941	B319	A21	2
D008	M041	NYD980646624	69	5171	B319	A59	2
D008	M041	NYD000701607	16.8	5541	B319	A59	2
D008	M041	NYD000701680	15	5541	B319	A59	2
D008	M041	NYD982743577	19.2	5541	B319	A59	2
D008	M041	NYD987033818	27	5541	B319	A59	2
D008	M141	NYD980648554	224.11	7539	B319	A69	2
D008	M019	NJD075440149	0.09	8062	B319	A57	2
D008	M132	NYD981483985	0.8	8221	B319	A53	2
D008	M111	MI0000030320	25	8299	B319	A69	2
D008	M129	MD5170024686	0.11	8734	B319	A08	2
D008	M111	NYD982722118	20.6	9223	B319	A21	2
D008	M132	MD3210021355	21.09	9711	B319	A08	2
D008	M132	MA7210025154	5.721	9711	B319	A59	2
D008	M013	ME8170022018	8.405	9711	B319	A69	2
D008	M132	ME9570024522	0.006	9711	B319	A91	2
D008	M013	NJD061843249	1,202.33	9999	B319	A61	2
D008	M132	NJD061843249	1,454.01	9999	B319	A61	2
D008	M132	ORD027615186	1,123.83	9999	B319	A61	2
D008	M111	NJD986641637	8	9999	B319	A62	2
D008	M132	NJD986620664	10	9999	B319	A62	2
D008	M132	NJD986633543	38	9999	B319	A62	2
D008	M109	NJD982532434	0.5	9999	B319	A69	2
D008	M141	MA8570024424	75.4	9999	B319	A69	2
D008	M111	PAP000006519	13.59	1622	B319	A21	2
D008	M999	WAD988522488	215.81	2421	B319		2
D008	M999	WAD009250820	108.42	2611	B319		2
D008	M111	PAD069038941	0.26	2819	B319	A49	2
D008	M132	PAD004336277	3.2	3221	B319	A09	2
D008	M132	PAD990753089	1,359.70	3341	B319	A59	2
D008	M077	WID006073225	1.294	3431	B319	A61	2
D008	M111	WID006073225	0.4	3431	B319	A61	2
D008	M141	VTD093252096	1.2	3571	B319	A56	2
D008	M141	VAD990710899	0.165	3663	B319	A99	2
D008	M111	WID059980045	4,190.09	3711	B319	A38	2
D008	M043	VAD083056507	8.77	3713	B319	A56	2
D008	M999	WAD053814091	1.82	3999	B319		2
D008	M999	WA8570024200	318.8	4581	B319		2
D008	M999	WAD041334368	205.77	4911	B319		2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M999	WAD988502340	2.25	4911	B319		2
D008	M111	WVD980554588	20.7	4911	B319	A39	2
D008	M999	WAD988509022	13.5	4941	B319		2
D008	M999	WAD988523403	65.27	6513	B319		2
D008	M043	PA0890090004	0.692	8731	B319	A56	2
D008	M999	WAD988516787	64.35	9621	B319		2
D008	M111	PAD987285723	1.8	9621	B319	A29	2
D008	M132	UT5210090002	0.625	9711	B319	A08	2
D008	M141	RI1170024243	6.214	9711	B319	A99	2
D008	M141	PAD980829329	0.4	9999	B319	A61	2
D008	M132	PAD000731505	25.61	9999	B319	A69	2
D008	M141	NCD003195161	4.871	3675	B319	A76	3
D008	M013	MND982627226	252	5093	B319	A72	3
D008	M141	VAD003123072	3.2	3671	B319	A71	3
D008	M132	VA8210020626	15.58	9199	B319	A59	3
D008	M141	VA8210020626	0.9	9199	B319	A59	3
D008	M119	WID056060981	0.495	3471	B320	A22	1
D008	M132	TXD008090409	63.79	2911	B393	A29	1
D008	M141	MAD076624311	0.33	2891	B403	A94	1
D008	M043	NYD002113736	111.03	3089	B403	A31	1
D008	M132	MSD982769663	7.07	3357	B403	A99	1
D008	M013	NYD002240638	10.7	3484	B403	A09	1
D008	M043	NYD002240638	4.96	3484	B403	A09	1
D008	M111	LA0213820533	0.002	3489	B403	A08	1
D008	M111	NHD040244428	8	3672	B403	A71	1
D008	M141	MAD076590652	19.537	3672	B403	A89	1
D008	M043	NYD002241982	1.3	3672	B403	A99	1
D008	M141	NHD982200685	1.91	3676	B403	A08	1
D008	M129	MDD981111263	0.2	4111	B403	A99	1
D008	M132	MID068819648	33.6	5171	B403	A21	1
D008	M043	MAD000769638	4.75	5171	B403	A59	1
D008	M132	NCT000002279	8.89	6513	B403	A57	1
D008	M141	NV7570024110	2.522	9711	B403	A21	1
D008	M129	TXD006496251	0.66	2082	B403	A21	1
D008	M061	PAD004397030	1.405	2851	B403	A59	1
D008	M041	SDD981545577	0.4	3672	B403	A01	1
D008	M061	SDD981545577	0.65	3672	B403	A01	1
D008	M132	PAD092868793	4.125	3672	B403	A01	1
D008	M111	VAD003129640	0.245	3728	B403	A58	1
D008	M141	VA1170024813	0.014	3731	B403	A21	1
D008	M141	PAD981742448	0.4	4111	B403	A59	1
D008	M132	VAD000607986	28.659	5171	B403	A21	1
D008	M141	VA5170022482	2.175	9711	B403	A08	1
D008	M141	VA1213720815	0.175	9711	B403	A21	1
D008	M141	VA5170022482	0.6	9711	B403	A21	1
D008	M043	NCD003150562	1.545	2296	B403	A57	2
D008	M141	MDD087293346	155.4	3441	B403	A93	2
D008	M141	NJD002526069	0.6	3471	B403	A93	2
D008	M111	MAD001017599	46.49	9999	B403	A69	2
D008	M132	MAD001017599	289.7	9999	B403	A69	2
D008	M141	MAD001017599	0.178	9999	B403	A69	2
D008	M043	UTD980954168	1.319	3672	B403	A01	2
D008	M119	VAD981738479	0.15	3672	B403	A56	2
D008	M141	MAD086534864	1.514	3841	B403	A75	3
D008	M141	NYD002242006	4.4	3421	B404	A25	1
D008	MDK	NJD051406346	0.2	3652	B404	A58	1
D008	M141	MND053422762	0.95	3672	B404	A32	1
D008	M111	NHD040244428	1.75	3672	B404	A59	1
D008	M141	MAD001012244	1.5	3672	B404	A59	1
D008	M141	MAD980525505	0.5	3672	B404	A59	1
D008	M111	MAD990886301	0.99	3679	B404	A49	1
D008	M132	MDD003090198	0.2	3999	B404	A71	1
D008	M032	VID980536080	0.728	2911	B404	A78	1
D008	M043	PAD981039613	0.5	3451	B404	A19	1
D008	M132	WID988575379	75	3624	B404	A71	1
D008	M141	MDD982566218	0.275	3484	B405	A92	1
D008	M141	MAD000844571	1.839	3672	B405	A01	1
D008	M141	MS6210809871	0.052	9199	B405	A94	3
D008	M043	MID980995096	2.385	2851	B406	A59	1
D008	M043	MOD000687525	0.061	3613	B406	A56	1
D008	M141	MED058951047	16.439	3625	B406	A59	1
D008	M061	MAD000652644	0.54	3672	B406	A59	1
D008	M013	ORD010746402	49.453	3691	B406	A57	1

Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M111	NJD061829461	46.2	5093	B406	A72	1
D008	M043	PAD000796334	0.18	3678	B406	A92	1
D008	M013	MND001970334	0.829	3483	B407	A99	1
D008	M141	NYD001315266	0.325	3694	B407	A92	1
D008	M043	NC1170027261	0.182	9711	B407	A92	1
D008	M043	VAD981036957	0.3	3728	B407	A58	1
D008	M131	VA1170024813	3.46	3731	B407	A29	1
D008	M141	VA1170024813	30.045	3731	B407	A29	1
D008	M043	PA0890090004	0.165	8731	B407	A99	1
D008	M141	VA4690320235	0.091	8744	B407	A21	1
D008	M043	NJD986592129	0.22	3356	B407	A69	2
D008	M141	VAD066000993	4.375	3672	B407	A56	2
D008	M043	MOD000823252	1.016	1031	B409	A53	1
D008	M043	NVD000626531	0.45	1041	B409	A59	1
D008	M132	NVD000626531	4.2	1041	B409	A59	1
D008	M119	MED001095470	0.037	2621	B409	A08	1
D008	M013	NCD003148889	0.1	2621	B409	A21	1
D008	M049	NJD053104501	0.227	2813	B409	A19	1
D008	M141	NJD001340686	1.147	2851	B409	A78	1
D008	M132	NJD002173946	0.26	2892	B409	A08	1
D008	M132	MND000686071	0.6	2911	B409	A08	1
D008	M137	NED000802843	0.415	3052	B409	A35	1
D008	M111	NJD002389468	223.44	3061	B409	A92	1
D008	M043	NYD002116499	1.87	3231	B409	A09	1
D008	M043	MID038616959	3.207	3231	B409	A21	1
D008	M043	NJD002325074	1.192	3262	B409	A21	1
D008	M019	NJD002325074	3.355	3263	B409	A57	1
D008	M043	NJD002325074	0.112	3263	B409	A57	1
D008	M132	NJD002325074	19.605	3263	B409	A57	1
D008	M111	MID004320479	0.15	3312	B409	A09	1
D008	M043	NJD002181386	0.5	3356	B409	A92	1
D008	M141	NYD002242006	1.6	3421	B409	A07	1
D008	M061	MND006253801	0.9	3471	B409	A29	1
D008	M013	MND980996805	48.964	3471	B409	A35	1
D008	M013	NYD002240638	4.2	3484	B409	A59	1
D008	M013	MND000819268	7.894	3489	B409	A99	1
D008	M111	NHD058537960	1.953	3494	B409	A78	1
D008	M043	MND006253223	0.05	3561	B409	A99	1
D008	M043	MND980702286	7.9	3561	B409	A99	1
D008	M141	NYD982528606	0.4	3575	B409	A29	1
D008	M043	NHD986467124	4.65	3599	B409	A29	1
D008	M042	MOD000687525	0.327	3613	B409	A01	1
D008	M019	NYD001560879	0.125	3624	B409	A49	1
D008	M111	NYD001560879	11	3624	B409	A49	1
D008	M141	MAD980525505	0.4	3672	B409	A09	1
D008	M111	MAD001008770	0.05	3672	B409	A22	1
D008	M141	NHD046312559	10.088	3672	B409	A29	1
D008	M043	NYD002241982	2.5	3672	B409	A37	1
D008	M111	MED077469864	1.575	3675	B409	A29	1
D008	M141	NYD059385120	0.45	3679	B409	A19	1
D008	M061	NYD001315266	3.73	3694	B409	A92	1
D008	M053	NYD091975037	0.3	3699	B409	A31	1
D008	M111	MID065597809	1.75	3714	B409	A58	1
D008	M132	MID084571256	0.229	3714	B409	A92	1
D008	M132	NMD052684578	0.162	3724	B409	A49	1
D008	M141	MAD001013226	0.271	3826	B409	A35	1
D008	M141	MAD065781197	0.07	3827	B409	A21	1
D008	M043	NYD000809327	0.625	3861	B409	A19	1
D008	M141	MAD062163191	16.593	3861	B409	A57	1
D008	M043	NYD000809327	0.01	3861	B409	A59	1
D008	M141	MAD062163191	0.401	3861	B409	A92	1
D008	M043	MND006961239	2.109	4011	B409	A56	1
D008	M041	NYD030214738	0.672	4911	B409	A08	1
D008	M141	NHD986469542	22.1	4911	B409	A21	1
D008	M111	NYD987032604	1.486	7033	B409	A69	1
D008	M141	MDD069386480	1.794	8731	B409	A94	1
D008	M043	NCD980843866	1.595	8734	B409	A09	1
D008	M111	MID076380658	0.5	8734	B409	A59	1
D008	M141	MND000823914	0.29	8741	B409	A57	1
D008	M141	NHD986469625	0.4	9199	B409	A99	1
D008	M132	NJ0170022172	45.3	9711	B409	A29	1
D008	M141	NC6570024475	4.65	9711	B409	A29	1
D008	M141	VAD005007679	0.4	2823	B409	A08	1

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D008	M043	RID001805670	1.341	2865	B409	A33	1
D008	M141	RID001805670	10.051	2865	B409	A33	1
D008	M043	TXD005942438	0.35	2869	B409	A08	1
D008	M141	TXD005942438	31.07	2869	B409	A08	1
D008	M111	PAD021450382	28	3053	B409	A49	1
D008	M043	WID003966884	2.392	3069	B409	A29	1
D008	M111	WID006073225	325.14	3432	B409	A29	1
D008	M141	VAD980831176	0.988	3541	B409	A49	1
D008	M141	WID006084172	5.847	3585	B409	A29	1
D008	M111	VAD003132545	3.15	3625	B409	A09	1
D008	M043	PAD097880538	0.2	3672	B409	A49	1
D008	M043	RID058058405	0.73	3674	B409	A49	1
D008	M081	VTD001780725	0.688	3691	B409	A59	1
D008	M141	PAD000621508	0.08	3769	B409	A92	1
D008	M141	PAD001680719	0.042	3769	B409	A99	1
D008	M141	RID001463090	0.313	3812	B409	A29	1
D008	M043	PAD981036551	1.06	3829	B409	A57	1
D008	M043	PAD981036551	0.077	3829	B409	A59	1
D008	M061	WVD001863679	1.95	4011	B409	A69	1
D008	M132	TXD010794097	50.85	4226	B409	A08	1
D008	M141	VA6170061463	0.031	9711	B409	A21	1
D008	M141	UT3213820894	0.124	9711	B409	A58	1
D008	M111	ORD093481646	2.121	1721	B409	A08	2
D008	M043	NJD002385730	1.477	2869	B409	A69	2
D008	M119	NJD001213453	55.44	2869	B409	A69	2
D008	M132	MOD006266365	18.9	3211	B409	A56	2
D008	M141	NYD980768253	0.7	3462	B409	A93	2
D008	M061	NYD987025137	58.5	4225	B409	A69	2
D008	M141	NYD987036258	0.8	5149	B409	A65	2
D008	M041	MAD985286855	22	5541	B409	A59	2
D008	M039	NJD079320495	6.72	6512	B409	A69	2
D008	M132	NJD079320495	0.075	6512	B409	A69	2
D008	M111	RID080815145	21.22	2672	B409	A53	2
D008	M129	RID080815145	0.625	2672	B409	A56	2
D008	M132	VAD000485300	33	2711	B409	A09	2
D008	M111	PAD074986795	306.55	2819	B409	A69	2
D008	M141	VTD002065597	1.012	3692	B409	A53	2
D008	M111	PAD004321527	0.99	3821	B409	A56	2
D008	M999	WAD980836530	0.001	4931	B409		2
D008	M023	PAD000780049	0.5	5171	B409	A38	2
D008	M132	NJD002173946	0.325	2892	B409	A99	3
D008	M999	WID006085757	0.15	2531	B410	A53	2
D008	M043	WID006274153	0.025	3484	B410	A09	2
D008	M111	WID988638300	218.4	4231	B410	A99	2
D008	M129	WID053691283	2.8	3483	B411	A56	1
D008	M132	TX3214020429	1,294.25	9711	B488	A29	1
D008	M141	TX8571524117	1.16	9711	B488	A99	1
D008	M043	TX8571524091	4.01	2851	B490		1
D008	M132	TX8571524091	72.29	2851	B490		1
D008	M132	TXD987988953	1.26	3494	B490	A29	1
D008	M132	TXD026046391	66.43	5171	B490	A29	1
D008	M132	TXD982288821	37.84	5171	B490	A29	1
D008	M141	NJD002189132	3.67	2819	B502	A30	1
D008	M119	NJD002189132	1.606	2819	B502	A75	1
D008	M111	MSD985978501	5	3315	B502	A60	1
D008	M022	ORD987175569	1.241	3674	B502	A71	1
D008	M061	ORD987175569	19.242	3674	B502	A71	1
D008	M141	TXD068999622	23.57	3341	B502	A75	1
D008	M079	PAD981036551	1.25	3829	B502	A75	1
D008	M042	NJD981142185	109.569	4231	B503	A19	1
D008	M013	PAD069038941	0.509	2816	B503	A76	1
D008	M109	NJ6180010120	2.836	4311	B503	A76	2
D008	M112	NJD002325074	105.88	3262	B504	A75	1
D008	M141	MAD051778934	1.96	3672	B504	A09	1
D008	M109	MND053422762	1.05	3672	B504	A60	1
D008	M141	MAD982194482	2.1	3672	B504	A75	1
D008	M141	MAD001060698	0.22	3679	B504	A92	1
D008	M042	NYD002115087	20.201	3714	B504	A19	1
D008	M112	WVD136333580	70.5	3262	B504	A75	1
D008	M013	UTD009073305	86.5	3679	B504	A75	1
D008	M013	PAD014167589	6.307	3691	B504	A60	1
D008	M141	PAD981741457	4.467	9621	B504	A60	1
D008	M141	MAD086534864	0.984	3841	B504	A76	3

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D008	M132	NVD981639586	21.4	7549	B504	A03	3
D008	M043	MOD980968739	0.229	3471	B505	A25	1
D008	M125	MID005344973	0.5	3471	B505	A38	1
D008	M014	MNT280010034	1.4	3672	B505	A09	1
D008	M141	MND053422762	1.875	3672	B505	A60	1
D008	M141	RID982755324	1.25	3471	B505	A59	1
D008	M129	WID053691283	0.1	3483	B505	A56	1
D008	M141	MAD001923408	1.042	3669	B505	A53	2
D008	M109	MND050730175	5.734	3471	B506	A38	1
D008	M013	PAD014167589	88.443	3691	B507	A78	1
D008	M059	WID006069710	2.079	3824	B509	A60	1
D008	M119	MOD985797331	2.364	3643	B510	A29	1
D008	M111	WID006073225	2.831	3432	B510	A03	1
D008	M021	PAD002122653	0.3	3449	B510	A06	1
D008	M042	NYD002134880	2.5	3312	B510	A53	2
D008	M111	NJD002156354	1.355	2869	B511	A49	1
D008	M111	NYD981494644	43.5	3321	B511	A78	1
D008	M111	NHD058537960	257.625	3366	B511	A78	1
D008	M132	MID985569946	81.764	3931	B511	A78	1
D008	M111	PAD061105441	68.36	3321	B511	A78	1
D008	M011	PAD002103265	21.72	3624	B511	A71	1
D008	M141	VAD066000993	3.55	3672	B511	A78	1
D008	M013	PAD014167589	63.599	3691	B511	A78	1
D008	M141	VTD001075894	2.85	3724	B511	A60	1
D008	M141	VTD002085108	5.286	3724	B511	A78	1
D008	M032	MID038624508	6.386	3714	B512	A21	1
D008	M141	NYD980768253	0.4	3462	B513	A60	1
D008	M132	NYD093256063	0.291	3629	B513	A19	1
D008	M111	MID985569987	15.751	3711	B513	A21	1
D008	M042	NYD986936961	0.4	3714	B513	A92	1
D008	M013	PAD004510848	26.025	3674	B513	A64	1
D008	M111	PAD004510848	51.106	3674	B513	A64	1
D008	M111	PAD987391836	394.1	4911	B513	A99	1
D008	M077	PA8890031869	75.75	8733	B513	A60	1
D008	M042	NJD002385730	120.561	2869	B513	A69	2
D008	M061	MND006158943	0.027	2621	B519	A60	1
D008	M141	NJD002190627	4.85	2816	B519	A60	1
D008	M042	MDD980918288	0.592	2851	B519	A09	1
D008	M042	MID099124349	99.549	2851	B519	A60	1
D008	M061	MID099124349	8.446	2851	B519	A60	1
D008	M121	NCD061792362	3.5	3221	B519	A60	1
D008	M141	NCD061792362	0.9	3221	B519	A60	1
D008	M111	NYD000824359	45.5	3229	B519	A60	1
D008	M111	MID005357504	0.213	3369	B519	A09	1
D008	M111	MID005357504	131.663	3369	B519	A38	1
D008	M111	MID005357504	2.125	3369	B519	A60	1
D008	M121	MID982604001	14.804	3479	B519	A24	1
D008	M111	NJD000499293	0.2	3479	B519	A26	1
D008	M111	MND006161756	1.012	3571	B519	A29	1
D008	M042	NYD001317072	0.5	3585	B519	A29	1
D008	M141	MED058951047	0.88	3625	B519	A38	1
D008	M109	MND041786930	0.2	3672	B519	A71	1
D008	M141	MAD001055235	0.2	3679	B519	A51	1
D008	M141	MAD001055235	0.05	3679	B519	A56	1
D008	M132	LAD089317341	16.37	3713	B519	A08	1
D008	M111	MID065597809	5.21	3714	B519	A09	1
D008	M042	MID006401970	1.418	3724	B519	A60	1
D008	M141	MAD001127224	2.613	3851	B519	A35	1
D008	M111	MAD076575513	579	4931	B519	A60	1
D008	M042	MOD985812916	0.551	6531	B519	A92	1
D008	M141	RID001198605	1.375	3229	B519	A21	1
D008	M111	PAD030068282	7.55	3341	B519	A59	1
D008	M019	VAD981738479	0.12	3672	B519	A27	1
D008	M013	PAD079181186	420.693	3691	B519	A60	1
D008	M132	WID006092555	1.013	3714	B519	A82	1
D008	M132	TXD063067466	8.26	3724	B519	A19	1
D008	M141	VTD001075894	3.483	3724	B519	A59	1
D008	M019	VTD002085108	77.68	3724	B519	A60	1
D008	M109	PAD987328374	3	4813	B519	A92	1
D008	M109	PAD987342839	0.53	4813	B519	A92	1
D008	M111	PAD987328374	15.905	4813	B519	A92	1
D008	M111	PAD987342839	3.565	4813	B519	A92	1
D008	M141	TXD980869184	0.79	8221	B519	A99	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008	M042	PA0890090004	0.704	8731	B519	A09	1
D008	M013	NJD002385730	33.696	2869	B519	A60	2
D008	M042	NYD987028297	3.36	7532	B519	A69	2
D008	M132	NYD002126852	17.225	3714	B519	A60	3
D008	M059	WID001781186	101.94	7216	B602	A19	1
D008	M141	LA0000023903	2.4	1389	B603	A19	1
D008	M132	NDD006175467	11.402	2911	B603	A38	1
D008	M032	MAD039324009	9.506	3295	B603	A54	1
D008	M125	MID005381439	0.558	3341	B603	A54	1
D008	M049	MAD980522817	25.48	3357	B603	A54	1
D008	M061	MID020105565	14.108	3462	B603	A04	1
D008	M111	LAD985211762	15	3499	B603	A38	1
D008	M119	NYD013128582	0.344	3559	B603	A38	1
D008	M141	MAD001055235	11	3679	B603	A51	1
D008	M052	NJD980536676	41.674	4226	B603	A60	1
D008	M141	NYD980642227	6.2	4729	B603	A99	1
D008	M042	NYD000765065	3.811	4911	B603	A19	1
D008	M019	MOD980631295	1.87	9711	B603	A60	1
D008	M109	NY0214020281	1.22	9711	B603	A60	1
D008	M111	PAD000766063	0.6	3312	B603	A60	1
D008	M109	PAD003023371	9.384	3315	B603	A60	1
D008	M052	TXD048772610	18.5	3432	B603	A54	1
D008	M061	TXD048772610	4.04	3432	B603	A54	1
D008	M141	PAD003008448	4.4	3451	B603	A49	1
D008	M141	PAD004327987	21.8	3494	B603	A29	1
D008	M129	PAD097156962	0.212	3679	B603	A09	1
D008	M141	WID042622274	1.275	7694	B603	A60	1
D008	M042	PA0890090004	0.873	8731	B603	A56	1
D008	M132	NJD000574285	2.32	4931	B603	A53	2
D008	M041	NYD987028446	0.25	5541	B603	A60	2
D008	M042	NYD987028446	0.5	5541	B603	A60	2
D008	M043	NYD987008083	8.5	5541	B603	A60	2
D008	M061	NJD986598514	1.5	5541	B603	A60	2
D008	M061	NJD986598597	1	5541	B603	A60	2
D008	M061	NJP000909101	12.2	5541	B603	A60	2
D008	M141	NYD981184450	2.178	5541	B603	A60	2
D008	M041	NYD981133358	3.423	5541	B603	A69	2
D008	M041	NYD986899805	4.5	5541	B603	A69	2
D008	M041	NYD986903169	17.015	5541	B603	A69	2
D008	M041	NYD986944684	5	5541	B603	A69	2
D008	M042	NYD980784003	4.108	5541	B603	A69	2
D008	M042	NYD982269979	2.739	5541	B603	A69	2
D008	M042	NYD986899805	2.25	5541	B603	A69	2
D008	M042	NYD986932622	3.5	5541	B603	A69	2
D008	M042	NYD987035391	3.9	5541	B603	A69	2
D008	M041	NYD002244945	1.307	9999	B603	A38	2
D008	M141	NHD990717647	4.15	9999	B603	A61	2
D008	M132	MID981000482	6.5	3479	B604	A38	1
D008	M132	MDD003075207	26.348	3499	B604	A21	1
D008	M141	NYD000368423	0.3	3519	B604	A19	1
D008	M111	MID000809764	171.36	3711	B604	A21	1
D008	M111	MID005379706	4.532	3711	B604	A21	1
D008	M111	MID005379813	33	3714	B604	A21	1
D008	M111	MID003906773	69.5	5013	B604	A09	1
D008	M111	MID003906773	5.004	5013	B604	A21	1
D008	M043	PAD000766170	0.042	2672	B604	A06	1
D008	M021	WID006077374	8.078	3537	B604	A21	1
D008	M141	TXD088996186	0.34	3577	B604	A58	1
D008	M042	UT9210020922	0.172	9711	B604	A21	1
D008	M141	VA6170061463	0.119	9711	B604	A21	1
D008	M132	MID005107222	19.73	3714	B604	A09	2
D008	M042	MTD071401368	1.063	3499	B606	A92	1
D008	M042	NYD002104404	19.845	3083	B606	A64	2
D008	M132	NJD000813477	0.075	4213	B608	A19	1
D008	M141	MAD051505477	1.575	2869	B609	A60	1
D008	M042	OKD990750960	1.904	2911	B609	A09	1
D008	M061	MID005357504	0.83	3369	B609	A09	1
D008	M141	NHD980668156	7.85	3672	B609	A01	1
D008	M132	NYD002241982	0.5	3672	B609	A38	1
D008	M141	NJD006980924	0.02	8731	B609	A58	1
D008	M129	MS3170024639	0.001	9711	B609	A58	1
D008	M043	VAD990800138	0.6	3731	B609	A99	1
D008	M132	WID007862964	258.57	5093	B609	A60	2

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D008	M111	NJD096880265	399.381	4931	B623	A92	2
D008	M141	TXD008063364	1.25	3533	B696	A58	1
D008	M013	TXD980626642	57.12	3691	B901	A91	1
D008	M141	TXD981145766	1.37	3672		A29	1
D008	M111	TXD060170321	4.16	3676		A23	1
D008	M999	WAD061670766	4.59	3728			1
D008	M999	WAD009480823	0.008	3764			1
D008	M999	WAD017404625	0.01	3764			1
D008	M999	WAD009249392	0.06	3812			1
D008	M999	WA8570024200	0.25	4581			1
D008	M999	WA2170023418	98.97	9711			1
D008	M999	WA5170027291	0.31	9711			1
D008	M999	WA9214053465	0.001	9711			1
D008	M999	WA7890008967	0.59	9999			1
D008	M999	WAD052594751	0.1	1221			2
D008	M999	WAD009072356	0.31	3537			2
D008	M999	WAD041585464	16,738.27	3721			2
D008	M999	WAD982658155	0.002	4911			2
D008	M999	WAD988467650	0	4911			2
D008	M999	WAD988512158	155.21	4911			2
D008	M999	WAD988522462	47.51	4941			2
D008	M999	WAD988466942	2,669.01	6552			2
D008	M999	WAD988523742	17.83	8211			2
D008	M999	WAD981767007	40.21	9531			2
D008	M999	WA2170023418	26.45	9711			2
D008	M999	WA9214053465	0.08	9711			2
D009	M019	NJD986593705	0.48	62	B	A53	1
D009	M043	NJD002342087	0.24	3229	B	A	1
D009	M019	MOD054950670	0.03	3678	B	A94	1
D009	M019	NJD986629004	0.085	4939	B	A99	1
D009	M129	NJD982796633	0.13	8711	B	A94	1
D009	M129	UT0571724350	0.052	9711	B	A58	1
D009	M141	NJD986584134	0.934	2869	B	A92	2
D009	MDK	NJD002334084	0.004	3612	B	A56	2
D009	M141	NYD980785950	0.002	2022	B001	A58	1
D009	M039	NJD001288042	0.025	2032	B001	A94	1
D009	M043	MIT270011513	0.01	2522	B001	A58	1
D009	M141	NYD002067882	0	2611	B001	A94	1
D009	M119	MOD046740148	0.02	2618	B001	A58	1
D009	M012	MID009708678	0.02	2819	B001	A58	1
D009	M111	NJD002373819	0.688	2819	B001	A94	1
D009	M094	MOD006278642	0.05	2821	B001	A94	1
D009	M141	MDD022402994	0.157	2834	B001	A94	1
D009	M141	NJD011550092	0.004	2834	B001	A94	1
D009	M041	NJD986630630	0.05	2835	B001	A94	1
D009	M141	NCD067181818	0.05	2836	B001	A94	1
D009	M012	LAD981052376	0.004	2869	B001	A58	1
D009	M141	NJD064332273	0.115	2869	B001	A58	1
D009	M041	NJD986579894	0	2869	B001	A94	1
D009	M041	NYD000632315	0.016	2869	B001	A94	1
D009	M141	NCD085074821	0.025	2869	B001	A94	1
D009	M019	NJD002568715	0.014	2891	B001	A94	1
D009	M119	NYD002108629	0.001	2891	B001	A94	1
D009	M141	MD3170024720	0.001	2899	B001	A58	1
D009	M141	NJD073745945	0.08	2911	B001	A94	1
D009	M141	NYD000523993	0.021	3021	B001	A58	1
D009	M049	NYD052980893	0	3086	B001	A58	1
D009	M141	NCD980559983	0.06	3229	B001	A56	1
D009	M061	NJD049642820	0.001	3231	B001	A94	1
D009	M141	NJD002350023	0.058	3296	B001	A56	1
D009	M132	NJD002445583	0	3324	B001	A58	1
D009	M141	NHD037695236	0.003	3555	B001	A55	1
D009	M141	NHD073974651	0.02	3672	B001	A58	1
D009	M141	NHD052017787	0.005	3679	B001	A58	1
D009	M019	MID005356860	0.02	3714	B001	A58	1
D009	M012	NYD002126852	0.011	3714	B001	A94	1
D009	M141	MAD001408491	0.005	3724	B001	A58	1
D009	M141	NJD002442549	0.001	3728	B001	A59	1
D009	M141	MAD001047968	0.012	3826	B001	A94	1
D009	M119	MAD000652644	0.001	3829	B001	A55	1
D009	M141	NJD000631937	0.825	3842	B001	A59	1
D009	M141	NYD000809327	0.002	3861	B001	A58	1
D009	M141	NED000829754	0.017	4011	B001	A58	1

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D009	M141	NYD072756513	0.08	4512	B001	A93	1
D009	M019	NHD000791491	0.001	4911	B001	A56	1
D009	M019	MED071749329	0.028	4911	B001	A58	1
D009	M049	MDD000731596	0.005	4911	B001	A58	1
D009	M129	MDD053936464	0.04	4911	B001	A58	1
D009	M141	MED985467570	0.037	4911	B001	A94	1
D009	M141	NJD077070811	0.019	4931	B001	A58	1
D009	M012	MAD076575513	0.005	4931	B001	A94	1
D009	M043	NJD069896165	0.02	8062	B001	A37	1
D009	M019	MI5570024278	0.01	8099	B001	A94	1
D009	M019	MOD985795574	0.01	8211	B001	A58	1
D009	M129	MOD985795574	0.06	8211	B001	A58	1
D009	M141	NJD091397547	0.004	8211	B001	A94	1
D009	M019	NVD981963549	0.001	8221	B001	A94	1
D009	M039	NYD060546181	0.007	8221	B001	A94	1
D009	M141	NYD000829572	0.087	8221	B001	A94	1
D009	M129	NY5890008993	0.004	8731	B001	A58	1
D009	M129	NY6890008992	0.002	8731	B001	A58	1
D009	M019	MOT300010220	0.07	8734	B001	A58	1
D009	M141	MOT300010220	0.025	8734	B001	A58	1
D009	M141	NJD981564099	0.007	8734	B001	A58	1
D009	M019	MID000718791	0	8734	B001	A94	1
D009	M019	NJD982185407	0.03	8734	B001	A94	1
D009	M141	MD9210020567	0.184	9199	B001	A57	1
D009	M012	NJ0170022172	0.045	9711	B001	A94	1
D009	M141	MED077474757	0.001	9999	B001	A94	1
D009	M141	VAD000819466	0.025	2111	B001	A94	1
D009	M141	PAD002274991	0.005	2621	B001	A58	1
D009	M043	WID096828744	0.085	2621	B001	A59	1
D009	M019	VTD064436074	0.002	2631	B001	A94	1
D009	M141	PAD043394683	0.055	2819	B001	A58	1
D009	M012	PRD091197301	0.002	2834	B001	A58	1
D009	M141	PRD105750236	0.01	2834	B001	A59	1
D009	M141	WID076151364	0	2834	B001	A59	1
D009	M011	PRD090023250	0.01	2834	B001	A94	1
D009	M141	VAD000820662	0.002	2834	B001	A94	1
D009	M141	TXD000449694	0.12	2869	B001	A58	1
D009	M019	WVD004325353	0	2869	B001	A94	1
D009	M141	PAD000766063	0.021	3312	B001	A58	1
D009	M141	PAD004322509	0.005	3312	B001	A58	1
D009	M141	PAD004379061	0.153	3312	B001	A58	1
D009	M014	WID006161368	0.152	3585	B001	A59	1
D009	M043	WID006161368	0.007	3585	B001	A59	1
D009	M141	PA4170022418	0.135	3731	B001	A58	1
D009	M041	PRD091188193	0.002	3841	B001	A94	1
D009	M051	PRD091188193	0.284	3841	B001	A94	1
D009	M141	PRD101793834	0.003	3851	B001	A94	1
D009	M141	PAD000730515	0.012	3996	B001	A94	1
D009	M019	UTD093119980	0.002	4911	B001	A58	1
D009	M141	WID982650160	0.001	8221	B001	A58	1
D009	M141	VA6170061463	0.006	9711	B001	A58	1
D009	M141	NCD003189024	0.01	2869	B001	A53	2
D009	M141	NYD002104404	0.01	3083	B001	A94	2
D009	M019	NCD041414772	0.006	3563	B001	A94	2
D009	M141	MED985467844	0.01	3678	B001	A58	2
D009	M141	NJD000767806	0.008	8731	B001	A59	2
D009	M129	WID066881202	0.01	2841	B001	A59	2
D009	M141	PAD000798132	0.003	4911	B001	A93	2
D009	M141	PAD000797951	0	4911	B001	A94	2
D009	M999	WID003967148	36.925	9511	B001	A59	2
D009	M141	MDD170090021	0	8221	B001	A99	3
D009	M141	NJD003001757	0.002	2064	B002	A59	1
D009	M141	NJD981181191	0.225	2297	B002	A91	1
D009	M019	MID003938156	0.03	2631	B002	A94	1
D009	M041	NJD002361947	0.012	2834	B002	A56	1
D009	M141	NYD982189086	0.012	2834	B002	A94	1
D009	M141	MAD000844498	0.001	2869	B002	A94	1
D009	M049	LAD050901669	0.005	2899	B002	A94	1
D009	M141	NYD001704444	0.01	3086	B002	A57	1
D009	M019	NYD004971503	0.15	3229	B002	A93	1
D009	M129	NYD987039237	0.036	3449	B002	A94	1
D009	M012	MID005356886	0.215	3714	B002	A56	1
D009	M141	MED000791681	0.026	3724	B002	A53	1

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D009	M019	NJD077724201	0.112	3826	B002	A56	1
D009	M019	MDD990759631	0.005	3829	B002	A94	1
D009	M132	NYD980592497	50.794	3861	B002	A59	1
D009	M111	NHD000842666	0.085	4911	B002	A53	1
D009	M019	NYD057381535	0.06	8062	B002	A53	1
D009	M011	NVD981963549	0.002	8221	B002	A94	1
D009	M019	MAD000844670	0.053	8221	B002	A94	1
D009	M141	NHD000652065	0.001	8731	B002	A94	1
D009	M141	NJD006980924	0.04	8731	B002	A94	1
D009	M141	NJD048804488	0.095	8731	B002	A94	1
D009	M141	MED985467935	0.02	9999	B002	A94	1
D009	M141	PRD118150317	0.005	2834	B002	A59	1
D009	M141	PRD982725251	0.011	2834	B002	A94	1
D009	M012	PRD000632182	0.005	2911	B002	A94	1
D009	M141	VTD099682494	0.021	3083	B002	A94	1
D009	M141	PAD981947294	0.005	3671	B002	A56	1
D009	M132	TXD981595531	0.04	3731	B002		1
D009	M141	PAD000730515	0.035	3996	B002	A94	1
D009	M019	PAD987342839	0.02	4813	B002	A56	1
D009	M141	PAD000797951	0.005	4911	B002	A99	1
D009	M141	LAD008052334	0.005	2911	B002	A94	2
D009	M019	NED007266331	0	3052	B002	A94	2
D009	M141	MAD046131678	0	3089	B002	A99	2
D009	M014	NCD079044426	0.026	3646	B002	A94	2
D009	M141	NJD077070811	0.057	4931	B002	A53	2
D009	M019	MAD071723621	0.025	8062	B002	A53	2
D009	M141	MDD069283240	0.005	8731	B002	A53	2
D009	M141	NYD980779540	0.001	9999	B002	A53	2
D009	M141	NJD048794986	0.005		B003	A94	1
D009	M141	NJD986638427	0.015	2087	B003	A94	1
D009	M019	MSD008159717	0.013	2621	B003	A53	1
D009	M141	NJD093842961	0.033	2800	B003	A58	1
D009	M141	NJD002173276	0.085	2833	B003	A94	1
D009	M141	NJD001344506	0.035	2834	B003	A56	1
D009	M141	NYD037053485	0.28	2834	B003	A57	1
D009	M041	NJD000818567	0.044	2834	B003	A58	1
D009	M041	NJD002147692	0.025	2834	B003	A58	1
D009	M041	NJD002361947	0.017	2834	B003	A58	1
D009	M141	NJD058118308	0.005	2834	B003	A58	1
D009	M141	NJD001479302	0.057	2834	B003	A59	1
D009	M141	MAD980673065	0.027	2834	B003	A94	1
D009	M141	MAD982196172	2.147	2834	B003	A94	1
D009	M141	MDD022402994	0.052	2834	B003	A94	1
D009	M141	MDD981939606	0.04	2834	B003	A94	1
D009	M141	NJD002191211	0.095	2834	B003	A94	1
D009	M141	NJD002361947	0.047	2834	B003	A94	1
D009	M141	NJD011550092	0.005	2834	B003	A94	1
D009	M141	NJD098262173	0	2834	B003	A94	1
D009	M141	NYD001288281	0.02	2834	B003	A94	1
D009	M141	NYD114425051	1.1	2834	B003	A99	1
D009	M141	MDD982579518	0.05	2835	B003	A59	1
D009	M141	NJD068693167	0.165	2841	B003	A59	1
D009	M141	NJD980768600	0.002	2844	B003	A58	1
D009	M141	NJD053101085	0.04	2869	B003	A58	1
D009	M019	NYD986944973	0.031	2869	B003	A94	1
D009	M141	NYD072721004	0.025	2869	B003	A94	1
D009	M041	NJD002173946	0.004	2892	B003	A58	1
D009	M141	MSD098595317	0.01	2911	B003	A94	1
D009	M043	NYD980592851	0.005	3081	B003	A53	1
D009	M141	NHD062002035	0.001	3089	B003	A94	1
D009	M019	NYD002245967	0.01	3334	B003	A94	1
D009	M012	NYD002233997	0.025	3357	B003	A94	1
D009	M141	NHD041463456	0.02	3357	B003	A94	1
D009	M137	NJD982727265	0.012	3499	B003	A94	1
D009	M141	NMD056773765	0.009	3661	B003	A99	1
D009	M019	NHD991302522	0	3672	B003	A94	1
D009	M141	MAD002423267	0.024	3674	B003	A99	1
D009	M019	MID005358007	2.752	3711	B003	A56	1
D009	M132	MID980587893	0.017	3714	B003	A99	1
D009	M141	MAD000649707	0.008	3812	B003	A56	1
D009	M141	NJD986575033	0.015	3812	B003	A58	1
D009	M019	NJD986645448	0.159	3841	B003	A94	1
D009	M141	NJD986645448	0.001	3841	B003	A94	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D009	M043	NJD002454866	0.037	3842	B003	A59	1
D009	M141	NYD045606480	0.007	3861	B003	A58	1
D009	M012	NYD002056679	0.045	3861	B003	A94	1
D009	M141	NJD099285264	0.05	3999	B003	A94	1
D009	M041	NJD980536676	0.01	4226	B003	A94	1
D009	M141	MAD985270263	0	4813	B003	A58	1
D009	M012	NJD079325460	0.005	4813	B003	A59	1
D009	M111	NHD000791491	0.001	4911	B003	A59	1
D009	M141	MAD097454599	0.056	4911	B003	A94	1
D009	M041	NJD089216915	0.01	4931	B003	A59	1
D009	M141	MAD985280858	0.007	5961	B003	A99	1
D009	M141	NJD986646255	0.005	8062	B003	A53	1
D009	M041	NYD064727027	0.005	8062	B003	A94	1
D009	M141	LAD077900207	0.082	8062	B003	A94	1
D009	M129	MD6210020743	0.005	8071	B003	A59	1
D009	M141	MDD000737049	0.006	8099	B003	A94	1
D009	M141	MD6150004095	0.156	8099	B003	A94	1
D009	M141	NYD986948024	0.005	8221	B003	A58	1
D009	M141	MDD021461876	0.007	8221	B003	A59	1
D009	M012	NYD002223642	0.034	8221	B003	A94	1
D009	M019	NHD041027822	0.04	8221	B003	A94	1
D009	M041	MDD001910777	0.48	8221	B003	A94	1
D009	M041	NVT330010182	0.04	8221	B003	A94	1
D009	M049	NJD075162990	0.069	8221	B003	A94	1
D009	M132	NVT330010182	0.012	8221	B003	A94	1
D009	M141	MAD001425594	1.5	8221	B003	A94	1
D009	M141	MED982767030	0.07	8221	B003	A94	1
D009	M141	MNT280010414	0.066	8221	B003	A94	1
D009	M141	NYD000631994	0.209	8221	B003	A94	1
D009	M141	NYD048779326	0.3	8221	B003	A94	1
D009	M141	NYD071037113	0.03	8221	B003	A94	1
D009	M141	MDD981106867	0.001	8222	B003	A94	1
D009	M141	MDD049540792	0.01	8731	B003	A58	1
D009	M141	NJD018469346	0.005	8731	B003	A59	1
D009	M019	NYD071486518	0.02	8731	B003	A94	1
D009	M141	NJD000765081	0.006	8731	B003	A94	1
D009	M141	NJD048804488	0.01	8731	B003	A94	1
D009	M141	NJD089205280	0.097	8731	B003	A94	1
D009	M141	NJD980753842	0.005	8731	B003	A94	1
D009	M129	MD8213822762	0.022	8733	B003	A21	1
D009	M141	NY5120010710	0.03	8733	B003	A59	1
D009	M012	MOD006266803	0.028	8733	B003	A94	1
D009	M141	MAD001424985	0.002	8733	B003	A94	1
D009	M141	MD0120508940	0.117	8733	B003	A94	1
D009	M141	MD5123510732	0.117	8733	B003	A94	1
D009	M019	NCD109141424	0.005	8734	B003	A94	1
D009	M141	NCD986177061	0.037	8734	B003	A94	1
D009	M141	NYD002054419	0.08	8734	B003	A94	1
D009	M129	NVD097868731	0.008	8999	B003	A59	1
D009	M041	NYD982272247	0.003	9411	B003	A94	1
D009	M137	MD2970590004	0.048	9711	B003	A53	1
D009	M141	WID006095251	0.014	2082	B003	A59	1
D009	M141	WID006429005	0.063	2819	B003	A58	1
D009	M012	WID076151364	0.022	2834	B003	A59	1
D009	M141	PRD118150317	0.065	2834	B003	A59	1
D009	M019	WVD060682291	0.115	2869	B003	A94	1
D009	M049	WVD060682291	0.134	2869	B003	A94	1
D009	M012	PRD991291972	0.016	2911	B003	A58	1
D009	M012	WID006073225	0.034	3321	B003	A58	1
D009	M141	PAD003026655	0.005	3548	B003	A58	1
D009	M121	VTD002084705	0.015	3674	B003	A59	1
D009	M141	VA1170024813	0.38	3731	B003	A59	1
D009	M141	PAD000621508	0.041	3769	B003	A94	1
D009	M141	PAD001680719	0.022	3769	B003	A94	1
D009	M141	PAD002316305	0.11	3769	B003	A94	1
D009	M041	PAD980714414	0.002	3952	B003	A59	1
D009	M051	VAD000621177	0.125	4911	B003	A57	1
D009	M141	PAD000798132	0.529	4911	B003	A99	1
D009	M141	PAD020068383	0.005	8062	B003	A58	1
D009	M141	PAD020068383	0.005	8062	B003	A94	1
D009	M043	WID980904452	0.07	8221	B003	A57	1
D009	M141	WID980904452	0.001	8221	B003	A57	1
D009	M041	WID000809012	0.22	8221	B003	A59	1

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D009	M041	WID980283394	0.019	8221	B003	A59	1
D009	M141	RID075705780	0.052	8221	B003	A59	1
D009	M141	WID000809012	0.151	8221	B003	A59	1
D009	M141	WID980283394	0.028	8221	B003	A59	1
D009	M141	WID980904452	0.009	8221	B003	A59	1
D009	M141	WID981101165	0.294	8221	B003	A59	1
D009	M141	WID988576146	0.002	8221	B003	A59	1
D009	M141	WID006091417	0.004	8741	B003	A59	1
D009	M141	WID988628954	0.021	8811	B003	A89	1
D009	M079	NYD002123701	0.002	2045	B003	A53	2
D009	M141	NJD001368109	0.01	2052	B003	A58	2
D009	M141	MED001095041	0.116	2611	B003	A56	2
D009	M141	MAD000843920	0.015	2821	B003	A94	2
D009	M041	NJD002191211	0.005	2834	B003	A94	2
D009	M141	NJD986627206	0.005	2842	B003	A59	2
D009	M125	NCD980600597	0.002	2843	B003	A94	2
D009	M141	MAD001014570	0	3053	B003	A94	2
D009	M141	NYD002104404	0.013	3083	B003	A94	2
D009	M141	NJD002148484	0.012	3662	B003	A53	2
D009	M141	NJD053509568	0.006	3662	B003	A53	2
D009	M141	MD8213822762	0.001	8733	B003	A53	2
D009	M141	MD8213822762	0.006	8733	B003	A56	2
D009	M141	NJD991291584	0.005	8999	B003	A58	2
D009	M141	NYD987023413	1.775	9511	B003	A69	2
D009	M019	VAD089028518	0.015	3334	B003	A56	2
D009	M141	VAD089028518	0.015	3334	B003	A56	2
D009	M012	WID073836033	0.013	8249	B003	A89	2
D009	M043	MD8213822762	0.05	8733	B003	A55	3
D009	M141	MD8213822762	0.009	8733	B003	A55	3
D009	M019	MID005360680	0.003	2821	B004	A94	1
D009	M132	LAD981522295	0.007	2821	B004	A94	1
D009	M129	LA0214022725	0	9711	B004	A58	1
D009	M043	VAD982362428	0.02	3577	B004	A59	1
D009	M041	RID001784032	0.02	8734	B004	A93	1
D009	M111	RID058058405	0.04	3674	B004	A59	3
D009	M129	MND048166672	0.818	2752	B009	A99	1
D009	M041	MOD007134091	22.018	2834	B009	A58	1
D009	M019	MOD007134091	0.02	2834	B009	A59	1
D009	M012	NYD001315209	0	2834	B009	A94	1
D009	M141	NJD101686731	0.005	2834	B009	A94	1
D009	M041	NCD000616441	0.031	2844	B009	A58	1
D009	M019	NJD001213453	0	2869	B009	A58	1
D009	M141	MED058951047	0.003	3625	B009	A99	1
D009	M061	NYD982540569	0.7	3641	B009	A92	1
D009	M112	NYD982540569	0.6	3641	B009	A92	1
D009	M011	MAD001005370	0.065	3661	B009	A58	1
D009	M132	MAD001005370	1.23	3661	B009	A58	1
D009	M013	MOD007152903	0.137	3672	B009	A99	1
D009	M141	NHD982542458	0.089	8734	B009	A94	1
D009	M141	WID006105266	0.006	2013	B009	A59	1
D009	M141	PAD041731670	0.005	2816	B009	A94	1
D009	M019	WVD005005475	0.067	2821	B009	A99	1
D009	M141	PRD980764401	0.005	2834	B009	A56	1
D009	M019	PAD099091753	0.012	2834	B009	A99	1
D009	M043	PAD005028642	0.04	3331	B009	A56	1
D009	M019	WID006102545	0.005	3524	B009	A59	1
D009	M012	PAD002279149	0.04	3679	B009	A99	1
D009	M141	UTD980806236	0.825	3764	B009	A99	1
D009	M141	VTD060525151	0.075	8062	B009	A53	1
D009	M141	WID982650160	0	8221	B009	A58	1
D009	M141	PAD003001070	0.005	9999	B009	A94	1
D009	M119	MED001095470	0.116	2621	B009	A56	2
D009	M039	LAD990683716	0.1	2911	B009	A94	2
D009	M141	NJD001572999	0.04	3561	B009	A56	2
D009	M032	NYD002045466	0.003	3674	B009	A56	2
D009	M132	VAD058621996	0.007	7699	B009	A53	2
D009	M119	WID981534142	0	9511	B009	A79	3
D009	M141	MD6150004095	0.014	8099	B101	A94	1
D009	M041	PRD000691014	4.356	2835	B101	A09	1
D009	M077	NJD980775944	8.6	2834	B102	A31	1
D009	M041	NJD002361947	0.225	2834	B102	A57	1
D009	M141	NYD085503894	1.8	2835	B102	A59	1
D009	M081	NYD054065909	24.1	2836	B102	A37	1

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D009	M141	NYD054065909	15.392	2836	B102	A58	1
D009	M141	NJD058978750	0.6	2836	B102	A94	1
D009	M141	NE8571924648	0.166	9711	B102	A99	1
D009	M043	PRD090083478	0.6	3679	B102	A59	1
D009	M119	PRD090083478	0.6	3679	B102	A59	1
D009	M141	VA5170022482	1.1	9711	B102	A49	1
D009	M077	NYD980641641	0.252	3674	B103	A23	1
D009	M019	NYD986871424	0.448	3714	B103	A27	1
D009	M019	NY3570025475	0.023	4581	B103	A55	1
D009	M129	MD8211620267	0.01	9999	B105	A55	1
D009	M121	MED001095629	3.905	2621	B105	A53	2
D009	M141	MAD990685554	0.203	3669	B106	A23	1
D009	M141	MAD001055235	1.583	3679	B106	A23	1
D009	M141	MAD001339159	1.193	3679	B106	A75	1
D009	M099	MAD000639054	34.265	3728	B106	A92	1
D009	M099	MAD097437982	4.518	3728	B106	A92	1
D009	M119	PRD980298764	0.1	2834	B106	A94	1
D009	M099	PAD002399186	1.012	3672	B106	A23	1
D009	M129	MDP000007732	0.018	2999	B106	A62	2
D009	M141	VA6170061463	0.785	9711	B107	A58	1
D009	M141	MAD043409879	0.931	3861	B110	A94	1
D009	M041	MS2570024164	0.003	5122	B113	A58	1
D009	M081	PRD090413568	0.1	2834	B113	A94	1
D009	M094	VTD002065597	70.476	3692	B113	A75	1
D009	M141	MAD001030576	0.021	2262	B114	A94	1
D009	MDK	NJD064344575	0.063	2833	B114	A56	1
D009	M129	NJD980775944	0.6	2834	B114	A57	1
D009	M141	NYD037053485	1.25	2834	B114	A57	1
D009	M141	NJD980755367	0.65	3341	B114	A94	1
D009	M141	NYD000809335	0.021	3861	B114	A59	1
D009	M141	NJD018469346	0.005	8731	B114	A59	1
D009	M041	NM0890010515	0.308	9711	B114	A94	1
D009	M141	PAD014249635	0.456	2899	B114	A58	1
D009	M141	VAD988186110	0.112	3731	B114	A58	1
D009	M141	VAD988186110	0.737	3731	B114	A94	1
D009	M141	WID000713016	0.229	4911	B114	A59	1
D009	M129	UT0571724350	0	9711	B114	A19	1
D009	M141	VTD002065597	2.905	3692	B114	A93	2
D009	M141	MAD981062904	27.959	8731	B114	A75	3
D009	M121	UT0571724350	0.008	9711	B114	A58	3
D009	M141	NYP003601622	3.378	9511	B115	A62	2
D009	M141	MID006015960	0.005	2023	B117	A56	1
D009	M141	NJD003001757	0.002	2064	B117	A94	1
D009	M141	MOD006288799	0.5	2082	B117	A94	1
D009	M019	NJD152421061	0.042	2087	B117	A94	1
D009	M141	MDD980694012	0	2269	B117	A94	1
D009	M141	NJD981181191	0.225	2297	B117	A94	1
D009	M019	NHD001079896	0.007	2611	B117	A56	1
D009	M141	MED980671796	0.014	2611	B117	A99	1
D009	M141	MED001095371	0.003	2621	B117	A53	1
D009	M141	MED001107051	0.091	2621	B117	A53	1
D009	M011	MED001095371	0.075	2621	B117	A56	1
D009	M019	MED086875887	0.04	2621	B117	A56	1
D009	M141	MED001095371	0.004	2621	B117	A56	1
D009	M019	NJD057143984	0.094	2621	B117	A93	1
D009	M141	MND006173025	0.786	2671	B117	A35	1
D009	M141	NJD000768051	0.005	2676	B117	A94	1
D009	M141	NJD011443637	0.005	2676	B117	A94	1
D009	M019	MND000686121	0.1	2819	B117	A99	1
D009	M012	NYD066832023	0.047	2821	B117	A56	1
D009	M141	NJD980593404	0.005	2821	B117	A59	1
D009	M019	NJD986637353	0.01	2821	B117	A94	1
D009	M141	NJD002444719	0.067	2821	B117	A94	1
D009	M012	NJD001316173	0.037	2833	B117	A94	1
D009	M141	NJD001316173	1.142	2833	B117	A94	1
D009	M141	NJD002361947	0.04	2834	B117	A57	1
D009	M141	NJD000818567	0.022	2834	B117	A58	1
D009	M141	NYD013238480	0.4	2834	B117	A59	1
D009	M141	NJD001865534	0.007	2834	B117	A72	1
D009	M019	NJD044688935	0.008	2834	B117	A94	1
D009	M019	NYD986936904	0.012	2834	B117	A94	1
D009	M039	NJD001220359	0.025	2834	B117	A94	1
D009	M041	NJD981130172	0.005	2834	B117	A94	1

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D009	M049	NYD986936904	0.01	2834	B117	A94	1
D009	M099	NCD982117384	1.116	2834	B117	A94	1
D009	M125	MID005380126	0.03	2834	B117	A94	1
D009	M141	NJD011550092	0.007	2834	B117	A94	1
D009	M141	MDD982579518	0.005	2835	B117	A58	1
D009	M012	NYD050275627	0.035	2835	B117	A94	1
D009	M141	NJD000729798	0.015	2844	B117	A53	1
D009	M019	MDD003082997	0.002	2844	B117	A57	1
D009	M011	MID007138746	0.005	2851	B117	A94	1
D009	M141	NCD986194272	0.025	2851	B117	A94	1
D009	M012	LAD041581422	0.002	2869	B117	A51	1
D009	M012	LAD981052376	0.175	2869	B117	A56	1
D009	M019	NJD053101085	0.011	2869	B117	A56	1
D009	M141	NJD053101085	0.005	2869	B117	A56	1
D009	M141	LAD056022387	0.1	2873	B117	A59	1
D009	M141	NJD002349009	0.46	2879	B117	A99	1
D009	M012	MOD043937895	0.188	2891	B117	A59	1
D009	M039	MID056717747	0.021	2899	B117	A94	1
D009	M049	LAD008186579	0.035	2911	B117	A19	1
D009	M141	NJD075481598	0.134	2911	B117	A58	1
D009	M012	LAD008080350	0.035	2911	B117	A99	1
D009	M014	MND000686071	0.75	2911	B117	A99	1
D009	M141	MND000685628	0.015	3089	B117	A94	1
D009	M012	NJD002385615	0.02	3221	B117	A56	1
D009	M141	NCD980559983	0.005	3229	B117	A94	1
D009	M011	MID005357934	0.061	3231	B117	A57	1
D009	M141	MDD990759375	0.005	3334	B117	A99	1
D009	M019	NCD003170784	0.215	3412	B117	A56	1
D009	M012	MID005379797	0.3	3465	B117	A58	1
D009	M019	MID005356944	1.9	3465	B117	A58	1
D009	M125	MID001876663	0.8	3465	B117	A99	1
D009	M012	NYD002207744	0.254	3471	B117	A53	1
D009	M012	LAD071940233	0.005	3491	B117	A56	1
D009	M141	NHD039103916	0.003	3559	B117	A09	1
D009	M141	MAD981215411	0.013	3569	B117	A94	1
D009	M019	NYD986874501	0.185	3571	B117	A56	1
D009	M019	MND000823922	0.045	3571	B117	A57	1
D009	M041	MOD000474148	0	3621	B117	A59	1
D009	M011	NJD045133485	0.005	3643	B117	A59	1
D009	M019	LAD067033944	0.037	3647	B117	A99	1
D009	M141	NJD058112947	0.005	3662	B117	A56	1
D009	M141	NJD058112947	2.257	3662	B117	A58	1
D009	M019	ME5170024355	0.03	3669	B117	A53	1
D009	M012	NJD002342517	0.02	3669	B117	A58	1
D009	M011	NYD000707901	0.383	3674	B117	A56	1
D009	M141	ORD987196771	0.03	3674	B117	A56	1
D009	M141	NJD986647535	0.003	3674	B117	A58	1
D009	M141	MND006147268	0.063	3679	B117	A59	1
D009	M141	NCD000822957	0.06	3692	B117	A57	1
D009	M125	NYD986970770	0.005	3699	B117	A58	1
D009	M019	NYD986970770	0.01	3699	B117	A72	1
D009	M014	MOD085002319	0.229	3711	B117	A56	1
D009	M129	MID005379888	0.004	3714	B117	A53	1
D009	M012	MID005057005	0.07	3714	B117	A56	1
D009	M012	MID072784150	0.02	3714	B117	A56	1
D009	M012	NYD002126852	0.387	3714	B117	A56	1
D009	M019	MID005356811	0.05	3714	B117	A94	1
D009	M132	MID005357967	0.045	3714	B117	A99	1
D009	M141	NYD003995198	0.015	3721	B117	A59	1
D009	M041	MSD050648757	0.05	3731	B117	A94	1
D009	M041	MSD098590615	0.05	3731	B117	A94	1
D009	M141	MID006016596	0.007	3812	B117	A58	1
D009	M012	MOD092357821	0.713	3822	B117	A72	1
D009	M129	NM7572124454	0.002	3826	B117	A72	1
D009	M012	NYD002207751	0.019	3827	B117	A53	1
D009	M141	NCD986166098	1.1	3829	B117	A35	1
D009	M141	NYD000809327	0.034	3861	B117	A57	1
D009	M141	NYD000809335	0.002	3861	B117	A59	1
D009	M141	MDD063212377	2	3999	B117	A56	1
D009	M141	NCD003938586	0.005	3999	B117	A59	1
D009	M141	MA2570024487	0.15	4581	B117	A55	1
D009	M141	LA6170022788	0.001	4581	B117	A57	1
D009	M012	NYD991290800	3.5	4729	B117	A72	1

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D009	M141	NYD991290800	0.2	4729	B117	A72	1
D009	M019	NJD980769764	0.002	4785	B117	A59	1
D009	M019	NYD000730382	16.023	4911	B117	A56	1
D009	M019	NYD003909686	0.602	4911	B117	A56	1
D009	M019	NYD980782486	0.553	4911	B117	A56	1
D009	M141	MAD055179634	0.077	4911	B117	A56	1
D009	M141	NJD000768036	0.034	4911	B117	A57	1
D009	M019	NHD018919282	0.025	4911	B117	A59	1
D009	M012	NYD085503746	0.3	4911	B117	A94	1
D009	M141	MDD000619866	0.021	4911	B117	A94	1
D009	M132	MSD980557318	0.229	4922	B117	A56	1
D009	M011	NJD980533483	0.445	4923	B117	A99	1
D009	M011	NJD980533509	1.277	4923	B117	A99	1
D009	M011	NJD980533590	0.853	4923	B117	A99	1
D009	M011	NJD980533657	0.837	4923	B117	A99	1
D009	M012	NJD000574392	0.11	4925	B117	A56	1
D009	M012	NJD000768028	0.025	4925	B117	A56	1
D009	M012	NJD000574418	0.178	4931	B117	A56	1
D009	M012	NJD980533640	0.139	4931	B117	A56	1
D009	M019	NJD000768010	0.359	4931	B117	A56	1
D009	M137	NYD000705939	0.8	4931	B117	A56	1
D009	M137	NYD000706234	2.5	4931	B117	A56	1
D009	M137	NYD003917960	0.1	4931	B117	A56	1
D009	M137	NYD003939592	0.1	4931	B117	A56	1
D009	M137	NYD075431353	1.2	4931	B117	A56	1
D009	M137	NYD135811503	0.8	4931	B117	A56	1
D009	M137	NYD981495385	0.9	4931	B117	A56	1
D009	M137	NYD982177743	0.1	4931	B117	A56	1
D009	M137	NYD982535601	0.8	4931	B117	A56	1
D009	M137	NYD986872489	5.6	4931	B117	A56	1
D009	M141	NJD094961042	0.021	4931	B117	A58	1
D009	M141	NJD000768226	0.009	4931	B117	A94	1
D009	M141	MDD052340973	0.001	4952	B117	A94	1
D009	M141	MS2570024164	0.016	5122	B117	A58	1
D009	M141	NJT350011144	0.035	5171	B117	A53	1
D009	M012	MND083467688	0.383	8011	B117	A51	1
D009	M141	NHD986472439	0.048	8062	B117	A58	1
D009	M141	NJD067520759	0.035	8062	B117	A58	1
D009	M141	NYD981138688	0.01	8062	B117	A72	1
D009	M012	NYD060318250	0.1	8062	B117	A94	1
D009	M049	NYD040464315	0.018	8062	B117	A94	1
D009	M141	NYD108156977	0.125	8062	B117	A94	1
D009	M141	MAD076580745	0.065	8069	B117	A94	1
D009	M141	NYD152641270	0.003	8071	B117	A53	1
D009	M049	MD4972611111	0.045	8099	B117	A94	1
D009	M141	NJD986648707	0.02	8211	B117	A58	1
D009	M112	NJD100900489	3.119	8211	B117	A99	1
D009	M141	NYD981566607	0.06	8221	B117	A09	1
D009	M125	MID980682827	0.05	8221	B117	A57	1
D009	M012	MIT270010598	0.24	8221	B117	A58	1
D009	M141	LAD980866958	0.019	8221	B117	A58	1
D009	M119	MD4170024687	0.05	8221	B117	A59	1
D009	M014	MIT270010598	0.313	8221	B117	A94	1
D009	M141	NCD000830737	0.465	8221	B117	A94	1
D009	M141	NYD040464315	0.008	8221	B117	A94	1
D009	M012	NYD091894899	0.2	8731	B117	A56	1
D009	M014	NJD078247079	1.27	8731	B117	A59	1
D009	M141	NJD000765081	0.002	8731	B117	A94	1
D009	M141	NJD006980924	0.06	8731	B117	A94	1
D009	M141	NJD011328887	0.03	8731	B117	A94	1
D009	M141	NJD986584688	0.007	8731	B117	A94	1
D009	M141	NJ0000074278	0.001	8731	B117	A94	1
D009	M012	MID985617588	0.006	8731	B117	A99	1
D009	M019	MD6170024685	0	8733	B117	A53	1
D009	M141	MD6170024685	0.011	8733	B117	A53	1
D009	M012	NJ1960011152	0.228	8733	B117	A59	1
D009	M141	MD5123510732	0.018	8733	B117	A71	1
D009	M039	NJD982532202	0.01	8733	B117	A94	1
D009	M043	NJD982532202	0.001	8733	B117	A94	1
D009	M141	MND048160964	0.012	8733	B117	A94	1
D009	M141	MDD981105265	0.035	8734	B117	A58	1
D009	M012	NYD134319664	0.075	8734	B117	A94	1
D009	M141	MND000823914	0.012	8741	B117	A99	1

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D009	M019	MD4170024687	0.036	8744	B117	A58	1
D009	M141	NJ1680090015	0.01	9511	B117	A58	1
D009	M012	NM8800019434	0.102	9661	B117	A53	1
D009	M041	ND4571924758	0.002	9711	B117	A51	1
D009	M019	MO8571924549	0.012	9711	B117	A53	1
D009	M141	NC6170022580	0.015	9711	B117	A53	1
D009	M141	NC8210020121	0.073	9711	B117	A53	1
D009	M141	NV7570024110	0.006	9711	B117	A53	1
D009	M011	MO3213720979	0.162	9711	B117	A55	1
D009	M141	NV5570024112	0.045	9711	B117	A56	1
D009	M019	OK9571824045	0.009	9711	B117	A57	1
D009	M049	NV1890011991	0.007	9711	B117	A58	1
D009	M141	ME8170022018	0.02	9711	B117	A59	1
D009	M019	NM6572124422	0.008	9711	B117	A94	1
D009	M129	MID099113128	0.005	9711	B117	A94	1
D009	M141	NE8571924648	0.013	9711	B117	A94	1
D009	M141	MO8571924549	0.005	9711	B117	A99	1
D009	M137	OK4213720846	0.002	9999	B117	A53	1
D009	M141	MI0571924760	0.001	9999	B117	A53	1
D009	M141	NJD000811034	0.06	9999	B117	A57	1
D009	M141	MI0571924760	0.002	9999	B117	A58	1
D009	M019	TXD006496251	1.31	2082	B117	A59	1
D009	M141	WID046538666	0.048	2621	B117	A56	1
D009	M141	PAD000766170	0.064	2672	B117	A99	1
D009	M019	TXD073920399	0.09	2819	B117	A94	1
D009	M012	PAD002334753	0.008	2821	B117	A56	1
D009	M012	TXD058276130	0.07	2821	B117	A99	1
D009	M141	VAD005007679	0.017	2823	B117	A94	1
D009	M141	PAD014360390	0.01	2834	B117	A53	1
D009	M012	PAD002387926	0.119	2834	B117	A56	1
D009	M141	PAD987280229	0.018	2834	B117	A59	1
D009	M021	PRD980767974	0	2834	B117	A94	1
D009	M041	WID007947898	0.475	2851	B117	A09	1
D009	M019	PAD000824730	0.007	2869	B117	A94	1
D009	M141	TXD987987914	0.03	2869	B117	A94	1
D009	M012	PAD002348324	0.12	2899	B117	A94	1
D009	M012	UTD092029768	0.05	2911	B117	A94	1
D009	M019	PAD098439037	0.055	3231	B117	A58	1
D009	M029	PAD000651752	0.475	3312	B117	A53	1
D009	M019	UTD982590622	0.01	3355	B117	A56	1
D009	M141	PAD000000554	0.005	3452	B117	A56	1
D009	M019	PAD000800490	0.966	3465	B117	A56	1
D009	M141	PAD003026655	0.002	3548	B117	A58	1
D009	M011	PAD003022191	0.003	3585	B117	A58	1
D009	M125	PAD004339297	0.035	3612	B117	A56	1
D009	M141	VAD000019364	0.1	3621	B117	A58	1
D009	M141	PA5213820892	0.023	3621	B117	A59	1
D009	M012	WID006112254	0.002	3632	B117	A56	1
D009	M014	VA2170024606	0.059	3648	B117	A72	1
D009	M141	PAD981947294	0.005	3671	B117	A56	1
D009	M141	VAD066000993	0.025	3672	B117	A59	1
D009	M999	WID988573556	0.063	3672	B117	A89	1
D009	M011	PAD002389252	0.017	3674	B117	A56	1
D009	M141	PAD002389252	0.072	3674	B117	A56	1
D009	M011	PAD021047584	0.005	3674	B117	A58	1
D009	M141	TXD982284382	0.03	3674	B117	A59	1
D009	M019	PAD002327708	0.112	3674	B117	A99	1
D009	M012	PAD043882323	0.025	3675	B117	A59	1
D009	M012	PAD000796334	0.003	3678	B117	A94	1
D009	M019	WID006126999	0.011	3713	B117	A53	1
D009	M012	VAD001307495	0.655	3731	B117	A56	1
D009	M141	VA1170024813	0.845	3731	B117	A94	1
D009	M012	PAD001307792	0.2	3996	B117	A56	1
D009	M141	PA3170022104	1.605	4225	B117	A57	1
D009	M019	PAD080719289	0	4512	B117	A99	1
D009	M039	TX3571924643	0.01	4581	B117	A57	1
D009	M041	TX8571524091	0.01	4581	B117	A59	1
D009	M043	TX8571524091	0.01	4581	B117	A59	1
D009	M132	TX8571524091	0.01	4581	B117	A59	1
D009	M141	PAD987393196	0.007	4911	B117	A56	1
D009	M012	PAD000620963	0.012	4911	B117	A57	1
D009	M012	PAD086204245	0.009	4911	B117	A57	1
D009	M012	PAD098209703	0.012	4911	B117	A57	1

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D009	M012	RID063890214	2.044	5093	B117	A08	1
D009	M042	RID063890214	0.123	5093	B117	A08	1
D009	M014	TX8800016125	0.19	7384	B117	A59	1
D009	M141	TT9570090002	0.004	7629	B117	A59	1
D009	M141	PAD106384993	0.048	8062	B117	A94	1
D009	M141	TXD000821264	0.03	8062	B117	A94	1
D009	M141	TX0571924042	0.05	8062	B117	A94	1
D009	M012	VAD000820712	0.2	8221	B117	A94	1
D009	M141	PA8890031869	0.528	8733	B117	A99	1
D009	M141	PAD981743842	0.005	8734	B117	A94	1
D009	M017	RI8170024790	0.034	9199	B117	A56	1
D009	M125	PAD114942832	0.038	9711	B117	A53	1
D009	M132	VA1170024722	0.002	9711	B117	A53	1
D009	M141	TX2571724333	0.16	9711	B117	A56	1
D009	M019	UT9210020922	0.059	9711	B117	A58	1
D009	M129	VA3971520751	0.09	9711	B117	A58	1
D009	M141	RI1170024243	0.004	9711	B117	A58	1
D009	M141	UT3213820894	0.037	9711	B117	A58	1
D009	M141	VA6170061463	1.233	9711	B117	A59	1
D009	M141	VA6170061463	0.022	9711	B117	A94	1
D009	M141	VA8170024170	0.178	9711	B117	A94	1
D009	M141	VA8213720321	1.017	9711	B117	A94	1
D009	M019	VA7213720082	0.049	9999	B117	A94	1
D009	M141	NCD039137823	0.001	2111	B117	A59	2
D009	M012	MID006016547	0.18	2522	B117	A56	2
D009	M012	MED060996204	0.001	2611	B117	A53	2
D009	M141	MED985731272	0.006	2621	B117	A58	2
D009	M019	MOD007161565	0.041	2656	B117	A56	2
D009	M019	NJD002202869	0.02	2821	B117	A56	2
D009	M132	NJD980783849	0.05	2821	B117	A69	2
D009	M019	MID006013643	0.045	2834	B117	A59	2
D009	M019	MOD985819556	0.01	2843	B117	A69	2
D009	M141	NYD002225100	0.03	3561	B117	A59	2
D009	M129	MDP000007684	0.001	4424	B117	A59	2
D009	M141	NCD000856591	0.275	4911	B117	A53	2
D009	M111	NHD000791491	0.005	4911	B117	A56	2
D009	M141	MDD000619395	1	4931	B117	A53	2
D009	M141	MDD980554711	0.075	4931	B117	A53	2
D009	M141	MDD980555486	0.05	4931	B117	A53	2
D009	M012	NYD006866008	110.762	4931	B117	A59	2
D009	M141	NYD980648133	3.438	4931	B117	A59	2
D009	M141	NYD980648158	2.326	4931	B117	A59	2
D009	M141	NYD980648166	0.602	4931	B117	A59	2
D009	M141	NYD980648182	0.817	4931	B117	A59	2
D009	M141	NYD980648190	0.662	4931	B117	A59	2
D009	M141	NYD980648208	5.027	4931	B117	A59	2
D009	M141	NYD980648216	5.816	4931	B117	A59	2
D009	M141	NYD986889400	1.35	4931	B117	A59	2
D009	M024	MDD980554653	5.9	4953	B117	A71	2
D009	M121	MDD980554653	0.018	4953	B117	A71	2
D009	M012	NYD049224447	0.022	5169	B117	A53	2
D009	M019	NJD079320495	0.02	6512	B117	A69	2
D009	M141	NJD067520163	0.02	8062	B117	A53	2
D009	M019	NYD020672820	0.003	8062	B117	A72	2
D009	M039	NJD070275870	0.017	8069	B117	A93	2
D009	M132	MIT270010598	5	8221	B117	A53	2
D009	M141	MED060996451	0.02	8221	B117	A94	2
D009	M012	MND071491708	0.05	8731	B117	A94	2
D009	M019	MID000809756	0.089	8744	B117	A58	2
D009	M141	NJD991291584	0.01	8999	B117	A58	2
D009	M019	MND000773341	0.003	9711	B117	A53	2
D009	M014	TXD010797389	0.02	2869	B117	A53	2
D009	M012	TXD050309012	0.03	2869	B117	A56	2
D009	M019	VAD003132438	0.017	3577	B117	A56	2
D009	M141	PA5213820892	0.055	3824	B117	A53	2
D009	M014	PRD000768283	0.015	3841	B117	A94	2
D009	M141	PRD000768283	0.015	3841	B117	A94	2
D009	M012	PAD987313038	4.85	4924	B117	A56	2
D009	M012	PAD160960605	0.9	6519	B117	A69	2
D009	M141	PAD160960605	0.325	6519	B117	A69	2
D009	M141	PAD068570936	0.005	8221	B117	A56	2
D009	M141	WID980905954	0.002	9512	B117	A59	2
D009	M141	UT5210090002	0	9711	B117	A53	2

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D009	M089	MDD982678179	0.057	8211	B118	A94	1
D009	M077	NYD002123461	30	2819	B119	A99	1
D009	M041	MOD007134091	0.229	2834	B119	A09	1
D009	M041	MOD007134091	2.106	2834	B119	A57	1
D009	M077	MID005380126	1.655	2834	B119	A57	1
D009	M141	MAD000844126	1.2	2835	B119	A57	1
D009	M041	OKD080578982	0.44	3499	B119	A02	1
D009	M141	MAD062172929	0.005	3648	B119	A99	1
D009	M014	ORD060591963	0.05	3674	B119	A99	1
D009	M111	MSD050648757	0.23	3731	B119	A94	1
D009	M141	MAD000844118	0.37	3845	B119	A04	1
D009	M111	MID985568021	0.704	4789	B119	A99	1
D009	M041	NYD002207751	0.301	8734	B119	A58	1
D009	M141	NY0214020281	1.401	9711	B119	A21	1
D009	M012	NJ0170022172	0.805	9711	B119	A49	1
D009	M141	MS7570024060	0.002	9711	B119	A51	1
D009	M039	NJ7170023744	0.07	9711	B119	A53	1
D009	M125	NM9570024423	0.669	9711	B119	A53	1
D009	M132	NM9570024423	0.907	9711	B119	A53	1
D009	M141	MED985467935	0.083	9999	B119	A94	1
D009	M041	PAD002390961	12.55	2819	B119	A72	1
D009	M099	PAD014360390	93.88	2834	B119	A19	1
D009	M041	PAD002387926	37.66	2834	B119	A49	1
D009	M041	TXD008018525	4.88	2834	B119	A57	1
D009	M043	TXD008018525	0.04	2834	B119	A57	1
D009	M041	PAD003008943	6.208	2834	B119	A58	1
D009	M999	WAD980835680	0.007	3339	B119		1
D009	M079	WID006092555	0.229	3714	B119	A59	1
D009	M141	WID030202956	0.44	5171	B119	A79	1
D009	M141	WID981101165	0.294	8221	B119	A59	1
D009	M999	WAD004492575	0.32	8731	B119		1
D009	M141	PAD069777290	0.005	8731	B119	A94	1
D009	M999	WA5170027291	0.002	9711	B119		1
D009	M141	VA6170061463	10.25	9711	B119	A09	1
D009	M111	UT9210020922	2.317	9711	B119	A58	1
D009	M079	MAD043409879	0.363	3861	B119	A69	2
D009	M141	NYD000631994	0.707	8221	B119	A64	2
D009	M999	WAD988511903	114.13	1041	B119		2
D009	M999	WAD980639686	0.005	1611	B119		2
D009	M999	WAD048440424	0	3679	B119		2
D009	M999	WAD988467650	0.02	4911	B119		2
D009	M999	WA2690308919	0	9199	B119		2
D009	M132	VA4570024477	0.197	9199	B119	A53	2
D009	M041	MAD030826143	5.65	2834	B203	A31	1
D009	M012	MOD006266803	0.855	8733	B204	A94	1
D009	M129	LA0214022725	0.066	9711	B204	A99	1
D009	M141	NJD986634442	0.156	4924	B205	A99	2
D009	M041	LAD003913449	0.2	2869	B206	A54	1
D009	M049	NJD002195303	0.005	3399	B206	A57	1
D009	M041	NYD002084135	0.196	3511	B206	A56	1
D009	M141	NCD000648402	2.6	3692	B206	A54	1
D009	M141	MAD001863943	0.417	3812	B206	A99	1
D009	M141	MAD000846451	0.021	3861	B206	A94	1
D009	M141	PAD002395325	0.2	3671	B206	A54	1
D009	M061	TXD061555611	0.77	3674	B206	A54	1
D009	M041	VAD000820712	0.225	8221	B206	A94	1
D009	M059	NHD980521843	0.05	4953	B206	A94	3
D009	M042	NJD980775944	0.6	2834	B207	A59	1
D009	M141	MAD982543910	0.229	2835	B207	A57	1
D009	M111	MID076380658	0.688	8734	B207	A57	1
D009	M141	TXD049046527	29.89	8062	B207	A94	1
D009	M141	RI1170024243	0.006	9711	B207	A94	1
D009	M041	MID050615996	0.021	3711	B209	A58	1
D009	M041	NYD980537112	0.112	3861	B209	A58	1
D009	M111	OR1570024264	0.019	9711	B209	A21	1
D009	M051	MT8571924556	0.006	9711	B209	A58	1
D009	M014	PRD090070459	0.04	3629	B209	A57	1
D009	M141	UT3213820894	0.066	9711	B209	A58	1
D009	M119	MID067352989	8.854	2821	B210	A58	1
D009	M141	NCD097607352	1.8	3842	B210	A57	1
D009	M049	ND3571924759	0.003	4522	B210	A58	1
D009	M141	VA6170061463	0.006	9711	B210	A58	1
D009	M061	PAD002320737	1.909	2992	B211	A58	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D009	M141	RID001463090	0.104	3812	B212	A57	1
D009	M041	NJD002361947	34.27	2834	B219	A57	1
D009	M141	NJD002361947	0.345	2834	B219	A57	1
D009	M129	NJD000543173	0.03	2834	B219	A58	1
D009	M041	NYD050275627	0.44	2835	B219	A94	1
D009	M141	MDD982579518	7	2835	B219	A94	1
D009	M041	NJD980775944	1.8	2844	B219	A57	1
D009	M011	NYD002123933	0.075	2869	B219	A99	1
D009	M141	NCD089906614	0.007	2899	B219	A58	1
D009	M141	NV9170022173	0.001	9711	B219	A53	1
D009	M011	MO3213720979	0.021	9711	B219	A58	1
D009	M041	PAD002387926	11.811	2834	B219	A49	1
D009	M043	PAD004316832	2	3449	B219	A89	1
D009	M141	PAD002316305	0.573	3769	B219	A99	1
D009	M141	NCD048469993	0.075	2843	B219	A58	2
D009	M999	WA8570024200	0.018	4581	B219		2
D009	M041	NYD002207751	0.002	3827	B219	A99	3
D009	M141	TX3571924643	0.83	4789	B296	A59	1
D009	M132	NJD986581841	0.822	4922	B301	A69	1
D009	M132	NJD986581866	0.822	4922	B301	A69	1
D009	M132	NJD986581999	10.788	4922	B301	A69	1
D009	M132	NJD986582021	5.438	4922	B301	A69	1
D009	M132	NJD986582096	2.718	4922	B301	A69	1
D009	M132	NJD079324315	108	8221	B301	A65	1
D009	M129	VAD077797793	0.35	4924	B301	A53	1
D009	M132	NYD980646582	12.985	4922	B301	A69	2
D009	M141	NYD055865125	0.325	3262	B302	A92	1
D009	M019	NYD981078330	0.626	4911	B302	A53	1
D009	M141	NYD980788483	0.3	4911	B302	A53	1
D009	M141	NYD980788665	0.201	4911	B302	A53	1
D009	M141	NJ1680090015	0.005	9511	B302	A94	1
D009	M141	NC1170027261	0.01	9711	B302	A53	1
D009	M111	WVD088911854	0.419	2821	B302	A53	1
D009	M141	VA1170024813	0.009	3731	B302	A53	1
D009	M141	VA5170022482	0.05	9711	B302	A53	1
D009	M129	NJD002202869	0.242	2821	B302	A59	2
D009	M132	NJD001605559	1,613.64	2869	B302	A69	2
D009	M132	MED001097203	2.546	3356	B302	A69	2
D009	M132	MAD066609520	8.51	3641	B302	A69	2
D009	M132	NMT360010227	10.33	4922	B302	A56	2
D009	M111	OKP410138353	15.4	4922	B302	A69	2
D009	M132	LAD981911605	3.496	4922	B302	A69	2
D009	M132	LAD985190685	29.665	4922	B302	A69	2
D009	M132	LAD985199843	1.998	4922	B302	A69	2
D009	M132	LAD985203181	0.06	4922	B302	A69	2
D009	M132	LAD985225606	4.994	4922	B302	A69	2
D009	M132	LAP230069798	2.59	4922	B302	A69	2
D009	M132	LAP230069809	1.79	4922	B302	A69	2
D009	M132	LAP230069811	6.46	4922	B302	A69	2
D009	M132	LAP230069923	1.56	4922	B302	A69	2
D009	M132	LAP230070658	3	4922	B302	A69	2
D009	M132	LAP230070667	11	4922	B302	A69	2
D009	M132	LAP230070675	3	4922	B302	A69	2
D009	M132	LAP230070823	7	4922	B302	A69	2
D009	M132	LAP230070835	3	4922	B302	A69	2
D009	M132	LAP230070847	10	4922	B302	A69	2
D009	M132	LAT230069886	3.995	4922	B302	A69	2
D009	M132	MID985657956	1.6	4922	B302	A69	2
D009	M132	MID985657972	1.6	4922	B302	A69	2
D009	M132	MID985658012	2	4922	B302	A69	2
D009	M132	MID985658020	2.8	4922	B302	A69	2
D009	M132	MID985658038	2.4	4922	B302	A69	2
D009	M132	MID985658046	3.6	4922	B302	A69	2
D009	M132	MID985658053	2.4	4922	B302	A69	2
D009	M132	MID985658061	2	4922	B302	A69	2
D009	M132	MID985658079	2.8	4922	B302	A69	2
D009	M132	MID985658152	2.4	4922	B302	A69	2
D009	M132	MID985658160	2.4	4922	B302	A69	2
D009	M132	MID985658178	2	4922	B302	A69	2
D009	M132	MID985658194	1.6	4922	B302	A69	2
D009	M132	MID985658202	2	4922	B302	A69	2
D009	M132	MID985658228	4.8	4922	B302	A69	2
D009	M132	MID985658236	2.8	4922	B302	A69	2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D009	M132	MOD115895385	3.6	4922	B302	A69	2
D009	M132	MOD985819804	1.6	4922	B302	A69	2
D009	M132	MOD985819846	3.2	4922	B302	A69	2
D009	M132	MOD985819911	2.4	4922	B302	A69	2
D009	M132	MOD985820083	3.2	4922	B302	A69	2
D009	M132	MOD985820133	3.992	4922	B302	A69	2
D009	M132	MSD985967330	3.451	4922	B302	A69	2
D009	M132	NMD986682862	2,615.83	4922	B302	A69	2
D009	M132	OKP410138225	5	4922	B302	A69	2
D009	M132	OKP410138237	2	4922	B302	A69	2
D009	M141	MAD980731095	0.3	4922	B302	A69	2
D009	M141	MAT173292750	4.989	4922	B302	A69	2
D009	M111	NCT000002291	17.04	4923	B302	A53	2
D009	M119	MDP000007884	1.25	9511	B302	A69	2
D009	M019	NM6572124422	0.007	9711	B302	A53	2
D009	M019	NY7890008975	240.625	9999	B302	A69	2
D009	M141	VAD980714281	0.012	2211	B302	A53	2
D009	M141	PAD000805028	0.3	3312	B302	A53	2
D009	M141	PAD987279049	0.05	4922	B302	A53	2
D009	M141	MS6210809871	0.003	9199	B302	A94	3
D009	M141	NJD980773113	0.162	2834	B307	A56	1
D009	M119	MID005363114	0.25	2869	B307	A58	1
D009	M013	NY7213820940	0.002	3489	B307	A94	1
D009	M019	NJD002345247	2.1	3497	B307	A56	1
D009	M141	NCD980845044	0.05	3674	B307	A56	1
D009	M141	NYD075796037	0.2	3679	B307	A56	1
D009	M111	NYD002026565	0.3	3711	B307	A56	1
D009	M019	MI5570024278	0.002	3728	B307	A01	1
D009	M019	NJD002342434	0.008	3812	B307	A59	1
D009	M012	NJD981076011	5.9	4111	B307	A56	1
D009	M141	NCD108706029	0.275	4911	B307	A59	1
D009	M132	MAD019146802	0.408	4922	B307	A56	1
D009	M019	NJD981083025	30	4925	B307	A08	1
D009	M012	NVD981963549	0.007	8221	B307	A94	1
D009	M141	NYD001307735	0.08	8731	B307	A94	1
D009	M111	TXD056263528	15.13	2812	B307	A56	1
D009	M132	TXD056263528	38.59	2812	B307	A56	1
D009	M141	VAD005007679	0.2	2823	B307	A53	1
D009	M132	NVD000626531	3.63	1041	B307	A56	2
D009	M141	NCD095459392	0.005	2892	B307	A53	2
D009	M141	VA6170061463	0.3	9711	B307	A53	2
D009	M141	VA6170061463	0.026	9711	B307	A56	2
D009	M019	NJD059014589	0.752	8731	B307	A99	3
D009	M132	WID006430623	0.5	2821	B307	A82	3
D009	M043	ORD041265372	0.052	3861	B308	A29	1
D009	M012	VTD002065597	1.361	3692	B308	A49	1
D009	M141	VTD002065597	0.435	3692	B308	A49	1
D009	M141	NYD002226900	0.251	2066	B309	A55	1
D009	M141	MND000686071	1.3	2911	B309	A55	1
D009	M043	MND079731519	1.215	3571	B309	A55	1
D009	M043	NYD980653877	0.002	3571	B309	A55	1
D009	M141	NYD980653877	0.031	3571	B309	A55	1
D009	M011	NCD982094278	0.207	3571	B309	A57	1
D009	M141	MD3170024720	0.002	3679	B309	A55	1
D009	MDK	NJD054060884	0.008	3692	B309	A57	1
D009	M141	MND006172902	1.324	3695	B309	A55	1
D009	M043	MS2570024164	0.025	3699	B309	A55	1
D009	M141	MS2570024164	0.053	3699	B309	A55	1
D009	M132	NH8572824847	0.175	3728	B309	A55	1
D009	M141	NJD002140358	0.055	3728	B309	A55	1
D009	M141	NJD002342434	0.057	3812	B309	A55	1
D009	M141	NYD000809327	0.895	3861	B309	A55	1
D009	M141	NYD980784680	0.122	3861	B309	A55	1
D009	M039	NVD986776607	1	4011	B309	A55	1
D009	M132	NVD986776607	1	4011	B309	A55	1
D009	M141	NVD986776607	1	4011	B309	A55	1
D009	M012	NJD981076011	0.2	4111	B309	A55	1
D009	M012	NJD981487259	11.4	4111	B309	A55	1
D009	M043	MI5570024278	0.448	4581	B309	A55	1
D009	M132	LA6170022788	0.449	4581	B309	A55	1
D009	M132	MOD000687392	0.006	4911	B309	A55	1
D009	M141	NCD000856591	0.035	4911	B309	A55	1
D009	M141	MDD980832067	0.045	4931	B309	A55	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D009	M141	NJD986629004	0.037	4939	B309	A55	1
D009	M012	MID981798820	0.043	7538	B309	A55	1
D009	M132	MND083467688	5.525	8011	B309	A55	1
D009	M132	MND071363246	2.337	8062	B309	A55	1
D009	M141	NHD986472439	0.927	8062	B309	A55	1
D009	M012	NJ1960011152	0.037	8733	B309	A55	1
D009	M043	MS2170022626	0.031	9199	B309	A55	1
D009	M129	NY0213820830	0.003	9199	B309	A55	1
D009	M141	NHD986469609	0.009	9199	B309	A55	1
D009	M141	OK4571524095	0.042	9199	B309	A58	1
D009	M141	NCD981856396	0.014	9229	B309	A55	1
D009	M125	MA8690330719	0.075	9621	B309	A55	1
D009	M012	MA7210025154	0.069	9711	B309	A55	1
D009	M012	MO3213720979	0.004	9711	B309	A55	1
D009	M012	OR1570024264	0.077	9711	B309	A55	1
D009	M013	NM6572124422	0.165	9711	B309	A55	1
D009	M014	ME9570024522	0.089	9711	B309	A55	1
D009	M019	MO8571924549	0.012	9711	B309	A55	1
D009	M019	NV3890090001	0.906	9711	B309	A55	1
D009	M019	NY4571924451	0.05	9711	B309	A55	1
D009	M043	OK9571824045	0.261	9711	B309	A55	1
D009	M061	MO8571924549	0.015	9711	B309	A55	1
D009	M061	ORD980987648	0.014	9711	B309	A55	1
D009	M129	LA0214022725	0.105	9711	B309	A55	1
D009	M129	NY0214020281	0.111	9711	B309	A55	1
D009	M129	NY4571924774	0.017	9711	B309	A55	1
D009	M132	MSD981749401	0.046	9711	B309	A55	1
D009	M141	MAD981071707	0.262	9711	B309	A55	1
D009	M141	ME7170022019	0.082	9711	B309	A55	1
D009	M141	MO8571924549	0.026	9711	B309	A55	1
D009	M141	NC1170027261	0.19	9711	B309	A55	1
D009	M141	NC6570024475	0.168	9711	B309	A55	1
D009	M141	NC8210020121	0.473	9711	B309	A55	1
D009	M141	NE8571924648	0.14	9711	B309	A55	1
D009	M141	NM6572124422	0.03	9711	B309	A55	1
D009	M141	NV7570024110	0.715	9711	B309	A55	1
D009	M141	NV9170022173	0.001	9711	B309	A55	1
D009	M141	NYD981557770	0.2	9711	B309	A55	1
D009	M141	NY4571924451	0.009	9711	B309	A55	1
D009	M141	NY4571924774	0.025	9711	B309	A55	1
D009	M141	NV9170022173	0.009	9711	B309	A57	1
D009	M132	NJ0170022172	0.031	9711	B309	A58	1
D009	M132	NV1210090006	16.787	9711	B309	A58	1
D009	M141	NC8170022570	1.302	9711	B309	A58	1
D009	M043	OK4213720846	0.023	9999	B309	A55	1
D009	M132	MI0571924760	0.039	9999	B309	A55	1
D009	M141	MI0571924760	0.049	9999	B309	A55	1
D009	M141	MI0571924760	0.002	9999	B309	A58	1
D009	M141	VAD081762536	0.02	2111	B309	A55	1
D009	M141	PAD058445313	0.2	3671	B309	A56	1
D009	M132	PAD021047584	0.1	3674	B309	A58	1
D009	M021	VTD002065597	8.835	3692	B309	A09	1
D009	M012	VTD002065597	2.337	3692	B309	A49	1
D009	M141	VTD002065597	1.2	3692	B309	A49	1
D009	M012	VTD002065597	4.261	3692	B309	A57	1
D009	M012	WIT560010282	0.724	3692	B309	A57	1
D009	M012	VTD002065597	1.752	3692	B309	A92	1
D009	M141	WID006427215	0	3694	B309	A55	1
D009	M132	TX0571924042	0.01	3721	B309	A55	1
D009	M141	VAD988186110	0.164	3731	B309	A55	1
D009	M132	PAD003025418	0.3	3795	B309	A55	1
D009	M141	PAD987267473	0.045	3841	B309	A99	1
D009	M043	TX3571924643	0.14	4581	B309	A55	1
D009	M129	TX3571924643	0.23	4581	B309	A55	1
D009	M011	VA9170022488	0.003	4812	B309	A58	1
D009	M061	TX2571524105	0.01	9711	B309	A53	1
D009	M132	TX2571524105	0.12	9711	B309	A53	1
D009	M012	VA1170024722	0.144	9711	B309	A55	1
D009	M043	PA2571225349	0.177	9711	B309	A55	1
D009	M119	UT3213820894	0.013	9711	B309	A55	1
D009	M129	PR2170027203	0.045	9711	B309	A55	1
D009	M129	RI6170022036	0.028	9711	B309	A55	1
D009	M129	SD2571924644	0.25	9711	B309	A55	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D009	M141	TX2571724333	0.99	9711	B309	A55	1
D009	M141	UT3213820894	0.076	9711	B309	A55	1
D009	M141	VA5170022482	0.125	9711	B309	A55	1
D009	M141	VA6170061463	0.864	9711	B309	A55	1
D009	M141	VA8170024170	1.394	9711	B309	A55	1
D009	M141	VT6572824294	0.02	9711	B309	A55	1
D009	M049	WI3210020563	0.031	9999	B309	A89	1
D009	M999	WI3210020563	0.05	9999	B309	A89	1
D009	M141	NYD980526875	0.44	2813	B310	A32	1
D009	M141	MAD000844597	0.031	2899	B310	A94	1
D009	M141	NJD980755367	1.2	3341	B310	A78	1
D009	M141	NCD000648402	2.974	3692	B310	A71	1
D009	M132	NYD073675514	11.53	3714	B310	A57	1
D009	M141	NYD980784680	0.02	3861	B310	A55	1
D009	M012	NJD981134836	3	4111	B310	A92	1
D009	M141	PAD987367216	4.922	2819	B310	A94	1
D009	M011	VAD009305137	0.1	2824	B310	A53	1
D009	M043	PAD990823858	0.071	3471	B310	A23	1
D009	M111	WVD082957317	1.9	3641	B310	A19	1
D009	M141	PAD058445313	0.075	3671	B310	A92	1
D009	M132	TX8571524091	0.01	4581	B310	A53	1
D009	M129	SD2571924644	0.032	9711	B310	A53	1
D009	M141	RI1170024243	0.015	9711	B310	A94	1
D009	M019	MOD043935048	0.009	4581	B310	A53	2
D009	M132	NJD982532434	0.2	9999	B311	A69	2
D009	M132	WVD004336343	16.3	2812	B314	A92	1
D009	M141	MS6210809871	0	9199	B314	A94	3
D009	M141	PA3170022104	0.001	4225	B315	A55	1
D009	M129	VA3971520751	0.081	9711	B315	A58	1
D009	M141	MS6210809871	0	9199	B315	A94	3
D009	M141	NJD001787944	0.005	2821	B316	A99	1
D009	M012	MIT270013709	0.025	2834	B316	A94	1
D009	M141	NJD096877725	0.15	2834	B316	A94	1
D009	M141	NJD047354881	0.07	2834	B316	A99	1
D009	M041	NJD068715424	9.142	2835	B316	A57	1
D009	M141	NJD068715424	3.45	2835	B316	A57	1
D009	M141	NJD068693167	0.325	2841	B316	A57	1
D009	M019	MID980896518	0.129	2851	B316	A94	1
D009	M111	NYD002123495	0.025	2869	B316	A53	1
D009	M111	MAD001439546	0.2	3511	B316	A99	1
D009	M141	NMD000609339	0.109	3674	B316	A59	1
D009	M019	NYD002100295	0.02	3827	B316	A58	1
D009	M141	NYD000809327	0.05	3861	B316	A58	1
D009	M125	ORD980981278	0.006	5169	B316	A58	1
D009	M043	MS2570024164	0.002	8011	B316	A53	1
D009	M141	MS2570024164	0.002	8011	B316	A53	1
D009	M111	MIT270010598	0.347	8221	B316	A94	1
D009	M141	MD9210020567	0.056	9199	B316	A57	1
D009	M049	MD9210020567	0.001	9199	B316	A58	1
D009	M141	MD9210020567	0.125	9199	B316	A58	1
D009	M141	NC2750890004	0.05	9199	B316	A94	1
D009	M129	NJ4690308933	0.001	9621	B316	A58	1
D009	M043	NM8800019434	0.101	9661	B316	A56	1
D009	M012	NM0890010515	0.05	9711	B316	A94	1
D009	M043	NM0890010515	6.308	9711	B316	A94	1
D009	M014	ORD081182180	0.115	9999	B316	A59	1
D009	M141	PAD014360390	0.067	2834	B316	A53	1
D009	M041	TXD980625966	0.23	2869	B316	A99	1
D009	M019	WID006121347	0.427	3639	B316	A56	1
D009	M011	PAD021047584	0.002	3674	B316	A58	1
D009	M141	VAD003123072	0.037	3674	B316	A59	1
D009	M141	TXD988024204	1.44	3823	B316	A49	1
D009	M132	RID001191055	1.25	3961	B316	A99	1
D009	M129	VA3971520751	2.322	9711	B316	A58	1
D009	M141	VA8213720321	0	9711	B316	A58	1
D009	M141	VA6170061463	0	9711	B316	A94	1
D009	M014	MAD981214976	0.005	3851	B316	A90	2
D009	M141	MAD981214976	0.005	3851	B316	A90	2
D009	M019	NJD982532434	0.028	9999	B316	A69	2
D009	M141	WID980905954	0	9512	B316	A59	2
D009	M109	NJ2571824018	0.796	NA	B319	A99	1
D009	M019	MND006449649	0.194	1011	B319	A59	1
D009	M039	NJD053299814	0.08	2037	B319	A99	1

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D009	M141	NYD000688606	0.123	2082	B319	A56	1
D009	M141	NJD002455418	1.007	2082	B319	A99	1
D009	M132	NCD003150562	1.06	2296	B319	A59	1
D009	M014	MND980995815	0.124	2431	B319	A59	1
D009	M014	MND006167332	1.525	2431	B319	A99	1
D009	M043	NHD001079896	0.017	2611	B319	A53	1
D009	M132	MED001095629	0.75	2621	B319	A59	1
D009	M019	MND006158943	1.702	2621	B319	A99	1
D009	M141	MND006172902	0.2	2672	B319	A59	1
D009	M141	NJD002520484	0.025	2672	B319	A99	1
D009	M039	NYD012854048	1.456	2673	B319	A59	1
D009	M019	MND981089790	3.432	2731	B319	A99	1
D009	M014	MND006228183	0.047	2752	B319	A56	1
D009	M014	MND006258115	0.5	2752	B319	A59	1
D009	M141	MND985677210	0.137	2752	B319	A99	1
D009	M132	LAD062666540	71.9	2812	B319	A49	1
D009	M111	NYD000824482	1.8	2812	B319	A92	1
D009	M132	LAD008086506	149.6	2812	B319	A99	1
D009	M141	MDD001710227	0.2	2819	B319	A94	1
D009	M012	NJD062026281	0.24	2821	B319	A59	1
D009	M012	NJD986647782	0.38	2821	B319	A99	1
D009	M043	LAD059130831	0.297	2822	B319	A99	1
D009	M119	LAD008182990	0.57	2822	B319	A99	1
D009	M019	NCD041043811	2	2824	B319	A59	1
D009	MDK	NJD064344575	0.01	2833	B319	A56	1
D009	M141	NJD002173276	0.938	2833	B319	A92	1
D009	M019	NYD054065909	4.655	2834	B319	A56	1
D009	M012	MIT270013709	7.166	2834	B319	A59	1
D009	M012	MID000820381	2.096	2834	B319	A94	1
D009	M011	NYD982176281	4.84	2834	B319	A99	1
D009	M141	NYD085503894	1.08	2835	B319	A57	1
D009	M141	NYD085503894	0.57	2835	B319	A58	1
D009	M141	NJD068715424	0.89	2835	B319	A99	1
D009	M141	NCD067181818	0.575	2836	B319	A92	1
D009	M141	NJD068693167	0.2	2841	B319	A69	1
D009	M141	NJD068693167	0.12	2841	B319	A89	1
D009	M141	NJD068693167	0.3	2841	B319	A92	1
D009	M014	MAD053483467	2.72	2844	B319	A99	1
D009	M019	MND023060569	1.16	2844	B319	A99	1
D009	M141	NJD000729798	0.75	2844	B319	A99	1
D009	M141	NYD001483494	0.85	2844	B319	A99	1
D009	M141	NJD000729798	0.015	2849	B319	A91	1
D009	M019	LAD010390599	0.015	2861	B319	A94	1
D009	M011	LAD053783445	0.1	2879	B319	A94	1
D009	M141	MAD001409150	0.005	2899	B319	A94	1
D009	M012	LAD056024391	0.1	2911	B319	A53	1
D009	M132	LAD056024391	0.19	2911	B319	A53	1
D009	M132	MSD054179403	0.16	2911	B319	A56	1
D009	M012	MTD010380574	0.034	2911	B319	A94	1
D009	M141	MDD089945950	0.174	3083	B319	A59	1
D009	M019	MID006016422	0.01	3221	B319	A58	1
D009	M019	MID005379607	0.318	3241	B319	A56	1
D009	M019	MND041775008	0.245	3312	B319	A99	1
D009	M132	NYD048148175	41.04	3341	B319	A89	1
D009	M141	NYD086225596	0.06	3341	B319	A99	1
D009	M012	LAD058959123	0.144	3354	B319	A99	1
D009	M019	NJD002152205	0.25	3357	B319	A58	1
D009	M141	NHD041463456	0.25	3357	B319	A59	1
D009	M019	MID000810390	0.63	3451	B319	A99	1
D009	M111	MID005356621	1.3	3471	B319	A59	1
D009	M039	MND985692490	0.123	3479	B319	A92	1
D009	M132	MO4213820489	0.456	3482	B319	A49	1
D009	M012	MND081138604	0.045	3483	B319	A59	1
D009	M014	MAD985294263	1.314	3489	B319	A59	1
D009	M014	MAD985294347	1.14	3489	B319	A59	1
D009	M019	MND000819268	1.881	3489	B319	A99	1
D009	M019	MN3170022914	2.972	3489	B319	A99	1
D009	M012	NYD002084135	0.282	3511	B319	A59	1
D009	M019	NYD002084135	9.113	3511	B319	A59	1
D009	M132	NYD002084135	6.265	3511	B319	A59	1
D009	M141	NYD002084135	3.613	3511	B319	A59	1
D009	M111	MED001104157	0.151	3531	B319	A57	1
D009	M141	NYD002123644	0.302	3563	B319	A58	1

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D009	M141	NHD001085158	0.175	3569	B319	A58	1
D009	M012	MND000823922	2.196	3571	B319	A57	1
D009	M141	NYD084006741	5.03	3571	B319	A57	1
D009	M012	NYD001359694	4.275	3571	B319	A58	1
D009	M011	MND006161756	0.103	3571	B319	A59	1
D009	M012	MND006161756	8.872	3571	B319	A59	1
D009	M011	NYD084006741	0.314	3571	B319	A94	1
D009	M011	NYD980653877	0.05	3571	B319	A94	1
D009	M019	MND079731519	9.591	3571	B319	A99	1
D009	M141	NCD041463761	3.557	3571	B319	A99	1
D009	M039	MAD980672042	3.91	3572	B319	A59	1
D009	M019	MND053417515	1.226	3621	B319	A92	1
D009	M132	MOD006270318	1.525	3621	B319	A99	1
D009	M132	NCD057037194	0.055	3625	B319	A92	1
D009	M141	MAD080031180	4.3	3641	B319	A09	1
D009	M111	NYD002209989	14.923	3641	B319	A57	1
D009	M141	NJD049860687	0.75	3641	B319	A57	1
D009	M111	NYD002209989	1.952	3641	B319	A92	1
D009	M141	NJD001643840	1.14	3663	B319	A99	1
D009	M012	NJD002342517	0.025	3669	B319	A58	1
D009	M141	NJD986598316	0.15	3669	B319	A58	1
D009	M141	MAD001923408	0.1	3669	B319	A99	1
D009	M141	MAD076590652	0.1	3672	B319	A29	1
D009	M141	NHD046312559	0.229	3672	B319	A29	1
D009	M019	MND000819292	0.006	3672	B319	A99	1
D009	M019	MND041786930	0.012	3672	B319	A99	1
D009	M019	MND058330473	0.037	3672	B319	A99	1
D009	M019	MND985667807	0.007	3672	B319	A99	1
D009	M141	ORD980725592	0.095	3672	B319	A99	1
D009	M132	MAD000649640	0.225	3674	B319	A56	1
D009	M141	NJD981137292	0.04	3674	B319	A56	1
D009	M132	ORD987166204	0.162	3674	B319	A99	1
D009	M133	NHD045513785	0.051	3674	B319	A99	1
D009	M012	MAD001055235	0.19	3679	B319	A49	1
D009	M141	MAD001055235	1.862	3679	B319	A49	1
D009	M141	NYD002235182	0.007	3679	B319	A56	1
D009	M019	MND982424202	0.147	3679	B319	A57	1
D009	M012	NYD001359694	0.05	3679	B319	A58	1
D009	M012	NYD080480734	0.288	3679	B319	A58	1
D009	M019	MND006147268	0.624	3679	B319	A59	1
D009	M043	ORD009020231	0.176	3679	B319	A59	1
D009	M141	MAD001339159	0.709	3679	B319	A94	1
D009	M012	NYD080480734	2.396	3679	B319	A99	1
D009	M141	MED086878980	0.11	3694	B319	A99	1
D009	M141	NYD980789218	1.442	3695	B319	A57	1
D009	M132	MND980996391	0.8	3699	B319	A99	1
D009	M019	MND006207773	4.325	3711	B319	A99	1
D009	M111	MID980795488	0.44	3711	B319	A99	1
D009	M111	MID985572890	2.96	3711	B319	A99	1
D009	M132	MID005356712	2.6	3711	B319	A99	1
D009	M141	NCD980841753	0.075	3713	B319	A99	1
D009	M125	MID005358783	0	3714	B319	A99	1
D009	M132	MID061874723	1.25	3714	B319	A99	1
D009	M111	NHD001427475	0.5	3724	B319	A59	1
D009	M141	MAD001408517	1.078	3724	B319	A59	1
D009	M141	NHD001427475	0.647	3724	B319	A59	1
D009	M132	NMD052684578	0.872	3724	B319	A99	1
D009	M141	MAD000639054	2.5	3728	B319	A92	1
D009	M141	MAD097437982	1.751	3728	B319	A92	1
D009	M132	MSD050648757	0.5	3731	B319	A59	1
D009	M141	MED041460247	0.05	3731	B319	A99	1
D009	M012	NHD064441132	0.152	3812	B319	A53	1
D009	M012	NJD002342434	1.8	3812	B319	A99	1
D009	M141	NJD002342434	2.494	3812	B319	A99	1
D009	M019	MAD001028646	0.145	3841	B319	A99	1
D009	M141	MAD086534864	0.425	3841	B319	A99	1
D009	M132	NYD000809335	0.75	3861	B319	A57	1
D009	M141	NYD000809327	36.475	3861	B319	A57	1
D009	M141	NYD000809335	1.685	3861	B319	A57	1
D009	M141	NYD980537112	1.317	3861	B319	A57	1
D009	M141	NYD980646152	0.395	3861	B319	A57	1
D009	M141	NYD980784680	23.061	3861	B319	A57	1
D009	M141	NYD980790083	6.205	3861	B319	A57	1

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D009	M012	MAD001402320	0.495	3861	B319	A59	1
D009	M141	NYD000809335	0.024	3861	B319	A59	1
D009	M141	NYD980646152	0.095	3861	B319	A59	1
D009	M141	NYD980790083	0.013	3861	B319	A59	1
D009	M014	MAD058060476	0.705	3861	B319	A99	1
D009	M019	MAD001402320	1.112	3861	B319	A99	1
D009	M132	NYD980592497	43.175	3861	B319	A99	1
D009	M141	MAD000846469	9.922	3861	B319	A99	1
D009	M141	MAD000846493	0.229	3861	B319	A99	1
D009	M141	MAD043410133	1.335	3861	B319	A99	1
D009	M141	MAD062163191	4.457	3861	B319	A99	1
D009	M111	NYD002229128	0.125	3914	B319	A58	1
D009	M032	MDD022688329	0.271	3993	B319	A99	1
D009	M141	MDD022688329	0.271	3993	B319	A99	1
D009	M141	NJD986645927	0.75	4226	B319	A92	1
D009	M012	MND981190242	0.017	4226	B319	A99	1
D009	M019	MND003835501	1.25	4512	B319	A56	1
D009	M021	LA6170022788	1.694	4581	B319	A57	1
D009	M141	NYD986870319	25.007	4813	B319	A58	1
D009	M019	MED043250109	0.115	4911	B319	A56	1
D009	M019	MED981069644	0.009	4911	B319	A56	1
D009	M141	MAD055179634	0.07	4911	B319	A56	1
D009	M111	MID000721548	0.4	4911	B319	A57	1
D009	M119	MID087056685	1.252	4911	B319	A92	1
D009	M141	MID000722157	0.016	4911	B319	A92	1
D009	M043	MDD000731570	0.381	4911	B319	A99	1
D009	M043	MDD000731596	0.12	4911	B319	A99	1
D009	M043	MDD053936464	0.492	4911	B319	A99	1
D009	M043	MDD120291109	0.042	4911	B319	A99	1
D009	M043	MDD981115132	0.178	4911	B319	A99	1
D009	M049	MDD981732654	0.169	4911	B319	A99	1
D009	M132	MOD000687392	1.992	4911	B319	A99	1
D009	M132	NYD000829564	0.65	4922	B319	A56	1
D009	M012	MSD980728067	0.425	4922	B319	A59	1
D009	M132	NYD000767731	0.235	4922	B319	A59	1
D009	M141	NJD077070811	0.01	4931	B319	A53	1
D009	M141	NYD000706259	0.1	4931	B319	A59	1
D009	M141	NJD000730424	0.375	4931	B319	A92	1
D009	M014	MND985667674	0.046	4931	B319	A99	1
D009	M111	MAD076575513	0.3	4931	B319	A99	1
D009	M141	NYD980537187	0.34	4931	B319	A99	1
D009	M019	NM4890139088	0.228	4953	B319	A58	1
D009	M132	NM4890139088	0.457	4953	B319	A58	1
D009	M141	MAD007325814	0.113	5093	B319	A59	1
D009	M019	NYD981875461	3.5	7384	B319	A92	1
D009	M141	MAD991289505	0.497	8069	B319	A99	1
D009	M141	NJD060803467	0.005	8211	B319	A94	1
D009	M141	NYD986900371	0.021	8211	B319	A94	1
D009	M111	MIT270010598	0.132	8221	B319	A53	1
D009	M141	MAD065160756	0.005	8221	B319	A92	1
D009	M019	MAD001425594	34.891	8221	B319	A99	1
D009	M125	MND980792642	4.329	8221	B319	A99	1
D009	M141	NY6890008992	0.003	8731	B319	A53	1
D009	M129	NYD067919183	0.125	8731	B319	A94	1
D009	M043	NYD091894899	0.7	8731	B319	A99	1
D009	M141	NJD048804488	1.112	8731	B319	A99	1
D009	M141	NY6890008992	0.634	8731	B319	A99	1
D009	M141	MAD001424985	0.2	8733	B319	A59	1
D009	M043	NJ1960011152	0.672	8733	B319	A99	1
D009	M141	MD6170024685	0.392	8733	B319	A99	1
D009	M141	NYD981182249	0.05	8734	B319	A94	1
D009	M129	MD5170024686	1.409	8734	B319	A99	1
D009	M141	MND000823914	1.34	8741	B319	A57	1
D009	M141	MED042140483	0.425	8999	B319	A64	1
D009	M125	MND980826457	1.266	9223	B319	A99	1
D009	M039	NC2690308232	0.6	9621	B319	A99	1
D009	M141	MD9800013865	0.037	9661	B319	A94	1
D009	M019	MT8571924556	0.053	9711	B319	A53	1
D009	M141	NM6572124422	0.029	9711	B319	A53	1
D009	M039	MA7210025154	0.065	9711	B319	A57	1
D009	M019	NM6572124422	0.306	9711	B319	A58	1
D009	M132	NV1210090006	2.226	9711	B319	A58	1
D009	M132	MO9890010524	0.26	9711	B319	A59	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D009	M019	MND000773341	0.05	9711	B319	A99	1
D009	M111	NM6572124422	2.23	9711	B319	A99	1
D009	M141	ME7170022019	0.41	9711	B319	A99	1
D009	M141	NM6572124422	2.23	9711	B319	A99	1
D009	M141	MA8570024424	0.048	9999	B319	A94	1
D009	M011	VAD000819466	0.097	2111	B319	A59	1
D009	M011	VAD010067171	0.04	2111	B319	A92	1
D009	M141	VAD010067171	0.35	2111	B319	A92	1
D009	M141	TXD087716122	0.07	2621	B319	A94	1
D009	M141	WID043477900	0.048	2732	B319	A61	1
D009	M132	WID046536231	12.115	2812	B319	A82	1
D009	M012	TXD008123168	0.31	2819	B319	A59	1
D009	M043	TXD008123168	0.65	2819	B319	A59	1
D009	M132	TXD008123168	63.4	2819	B319	A59	1
D009	M132	PAD041399403	6.653	2819	B319	A91	1
D009	M014	WVD004341491	7.5	2819	B319	A92	1
D009	M141	VAD023690183	0.075	2824	B319	A56	1
D009	M041	VAD188141626	5.758	2834	B319	A59	1
D009	M043	VAD003110087	0.225	2834	B319	A59	1
D009	M141	PAD003008943	0.462	2834	B319	A99	1
D009	M019	VAD982578619	0.425	2844	B319	A55	1
D009	M012	PAD982362832	0.001	2899	B319	A94	1
D009	M043	TX6213820529	0.1	2899	B319	A99	1
D009	M012	PRD991291972	0.004	2911	B319	A53	1
D009	M132	TXD000782698	2.2	2911	B319	A59	1
D009	M012	PAD004335162	0.075	3312	B319	A58	1
D009	M132	WID006101695	0.05	3351	B319	A59	1
D009	M132	PAD004320248	0.3	3429	B319	A99	1
D009	M132	VAD046960449	3	3443	B319	A99	1
D009	M039	PAD004316832	0.45	3449	B319	A57	1
D009	M132	PAD004316832	0.487	3449	B319	A91	1
D009	M141	TXD000792952	0.16	3471	B319	A99	1
D009	M141	VTD002083434	15.97	3484	B319	A99	1
D009	M119	PAD069779627	1.125	3489	B319	A99	1
D009	M111	WID006073183	0.175	3531	B319	A89	1
D009	M019	WID006114078	0.6	3554	B319	A69	1
D009	M019	PAD980829287	0	3564	B319	A57	1
D009	M012	WID006097109	4.689	3625	B319	A89	1
D009	M141	PAD002395325	0.325	3671	B319	A59	1
D009	M141	VAD066000993	0.386	3672	B319	A49	1
D009	M019	PRD987374527	0.007	3672	B319	A94	1
D009	M141	TXD049038201	0.13	3674	B319	A49	1
D009	M141	PAD000765800	0.055	3674	B319	A57	1
D009	M012	PAD002389252	0.38	3674	B319	A58	1
D009	M141	PAD002389252	0.92	3674	B319	A58	1
D009	M141	TXD096397211	0.75	3674	B319	A59	1
D009	M141	TXD007321904	7.89	3674	B319	A99	1
D009	M141	TXD980870356	0.15	3674	B319	A99	1
D009	M119	VAD098444474	0.14	3678	B319	A99	1
D009	M132	VAD098444474	0.401	3678	B319	A99	1
D009	M019	TXD000014217	0.01	3679	B319	A56	1
D009	M111	TXD160825428	0.07	3679	B319	A56	1
D009	M132	PAD002279149	5.74	3679	B319	A69	1
D009	M141	VTD002065597	0.075	3692	B319	A53	1
D009	M012	TXD008018004	0.49	3711	B319	A99	1
D009	M132	TXD008018004	0.25	3711	B319	A99	1
D009	M132	PAD002360485	0.3	3713	B319	A58	1
D009	M141	VAD054040456	3.85	3714	B319	A55	1
D009	M012	TX7572024605	0.25	3721	B319	A59	1
D009	M012	PAD987343860	0.004	3728	B319	A59	1
D009	M141	VA5170000181	0.038	3731	B319	A53	1
D009	M111	VAD001307495	0.4	3731	B319	A56	1
D009	M141	PA4170022418	0.333	3731	B319	A58	1
D009	M141	UTD009081357	15.361	3761	B319	A99	1
D009	M141	PAD002316305	0.5	3769	B319	A99	1
D009	M012	PAD003025418	0.2	3795	B319	A99	1
D009	M141	RID001463090	0.275	3812	B319	A99	1
D009	M141	TXD000709964	1.6	3812	B319	A99	1
D009	M141	TXD006287015	2.26	3812	B319	A99	1
D009	M039	PRD980759443	0.004	3823	B319	A94	1
D009	M043	PRD000003400	0.129	3841	B319	A57	1
D009	M043	PRD090413568	0.783	3841	B319	A57	1
D009	M141	RID001201508	0.935	3951	B319	A59	1

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D009	M141	RID040112047	1.25	3961	B319	A93	1
D009	M141	PAD009872706	0.25	4911	B319	A53	1
D009	M141	TXD020810503	0.75	4911	B319	A57	1
D009	M132	PAD000765891	0.322	4922	B319	A99	1
D009	M132	PAD049672389	0.772	4922	B319	A99	1
D009	M999	WAD058367152	5.12	4953	B319		1
D009	M141	TXD981155203	1.23	7349	B319	A99	1
D009	M012	TX8800016125	0.11	7389	B319	A56	1
D009	M012	VTD000636449	2.99	8221	B319	A59	1
D009	M141	VTD000636449	2.8	8221	B319	A59	1
D009	M141	TXD000820118	0.2	8731	B319	A59	1
D009	M141	VA7800020888	0.002	9661	B319	A53	1
D009	M999	WA2170023418	0.55	9711	B319		1
D009	M999	WA5170027291	2.976	9711	B319		1
D009	M999	WA8214053995	0.05	9711	B319		1
D009	M999	WA9214053465	0.08	9711	B319		1
D009	M141	TX7170022787	1.92	9711	B319	A99	1
D009	M999	WA7890008967	0.075	9999	B319		1
D009	M132	WVD000765297	5.28	9999	B319	A92	1
D009	M141	MED001095041	0.313	2611	B319	A56	2
D009	M141	NYD980526875	0.245	2813	B319	A32	2
D009	M132	NYD002123461	41.5	2819	B319	A99	2
D009	M141	NJD002444719	0.057	2821	B319	A94	2
D009	M132	NJD001317064	2.4	2833	B319	A99	2
D009	M012	NJD002144202	5.492	2834	B319	A56	2
D009	M141	NJD002144202	1.25	2834	B319	A56	2
D009	M019	MND037335072	0.218	2835	B319	A99	2
D009	M012	NJD051274348	0.009	2865	B319	A53	2
D009	M132	NJD091859215	8.37	2899	B319	A69	2
D009	M141	MED040228983	0.02	3083	B319	A53	2
D009	M039	MID096322532	0.125	3211	B319	A53	2
D009	M041	MID096322532	0.042	3211	B319	A53	2
D009	M119	NJD002325074	8.57	3262	B319	A56	2
D009	M132	MID004320479	0.675	3312	B319	A53	2
D009	M141	NCD003162542	0.015	3334	B319	A91	2
D009	M141	MAD991302712	0.011	3339	B319	A53	2
D009	M141	MAD001128032	0.05	3462	B319	A94	2
D009	M141	MDD069380657	0.25	3479	B319	A99	2
D009	M141	MAD002084093	2.85	3612	B319	A56	2
D009	M141	NYD002247377	0.045	3679	B319	A53	2
D009	M141	NYD059385120	0.189	3679	B319	A53	2
D009	M043	MND982627291	1.2	3679	B319	A99	2
D009	M132	NCD003216462	22.805	3692	B319	A56	2
D009	M111	MID072784150	1.95	3714	B319	A99	2
D009	M141	MAD001408517	0.007	3724	B319	A53	2
D009	M141	NYD000521971	0.067	3812	B319	A53	2
D009	M141	NYD002246114	0.295	3812	B319	A53	2
D009	M132	MID985579861	0.459	4911	B319	A69	2
D009	M141	MAD030821631	0.385	4911	B319	A99	2
D009	M132	NYD000729863	4.875	4931	B319	A53	2
D009	M141	NYD000730127	0.004	4931	B319	A53	2
D009	M141	NYD051590255	0.397	4931	B319	A53	2
D009	M011	NJD071457295	2.66	8062	B319	A92	2
D009	M043	NJD071457295	0.005	8062	B319	A92	2
D009	M012	NJP000907857	3.425	8111	B319	A56	2
D009	M141	NJD986652345	0.005	8211	B319	A56	2
D009	M141	MS6210809871	0.003	9199	B319	A58	2
D009	M141	MS6210809871	0.007	9199	B319	A94	2
D009	M132	NJD982532434	0.15	9999	B319	A69	2
D009	M012	UTD000826404	5.65	1021	B319	A56	2
D009	M999	WAD980639686	0.001	1611	B319		2
D009	M019	PRD980644397	0.002	2091	B319	A53	2
D009	M132	WVD004336343	254.2	2812	B319	A69	2
D009	M999	WAD009276197	0.005	2911	B319		2
D009	M141	VTD000649780	0.175	3484	B319	A99	2
D009	M999	WAD000064642	0.6	3499	B319		2
D009	M141	VTD093252096	0.01	3571	B319	A53	2
D009	M019	VAD003132438	0.03	3577	B319	A56	2
D009	M119	WID006082473	0.45	3674	B319	A89	2
D009	M132	UTD073008237	0.125	3674	B319	A99	2
D009	M141	UTD073008237	1.087	3674	B319	A99	2
D009	M141	VTD002065597	0.26	3692	B319	A56	2
D009	M141	VTD002065597	0.16	3692	B319	A93	2

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D009	M131	VTD001075894	1.38	3724	B319	A99	2
D009	M111	PAD085711141	14.4	3824	B319	A56	2
D009	M011	UTT500010087	17.95	4911	B319	A53	2
D009	M011	UTT500010103	1.35	4911	B319	A53	2
D009	M141	PAD987393196	0.095	4911	B319	A56	2
D009	M141	PAD987393220	0.005	4911	B319	A56	2
D009	M039	VAD980715064	0.002	7549	B319	A72	2
D009	M999	WAD078216405	0.01	8062	B319		2
D009	M999	WA9214053465	0.013	9711	B319		2
D009	M129	RI6170022036	0.035	9711	B319	A53	2
D009	M141	MDD170090021	2.65	8221	B319	A99	3
D009	M141	MD1170090012	1.2	8221	B319	A99	3
D009	M141	MS6210809871	0	9199	B319	A94	3
D009	M012	PAD002327708	0.96	3674	B319	A99	3
D009	M141	PAD002327708	0.225	3674	B319	A99	3
D009	M019	NJD044688935	0.081	2834	B402	A58	1
D009	M043	MOD006278642	0.664	2821	B403	A94	1
D009	M019	NJD044688935	0.501	2834	B403	A58	1
D009	M141	NCD097607352	0.2	3842	B403	A57	1
D009	M061	PAD002368892	0.24	2891	B403	A58	1
D009	M141	PAD002368892	0.4	2891	B403	A58	1
D009	M141	VA1170024813	0.005	3731	B403	A59	1
D009	M061	NCD097607352	0.15	3842	B404	A57	1
D009	M049	PR2170027203	0.006	9711	B405	A99	1
D009	M043	WIT560010282	0.702	3692	B407	A81	2
D009	M141	NJD002444719	0.005	2821	B409	A58	1
D009	M043	NCD047373766	7.638	2833	B409	A58	1
D009	M043	NYD050275627	0.405	2835	B409	A53	1
D009	M043	LAD003913449	0.9	2869	B409	A09	1
D009	M111	NJD064332273	1.2	2869	B409	A69	1
D009	M141	MAD043409879	1.24	3861	B409	A59	1
D009	M141	NJD101225365	0.01	4215	B409	A53	1
D009	M011	NYD981179005	1.8	4729	B409	A72	1
D009	M011	NYD986999563	3.5	4729	B409	A72	1
D009	M011	NYD986999571	11.3	4729	B409	A72	1
D009	M011	NYD987010816	8.2	4729	B409	A72	1
D009	M141	MAD000845412	0.024	4911	B409	A59	1
D009	M141	MD6150004095	0.993	8099	B409	A94	1
D009	M129	NM6572124422	0.049	9711	B409	A59	1
D009	M141	PAD001680719	0.025	3769	B409	A99	1
D009	M141	PAD002316305	1.617	3769	B409	A99	1
D009	M141	UT3213820894	0.022	9711	B409	A21	1
D009	M999	WA7890008967	0.009	9999	B409		1
D009	M141	VTD002065597	0.465	3692	B409	A56	2
D009	M999	WA8570024200	0.006	4581	B409		2
D009	M141	MAD001339159	0.826	3679	B503	A75	1
D009	M111	MID982606287	0.248	4789	B519	A53	2
D009	M141	UT3213820894	18.058	9711	B604	A21	1
D009	M141	MED980671796	0.092	2611	B701	A99	1
D009	M019	MND982425589	0.125	2711	B701	A99	1
D009	M019	NYD980788665	2.606	4911	B701	A56	1
D009	M041	NYD000730382	2.649	4911	B701	A56	1
D009	M041	NYD000730408	0.634	4911	B701	A56	1
D009	M141	NYD980777502	0.648	4911	B701	A56	1
D009	M039	MND000826206	3.424	4911	B701	A99	1
D009	M012	NCD980843866	1.139	8734	B701	A99	1
D009	M012	NJD001344506	3.97	2834	B701	A93	2
D009	M141	TXD061555611	0.05	3674	B901	A99	1
D009	M999	WAD988470985	0.002	2835			1
D009	M999	WA2170023418	0.23	9711			1
D009	M999	WA5170027291	0.003	9711			1
D009	M999	WA7890008967	0.01	9999			1
D009	M999	WAD988469193	3.53	2835			2
D009	M999	WAD988489142	0.99	8211			2
D009	M999	WA2170023418	0.28	9711			2
D009	M999	WA9214053465	0.11	9711			2
D010	M141	MDD022402994	0.097	2834	B001	A94	1
D010	M129	MDD000800672	0.029	4911	B001	A94	1
D010	M129	MDD000647636	0	8734	B001	A94	1
D010	M041	WID000808147	0.071	2865	B001	A57	1
D010	M141	MDD022402994	0.1	2834	B003	A94	1
D010	M141	MDD000737049	0	8099	B003	A94	1
D010	M141	MD6150004095	0.027	8099	B003	A94	1

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D010	M141	NJD089205280	0.005	8731	B003	A94	1
D010	M141	MD0120508940	0.005	8733	B003	A94	1
D010	M141	MID006015960	0.15	2023	B009	A94	1
D010	M041	NCD000616441	0.024	2844	B009	A58	1
D010	M111	MID000809228	2.119	3711	B101	A19	1
D010	M061	MOD006265326	177.252	3714	B101	A59	1
D010	M141	MDD022402994	0.944	2834	B102	A58	1
D010	M141	VA1170024813	0.27	3731	B102	A59	1
D010	M141	VA5170022482	4.67	9711	B102	A22	1
D010	M077	MO4213820489	0.252	3482	B103	A29	1
D010	M079	NYD986869402	2.064	2752	B106	A37	1
D010	M141	NCD067203752	0.98	3625	B106	A22	1
D010	M078	NYD045605888	0.395	3531	B108	A24	1
D010	M043	NYD980790083	0.027	3861	B113	A58	1
D010	M079	MSD064102577	2.519	3499	B114	A09	1
D010	M041	MAD001408517	0.38	3566	B114	A69	2
D010	M061	PAD000731430	0.3	4911	B115	A78	1
D010	M077	PAD000731430	3,774.94	4911	B115	A78	1
D010	M111	PAD000731430	144.76	4911	B115	A78	1
D010	M019	NJD986650034	5.75	2284	B116	A31	1
D010	M141	MID006015960	1.609	2023	B119	A59	1
D010	M049	NJD002152205	0.855	3357	B119	A09	1
D010	M141	NYD002047967	0.01	3479	B119	A37	1
D010	M077	MID005358783	0.021	3714	B119	A19	1
D010	M119	LAT230012833	0	8221	B119	A94	1
D010	M141	NJD980648521	0.229	8741	B119	A75	1
D010	M141	TXD061555611	1.38	3674	B119	A99	1
D010	M141	NJD042908954	3.154	2813	B15	A78	1
D010	M109	NJD002016103	1.2	2241	B205	A29	1
D010	M051	NJD000768028	30.734	4925	B205	A56	2
D010	M061	LAD982560914	0.605	3827	B206	A54	1
D010	M141	LAD982560914	0.806	3827	B206	A54	1
D010	M051	PAD980917975	2.17	3674	B206	A32	1
D010	M141	MDD022402994	4.45	2834	B207	A99	1
D010	M141	MED981889173	0.4	7538	B207	A58	1
D010	M111	MID076380658	7.356	8734	B207	A57	1
D010	M061	NJD001288711	21	2893	B209	A09	2
D010	M061	MID981194269	0.247	2821	B219	A57	1
D010	M089	NYD002033710	0.85	2834	B219	A58	1
D010	M125	PAD060511086	312.706	5171	B219	A49	1
D010	M141	NJD042908954	0.2	2813	B307	A09	1
D010	M111	PAD980917975	0.275	3674	B307	A91	1
D010	M141	PAD980917975	0.75	3674	B307	A91	1
D010	M141	VA1170024813	0.82	3731	B307	A29	1
D010	M043	MOD007452154	0.1	2833	B308	A99	1
D010	M141	NJD042908954	0.2	2813	B310	A55	1
D010	M111	NYD002033710	0.525	2834	B310	A53	1
D010	M041	MAD981062797	0.688	3425	B310	A55	1
D010	M132	LAD982560914	0.467	3827	B310	A09	1
D010	M141	MAD007325814	0.445	5093	B310	A27	1
D010	M043	PAD990823858	0.028	3471	B310	A22	1
D010	M141	LAD982560914	0.198	3827	B310	A54	2
D010	M141	NHD073998106	0.525	3679	B316	A49	1
D010	M132	PAD030068282	1.72	3341	B316	A59	2
D010	M141	MID006015960	0.05	2023	B319	A57	1
D010	M141	MID006015960	0.407	2023	B319	A91	1
D010	M141	NJD011550092	0.25	2834	B319	A49	1
D010	M141	NYD054065909	17	2834	B319	A57	1
D010	M132	OKD096646666	1.603	3452	B319	A29	1
D010	M132	NJT350010195	19.6	3469	B319	A40	1
D010	M119	NJD048613590	0.1	4613	B319	A56	1
D010	M132	MID064197742	0.28	8734	B319	A57	1
D010	M111	PAD030068282	79.754	3341	B319	A57	1
D010	M999	WA2170023418	0.12	9711	B319		1
D010	M111	PAD030068282	1.189	3341	B319	A78	2
D010	M041	MAD981062797	0.229	3425	B409	A53	2
D010	M132	VAD065415457	0.6	3491	B609	A49	1
D010	M999	WAD058367152	48.59	4953			1
D011	M141	NJ0000021501	0.119		B	A	1
D011	M041	NJD986596724	0.481	2761	B	A	1
D011	M111	NJD002373819	0.68	2819	B001	A94	1
D011	M043	NJD000818567	0.001	2834	B001	A58	1
D011	M141	NJD073745945	0.2	2911	B001	A94	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D011	M129	MID006018196	0.015	3585	B001	A94	1
D011	M043	NYD001527829	0.02	3663	B001	A49	1
D011	M049	MDD000731596	0.015	4911	B001	A58	1
D011	M129	MDD000800672	0.021	4911	B001	A94	1
D011	M041	MI5570024278	0.005	8099	B001	A94	1
D011	M141	NYD987004355	0.021	8734	B001	A94	1
D011	M141	MED042140483	0.46	8999	B001	A94	1
D011	M049	MD9210020567	0.002	9199	B001	A58	1
D011	M141	MD9210020567	0.002	9199	B001	A58	1
D011	M141	PAD002274991	0.005	2621	B001	A58	1
D011	M043	PRD090413568	0	2834	B001	A58	1
D011	M041	WVD004325353	0	2869	B001	A94	1
D011	M043	WVD004325353	0	2869	B001	A94	1
D011	M043	VAD001307495	0.025	3731	B001	A58	1
D011	M061	UTD000651653	0.007	8221	B001	A94	1
D011	M999	WID003967148	0.012	9511	B001	A59	2
D011	M141	MAD000846501	1.61	3674	B002	A53	1
D011	M043	NYD013440169	0.01	2672	B003	A58	1
D011	M141	MAD980673065	0.112	2834	B003	A94	1
D011	M141	MAD982196172	0.45	2834	B003	A94	1
D011	M141	NJD011550092	0.005	2834	B003	A94	1
D011	M041	LAD008187080	0.15	2869	B003	A94	1
D011	M141	NCD067199851	0.002	2879	B003	A94	1
D011	M141	NYD002047967	0.025	3479	B003	A57	1
D011	M141	MAD092192541	0.15	3679	B003	A56	1
D011	M019	NYD000689059	0.334	3861	B003	A58	1
D011	M043	NYD045606480	0.052	3861	B003	A58	1
D011	M141	MAD985280858	0.055	5961	B003	A99	1
D011	M011	NVD982502684	26.72	8062	B003	A72	1
D011	M141	MD6150004095	0.075	8099	B003	A94	1
D011	M042	MDD050793926	0.045	8221	B003	A72	1
D011	M039	NYD002223642	0.004	8221	B003	A94	1
D011	M141	NJD986584688	0.005	8731	B003	A58	1
D011	M141	NJD980753842	0.03	8731	B003	A94	1
D011	M141	MD0120508940	0.075	8733	B003	A94	1
D011	M141	MD5123510732	0.41	8733	B003	A94	1
D011	M043	NJ0170022172	0.03	9711	B003	A58	1
D011	M049	WVD060682291	0.054	2869	B003	A94	1
D011	M141	PAD042147652	0.002	3562	B003	A94	1
D011	M141	PAD002316305	0.025	3769	B003	A58	1
D011	M141	PAD001680719	0.919	3769	B003	A94	1
D011	M041	WID980283394	0.049	8221	B003	A59	1
D011	M041	WID980904452	0.109	8221	B003	A59	1
D011	M141	WID980283394	0.013	8221	B003	A59	1
D011	M141	NJD101686731	0.12	2834	B009	A94	1
D011	M141	NCD980600894	0.751	8221	B009	A99	1
D011	M141	NYD980779540	0.024	9999	B009	A56	1
D011	M141	PRD982725251	0.005	2834	B009	A94	1
D011	M141	VA4210220139	0.195	9199	B009	A59	1
D011	M141	NYD980647861	5.963	2711	B101	A35	1
D011	M041	MAD981066731	0.082	2819	B101	A27	1
D011	M079	NJD000531707	0.504	3448	B101	A37	1
D011	M019	MND081138604	0.681	3483	B101	A35	1
D011	M061	MDD003065877	1.409	3546	B101	A99	1
D011	M014	MAD000842377	25.023	3555	B101	A49	1
D011	M014	MAD001014174	33.205	3555	B101	A49	1
D011	M043	MAD000842377	0.229	3555	B101	A99	1
D011	M041	NHD064441132	0.517	3812	B101	A37	1
D011	M141	NYD987016169	7.17	8011	B101	A72	1
D011	M019	MAD001424985	5.661	8733	B101	A89	1
D011	M141	VTD002085108	0.48	3724	B101	A05	1
D011	M121	VTD002068070	0.313	3728	B101	A93	2
D011	M119	NJD986645836	1.147	2752	B102	A09	1
D011	M129	NJD986652931	0.542	2752	B102	A35	1
D011	M019	NYD980654081	71.9	2752	B102	A37	1
D011	M061	NJD986585388	2.3	2752	B102	A37	1
D011	M141	NYD980653711	3.89	2752	B102	A73	1
D011	M125	NVD981641434	5.908	2754	B102	A37	1
D011	M141	NHD990717803	9.483	2761	B102	A35	1
D011	M141	NJD002349009	0.22	2879	B102	A57	1
D011	M019	NHD986470730	0.688	3643	B102	A22	1
D011	M141	NYD986884963	0.688	3646	B102	A36	1
D011	M141	MAD001339159	0.705	3679	B102	A37	1

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D011	M141	MED041460247	8.012	3731	B102	A37	1
D011	M039	NJD085652576	0.055	3844	B102	A99	1
D011	M141	MAD053449393	0.459	3861	B102	A31	1
D011	M141	MA1210020631	0.777	8733	B102	A37	1
D011	M041	ME6572890022	0.071	9711	B102	A31	1
D011	M141	MD4170090001	0.853	9711	B102	A35	1
D011	M019	ME7170022019	2.692	9711	B102	A72	1
D011	M141	ME7170022019	3.877	9711	B102	A72	1
D011	M019	NY2572824249	0.381	9711	B102	A99	1
D011	M125	PAD987391570	1.667	2752	B102	A37	1
D011	M014	RID063900690	5.179	3731	B102	A31	1
D011	M141	VA1170024813	0.22	3731	B102	A94	1
D011	M019	RID001463090	2.15	3812	B102	A37	1
D011	M019	MED071735096	2.39	2673	B103	A37	1
D011	M019	NYD981563588	3.44	2711	B103	A37	1
D011	M029	NJD055098669	3.199	2752	B103	A37	1
D011	M019	NHD002579399	0.817	3553	B103	A99	1
D011	M042	MED000791681	2.359	3724	B103	A99	1
D011	M019	MND000819300	0.242	3812	B103	A49	1
D011	M089	NM7572124454	0.329	3826	B103	A72	1
D011	M141	MAD001029768	0.229	3829	B103	A29	1
D011	M141	NJ0000027201	0.05	6331	B103	A58	1
D011	M141	NYD981077480	1.32	7334	B103	A19	1
D011	M014	LAD981512494	5.8	8011	B103	A72	1
D011	M014	LAD981512932	10.7	8011	B103	A72	1
D011	M014	LAD981905920	1.3	8011	B103	A72	1
D011	M014	LAD982289902	2.5	8011	B103	A72	1
D011	M014	LAD982293458	10.9	8011	B103	A72	1
D011	M014	LAD037970217	18.3	8062	B103	A72	1
D011	M014	LAD981519689	7.6	8062	B103	A72	1
D011	M141	MD6150004095	1.026	8099	B103	A94	1
D011	M019	NHD041027822	0.25	8221	B103	A59	1
D011	M141	NYD002050177	0.7	8734	B103	A94	1
D011	M014	WID071153696	1.227	2752	B103	A27	1
D011	M029	WID981001803	6.288	2796	B103	A69	1
D011	M141	VTD000649780	0.228	3484	B103	A49	1
D011	M141	VTD002083434	0.913	3484	B103	A99	1
D011	M041	VTD002068070	0.16	3728	B103	A23	1
D011	M019	VA1170024813	0.322	3731	B103	A22	1
D011	M014	PAD000730515	3.92	3996	B103	A49	1
D011	M019	VA7213720082	1.278	9999	B103	A55	1
D011	M019	MND990860470	0.009	3479	B103	A58	2
D011	M014	MAD001128198	1.762	2752	B105	A37	1
D011	M129	NVD982446197	3.444	2796	B105	A72	1
D011	M141	MOD985775147	0.229	3470	B105	A58	1
D011	M141	NYD059385120	1.308	3679	B105	A29	1
D011	M014	MAD001014182	0.963	3679	B105	A99	1
D011	M078	NMD052684578	1.56	3724	B105	A49	1
D011	M132	MOD192203487	0.596	3795	B105	A37	1
D011	M111	NYD067916494	0.229	3861	B105	A37	1
D011	M019	MED123140667	2.535	6311	B105	A31	1
D011	M092	NYD986931939	0.44	6399	B105	A37	1
D011	M092	NYD987027679	1.76	6399	B105	A37	1
D011	M129	MED985474576	2.669	7336	B105	A37	1
D011	M141	VA1170024813	0.299	3731	B105	A58	1
D011	M141	VA5170000181	0.4	3731	B105	A58	1
D011	M129	PAD002282556	0.157	3823	B105	A89	1
D011	M019	NYD010026391	2.614	2657	B106	A31	1
D011	MDK	NJD124684481	1.32	2711	B106	A	1
D011	M019	NYD065945495	16.18	2711	B106	A37	1
D011	M141	NYD981075617	9.07	2711	B106	A37	1
D011	M019	NYD987000114	11.635	2721	B106	A37	1
D011	M019	NJ0000034223	0.459	2732	B106	A37	1
D011	M019	NYD002040947	4.525	2752	B106	A37	1
D011	M019	NYD075782987	4.587	2752	B106	A37	1
D011	M019	NYD982279713	3.565	2752	B106	A37	1
D011	M019	NYD986869402	11.947	2752	B106	A37	1
D011	M019	NYD987017142	6.651	2752	B106	A37	1
D011	M019	NYD987039872	1.147	2752	B106	A37	1
D011	M077	NYD986995025	5.497	2752	B106	A37	1
D011	M019	NYD986950079	0.229	2796	B106	A37	1
D011	M019	NYD986991792	37.552	2796	B106	A37	1
D011	M141	NYD980776827	0.025	3555	B106	A37	1

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D011	M141	NYD986884286	0.045	3555	B106	A37	1
D011	M141	NHD037695236	1.925	3555	B106	A49	1
D011	M019	NYD077508810	0.9	3577	B106	A49	1
D011	M049	MID041511478	110	3585	B106	A49	1
D011	M141	NJD002141778	0.6	3613	B106	A49	1
D011	M141	MAD001005370	0.884	3661	B106	A31	1
D011	M125	NJD981140502	0.229	3672	B106	A05	1
D011	M141	MAD001411081	0.7	3679	B106	A22	1
D011	M029	NJD982791360	0.25	3679	B106	A31	1
D011	M019	MAD980522585	0.229	3679	B106	A49	1
D011	M141	NHD000791889	1.607	3699	B106	A37	1
D011	M079	MAD001015650	3.207	3861	B106	A37	1
D011	M099	NJ0210022752	0.742	4412	B106	A59	1
D011	M019	NJD982188617	7.798	7384	B106	A37	1
D011	M019	NYD013518139	12.302	7384	B106	A37	1
D011	M019	NYD152305645	10.613	7384	B106	A37	1
D011	M019	NYD981482888	9.654	7384	B106	A37	1
D011	M019	NYD981482896	9.32	7384	B106	A37	1
D011	M019	NYD981482904	10.133	7384	B106	A37	1
D011	M019	NYD982535429	17.89	7384	B106	A37	1
D011	M019	NYD982727422	8.361	7384	B106	A37	1
D011	M019	NYD986932374	13.344	7384	B106	A37	1
D011	M019	NYD986934362	8.716	7384	B106	A37	1
D011	M019	NYD986965713	4.572	7384	B106	A37	1
D011	M019	NYD986977270	13.657	7384	B106	A37	1
D011	M019	NYD986987493	13.699	7384	B106	A37	1
D011	M019	NYD986987675	13.094	7384	B106	A37	1
D011	M019	NYD987000528	13.845	7384	B106	A37	1
D011	M019	NYD987001013	12.552	7384	B106	A37	1
D011	M019	NYD987015922	11.072	7384	B106	A37	1
D011	M019	NYD987029501	9.049	7384	B106	A37	1
D011	M019	NYD987034758	8.653	7384	B106	A37	1
D011	M111	NYD982791444	11.7	7819	B106	A37	1
D011	M141	MS2570024164	0.011	8062	B106	A49	1
D011	M019	NYD986885614	15.033	8099	B106	A37	1
D011	M019	NYD089394266	1.168	8211	B106	A37	1
D011	M039	MAD000844670	1.23	8221	B106	A37	1
D011	M014	MAD991304767	0.042	8221	B106	A94	1
D011	M019	MAD075347500	0.03	8221	B106	A94	1
D011	M141	MAD991304767	0.2	8221	B106	A94	1
D011	M014	MAD099198178	1.947	8221	B106	A99	1
D011	M141	NJ1960011152	0.222	8733	B106	A49	1
D011	M141	MD9800013865	0.007	9661	B106	A59	1
D011	M141	MA0570024026	0.953	9711	B106	A99	1
D011	M061	TXD003897733	0.27	3571	B106	A37	1
D011	M014	PAD106384993	69.954	8062	B106	A37	1
D011	M141	VA6170061463	0.056	9711	B106	A22	1
D011	M077	VA1170024722	3.426	9711	B106	A37	1
D011	M079	VA1170024722	0.924	9711	B106	A37	1
D011	M019	NYD057722019	0.457	3625	B107	A22	1
D011	M141	NJD986573400	0.22	3679	B107	A22	1
D011	M141	MAD001014182	0.021	3679	B107	A99	1
D011	M079	NYD061956470	0.045	3861	B107	A37	1
D011	M141	UT3213820894	0.006	9711	B107	A58	1
D011	M141	NV9170022173	0.304	9711	B109	A55	1
D011	M129	MID047189097	63.703	2732	B110	A37	1
D011	M141	NJD001526078	0.229	3499	B110	A94	1
D011	M092	NYD986931939	0.667	6399	B110	A37	1
D011	M092	NYD987027679	1.76	6399	B110	A37	1
D011	M014	LAD072630254	27.9	8062	B110	A72	1
D011	M121	VA4570024477	2.4	9199	B110	A99	1
D011	M019	NJD986615102	1.075	2833	B113	A99	1
D011	M041	NCD041463761	0.888	3571	B113	A59	1
D011	M141	NCD041463761	0.2	3571	B113	A59	1
D011	M141	MAD001410539	2.2	3669	B113	A49	1
D011	M019	MAD001061001	0.252	3679	B113	A22	1
D011	M141	MAD001055235	3.165	3679	B113	A29	1
D011	M079	NYD002038586	0.4	3679	B113	A49	1
D011	M141	NYD002038586	0.2	3679	B113	A49	1
D011	M141	MAD001408517	0.165	3724	B113	A57	1
D011	M141	NJD986628717	0.96	3812	B113	A37	1
D011	M019	NYD002056679	10.45	3861	B113	A49	1
D011	M032	NYD000767624	3.899	8221	B113	A09	1

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D011	M141	NCD000830737	0.45	8221	B113	A37	1
D011	M041	NCD000813519	0.875	8221	B113	A94	1
D011	M141	NY6890008992	0.111	8731	B113	A94	1
D011	M129	NM2750211235	1.93	9711	B113	A99	1
D011	M141	MA8570024424	0.73	9999	B113	A59	1
D011	M019	PAD004327417	0.511	3498	B113	A37	1
D011	M077	PAD004329116	5.383	3532	B113	A99	1
D011	M141	PA5213820892	0.045	7221	B113	A99	1
D011	M141	VA8210020626	0.233	9199	B113	A72	1
D011	M129	NHD073976904	0.5	2295	B114	A49	1
D011	M019	MND006147052	0.042	2657	B114	A49	1
D011	M119	NYD002206142	13.92	2672	B114	A09	1
D011	M119	NYD013440169	19.638	2672	B114	A09	1
D011	M141	NJD047456058	0.229	2761	B114	A59	1
D011	M141	MAD000844126	0.55	2835	B114	A99	1
D011	M141	MAD001409150	0.382	2899	B114	A35	1
D011	M141	MAD001419514	2.754	3053	B114	A23	1
D011	M141	NYD001386077	0.104	3341	B114	A49	1
D011	M077	NJD000473355	14.879	3555	B114	A99	1
D011	M019	MND079731519	0.2	3571	B114	A37	1
D011	M019	NYD001321611	0.062	3672	B114	A99	1
D011	M077	NYD080480734	1.918	3672	B114	A99	1
D011	M092	NYD080480734	1.648	3672	B114	A99	1
D011	M141	MAD001411016	0.275	3679	B114	A29	1
D011	M077	NYD080480734	0.824	3679	B114	A49	1
D011	M092	NYD080480734	0.276	3679	B114	A49	1
D011	M089	NYD001315266	11.869	3694	B114	A31	1
D011	M099	MID050615996	0.229	3711	B114	A99	1
D011	M014	NHD001427475	8.439	3724	B114	A49	1
D011	M141	NHD001427475	1.646	3724	B114	A49	1
D011	M061	MDD004383402	0.6	3812	B114	A37	1
D011	M014	MND982070732	0.658	3812	B114	A99	1
D011	M019	MND980615496	0.5	3823	B114	A49	1
D011	M141	MAD001410240	0.688	3827	B114	A49	1
D011	M011	NJD064266000	4.362	3861	B114	A35	1
D011	M141	MAD001402320	0.861	3861	B114	A94	1
D011	M141	MAD001011071	0.434	3914	B114	A37	1
D011	M119	MAD001113331	1.608	3949	B114	A04	1
D011	M141	MAD002084093	0.459	3999	B114	A37	1
D011	M077	MID098644685	0.35	4911	B114	A94	1
D011	M019	NVD986776169	8.558	5399	B114	A37	1
D011	M141	NVD986776169	5.055	5399	B114	A37	1
D011	MDK	NJD986638773	0.256	6141	B114	A99	1
D011	M141	NYD987023157	33.781	7221	B114	A59	1
D011	M125	ORD000409581	0.349	7384	B114	A37	1
D011	M041	MS2570024164	0.074	8062	B114	A49	1
D011	M141	MS2570024164	0.497	8062	B114	A49	1
D011	M141	NYD100397413	0.207	8211	B114	A94	1
D011	M019	NVD981963549	6.62	8221	B114	A94	1
D011	M141	NED000809475	0.882	8221	B114	A94	1
D011	M041	MOD071999783	0.23	8221	B114	A99	1
D011	M141	MDD981106867	3.194	8222	B114	A59	1
D011	M141	NJD011328887	0.22	8731	B114	A37	1
D011	M141	NJD048804488	1.6	8731	B114	A37	1
D011	M141	NJD986583706	0.24	8731	B114	A37	1
D011	M111	MDD040549461	8.845	8733	B114	A37	1
D011	M077	MS6210809871	0.266	9199	B114	A36	1
D011	M141	MS6210809871	1.425	9199	B114	A36	1
D011	M141	NCD981856396	0.051	9229	B114	A35	1
D011	M141	ME8170022018	2.711	9711	B114	A09	1
D011	M141	NV7570024110	0.739	9711	B114	A49	1
D011	M141	NC1170027261	0.001	9711	B114	A58	1
D011	M141	NC1170027261	0.573	9711	B114	A72	1
D011	M023	NM0890010515	0.045	9711	B114	A94	1
D011	M041	NM0890010515	0.058	9711	B114	A94	1
D011	M079	NM0890010515	4.197	9711	B114	A94	1
D011	M075	NYD980779540	0.24	9999	B114	A59	1
D011	M061	PAD987377504	1	2677	B114	A49	1
D011	M099	PAD010567386	18.9	2752	B114	A99	1
D011	M119	WVD060682291	0.205	2869	B114	A59	1
D011	M041	PAD075485995	0.03	2879	B114	A94	1
D011	M061	PAD075988071	1.845	3089	B114	A22	1
D011	M141	PAD002389252	0.808	3674	B114	A29	1

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D011	M141	RID000001701	1.319	3676	B114	A37	1
D011	M141	VAD988186110	0.001	3731	B114	A58	1
D011	M041	RID000001750	0.688	3829	B114	A49	1
D011	M041	WVD003095536	5.112	3861	B114	A94	1
D011	M014	VA8170024170	0.537	9711	B114	A99	1
D011	M041	PR2170027203	0.752	9711	B114	A99	1
D011	M019	NYD061966750	0.459	2051	B119	A49	1
D011	M141	MID072793128	0.005	2099	B119	A58	1
D011	M141	NHD095506002	0.078	2297	B119	A37	1
D011	M077	MED086875887	0.01	2621	B119	A58	1
D011	M061	MAD000844522	0.234	2677	B119	A31	1
D011	M079	NJD986638195	2.752	2752	B119	A59	1
D011	M074	NYD001391200	2.101	2819	B119	A94	1
D011	M141	NJD001317601	1.564	2834	B119	A99	1
D011	M041	MAD001439546	0.561	3511	B119	A49	1
D011	M099	MAD001439546	1.646	3511	B119	A49	1
D011	M141	NHD001085158	1.2	3569	B119	A58	1
D011	M141	MAD002084093	0.917	3612	B119	A49	1
D011	M019	NYD066075797	0.916	3643	B119	A49	1
D011	M141	MAD071705222	2.374	3663	B119	A49	1
D011	M141	MAD985268556	0.528	3663	B119	A49	1
D011	M014	MND053422762	0.163	3672	B119	A36	1
D011	M019	NYD002233039	0.022	3672	B119	A59	1
D011	M019	MAD000829986	0.229	3674	B119	A59	1
D011	M141	MAD000189068	0.126	3679	B119	A29	1
D011	M019	MAD086538394	5.546	3679	B119	A49	1
D011	M077	NYD058650102	2.55	3692	B119	A37	1
D011	M141	MAD001408517	0.017	3724	B119	A57	1
D011	M141	MED985467679	0.479	3731	B119	A37	1
D011	M141	MED048268890	0.975	3764	B119	A37	1
D011	M141	MAD001863943	0.354	3812	B119	A99	1
D011	M141	NJD986575033	0.502	3812	B119	A99	1
D011	M014	MND000293365	0.48	3845	B119	A49	1
D011	M079	NYD061956470	0.021	3861	B119	A57	1
D011	M141	MAD000846451	0.5	3861	B119	A94	1
D011	M141	MAD001199256	0.917	3911	B119	A35	1
D011	M061	NCD981861438	0.25	4911	B119	A35	1
D011	M079	NYD000730432	2.523	4911	B119	A59	1
D011	M019	NHD081257446	0.205	4911	B119	A99	1
D011	M141	NYD000706077	0.624	4931	B119	A37	1
D011	M019	NJD020381141	1.376	5043	B119	A37	1
D011	M019	NJD986627016	6.359	5043	B119	A37	1
D011	M141	NJD060792918	0.459	7334	B119	A58	1
D011	M099	MAD981203656	14.679	7379	B119	A04	1
D011	M141	NVD981578990	57.172	8062	B119	A37	1
D011	M019	LAD981592330	20.036	8062	B119	A99	1
D011	M141	MDD980829873	3.721	8221	B119	A59	1
D011	M019	MID985569516	2.85	8221	B119	A94	1
D011	M077	MID980682827	0.02	8221	B119	A94	1
D011	M141	NED000766808	0.585	8221	B119	A94	1
D011	M141	NED000766816	1.25	8221	B119	A94	1
D011	M141	NHD000790923	0.75	8221	B119	A94	1
D011	M014	MND980613822	3.747	8221	B119	A99	1
D011	M014	MNT280010414	12.956	8221	B119	A99	1
D011	M014	NMD075088252	0.88	8221	B119	A99	1
D011	M014	NMD980621197	8.509	8221	B119	A99	1
D011	M077	MID980682827	0.2	8221	B119	A99	1
D011	M019	NYD986942845	2.967	9121	B119	A37	1
D011	M141	NHD986469609	0.058	9199	B119	A99	1
D011	M141	NHD986469633	0.044	9199	B119	A99	1
D011	M049	MD3210021355	10.561	9711	B119	A01	1
D011	M132	MA7210025154	3.768	9711	B119	A49	1
D011	M141	MAD210092730	0.25	9711	B119	A59	1
D011	M129	NY0214020281	2.091	9711	B119	A72	1
D011	M041	LA9571924050	0.073	9711	B119	A99	1
D011	M129	LA9571924050	0.039	9711	B119	A99	1
D011	M141	LA9571924050	0.045	9711	B119	A99	1
D011	M019	OK4213720846	9.755	9999	B119	A72	1
D011	M099	OK6213822798	1.16	9999	B119	A72	1
D011	M041	PRD156924573	2.97	2834	B119	A35	1
D011	M141	PAD981947294	0.125	3671	B119	A59	1
D011	M999	WAD000618140	0.23	3679	B119		1
D011	M999	WAD009256819	0.06	3721	B119		1

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D011	M999	WAD980985923	0.48	3721	B119		1
D011	M141	VTD001075894	0.971	3724	B119	A05	1
D011	M041	VTD002068070	0.068	3728	B119	A94	1
D011	M014	VAD001307495	11.035	3731	B119	A49	1
D011	M077	VAD988222675	17.3	3731	B119	A49	1
D011	M141	VAD988186110	0.009	3731	B119	A94	1
D011	M014	VA2170024606	14.2	3861	B119	A72	1
D011	M999	WA8570024200	0.1	4581	B119		1
D011	M119	WVD098433394	0.584	4922	B119	A37	1
D011	M119	WVD988768495	0.625	4922	B119	A37	1
D011	M061	PRD987373636	24.032	5043	B119	A99	1
D011	M061	PRD987381068	37.083	5043	B119	A99	1
D011	M077	WID006073225	0.462	7384	B119	A89	1
D011	M141	TT9570090002	0.175	8062	B119	A99	1
D011	M141	VA8170024170	0.701	9711	B119	A49	1
D011	M141	UT3213820894	0.049	9711	B119	A58	1
D011	M141	VA6170061463	0.004	9711	B119	A58	1
D011	M019	UT5210090002	0.445	9711	B119	A59	1
D011	M141	VA6170061463	0.001	9711	B119	A94	1
D011	M099	WID988627568	0.446	9999	B119	A04	1
D011	M141	NYD987037900	3.494	8621	B119	A69	2
D011	M141	TXD980627228	0.38	9431	B198	A35	1
D011	M141	NCD097716625	12.26	2844	B201	A57	1
D011	M141	NJ0000074278	0.11	8731	B201	A94	1
D011	M141	MAD058060476	1.125	3861	B203	A94	1
D011	M061	MAD000133496	4.579	3052	B206	A40	1
D011	M061	VAD065415457	5.74	3491	B206	A29	1
D011	M019	NJD001283845	6.86	2711	B207	A37	1
D011	M141	NJD001865534	1	2834	B207	A37	1
D011	M141	NJD982716466	0.12	2834	B207	A59	1
D011	M141	NJD075481598	0.925	2911	B207	A29	1
D011	M013	NJD089216915	4.3	4931	B207	A94	1
D011	M141	NC8210020121	7.359	9711	B207	A72	1
D011	M141	UTD009094012	0.44	8221	B207	A94	1
D011	M141	VA6170061463	0.003	9711	B209	A21	1
D011	M141	VA6170061463	0	9711	B210	A49	1
D011	M061	NJD000691832	1.655	3221	B211	A06	1
D011	M041	NM6572124422	0.004	9711	B211	A58	1
D011	M141	VA6170061463	0	9711	B211	A58	1
D011	M041	PRD987373636	0.008	5043	B211	A64	2
D011	M141	VA1170024813	2.201	3731	B212	A58	1
D011	M141	RID075705780	0.95	8221	B212	A37	1
D011	M019	OKD072401045	1.549	3211	B219	A99	1
D011	M061	MSD982771420	0.699	3443	B219	A69	1
D011	M041	NCD000623165	0.413	3471	B219	A49	1
D011	M125	ORD980725592	0.17	7336	B219	A37	1
D011	M021	NYD987000759	6.962	7384	B219	A37	1
D011	M077	NYD987000759	0.677	7384	B219	A37	1
D011	M014	LAD043429182	18.77	8062	B219	A49	1
D011	M141	MO3213720979	0.018	9711	B219	A53	1
D011	M041	PAD046558037	0.057	3613	B219	A99	1
D011	M014	TX9170024708	2.4	3764	B219	A31	1
D011	M061	PRD987373768	9.05	5043	B219	A99	1
D011	M061	PRD987373792	2,260.00	5043	B219	A99	1
D011	M061	PRD987381605	13.337	5043	B219	A99	1
D011	M132	NJD002444024	0.875	3861	B302	A53	2
D011	M141	NYD987037900	5.4	8621	B302	A69	2
D011	M019	NYD010026391	0.001	2657	B307	A72	1
D011	M014	NJD986627008	0.016	2711	B307	A72	1
D011	M019	MND006173082	0.294	8731	B307	A94	1
D011	M011	NCD980843866	1.957	8734	B307	A09	1
D011	M141	NC5690308262	0.005	9999	B307	A59	1
D011	M019	WID006089668	0.095	3471	B307	A72	1
D011	M141	PAD987277308	5.4	3676	B307	A57	1
D011	M141	VTD002065597	0.457	3692	B307	A59	1
D011	M141	WID086686003	0.458	3844	B307	A57	1
D011	M019	VA8213720321	0.134	9711	B307	A72	1
D011	M014	NJD000310458	0.217	3679	B307	A08	2
D011	M019	MOD007120652	0.008	3674	B309	A55	1
D011	M125	NM9570024423	0.016	9711	B309	A55	1
D011	M129	NY4571924774	0	9711	B309	A55	1
D011	M011	VTD002065597	7.44	3692	B309	A57	1
D011	M012	VTD002065597	0.779	3692	B309	A57	1

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D011	M013	WIT560010282	2.102	3692	B309	A57	1
D011	M011	VTD002065597	1.951	3692	B309	A78	1
D011	M141	VA6170061463	0.092	9711	B309	A55	1
D011	M141	NHD990717803	0.7	2761	B310	A71	1
D011	M141	MOD007131113	0.033	2796	B310	A22	1
D011	M141	NJD001317601	0.03	2834	B310	A53	1
D011	M132	MID000724724	3	2879	B310	A59	1
D011	M011	NJD990753493	9.872	3369	B310	A72	1
D011	M141	MAD985266493	1.199	3669	B310	A49	1
D011	M019	NED035093053	36.12	3676	B310	A72	1
D011	M141	MDD003243532	0.2	3728	B310	A22	1
D011	M061	NYD002056679	0.25	3861	B310	A55	1
D011	M141	MAD001402320	0.4	3861	B310	A75	1
D011	M019	VA1170024722	0.273	9711	B310	A72	1
D011	M141	VA6170061463	0.009	9711	B310	A92	1
D011	M019	VA7210020502	0.061	9999	B310	A72	1
D011	M141	MAD990685554	0.037	3669	B310	A56	2
D011	M013	WIT560010282	3.098	3692	B310	A78	2
D011	M141	MAD001411016	0.03	3679	B315	A24	1
D011	M141	MAD980522577	0.825	2295	B316	A57	1
D011	M119	NYD002206142	0.515	2672	B316	A58	1
D011	M043	NYD986944973	0.005	2869	B316	A94	1
D011	M011	NYD002116499	1.195	3231	B316	A23	1
D011	M019	MAD001008770	0.007	3672	B316	A09	1
D011	M141	MAD001408517	0.191	3724	B316	A57	1
D011	M043	NYD980646152	0.012	3861	B316	A58	1
D011	M043	NM0890010515	0.007	9711	B316	A94	1
D011	M079	NM0890010515	0.076	9711	B316	A94	1
D011	M141	PA4170022418	0.001	3731	B316	A23	1
D011	M141	VA6170061463	0	9711	B316	A94	1
D011	M043	PR2170027203	0.025	9711	B316	A99	1
D011	M109	NYD987032588	5.067	742	B316	A69	2
D011	M077	NYD986974962	0.003	2631	B316	A58	2
D011	M111	MD3210021355	0.077	9711	B316	A01	2
D011	M014	MND982425589	1.838	2711	B319	A29	1
D011	M141	NYD095575429	20.392	2834	B319	A57	1
D011	M132	LAD040776809	1.5	2869	B319	A36	1
D011	M011	NJD002141489	1.565	2899	B319	A59	1
D011	M019	NJD986617280	0.65	3231	B319	A09	1
D011	M013	MND980616700	0.072	3483	B319	A29	1
D011	M013	NY7213820940	0.001	3489	B319	A57	1
D011	M019	MN3170022914	0.016	3489	B319	A72	1
D011	M019	MN3170022914	0.25	3489	B319	A99	1
D011	M132	NHD073984288	0.01	3641	B319	A49	1
D011	M137	NHD073984288	0.05	3641	B319	A49	1
D011	M043	NJD051406346	0.65	3652	B319	A19	1
D011	M011	MED077469864	0.749	3675	B319	A29	1
D011	M011	NHD001089465	3.147	3675	B319	A92	1
D011	M019	MND985668227	0.3	3679	B319	A49	1
D011	M141	NHD000791889	0.102	3699	B319	A56	1
D011	M141	NYD003995198	0.012	3721	B319	A59	1
D011	M141	NYD000521971	0.145	3812	B319	A35	1
D011	M141	NYD002246114	1.22	3812	B319	A35	1
D011	M141	NJD002342434	0.031	3812	B319	A58	1
D011	M019	MND980615496	0.18	3823	B319	A99	1
D011	M019	MNT280010372	0.037	3823	B319	A99	1
D011	M043	NYD980537112	0.07	3861	B319	A19	1
D011	M011	NJD064266000	0.242	3861	B319	A32	1
D011	M014	NYD045606480	0.115	3861	B319	A32	1
D011	M011	NJD064266000	30.442	3861	B319	A57	1
D011	M019	NVD981578990	0.059	8062	B319	A99	1
D011	M141	ME8170022018	0.036	9711	B319	A53	1
D011	M019	PAD004397881	0.66	2899	B319	A94	1
D011	M019	PAD098439037	1.9	3231	B319	A29	1
D011	M011	PRD980759443	0.1	3399	B319	A57	1
D011	M141	PAD002103174	0.5	3399	B319	A57	1
D011	M011	VAD046960449	1.911	3443	B319	A99	1
D011	M013	VAD000019448	17.452	3675	B319	A57	1
D011	M141	PAD021052329	0.083	3679	B319	A57	1
D011	M014	PAD021052329	0.205	3679	B319	A92	1
D011	M011	VAD023741705	0.048	3764	B319	A49	1
D011	M011	VAD981112618	0.026	3764	B319	A49	1
D011	M141	MAD001025170	0.1	3949	B319	A53	2

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D011	M999	WAD988475885	0.002	4911	B319		2
D011	M043	MID000826503	0.04	2899	B403	A94	1
D011	M019	NVD982041345	0.388	7384	B403	A55	1
D011	M019	TXD008117400	0.27	2869	B406	A94	1
D011	M141	MAD007325814	0.044	5093	B407	A59	1
D011	M141	MED058951047	0.431	3625	B409	A09	1
D011	M019	MED980913883	0.933	3675	B409	A29	1
D011	M013	NHD982200685	2.492	3676	B409	A92	1
D011	M141	NYD000632489	0.02	8062	B409	A94	1
D011	M011	VTD002065597	0.803	3692	B409	A53	1
D011	M049	WID988610028	0.023	5122	B409	A89	1
D011	M014	MAD088984380	3.5	3555	B49	A49	1
D011	M099	NYD079819090	15.655	8221	B503	A94	1
D011	M061	PRD987369741	0.359	2752	B503	A37	1
D011	M129	MED985471960	4.066	2752	B509	A72	1
D011	M019	NVD986771822	13.57	2759	B519	A27	1
D011	M019	NJD041211392	0.069	3843	B519	A38	1
D011	M019	NVD982041345	182.841	7384	B519	A37	1
D011	M019	VAD003121050	927	3231	B519	A59	1
D011	M101	VAD981941420	2.725	3999	B519	A22	3
D011	M999	WAD118965748	0.15	3679			1
D011	M999	WAD009256819	0.48	3721			1
D011	M999	WAD093639946	0.25	3728			1
D011	M999	WA2170023418	0.75	9711			1
D011	M999	WA9214053465	0.01	9711			1
D011	M999	WAD988511903	60.3	1041			2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D007D008	M999	WA1891406349	5.03	4911	B	A	1
D004D005	M141	PAD043394683	0.1	2819	B001	A58	1
D004D005D006D007D008	M141	PAD004322186	0.282	2899	B001	A94	1
D004D007	M141	PAD043394683	0.05	2819	B001	A58	1
D004D009	M141	VAD000819466	0.007	2111	B001	A94	1
D005D006D007D008D009	M043	PAD003935426	2.502	8732	B001	A59	1
D005D006D007D008D010	M141	TXD000449694	0.01	2869	B001	A58	1
D005D008	M141	RID001201508	0.075	3951	B001	A58	1
D005D011	M043	PAD002368892	0.01	2891	B001	A58	1
D006D008	M141	VA6170061463	0.014	9711	B001	A58	1
D006D008D009	M141	VAD980551782	0.058	3672	B001	A58	1
D006D009	M141	VAD000819466	0.03	2111	B001	A94	1
D007D008	M041	PAD003935426	0.116	8732	B001	A59	1
D007D008	M043	PAD003935426	0.064	8732	B001	A59	1
D007D011	M119	VAD003121928	0.002	2869	B001	A58	1
D008D009	M141	MAD086538394	0.02	3679	B001	A99	1
D008D009D011	M141	VAD000820662	0.012	2834	B001	A94	1
D008D011	M125	MIT270013709	0.053	2834	B001	A94	1
D008D011	M041	NED000325167	0.01	2873	B001	A94	1
D008D011	M041	MID005357934	0.022	3231	B001	A94	1
D008D011	M141	NHD085575520	1.45	3679	B001	A59	1
D008D011	M079	NYD002211415	0.084	3823	B001	A58	1
D008D011	M041	MED071749329	0.004	4911	B001	A57	1
D008D011	M141	MDD981105265	0.09	8734	B001	A58	1
D008D011	M049	NV1890011991	0.036	9711	B001	A58	1
D008D011	M061	PAD041731670	0.045	2816	B001	A94	1
D009D010D011	M141	NV9170022173	0	9711	B001	A57	1
D009D011	M141	MD9210020567	0.129	9199	B001	A57	1
D009D011	M141	VAD000819466	0.131	2111	B001	A94	1
D010D011	M141	NJD001495753	0.025	8734	B001	A94	1
D005D008	M141	PAD982364564	0.01	3671	B002	A57	1
D008D009	M019	MDD048581763	0.007	3669	B002	A53	1
D008D009	M043	MDD048581763	0.012	3669	B002	A53	1
D008D011	M019	NJD002342517	0.387	3669	B002	A39	1
D004D006D007D008D010	M141	VA1170024813	0.25	3731	B003	A59	1
D004D008	M043	VTD002084705	0.248	3674	B003	A59	1
D004D010	M041	PAD075511816	0.003	8221	B003	A94	1
D005D006D007D008	M071	PA4170000158	0.1	4581	B003	A21	1
D005D006D007D008	M111	PA4170000158	1.75	4581	B003	A21	1
D005D006D007D008D011	M141	PAD981947294	0.107	3671	B003	A59	1
D005D008	M141	PAD001680719	0.057	3769	B003	A94	1
D005D011	M141	PAD042250712	0.017	8221	B003	A94	1
D006D007D008D010	M141	PAD002316305	0.025	3769	B003	A94	1
D007D008	M141	PAD000441907	0.297	3728	B003	A21	1
D007D008	M141	PAD002316305	0.016	3769	B003	A94	1
D007D008	M111	PA8890031869	0.009	8733	B003	A94	1
D007D008	M141	PA8890031869	0.001	8733	B003	A94	1
D007D009	M141	PAD982364564	0.06	3671	B003	A58	1
D008D009D011	M041	NYD000689059	0.276	3861	B003	A58	1
D008D011	M141	MAD980673065	0.483	2834	B003	A94	1
D008D011	M141	MD8213822762	0.002	8733	B003	A94	1
D008D011	M141	PAD001680719	0.015	3769	B003	A94	1
D008D011	M019	RID000791061	0.25	3961	B003	A92	1
D009D011	M141	NYD085503894	0.305	2835	B003	A59	1
D004D005D006D007D008	M041	PAD004393138	0.89	8731	B004	A94	1
D007D008	M039	VA7213720082	0	9999	B004	A57	1
D010D011	M041	PAD075511816	0.031	8221	B004	A94	1
D008D009	M141	UTD980808513	1.65	3761	B009	A99	1
D008D010	M141	MID006015960	0.002	2023	B009	A94	1
D008D009	M141	UTD980806236	0.275	3764	B099	A99	1
D004D008D009D011	M079	PRD980298764	0.1	2834	B101	A94	1
D005D007D008	M051	UTD980634760	5.205	3499	B101	A06	1
D006D007	M077	PAD987322286	16.1	2851	B101	A31	1
D006D007	M082	PAD987322286	17.3	2851	B101	A31	1
D006D007D008	M141	VA6170061463	4.304	9711	B101	A21	1
D006D007D008D011	M079	VA2800005033	2.472	9661	B101	A59	1
D006D008	M141	VA1170024813	0.59	3731	B101	A99	1
D008D011	M141	NYD980647861	0.917	2711	B101	A31	1
D008D011	M141	NYD980768642	0.685	3569	B101	A35	1
D008D011	M124	NCD067185744	4.8	3575	B101	A92	1
D008D011	M141	NYD980777437	8.028	7375	B101	A04	1
D005D006D009	M041	WVD003095536	0.103	3861	B102	A94	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D005D007D008	M141	UTD009094012	0.24	8221	B102	A94	1
D006D007	M141	UT0570090001	0.075	9711	B102	A57	1
D006D007D008	M141	VA5170022482	2	9711	B102	A22	1
D007D008	M079	PAD000441907	40.711	3728	B102	A19	1
D007D008	M079	PAD000441907	22.05	3728	B102	A21	1
D007D008	M061	TXD000836437	10.2	3728	B102	A29	1
D007D009D011	M141	VTD988366167	0.22	8734	B102	A94	1
D008D009	M081	NYD070862701	0.2	3082	B102	A58	1
D008D009D010D011	M091	ME7170022019	0.122	9711	B102	A31	1
D008D009D010D011	M141	ME7170022019	0.195	9711	B102	A31	1
D008D011	M141	MD6150004095	0.04	8099	B102	A94	1
D004D006D007	M014	TXD058958265	2.23	7699	B103	A01	1
D004D006D007D008	M141	TXD058958265	2.94	7699	B103	A22	1
D004D006D007D008D010	M141	VA5170000181	0.131	3731	B103	A22	1
D004D006D007D008D010D011	M141	VA1170024813	0.333	3731	B103	A22	1
D004D006D007D008D011	M014	TXD058958265	2.26	7699	B103	A01	1
D004D006D008	M077	PAD041895566	6.667	3471	B103	A22	1
D004D007D008	M014	TXD058958265	1.24	7699	B103	A22	1
D004D007D008D010	M041	VAD990800138	8.2	3731	B103	A02	1
D005D007D008	M111	PAD000766162	0.765	2514	B103	A56	2
D006D007	M141	TX3213820738	11.68	3449	B103	A19	1
D006D007	M129	PAD981103617	0.994	3471	B103	A22	1
D006D007	M014	TXD058958265	0.23	7699	B103	A22	1
D006D007	M141	TXD058958265	0.68	7699	B103	A22	1
D006D007	M119	TT0570090001	25.848	9511	B103	A02	1
D006D007D008	M141	PA5213820892	0.447	3471	B103	A29	1
D006D007D008	M019	WY5571924179	0.026	3761	B103	A23	1
D006D007D008	M071	VAD058621996	13.25	7699	B103	A27	1
D006D007D008	M141	VA6170061463	1.336	9711	B103	A22	1
D006D007D008D011	M141	VA6170061463	0.117	9711	B103	A22	1
D006D011	M129	PAD051452878	0.5	2759	B103	A49	1
D007D008	M119	SDD006198980	0.505	3069	B103	A22	1
D007D008	M141	VA6170061463	0.514	9711	B103	A22	1
D007D009	M134	TXD008113441	1.17	2821	B103	A94	1
D008D009	M079	NYD134319664	0.415	8734	B103	A94	1
D008D010	M141	MAD001013515	4.208	3471	B103	A23	1
D010D011	M041	NJD092229079	1044.2	2761	B103	A59	1
D006D007D008	M141	RI1170024243	23.352	9711	B104	A02	1
D005D006	M141	PA3170022104	0.001	4225	B105	A58	1
D005D009	M081	PRD090413568	0.438	3841	B105	A58	1
D006D007	M137	PA6213820503	0.415	9711	B105	A22	1
D006D007D011	M141	VA1170024813	1.061	3731	B105	A58	1
D004D006D007	M122	TXD058958265	4.67	7699	B106	A01	1
D004D007	M122	TXD058958265	2.08	7699	B106	A07	1
D005D006D007D008D010D011	M141	VA6170061463	3.735	9711	B106	A22	1
D006D007	M141	VA6170061463	0.623	9711	B106	A03	1
D006D007	M079	PAD002333490	2.4	3313	B106	A89	3
D006D007D008	M141	VA1170024813	0.68	3731	B106	A03	1
D006D007D008	M014	TXD058958265	6.17	7699	B106	A22	1
D006D007D008	M141	VA6170061463	10.615	9711	B106	A03	1
D006D007D008	M141	VA6170061463	0.435	9711	B106	A19	1
D006D007D008	M141	VA6170061463	0.536	9711	B106	A92	1
D006D007D008D009	M141	VA6170061463	0.547	9711	B106	A03	1
D006D007D008D010	M141	VA5170000181	0.051	3731	B106	A01	1
D007D008	M134	TXD041128083	53.3	3471	B106	A01	1
D007D008	M077	PAD063872337	28.667	3541	B106	A06	1
D007D008	M141	VA5170000181	6.517	3731	B106	A03	1
D007D008	M091	PAD004365870	357.54	7699	B106	A03	1
D007D008	M141	PAP000005738	3.753	9999	B106	A69	2
D007D011	M079	PAD003038056	1.54	3861	B106	A27	1
D007D008	M041	VAD988224408	0.234	4011	B107	A99	1
D006D007	M061	TXD063067466	0.9	3724	B109	A01	1
D006D007D008	M141	VA6170061463	0.051	9711	B109	A22	1
D007D008	M141	TXD008135618	4.82	3471	B109	A03	1
D007D008	M141	PAD000765891	0.315	4922	B110	A05	1
D008D011	M111	OKP410139099	0.797	3444	B110	A22	1
D004D006D007D008D009D010D011	M041	PA0890090004	0.974	8731	B113	A94	1
D005D007D009	M041	PAD075485995	8.486	2821	B113	A94	1
D006D007	M141	PAD987322286	7	2851	B113	A31	1
D006D007D008	M141	PAD005000500	0.726	3613	B113	A60	1
D006D007D008	M079	VAD010070043	258.009	3724	B113	A09	1
D006D007D008D009	M129	WVD045875291	39.4	2821	B113	A09	1
D006D007D008D009	M077	RID030284293	0.229	3674	B113	A19	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D006D007D009D010D011	M041	PA0890090004	1.552	8731	B113	A99	1
D006D007D009D011	M141	VAD023741705	8.825	3764	B113	A49	1
D006D007D011	M141	VAD981112618	3.275	3764	B113	A49	1
D006D008	M141	PAD990827610	9.625	3471	B113	A23	1
D007D008	M111	PAD004335162	3.025	3312	B113	A56	1
D008D009	M032	NYD126912054	0.23	7538	B113	A99	1
D009D010	M141	NV9170022173	0.162	9711	B113	A04	1
D009D011	M091	PA0890090004	0.173	8731	B113	A94	1
D004D006	M099	PAD000800243	259.726	4922	B114	A04	1
D004D008	M141	PAD068570936	0.15	8221	B114	A56	2
D005D006D008	M079	PAD067362327	0.8	2816	B114	A75	1
D005D007D009	M041	PAD075485995	2.134	2821	B114	A94	1
D006D011	M141	PA4170022418	0.603	3731	B114	A22	1
D006D011	M141	VAD980551782	0.745	8711	B114	A09	1
D006D011	M141	TX0170099915	0.22	9711	B114	A49	1
D007D008	M077	PAD014130439	1718.36	2869	B114	A49	1
D007D008	M041	PAD004338000	1.75	3081	B114	A49	1
D007D008	M129	UT0571724350	0.029	9711	B114	A58	1
D007D008	M132	UT0571724350	0.03	9711	B114	A58	1
D007D008	M077	PAD987371440	390.538	9999	B114	A69	2
D007D008	M119	PAD987371440	3.311	9999	B114	A69	2
D007D011	M043	UT0571724350	0.325	3479	B114	A53	1
D007D011	M129	UT0571724350	0.017	3479	B114	A53	1
D007D011	M132	UT0571724350	0.395	3479	B114	A53	1
D008D009	M141	PA4170022418	0.324	3731	B114	A19	1
D008D011	M129	NJD002452324	1.147	3351	B114	A92	1
D008D011	M077	MDD005569454	0.229	3611	B114	A49	1
D008D011	M141	MED058951047	0.39	3625	B114	A35	1
D008D011	M023	NM0890010515	0.045	9711	B114	A94	1
D008D011	M041	NM0890010515	0.075	9711	B114	A94	1
D009D011	M077	NY5890008993	1.262	8731	B114	A94	1
D009D011	M141	NY6890008992	0.055	8731	B114	A94	1
D010D011	M061	OK0690540000	0.521	3799	B114	A37	1
D010D011	M099	OK0690540000	0.354	3799	B114	A37	1
D004D006D007D008	M091	PAD982704389	18.531	8731	B115	A78	1
D004D010	M137	WVD004319935	67.936	3229	B116	A	2
D004D006D007	M019	VA7213720082	0.005	9999	B117	A57	1
D004D008D009	M141	VAD000820662	0.005	2834	B117	A94	1
D006D009	M012	PAD004336145	0.02	3312	B117	A56	2
D004D005D008	M061	PAD044366003	0.391	3229	B119	A59	1
D004D005D008	M141	PAD044366003	0.782	3229	B119	A59	1
D004D006D007	M141	PAD002352102	12.26	3566	B119	A59	1
D004D006D007D008D010D011	M999	WA2170023418	0.48	9711	B119		1
D004D007D008	M041	VAD065385296	1.45	2869	B119	A59	1
D004D008	M111	PA8890031869	0.34	8733	B119	A69	1
D004D010	M141	VA1170024813	0.238	3731	B119	A58	1
D004D010	M137	PAD079184099	23.912	4922	B119	A59	2
D005D006D007D008	M041	PRD980759443	1.8	3399	B119	A58	1
D005D006D008	M999	WA7890008967	0.11	9999	B119		1
D005D008	M999	WA2170023418	0.34	9711	B119		1
D006D007	M061	TXT490014552	3.19	3498	B119	A75	1
D006D007	M041	WV0170023691	4.625	3764	B119	A29	1
D006D007	M141	WV0170023691	9.83	3764	B119	A29	1
D006D007	M999	WA8570024200	0.04	4581	B119		2
D006D007D008	M129	PA4170022418	3.685	3731	B119	A01	1
D006D007D008	M141	PA4170022418	4.566	3731	B119	A01	1
D006D007D008	M999	WA2170023418	0.18	9711	B119		1
D006D007D008	M999	WA9170023361	0.18	9711	B119		2
D006D007D008D011	M999	WA2170023418	40.78	9711	B119		1
D006D007D011	M014	UTD009081357	107.518	3761	B119	A35	1
D006D008	M999	WAD009256819	0.76	3721	B119		1
D006D008	M999	WA2170023418	0.16	9711	B119		1
D006D008D011	M141	TXD007365984	4.36	3721	B119	A99	1
D006D009	M999	WA5170027291	0.05	9711	B119		1
D006D011	M129	TX0170099915	0.11	9711	B119	A49	1
D007D008	M041	PAD098439037	0.1	3231	B119	A29	1
D007D008	M141	VTD001075894	1.555	3724	B119	A59	1
D007D008	M999	WAD061670766	10.24	3728	B119		1
D007D008	M141	PAD003047974	0.815	3728	B119	A99	1
D007D008	M141	VAD988186110	0.013	3731	B119	A58	1
D007D008	M999	WAD081487753	8.61	2298	B119		2
D007D008D009	M061	TXD037952884	1.58	7699	B119	A01	1
D007D009	M132	VA4570024477	0.35	9199	B119	A53	2

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D007D010	M141	PAD042094938	3.3	3229	B119	A22	1
D007D011	M999	WAD061670766	7.35	3728	B119		1
D008D009	M077	MIT270010598	0.135	8221	B119	A94	1
D008D009	M111	PAD004498010	0.75	3312	B119	A21	1
D009D011	M077	MIT270010598	0.01	8221	B119	A94	1
D009D011	M019	MA7210025154	0.03	9711	B119	A49	1
D009D011	M019	MT8571924556	0.026	9711	B119	A99	1
D010D011	M129	MOD000687392	0.252	4911	B119	A99	1
			4852.762				
D005D007D008D009	M132	TXD051376143	20	2851	B201	A04	1
D006D007D008	M141	TX2571724333	7.9	9711	B201	A01	1
D007D011	M041	UT9210020922	0.007	9711	B201	A58	1
D005D007D008D010	M061	TXD006287015	1.77	3812	B202	A07	1
D005D007D008D010	M141	TXD006287015	1.41	3812	B202	A07	1
D006D007	M141	VA6170061463	0.239	9711	B202	A29	1
D006D007D008	M085	TX0571924042	0.17	3728	B202	A01	1
D006D007D008	M137	TX0571924042	0.16	3728	B202	A01	1
D006D007	M141	PAD045877628	0.018	3827	B203	A19	1
D008D009	M061	NYD096297544	21.55	2821	B203	A09	1
D006D007D008	M029	PAD981104326	0.617	4111	B204	A05	1
D006D007D008	M141	VA6170061463	4.84	9711	B204	A01	1
D006D008	M021	PAD075988071	0.042	3089	B204	A05	1
D006D008	M111	PAD002375376	44.5	3312	B204	A99	1
D006D008	M029	PAD002375376	1.6	3479	B204	A19	1
D005D007D008	M039	RID001620210	0.688	3471	B205	A29	1
D005D008	M129	VA6170061463	0.44	9711	B205	A54	1
D006D007D008	M061	PAD987278496	36.412	3714	B205	A06	1
D006D007D008	M141	TX2571724333	1.48	9711	B205	A03	1
D006D007D008	M061	TX2571724333	3.51	9711	B205	A29	1
D006D007D008D011	M141	TXD000633982	0.06	8221	B205	A19	1
D006D008	M099	PAD005031737	160.939	3463	B205	A40	1
D006D008	M141	PA5213820892	0.152	3599	B205	A53	2
D007D008	M023	PAD002346674	51.991	3356	B205	A92	1
D007D008	M061	PRD090193277	10	3451	B205	A51	1
D007D008	M077	PAD002273845	113.107	3494	B205	A49	1
D007D008	M061	VAD000820654	0.228	4011	B205	A21	1
D004D005D006D007D008D009D010D	M041	TXD056263528	21.21	2812	B206	A54	1
D004D006D007D008D010	M131	VA1170024813	0.51	3731	B206	A54	1
D004D006D007D008D010	M141	VA1170024813	0.51	3731	B206	A54	1
D004D007D008	M141	TXD008117186	3.3	4953	B206	A54	1
D004D008	M111	PAD000766063	1.2	3312	B206	A57	1
D005D006D007D008D009D010D011	M137	PA0890090004	3.278	8731	B206	A51	2
D005D006D007D008D010	M061	PAD001127331	11.168	3944	B206	A40	1
D005D006D007D008D010	M041	PA6213820503	0.032	9711	B206	A54	1
D005D006D007D008D010	M061	PA6213820503	84.356	9711	B206	A54	1
D005D006D007D008D010	M111	PA6213820503	0.628	9711	B206	A54	1
D005D006D008	M141	PAD002334753	2.4	2821	B206	A54	2
D005D007	M061	PAD065651671	30.44	3317	B206	A54	1
D006D007D008	M051	TXD062866637	21.45	3086	B206	A51	1
D006D007D008	M141	PAD039437801	1.266	3479	B206	A54	1
D006D007D008	M141	VA8170024170	1.096	9711	B206	A54	1
D006D007D008D009	M141	VTP000004193	1.901	5511	B206	A93	1
D006D008	M061	PAD096262522	18.5	3354	B206	A51	1
D006D008	M061	PAD003031903	0.917	3559	B206	A58	1
D006D008	M061	TXD048916357	0.2	3672	B206	A25	1
D006D008	M061	TXD007321904	26.92	3674	B206	A54	1
D006D008	M141	TXD007321904	3.92	3674	B206	A54	1
D006D008D009	M041	PAD060689130	2.154	3535	B206	A53	1
D006D008D010	M141	PA5213820892	0.141	3599	B206	A53	2
D007D008D011	M141	VA6170061463	0.002	9711	B206	A54	1
D008D009	M061	NCD981861438	16.69	4911	B206	A57	1
D008D009	M141	VA5170022482	0.815	9711	B206	A54	1
D008D010	M061	NJD002459485	0.591	3496	B206	A19	1
D008D011	M039	NJD002452324	0.688	3351	B206	A54	1
D004D006D007D008D011	M019	WY5571924179	0.021	3761	B207	A60	1
D004D007	M061	VAD046991097	2.064	2824	B207	A78	1
D004D007	M061	PR2170027203	2.715	9711	B207	A65	2
D005D006D007D008D011	M141	PAD005000500	4.063	3613	B207	A29	1
D006D007D008	M141	TX2571724333	0.47	9711	B207	A19	1
D006D008D009	M061	UT0571724350	1.744	9711	B207	A59	1
D006D008D009	M132	UT0571724350	1.023	9711	B207	A59	1
D009D011	M099	MID050615996	0.229	3711	B207	A37	1
D006D008	M111	PAD060682622	47.414	3229	B208	A99	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D006D008	M132	PAD060682622	22.73	3229	B208	A99	1
D004D005D006D008D009	M141	RID001201508	2.293	3951	B209	A57	1
D004D005D006D008D009	M141	RID001201508	0.786	3951	B209	A58	1
D005D007D008	M141	PAD043583848	0.225	7699	B209	A58	1
D005D007D009	M043	PA4170000158	0.152	4581	B209	A21	1
D006D007	M061	PAD002343630	0.247	3714	B209	A21	1
D006D007	M141	VA5170000181	2.18	3731	B209	A21	1
D006D008	M141	PAD003403953	1.45	8221	B209	A21	1
D007D008	M043	PAD042622787	1.063	3466	B209	A29	1
D007D008	M125	VAD066003161	36.551	3713	B209	A38	1
D007D008	M019	WY5571924179	0.004	3761	B209	A21	1
D007D008	M141	VA1213720815	0.012	9711	B209	A21	1
D006D007	M141	VA1170024813	1.342	3731	B210	A29	1
D006D007D008	M141	TX3213820738	7.09	3489	B211	A21	1
D006D007D010	M061	PAD041731670	2.545	2816	B211	A09	1
D007D008	M141	VA3211220931	0.507	2851	B211	A21	1
D007D008D011	M051	VA6170061463	30.314	9711	B211	A21	1
D004D006D007D009D010	M061	PAD086681392	3.65	4789	B219	A19	1
D005D007D008	M041	TXD988073698	0.8	4512	B219	A01	1
D006D007	M141	VA6170061463	0.793	9711	B219	A19	1
D006D007D008	M083	PAD000436261	7	2869	B219	A57	1
D006D007D008D011	M141	VA6170061463	0.162	9711	B219	A19	1
D006D007D010D011	M032	VA0210002002	1.176	9711	B219	A37	1
D006D008	M029	PAD004326542	0.24	3229	B219	A04	1
D006D008	M132	PAD002124386	23.8	3641	B219	A92	1
D006D008	M999	WA7890008967	0.22	9999	B219		1
D006D008D010	M141	PA5213820892	0.09	7549	B219	A54	1
D007D008	M041	VTD001086149	1.826	3541	B219	A09	1
D007D008	M132	VTD001086149	2.054	3541	B219	A09	1
D007D008	M061	VAD000820654	1.907	4011	B219	A21	1
D008D009	M111	NJD002175313	2.2	2834	B219	A58	1
D008D009	M129	MO8571924549	0.52	9711	B219	A89	1
D008D009	M141	MO8571924549	0.26	9711	B219	A89	1
D008D009	M141	PAD002316305	0.115	3769	B219	A99	1
D008D009D010	M061	MID981194269	12.25	2821	B219	A57	1
D008D010	M061	ME7170022019	0.442	9711	B219	A57	1
D008D010	M141	ME7170022019	0.47	9711	B219	A57	1
D008D011	M019	MA2170022022	0.125	7384	B262	A09	1
			969.447				
D004D007	M111	VAD005027560	2.025	2491	B301	A92	1
D006D008	M141	VA1170024813	0.67	3731	B301	A29	1
D007D008	M119	VAD046979498	7.26	2754	B301	A69	1
D007D008D011	M043	PAD981045602	4.051	8734	B301	A94	1
D008D009	M132	NJD002173946	77.54	2892	B301	A69	2
D004D005D008	M132	VAD001807031	77.21	3229	B302	A09	1
D004D005D008	M141	VAD001807031	65.172	3229	B302	A09	1
D004D006D008	M132	UTD000826446	3014.134	3331	B302	A59	2
D004D006D008D010	M132	UTD000826446	222.68	3331	B302	A53	2
D004D007	M077	PAD987390010	91.3	2491	B302	A69	2
D004D007D008D010	M141	TXD007399637	0.4	2911	B302	A53	2
D004D008D009	M119	VA2800005033	18.747	9661	B302	A53	2
D005D006D007D008	M132	PRD980644470	3.622	4911	B302	A53	2
D005D008	M111	PAD042094938	62.31	3229	B302	A69	1
D006D007D008	M132	VAD003175262	262.28	2869	B302	A69	1
D006D007D008	M129	SD2571924644	0.128	9711	B302	A21	1
D006D007D008	M111	PAD004344222	118	3315	B302	A69	2
D006D008	M061	VA4690590019	5.7	4581	B302	A19	1
D006D008	M112	PAD044366003	1080.3	3229	B302	A69	2
D006D008	M111	PAD002279149	7.725	3679	B302	A69	2
D006D008	M141	UT5210090002	0.135	9711	B302	A53	2
D007D008	M111	PAD002330116	148.88	2653	B302	A69	1
D007D008	M141	VA3211220931	1.868	2851	B302	A21	1
D007D008	M129	SD2571924644	53.436	9711	B302	A21	1
D007D008	M141	TXD007399637	0.4	2911	B302	A53	2
D007D008	M111	PAD987371440	175.6	9999	B302	A69	2
D007D008D010	M132	VAD988213146	269.25	3441	B302	A69	2
D007D008D010	M132	VAD988218038	20.144	3441	B302	A69	2
D007D008D011	M132	PAD097876965	35.25	3625	B302	A69	2
D008D009	M141	MS6210809871	0.5	9199	B302	A94	3
D008D010	M132	PAP000006016	4668	9999	B302	A61	2
D010D011	M132	TXD087491973	330.34	3331	B302	A53	2
D004D006D007D008	M132	TXD008106999	3	2865	B303	A09	1
D004D006D007D008	M111	PAD002292068	5.51	2869	B303	A19	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D004D006D007D008D010	M111	WVD045875291	23	2821	B303	A74	3
D005D006D007D008	M043	PAD002387926	0.125	2834	B303	A49	1
D005D006D008	M141	UT3213820894	11.789	9711	B303	A08	2
D005D007	M111	PAD096844311	0.426	3489	B303	A93	2
D006D007D008	M043	PAD077883346	5.075	2869	B303	A09	1
D006D007D008	M011	PAD074997677	141	3291	B303	A78	1
D006D007D008	M019	PAD074997677	315	3291	B303	A78	1
D006D008	M137	TXD096445069	0.5	3711	B303	A49	1
D006D008	M141	UT3213820894	1.126	9711	B303	A55	1
D006D008D010	M132	PAD087562278	18.9	8811	B303	A78	1
D004D006D008	M132	UTD000826446	4661.71	3331	B304	A78	1
D004D006D008	M132	UTD000826446	11497.446	3331	B304	A59	2
D004D007D008	M132	TXD007327547	18.88	3221	B304	A09	1
D004D007D010	M043	WVD004319935	1.85	3229	B304	A09	1
D004D008	M111	PAD043891530	107.07	3229	B304	A39	1
D004D008	M132	PAD043891530	101.1	3229	B304	A39	1
D004D008D010	M013	PAD043891530	32.3	3229	B304	A78	1
D004D008D010	M111	PAD043891530	268.15	3229	B304	A78	1
D004D010	M141	VA1170024813	0.305	3731	B304	A59	1
D005D007D008	M141	RID051507044	0.75	3499	B304	A74	1
D005D008	M141	PAD051129757	0.1	3069	B304	A59	1
D005D008	M111	PAD042094938	5	3229	B304	A59	1
D006D007D008	M111	TXD008097487	28.47	2819	B304	A49	1
D006D008	M011	PAD002517381	41.676	3321	B304	A78	1
D006D008	M011	VAD000820506	1725.7	3321	B304	A78	1
D006D008	M011	VAD000820514	988.7	3321	B304	A78	1
D006D008	M011	VAD981730930	22.45	3321	B304	A78	1
D006D008	M111	VAD981730930	11.527	3321	B304	A78	1
D006D008	M039	PAD001737899	365.8	3322	B304	A78	1
D006D008	M111	PAD001737899	602.4	3322	B304	A78	1
D006D008	M111	PAD021444153	139	3325	B304	A78	1
D006D008	M112	PAD150726826	23.7	3325	B304	A78	1
D006D008	M111	PAD002289387	276	3499	B304	A78	1
D006D008D011	M132	UTD980960702	5.93	3339	B304	A49	1
D007D010	M111	TXD043802826	664.4	3229	B304	A78	1
D008D009	M111	MIT270010598	0.1	8221	B304	A71	1
D008D011	M013	MND980996805	44.323	3471	B304	A72	1
D008D011	M013	MND980996805	3.187	3471	B304	A78	3
D006D008	M141	PAD003025830	3.158	3369	B305	A78	1
D006D007D008	M132	VAD098442148	8.45	3549	B306	A76	1
D006D007D008D010	M111	PAD990752099	28.87	3471	B306	A22	1
D006D008D010D011	M132	UTD980960702	208.865	3339	B306	A49	1
D007D008	M119	TXD000719377	32	3471	B306	A75	1
D004D005D006D007D008D009D010D	M141	TX4890110527	8.59	3489	B307	A08	1
D004D006D007D008	M141	PAD096837356	0.212	3721	B307	A92	1
D004D006D008	M132	PAD004330965	4.525	3511	B307	A56	2
D004D008	M141	PAD068570936	1.15	8221	B307	A56	2
D005D006D007D008	M011	PAD980918866	2.427	4111	B307	A29	1
D005D007	M043	VAD003132545	0.2	3625	B307	A09	1
D006D007	M141	VA5170000181	38.44	3731	B307	A29	1
D006D007	M071	TX8571524091	3.27	4581	B307	A01	1
D006D007	M111	TX8571524091	0.17	4581	B307	A01	1
D006D007	M132	TX8571524091	0.58	4581	B307	A01	1
D006D007	M132	PA6213820503	1.199	9711	B307	A56	2
D006D007D008	M109	TXD008091712	5.72	3334	B307	A59	1
D006D007D008	M141	VA5170000181	0.387	3731	B307	A29	1
D006D008	M132	PAD987332897	388.25	2816	B307	A69	1
D006D008	M109	PAD003023371	2.503	3315	B307	A25	1
D006D008	M061	TXD007323371	2.06	3411	B307	A35	1
D006D008	M137	VAD054039961	44.822	3714	B307	A40	1
D006D008	M141	PAD003053709	0.075	3724	B307	A08	1
D006D008	M141	VA5170000181	0.227	3731	B307	A29	1
D006D008	M132	TT0570090001	0.166	9511	B307	A74	2
D006D008D010	M141	RID987475373	56.88	5093	B307	A72	3
D006D009	M141	TXD007321904	0.18	3674	B307	A56	1
D006D009	M019	VA2800005033	0.033	9661	B307	A94	1
D007D008	M132	VTD001086149	2.511	3541	B307	A38	1
D007D008	M111	PAD003031903	68.3	3554	B307	A29	1
D007D008	M141	VA5170000181	0.21	3731	B307	A29	1
D007D008	M111	PAD001680719	0.015	3769	B307	A99	1
D007D008	M111	PAD005029582	50.6	5047	B307	A40	1
D007D008	M043	VAD000731232	0.626	5171	B307	A08	1
D008D009	M141	MND000685610	0.28	3089	B307	A58	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008D009	M141	MND000685628	0.26	3089	B307	A58	1
D008D011	M011	NJD001289610	133	3339	B307	A40	1
D008D011	M011	NYD092465509	0.854	3676	B307	A29	1
D008D011	M141	NHD982200685	0.789	3676	B307	A38	1
D008D011	M013	NJD002342434	0.359	3812	B307	A40	1
D008D011	M141	NJD002342434	0.343	3812	B307	A40	1
D008D011	M061	PAD987270998	8.729	3679	B307	A99	1
D009D011	M141	NY4571924451	0.037	9711	B307	A57	1
D009D011	M014	ME9570024522	0.001	9711	B307	A58	1
D009D011	M141	ME8170022018	0.003	9711	B307	A99	1
D009D011	M141	MI0571924760	0.004	9999	B307	A94	1
D009D011	M141	VA6170061463	0.002	9711	B307	A94	1
D006D007	M141	PA5213820892	0.409	3471	B308	A59	1
D006D008	M111	PAD060682622	40.935	3229	B308	A56	2
D007D008	M043	VAD980554539	2.9	2851	B308	A59	1
D007D008	M053	VAD980554539	0.8	2851	B308	A59	1
D009D011	M141	NM6572124422	0.016	9711	B308	A49	1
D004D008	M132	PAD003026531	1.24	3312	B309	A59	1
D005D007	M132	UT0571724350	0.099	9711	B309	A55	1
D005D007	M141	RI1170024243	0.104	9711	B309	A55	1
D005D007	M141	UT3213820894	0.163	9711	B309	A55	1
D005D007	M111	UT9210020922	0	9711	B309	A58	1
D006D007D008	M141	UT3213820894	1.307	9711	B309	A55	1
D006D007D009	M141	PA4170022418	0.448	3731	B309	A55	1
D006D008	M011	TX8571524091	0.35	4581	B309	A55	1
D006D008	M041	TX8571524091	0.07	4581	B309	A55	1
D006D008	M019	PA0890090004	0.22	8731	B309	A55	1
D006D008D009D011	M141	UTD009081357	28.701	3761	B309	A55	1
D007D008	M039	WYD073419517	4.108	1221	B309	A55	1
D007D008	M141	WYD073419517	0.97	1221	B309	A55	1
D008D009	M019	MND981089790	0.286	2731	B309	A55	1
D008D009	M132	NCD003162542	0.075	3334	B309	A55	1
D008D009	M141	NYD980789218	0.2	3695	B309	A55	1
D008D009	M132	NYD980592497	7.265	3861	B309	A55	1
D008D009	M141	NYD000809327	2.81	3861	B309	A55	1
D008D009	M141	NYD980790083	0.32	3861	B309	A55	1
D009D011	M012	VTD002065597	2.619	3692	B309	A78	1
D004D005D006D007D008D009	M141	TXD007321904	4.64	3674	B310	A19	1
D004D007	M043	VAD046991097	0.459	2824	B310	A78	1
D005D006D007D008	M111	PRD980759443	0.5	3399	B310	A71	1
D005D006D007D008	M043	PRD980759443	0.4	3399	B310	A78	1
D005D007D008	M043	PAD005031281	0.237	3069	B310	A21	1
D006D007	M111	PAD002360485	8.89	3713	B310	A21	1
D006D007	M141	VTD001075894	0.08	3724	B310	A55	1
D006D007	M132	TX7170022787	2.52	3728	B310	A32	1
D006D007	M141	VA6170061463	0.454	9711	B310	A21	1
D006D007	M043	PA6213820503	0.065	9711	B310	A55	1
D006D007	M061	PA6213820503	0.12	9711	B310	A55	1
D006D007	M111	PA6213820503	8.205	9711	B310	A55	1
D006D007	M132	PA6213820503	115.885	9711	B310	A55	1
D006D007	M141	VA6170061463	0.353	9711	B310	A53	2
D006D007D008	M043	PAD004336319	25.7	2851	B310	A32	1
D006D007D008	M053	PAD004336319	4	2851	B310	A32	1
D006D007D008	M041	PAD074967639	4.3	2851	B310	A94	1
D006D007D008	M111	PAD005028105	6.188	3321	B310	A21	1
D006D007D008	M141	PA5213820892	0.396	3449	B310	A78	1
D006D007D008	M141	TXD007365984	7.5	3721	B310	A21	1
D006D007D008	M141	TX2571724333	5.79	9711	B310	A55	1
D006D007D008	M141	TX2571724333	5.78	9711	B310	A71	1
D006D007D008	M141	VA6170061463	0.157	9711	B310	A71	1
D006D007D008D010	M061	PAD001127331	0.157	3944	B310	A92	1
D006D008	M132	PAD004372363	122.4	3339	B310	A32	1
D006D008	M141	PAD003025830	0.18	3369	B310	A78	1
D006D008	M043	PAD003053709	0.2	3724	B310	A55	1
D006D008	M043	PAD003053709	0.083	3724	B310	A53	2
D006D008	M141	PAD003053709	0.145	3724	B310	A53	2
D006D008D009D010	M111	PAD004326542	6.12	3229	B310	A75	1
D006D008D010D011	M141	PA3170022104	0.086	4225	B310	A55	1
D006D010	M111	PAD987393196	20.82	4911	B310	A71	1
D006D010	M132	PAD987393196	20.31	4911	B310	A71	1
D006D010	M043	PAD007909427	0.781	4911	B310	A78	1
D006D010	M132	PAD007909427	2.48	4911	B310	A78	1
D007D008	M141	VA3211220931	0.142	2851	B310	A21	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D007D008	M041	PAD000650366	0.4	2851	B310	A94	1
D007D008	M141	UTD033513631	1.75	3471	B310	A21	1
D007D008	M132	PAD003027182	6.825	3585	B310	A21	1
D007D008	M043	TXD039045968	0.71	3721	B310	A71	1
D007D008	M061	TXD039045968	2.75	3721	B310	A71	1
D007D008	M141	PAD045877628	1.6	3827	B310	A21	1
D007D008	M061	VA6170061463	0.129	9711	B310	A21	1
D007D008	M141	VA6170061463	3.519	9711	B310	A21	1
D007D008	M141	VA6170061463	0.032	9711	B310	A22	1
D007D008	M141	RID001201508	0.08	3951	B310	A53	2
D007D008	M111	WVD981740319	4.4	4011	B310	A53	2
D007D008	M141	WVD981740319	0.2	4011	B310	A53	2
D007D008D010	M061	TXD000719948	1.95	3533	B310	A55	1
D007D010	M141	VA6170061463	0.024	9711	B310	A53	1
D007D011	M043	PR2170027203	0.025	9711	B310	A99	1
D008D009	M132	LAD008161234	1.87	2819	B310	A32	1
D008D011	M043	MND006147268	2.125	3679	B310	A32	1
D008D011	M141	PAD987277308	1.95	3676	B310	A29	1
D008D011	M141	NCD980845044	4.75	3674	B310	A53	2
D007D011	M043	PR2170027203	0.032	9711	B311	A91	1
D009D010D011	M141	NV9170022173	0.425	9711	B315	A57	1
D004D005D006D007D008D009	M111	TXD008079642	0.78	2821	B316	A33	1
D004D005D006D007D008D009	M132	TXD008079642	0.78	2821	B316	A33	1
D004D005D006D007D008D009	M141	TXD008079642	0.78	2821	B316	A33	1
D004D006D007D008	M043	PRD090490285	0.85	3221	B316	A59	1
D004D009	M111	WVD004325353	4.86	2869	B316	A35	1
D005D006D007D008	M043	VAD980554539	0.5	2851	B316	A78	1
D005D006D008	M014	TXD067256172	191.45	2819	B316	A32	1
D005D006D008	M111	TXD067256172	19.75	2819	B316	A32	1
D005D006D008	M132	TXD067256172	19.75	2819	B316	A32	1
D005D007	M141	PAD003003068	18.734	3541	B316	A25	1
D006D007	M071	PAD990827610	0.5	3471	B316	A22	1
D006D007D008	M111	PAD004336319	20.3	2851	B316	A78	1
D006D007D008	M141	VA6170061463	0.036	9711	B316	A22	1
D006D007D008D009D010	M111	WVD088911854	14.421	2821	B316	A57	1
D006D007D008D011	M141	TXD000821264	2.07	8001	B316	A59	1
D006D011	M019	PAD987360047	2.552	3499	B316	A72	3
D007D008	M111	PAD005031281	0.43	3069	B316	A02	1
D007D008	M112	WVD000797480	0.393	3423	B316	A22	1
D007D008D009D010	M141	VA6170061463	0.102	9711	B316	A58	1
D008D009	M043	MIT270013709	0.032	2834	B316	A94	1
D008D009	M111	MID985568021	0.044	4789	B316	A94	1
D008D009	M111	MIT270010598	0.49	8221	B316	A94	1
D008D009	M039	NYD982277295	0.078	9711	B316	A99	1
D008D009D011	M023	NM0890010515	0.754	9711	B316	A94	1
D008D009D011	M111	NM0890010515	0.25	9711	B316	A94	1
D008D010	M043	NM0890010515	0.011	9711	B316	A94	1
D008D011	M141	MAD007325814	0.169	5093	B316	A59	1
D008D011	M043	NM0890010515	0.001	9711	B316	A94	1
D008D011	M141	RID980669253	9.975	3471	B316	A59	2
D009D011	M043	MS2570024164	0.022	8021	B316	A99	1
D009D011	M141	MS2570024164	0.004	8021	B316	A99	1
D004D005D006D007D008	M999	WA2170023418	0.72	9711	B319		1
D004D005D006D007D008	M999	WA7890008967	0.03	9999	B319		1
D004D005D006D007D008D009	M999	WA2170023418	281.74	9711	B319		2
D004D005D006D007D008D009D010D	M043	UTD991301748	33.72	9511	B319	A91	1
D004D005D006D007D008D009D011	M141	VA6170061463	0.018	9711	B319	A94	1
D004D005D006D007D008D010	M999	WA2170023418	0.11	9711	B319		1
D004D005D006D007D009	M041	PAD982674863	0.109	4512	B319	A53	1
D004D005D007D008D009	M111	VAD001307495	0.6	3731	B319	A53	1
D004D005D007D008D010	M111	PAD043891530	38.457	3229	B319	A92	1
D004D005D008	M111	PAD043891530	2013.45	3229	B319	A59	1
D004D005D008	M111	PAD044366003	120	3229	B319	A92	1
D004D006	M132	TXD000836486	9.65	2879	B319	A49	1
D004D006D007D008	M111	PAD004336277	69.17	3221	B319	A09	2
D004D006D007D008D009	M999	WA2170023418	31.89	9711	B319		1
D004D006D007D008D009	M999	WA2170023418	20.7	9711	B319		2
D004D006D007D008D010	M111	WVD005004528	2.8	3221	B319	A09	1
D004D006D008	M132	UTD000826446	132.52	3331	B319	A59	2
D004D006D008D010	M132	UTD000826446	350.04	3331	B319	A36	1
D004D006D008D010	M132	UTD000826412	93.97	3331	B319	A56	2
D004D006D008D010	M132	UTD000826446	60.64	3331	B319	A59	2
D004D007D008	M999	WA2170023418	40.94	9711	B319		1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D004D007D008D009D011	M132	PAD981036551	0.15	3829	B319	A57	1
D004D007D008D009D011	M132	PAD004322913	0.2	3842	B319	A57	1
D004D007D008D010	M111	VAD063424857	15.93	3731	B319	A29	1
D004D008	M011	RID001198605	13.965	3229	B319	A57	1
D004D008	M141	RID001198605	0.5	3229	B319	A57	1
D004D008	M011	RID001198605	87.755	3229	B319	A78	1
D004D008	M111	PAD004332300	3.2	3229	B319	A78	1
D004D008	M141	RID001198605	0.25	3229	B319	A91	1
D004D008	M013	PAD004332300	24.1	3229	B319	A92	1
D004D008	M111	PAD004332300	32.4	3229	B319	A92	1
D004D008	M132	PAD068570936	4.99	8221	B319	A56	2
D004D008	M141	PAD068570936	0.05	8221	B319	A56	2
D004D009	M141	PAD003403953	14.17	8221	B319	A94	1
D004D010	M061	PAD981111735	0.25	2813	B319	A35	1
D004D010	M141	PAD981111735	3.5	2813	B319	A35	1
D004D010	M132	VAD050990357	47.8	2911	B319	A36	1
D004D010	M125	PA3210090053	0.014	9199	B319	A57	1
D005D006	M111	PAD003044609	0.104	2819	B319	A32	1
D005D006	M119	PAD003044609	0.11	2819	B319	A32	1
D005D006	M061	VAD003062742	0.4	3081	B319	A57	1
D005D006D007	M129	SD2571924644	1.176	9711	B319	A21	1
D005D006D007D008	M132	PRD980759443	2	3399	B319	A49	1
D005D006D007D008	M011	PRD980759443	0.046	3399	B319	A56	1
D005D006D007D008	M043	PRD980759443	0.038	3399	B319	A56	1
D005D006D007D008	M111	PRD980759443	0.119	3399	B319	A56	1
D005D006D007D008	M111	PRD980759443	4.2	3399	B319	A57	1
D005D006D007D008	M111	PRD980759443	10.7	3399	B319	A75	1
D005D006D007D008	M043	PRD980759443	2.6	3399	B319	A91	1
D005D006D007D008	M043	PAD096837356	1	3721	B319	A01	1
D005D006D007D008	M061	PAD096837356	52.7	3721	B319	A01	1
D005D006D007D008D009	M132	PAD987360062	4.9	7622	B319	A57	1
D005D006D007D008D009D011	M141	PAD002316305	0.096	3769	B319	A99	1
D005D006D007D008D011	M111	PAD004397881	38.868	2899	B319	A58	1
D005D006D007D008D011	M011	PRD980759443	0.7	3399	B319	A94	1
D005D006D007D010	M043	WVD980552202	4.02	8999	B319	A02	1
D005D006D008	M043	PAD067362327	6.79	2816	B319	A91	1
D005D006D008	M111	PAD003044609	75.708	2819	B319	A78	1
D005D006D008D011	M999	WAD009276197	0.01	2911	B319		2
D005D007	M141	PAD120529177	15	3263	B319	A58	1
D005D007	M999	WA9214053465	0.14	9711	B319		1
D005D007D008	M041	PAD041399403	0.329	2819	B319	A92	1
D005D007D008	M043	PAD004336368	4.568	3231	B319	A21	1
D005D007D008	M109	RID051507044	0.55	3499	B319	A56	1
D005D007D008	M141	TXD008089096	0.5	3999	B319	A22	1
D005D007D008	M999	WA2170023418	1.17	9711	B319		1
D005D007D008D009	M132	TXD000835157	724.38	3412	B319	A19	1
D005D008	M111	PAD043891530	70.744	3229	B319	A57	1
D005D008	M019	PAD980554570	1.458	3496	B319	A22	1
D005D008	M111	PAD043817444	278.813	3624	B319	A89	1
D005D008	M141	PAD982364564	0.37	3671	B319	A57	1
D006D007	M077	TXD102585858	23.2	3354	B319	A21	1
D006D007	M111	TXD102585858	6.2	3354	B319	A21	1
D006D007	M141	PA5213820892	0.471	3471	B319	A53	1
D006D007	M132	TXD007365984	21.96	3721	B319	A01	1
D006D007	M132	TXD010472272	0.61	4512	B319	A19	1
D006D007	M132	VAD058621996	4.737	7699	B319	A21	1
D006D007	M132	VA4570024477	0.45	9199	B319	A29	1
D006D007	M999	WA2170023418	1.23	9711	B319		1
D006D007	M141	UT3213820894	129.598	9711	B319	A19	1
D006D007	M141	VA6170061463	0.146	9711	B319	A29	1
D006D007	M999	WAD044589935	325.68	3221	B319		2
D006D007	M999	WAD009244864	18.37	3471	B319		2
D006D007D008	M111	PAD041731670	31.614	2816	B319	A57	1
D006D007D008	M111	PAD041731670	13.423	2816	B319	A92	1
D006D007D008	M111	PAD041731670	6.51	2816	B319	A94	1
D006D007D008	M111	PAD003044609	20.038	2819	B319	A59	1
D006D007D008	M132	PAD071445423	0.604	2851	B319	A58	1
D006D007D008	M053	TXD050859503	3	2851	B319	A78	1
D006D007D008	M043	PAD005031281	9.404	3069	B319	A19	1
D006D007D008	M141	PAD002324978	1	3316	B319	A29	1
D006D007D008	M132	UTD041075896	8	3441	B319	A26	1
D006D007D008	M141	PA5213820892	17.409	3449	B319	A08	1
D006D007D008	M119	PAD004316832	0.4	3471	B319	A22	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D006D007D008	M129	UT0571724350	48.766	3479	B319	A29	1
D006D007D008	M132	UT0571724350	200.041	3479	B319	A29	1
D006D007D008	M141	PA4170022418	29.536	3731	B319	A08	1
D006D007D008	M141	PA4170022418	14.111	3731	B319	A21	1
D006D007D008	M141	PAD069777290	1.2	8731	B319	A94	1
D006D007D008	M999	WA2170023418	20.81	9711	B319		1
D006D007D008	M111	PA6213820503	31.719	9711	B319	A08	1
D006D007D008	M132	TX2571724333	12.2	9711	B319	A08	1
D006D007D008	M141	PA6213820503	0.964	9711	B319	A08	1
D006D007D008	M141	TX2571724333	134.88	9711	B319	A08	1
D006D007D008	M141	VA6170061463	0.246	9711	B319	A29	1
D006D007D008	M132	PAD002334753	6.93	2821	B319	A93	2
D006D007D008	M129	PAD002347003	0.845	3253	B319	A69	2
D006D007D008	M141	PAD096266499	1.98	3322	B319	A99	2
D006D007D008	M132	TT0570090001	0.092	9511	B319	A91	2
D006D007D008D009D010	M132	WYD000776435	5.32	3341	B319	A57	1
D006D007D008D010	M043	PRD980759443	0.004	3399	B319	A94	1
D006D007D008D010	M052	PAD071473425	0.254	3714	B319	A60	1
D006D007D008D010	M999	WAD009262171	35.99	3721	B319		2
D006D007D008D011	M132	UTD041075896	7.52	3441	B319	A26	1
D006D007D010	M043	VAD023690183	0.094	2824	B319	A92	1
D006D007D010	M141	VA1170024813	28.777	3731	B319	A29	1
D006D008	M112	PAD041731670	13.313	2816	B319	A56	1
D006D008	M132	PAD041731670	21.854	2816	B319	A56	1
D006D008	M011	PAD981112113	40.521	2819	B319	A32	1
D006D008	M111	PAD981112113	16.05	2819	B319	A32	1
D006D008	M132	PAD002334753	129.84	2821	B319	A93	1
D006D008	M999	WAD027530526	46.9	2879	B319		1
D006D008	M111	PAD002347003	7.5	3253	B319	A76	1
D006D008	M111	PAD004379061	154.76	3312	B319	A29	1
D006D008	M112	PAD096266499	19.5	3322	B319	A89	1
D006D008	M111	PAD004372363	264.8	3339	B319	A32	1
D006D008	M132	PAD004372363	1071.6	3339	B319	A32	1
D006D008	M132	PAD990753089	140	3341	B319	A59	1
D006D008	M111	PAD086733540	92.6	3351	B319	A40	1
D006D008	M011	PAD004335485	10.62	3366	B319	A40	1
D006D008	M014	PAD004335485	24.365	3366	B319	A40	1
D006D008	M011	PAD004341558	11.337	3366	B319	A78	1
D006D008	M112	VAD003444379	3.89	3366	B319	A78	1
D006D008	M111	PRD980759443	1.3	3399	B319	A56	1
D006D008	M132	PRD980759443	1.5	3399	B319	A56	1
D006D008	M011	PRD980759443	0.2	3399	B319	A57	1
D006D008	M129	PAD987271921	2.024	3429	B319	A29	1
D006D008	M141	VAD988221917	4.602	3449	B319	A21	1
D006D008	M111	RID059735944	2.1	3471	B319	A29	1
D006D008	M111	TXD008092306	47.95	3491	B319	A39	1
D006D008	M111	PAD069600633	195	3714	B319	A78	1
D006D008	M141	PAD003053709	23	3724	B319	A29	1
D006D008	M043	PAD003053709	0.201	3724	B319	A91	1
D006D008	M043	PAD003053709	0.117	3724	B319	A92	1
D006D008	M111	VAD990800138	5.425	3731	B319	A29	1
D006D008	M111	TXD007340797	1.7	3827	B319	A56	1
D006D008	M999	WAD053814091	0.06	3999	B319		1
D006D008	M132	TXD000837351	0.75	4911	B319	A21	1
D006D008	M132	TXD000837393	0.75	4911	B319	A21	1
D006D008	M132	TXD097311849	68.95	4911	B319	A21	1
D006D008	M043	PA0890090004	0.1	8731	B319	A59	1
D006D008	M132	VA4570024477	0.025	9199	B319	A29	1
D006D008	M999	WA2170023418	0.09	9711	B319		1
D006D008	M111	VAD988228359	0.05	9711	B319	A19	1
D006D008	M141	UT3213820894	0.28	9711	B319	A56	1
D006D008	M111	VA8170024170	8.2	9711	B319	A91	1
D006D008	M999	WAD053814091	0.39	3999	B319		2
D006D008	M999	WAD988466942	2.8	6552	B319		2
D006D008D009	M999	WA7890008967	0.19	9999	B319		1
D006D008D009D010	M111	PAD060682622	192.8	3229	B319	A78	1
D006D008D009D011	M141	UTD980806236	0.275	3764	B319	A99	1
D006D009	M141	TXD061555611	0.34	3573	B319	A99	1
D006D009	M141	TXD088996186	0.46	3573	B319	A99	1
D006D009	M012	VTD002084705	6.64	3674	B319	A99	1
D006D009	M141	TXD008073926	0.97	3674	B319	A99	1
D006D009	M132	RID063900690	2.825	3731	B319	A58	1
D006D009	M999	WA7890008967	0.01	9999	B319		1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D006D010	M043	WVD045875291	5.6	2821	B319	A09	1
D006D010	M999	WAD000618140	0.2	3679	B319		1
D007D008	M141	TXD008089096	0.5	2819	B319	A02	1
D007D008	M043	PAD041399403	1.15	2819	B319	A92	1
D007D008	M111	PAD041399403	3.448	2819	B319	A92	1
D007D008	M111	PAD014130439	44.62	2869	B319	A32	1
D007D008	M141	TXD008084618	0.03	2899	B319	A91	1
D007D008	M111	TXD051161990	95.6	2911	B319	A08	1
D007D008	M132	TXD051161990	95.6	2911	B319	A08	1
D007D008	M132	TXD990797714	29	2911	B319	A29	1
D007D008	M041	PAD004338000	0.45	3081	B319	A78	1
D007D008	M043	PAD098439037	1.1	3231	B319	A29	1
D007D008	M061	PAD098439037	0.2	3231	B319	A29	1
D007D008	M132	PAD990824161	0.733	3312	B319	A53	1
D007D008	M043	VAD003259561	4.2	3471	B319	A22	1
D007D008	M141	VTD000649780	0.075	3484	B319	A29	1
D007D008	M119	VAD044736726	9.8	3612	B319	A21	1
D007D008	M109	PAD001882372	0.6	3672	B319	A78	1
D007D008	M141	PAD096837356	0.105	3721	B319	A59	1
D007D008	M141	VTD001075894	17.824	3724	B319	A59	1
D007D008	M141	VTP000004426	4	9621	B319	A08	1
D007D008	M141	PAD981741150	4	9621	B319	A29	1
D007D008	M999	WA2170023418	0.3	9711	B319		1
D007D008	M141	VA6170061463	3.187	9711	B319	A22	1
D007D008	M141	TX7170022787	0.77	9711	B319	A99	1
D007D008	M999	WA7890008967	0.037	9999	B319		1
D007D008	M141	VAD990710899	1	3663	B319	A56	2
D007D008	M141	VTD001075894	4.073	3724	B319	A59	2
D007D008	M132	PAD002316305	149.89	3769	B319	A69	2
D007D008	M141	PAD002316305	15.4	3769	B319	A69	2
D007D008	M137	PA0890090004	0.034	8731	B319	A08	2
D007D008	M999	WA9214053465	0.05	9711	B319		2
D007D008D009	M999	WA7890008967	0.03	9999	B319		1
D007D008D010	M132	TXD980809909	40.35	2869	B319	A29	1
D007D008D011	M043	PAD003038056	0.18	3861	B319	A57	1
D007D009	M043	PA4170022418	0.109	3731	B319	A99	1
D007D009	M129	VA0572890002	0.178	9711	B319	A55	1
D007D009	M999	WA7890008967	0.34	9999	B319		1
D007D010	M043	PAD005031281	3.965	3069	B319	A35	1
D007D011	M141	VA6170061463	0.083	9711	B319	A58	1
D007D011	M999	WA7890008967	0.09	9999	B319		1
D008D009	M019	MND000823997	2.893	1011	B319	A59	1
D008D009	M012	MSD008159717	0.976	2621	B319	A99	1
D008D009	M141	MND006172902	0.45	2672	B319	A59	1
D008D009	M141	MND000824029	7	2672	B319	A99	1
D008D009	M141	NJD002520484	0.288	2672	B319	A99	1
D008D009	M141	NYD002127124	0.13	2821	B319	A99	1
D008D009	M043	MSD054179403	0.71	2911	B319	A99	1
D008D009	M141	MOD057894321	2.219	3081	B319	A59	1
D008D009	M039	MID980614267	0.1	3291	B319	A99	1
D008D009	M141	MND056073299	0.447	3291	B319	A99	1
D008D009	M132	NYD002232304	4.1	3355	B319	A92	1
D008D009	M019	MND006166409	0.012	3366	B319	A99	1
D008D009	M132	NYD071474639	1.654	3465	B319	A56	1
D008D009	M141	NYD002206480	0.317	3499	B319	A57	1
D008D009	M111	NCD079044426	1.87	3641	B319	A59	1
D008D009	M141	MAD080031180	9.75	3641	B319	A89	1
D008D009	M141	MND079723979	1.774	3643	B319	A99	1
D008D009	M132	MOD054950670	0.63	3679	B319	A99	1
D008D009	M141	MND006172902	0.24	3695	B319	A59	1
D008D009	M141	MND980898019	0.688	3695	B319	A92	1
D008D009	M043	MND078680790	0.246	3714	B319	A99	1
D008D009	M111	MID005358783	0.381	3714	B319	A99	1
D008D009	M132	NYD980592497	62.949	3861	B319	A55	1
D008D009	M141	NYD045606480	0.444	3861	B319	A89	1
D008D009	M041	NJD052441664	0.26	4225	B319	A57	1
D008D009	M019	MND006963508	0.867	4512	B319	A99	1
D008D009	M043	MDD981115132	0.103	4911	B319	A99	1
D008D009	M141	MID980682827	46.07	8221	B319	A99	1
D008D009	M111	MID000809756	3.75	8744	B319	A93	1
D008D009	M141	ME8170022018	0.114	9711	B319	A53	1
D008D009	M141	PAD000766170	0.519	2672	B319	A99	1
D008D009	M043	PAD041399403	19.551	2819	B319	A78	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008D009	M111	TXD008091712	1.95	3334	B319	A99	1
D008D009	M141	UTD009081357	14.528	3761	B319	A99	1
D008D009	M032	SDD078668696	1.737	3842	B319	A99	1
D008D009	M043	WVD003095536	0.615	3861	B319	A59	1
D008D009	M012	PAD000797712	1.255	4911	B319	A57	1
D008D009	M141	PAD000797712	1.2	4911	B319	A57	1
D008D009	M012	PAD004393138	2.175	8731	B319	A94	1
D008D009	M999	WA7890008967	0.03	9999	B319		1
D008D009	M132	MOD043937895	0.393	2891	B319	A59	2
D008D009	M043	OKD062267448	0.767	3695	B319	A59	2
D008D009	M137	PA0890090004	0.026	8731	B319	A56	2
D008D009D011	M141	NJD000768051	22.135	2676	B319	A69	2
D008D010	M111	MID005357504	0.112	3369	B319	A60	1
D008D010	M119	NCD980841951	10.669	3548	B319	A92	1
D008D010	M141	NHD046312559	0.292	3672	B319	A38	1
D008D010	M141	NE8571924648	0.07	9711	B319	A99	1
D008D010	M111	PAD990753089	76.5	3341	B319	A99	2
D008D011	M019	MOD057894321	0.12	3081	B319	A59	1
D008D011	M013	MID005357934	1.44	3231	B319	A29	1
D008D011	M141	MND056073299	0.025	3291	B319	A99	1
D008D011	M141	MND079723979	1.15	3643	B319	A57	1
D008D011	M141	MAD000846501	2.375	3674	B319	A57	1
D008D011	M043	NYD002038586	0.6	3679	B319	A29	1
D008D011	M141	NYD002038586	0.3	3679	B319	A29	1
D008D011	M043	NDD084497775	0.109	3695	B319	A59	1
D008D011	M011	NCD980843866	1.164	8734	B319	A09	1
D008D011	M111	PRD980759443	0.6	3399	B319	A57	1
D008D011	M013	VAD000019448	32.333	3675	B319	A57	1
D008D011	M011	VAD982573248	1.335	3675	B319	A99	1
D008D011	M043	OKD062267448	0.359	3695	B319	A59	2
D009D011	M141	MS6210809871	0.002	9199	B319	A94	3
D004D006D007D008	M014	TXD981145766	40.3	3672	B391	A72	1
			44567.947				
D004D007D008D011	M053	VA5170022482	0.34	9711	B403	A21	1
D004D007D008D011	M061	VA6170061463	5.797	9711	B403	A21	1
D005D006	M141	VA5170022482	0.725	9711	B403	A21	1
D005D006D007D008	M041	PAD000650366	11.2	2851	B403	A94	1
D005D006D007D008	M111	PAD063752430	18.8	9999	B403	A69	2
D005D006D007D008D011	M061	VA6170061463	5.52	9711	B403	A21	1
D005D006D010	M043	PAD002292068	2.025	2821	B403	A92	1
D005D007D008	M041	PAD074967639	5	2851	B403	A94	1
D005D007D008D011	M061	VA6170061463	49.37	9711	B403	A21	1
D006D007	M125	VTD005826821	4.565	3697	B403	A01	1
D006D007	M141	VA5170022482	0.45	9711	B403	A21	1
D006D007D008	M111	PA0000065193	0.35	3713	B403	A21	1
D006D007D008	M061	VAD001307495	21.76	3731	B403	A21	1
D006D007D008	M141	VAD084141902	5.4	3949	B403	A21	1
D007D008	M119	PAD982566804	2	3441	B403	A01	1
D007D008	M141	VA6170061463	7.679	9711	B403	A21	1
D007D011	M141	VAD005007679	0.2	2823	B403	A37	1
D007D011	M031	PRD090383860	1.8	3613	B403	A72	1
D008D011	M043	NYD001527829	0.003	3663	B403	A49	1
D004D007	M043	PAD002327708	3.825	3674	B404	A78	1
D004D007	M141	PAD002327708	2.774	3674	B404	A78	1
D007D011	M141	UT3213820894	3.15	9711	B404	A58	1
D006D007	M141	PAD987322286	2.9	2851	B406	A59	1
D006D008	M061	PAD041731670	1.398	2816	B406	A49	1
D007D008	M141	VA3211220931	2.067	3679	B406	A41	1
D005D007D008	M111	PAD001643691	1.7	3751	B407	A93	1
D006D007	M141	VA5170000181	8.81	3731	B407	A21	1
D006D007	M141	VA5170000181	0.127	3731	B407	A29	1
D006D007D008	M061	VA6170061463	0.024	9711	B407	A08	1
D006D007D008	M141	VA6170061463	41.668	9711	B407	A08	1
D006D007D008	M141	VA6170061463	39.5	9711	B407	A21	1
D004D005D006D007D008D010	M043	VAD063424857	1.1	3731	B409	A21	1
D004D005D006D007D008D010	M043	VAD990800138	10.2	3731	B409	A21	1
D004D006D007D008D009D010	M999	WAD001865450	588.8	7699	B409		2
D004D007D008	M141	PAD002316305	0.838	3769	B409	A99	1
D004D007D010	M132	WYD048743009	43.3	2911	B409	A49	1
D005D006D007	M141	UT3213820894	0.39	9711	B409	A55	1
D005D006D007D008	M111	PAD069020691	0.723	2851	B409	A58	1
D005D006D007D008	M141	UT3213820894	5.838	9711	B409	A55	1
D005D006D007D008D011	M043	TX0170099915	0.68	9711	B409	A21	1

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D005D006D007D008D011	M129	TX0170099915	1.54	9711	B409	A21	1
D005D006D007D008D011	M141	TX0170099915	1.39	9711	B409	A21	1
D005D007D008	M041	UTD009094012	0.002	8221	B409	A94	1
D005D007D008	M141	UTD009094012	0.327	8221	B409	A94	1
D005D007D009	M041	PAD075485995	2.46	2821	B409	A94	1
D006D007D008	M119	PAD004328886	3.869	2816	B409	A57	1
D006D007D008	M141	TXD093511996	1.62	3231	B409	A99	1
D006D007D008	M111	PAD002360485	4.65	3713	B409	A21	1
D006D007D008	M043	PR2170027203	2.921	9711	B409	A09	1
D006D007D008D010D011	M141	RID001805670	1.052	2865	B409	A57	1
D006D008	M111	PAD003046794	19.313	3229	B409	A21	1
D006D008	M043	PAD003053709	0.082	3724	B409	A92	1
D006D011	M014	PAD987345675	672.351	3341	B409	A89	1
D007D008	M119	WVD000797480	3.514	3423	B409	A21	1
D007D008	M141	VTD055731038	0.25	3423	B409	A21	1
D007D008	M137	VTD001086149	0.228	3541	B409	A08	1
D007D008	M141	TXD048916357	0.36	3571	B409	A91	1
D007D008	M141	PAD002316305	0.978	3769	B409	A99	1
D007D008	M042	UTD988079042	0.2	4225	B409	A69	1
D007D008	M061	VA6170061463	0.884	9711	B409	A21	1
D007D008	M061	VA6170061463	0.244	9711	B409	A58	1
D007D008D010	M119	UT5210090002	0.589	9711	B409	A21	1
D008D009	M111	NYD070862701	0.8	3082	B409	A58	1
D008D009	M141	NC2750890004	0.52	9199	B409	A94	1
D008D009	M141	PAD002316305	21	3769	B409	A99	1
D008D009D011	M141	PA8213820642	0.304	4225	B409	A59	1
D008D011	M013	MND980996805	2.665	3471	B409	A92	1
D008D011	M141	MAD001061001	0.225	3679	B409	A49	1
D008D011	M043	WVD003095536	0.028	3861	B409	A59	1
D009D011	M021	VTD002065597	0.41	3692	B409	A53	1
D009D011	M141	VA6170061463	0.055	9711	B409	A58	1
D004D007D008	M141	TXD008117186	1.37	4953	B489	A54	1
D006D008D010	M043	TXD988073698	0.1	4512	B489	A21	1
D007D008	M061	TXD047823265	5.4	2819	B489	A38	1
D005D006D007D008	M129	TX0170099915	1.26	9711	B490	A29	1
D005D006D007D008	M141	TX0170099915	0.26	9711	B490	A29	1
D006D007	M111	TXD988042404	9.41	4512	B490	A29	1
D006D007	M019	TX3571924643	2.41	4581	B490	A01	1
D006D007	M043	TX3571924643	4.26	4581	B490	A01	1
D006D007D008	M141	TX3213820738	301.49	3444	B490	A29	1
D006D007D008	M141	TX3213820738	20.02	3449	B490	A29	1
			1993.607				
D007D008	M109	PAD098214174	554.406	3463	B502	A26	1
D007D008	M109	PAD003002581	35.55	3479	B502	A38	1
D006D007D008	M141	PAD003037934	0.15	3592	B503	A59	1
D005D006	M119	VTD039697347	148.574	3999	B504	A29	1
D005D006D007	M042	UT0571724350	0.195	9711	B504	A76	1
D006D007D008D011	M141	VAD046964748	0.25	3585	B504	A75	3
D006D008	M109	RID000652354	2.975	3961	B504	A76	1
D006D008	M112	PAD000430686	306.12	4953	B504	A74	1
D007D008	M042	TXD083558486	21.57	2833	B504	A75	1
D007D008	M141	VTD055731038	3.382	3423	B504	A21	1
D008D009	M141	NJD002144517	15.99	2851	B504	A75	1
D008D011	M141	MAD001060698	0.114	3679	B504	A29	1
D009D010	M141	MAD000649707	1.261	3812	B504	A04	3
D004D006D008D010	M077	TXD048772610	8.3	3432	B505	A22	1
D006D007	M141	PA4170022418	0.094	3731	B505	A22	1
D006D007	M071	VA6170061463	0.1	9711	B505	A64	1
D006D007D008	M141	VA6170061463	0.1	9711	B505	A38	1
D007D008	M119	UTD047109269	0.225	3471	B505	A22	1
D007D008	M141	RID001201508	1.628	3951	B505	A92	1
D008D011	M141	RID980669253	1.455	3471	B505	A59	2
D004D005D007	M141	PAD002515955	28.075	3324	B509	A03	1
D005D007D008	M129	PAD981104326	1.043	4111	B510	A19	1
D006D008	M124	VAD054039961	0.77	3714	B510	A60	1
D006D008	M141	UT3213820894	8.825	9711	B510	A38	1
D007D008	M079	PAD038966966	1.125	3532	B510	A21	1
D004D006D007	M141	VTD001075894	1.925	3724	B511	A60	1
D006D007D008	M111	PAD041731670	54.804	2816	B511	A78	1
D006D008	M111	PAD063874606	239.09	3321	B511	A78	1
D004D005	M141	RID001201508	0.241	3951	B513	A59	2
D006D008	M011	PAD004372363	1916.7	3339	B513	A76	2
D006D008	M132	PAD004372363	1090.6	3339	B513	A76	2

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Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D008D009	M042	MD3210021355	3.125	9711	B513	A01	2
D004D006D008D010	M141	TXD006287015	3.18	3812	B519	A29	1
D005D006	M061	PAD000504746	0.225	3081	B519	A38	1
D005D006D007D008	M111	PRD980759443	8.5	3399	B519	A60	1
D006D007	M042	VAD003259561	0.15	3728	B519	A38	1
D006D007	M081	RID000001750	1.491	3829	B519	A60	1
D006D007	M129	SD2571924644	0.379	9711	B519	A73	3
D006D007D008	M141	VAD046964748	0.4	3585	B519	A06	3
D006D008	M111	RID072216583	0.482	3471	B519	A29	1
D006D008	M999	WA9170023361	0.42	9711	B519		2
D006D008D009D010	M141	VA8170024170	0.001	9711	B519	A38	1
D006D010	M077	PAD980917975	1.16	3674	B519	A27	1
D007D008	M109	VAD003132438	0.468	3577	B519	A29	1
D007D008	M119	VAD085125466	5.8	5169	B519	A38	1
D007D008D009	M043	PAD049672389	0.543	4922	B519	A60	1
D008D010	M132	OR0000048413	60.137	8221	B519	A69	2
D008D011	M141	MAD001061001	0.029	3679	B519	A49	1
			4532.127				
D007D008	M061	TXD988053591	4.89	5015	B602	A06	1
D007D008	M061	TXD988053591	0.1	5015	B602	A55	1
D004D005D006D008D010	M061	PAD001127331	2.405	3944	B603	A40	1
D005D006D008	M141	PAD000504746	1.658	3081	B603	A60	1
D006D007	M061	TXD007505233	3.02	3714	B603	A19	1
D006D007D008	M141	PA4170022418	7.269	3731	B603	A38	1
D006D007D008	M109	VA5170022938	1.141	9711	B603	A60	1
D006D007D008	M141	VA5170022938	0.135	9711	B603	A60	1
D006D008	M061	PAD004372363	11.7	3339	B603	A99	1
D007D008	M061	PAD074999863	5.888	2992	B603	A56	1
D007D008	M141	VTD002068856	1.485	3491	B603	A54	1
D008D009D011	M141	NJD000768051	75.246	2676	B603	A60	2
D006D007	M061	VA6170061463	0.072	9711	B604	A21	1
D006D007D008	M132	TXD007365984	1.25	3721	B604	A60	1
D006D008	M111	PAD004336350	7.4	3231	B604	A21	1
D007D008	M111	PAD043889740	12	3449	B604	A21	1
D007D008	M141	VA1170024813	2.79	3731	B604	A60	1
D007D008	M042	UTD035348325	1.371	7699	B604	A21	1
D007D008	M061	VA6170061463	0.043	9711	B604	A21	1
D008D009	M051	NYD096297544	1.029	2821	B606	A09	1
D006D007D008	M111	TX7170022787	10.46	4952	B607	A75	1
D006D007D008	M141	PA5213820892	0.091	3537	B609	A06	1
D008D009	M111	ORD093481646	0.401	5171	B609	A60	2
			151.844				
D004D005D006D007D008	M999	WA2170023418	2.32	9711			1
D004D005D006D007D008	M999	WA9214053465	0.39	9711			1
D004D005D006D007D008D009	M999	WA2170023418	1.37	9711			1
D004D005D006D007D008D009	M999	WA2170023418	10.54	9711			2
D004D005D006D007D008D010	M999	WA2170023418	0.15	9711			1
D004D005D006D007D008D011	M999	WA2170023418	0.16	9711			1
D004D005D007D008D010	M999	WA2170023418	0.04	9711			1
D004D006D007D008D009	M999	WAD009253246	82.19	2812			2
D004D006D007D008D009	M999	WA2170023418	951.78	9711			2
D004D006D007D008D010	M999	WA5170027291	4.48	9711			1
D004D007D008	M999	WA2170023418	0.05	9711			1
D005D006D007	M999	WA2170023418	0.07	9711			1
D005D006D007D008	M999	WA2170023418	1.63	9711			1
D005D006D007D008	M999	WA5170027291	1.09	9711			1
D005D006D007D008D011	M999	WAD009256819	0.56	3721			1
D005D007	M999	WAD009250820	0.002	2611			2
D005D007D008D010	M999	WAD009249392	0.05	3812			1
D005D008D010	M999	WAD009249392	0.17	3812			1
D006D007D008	M999	WA1891406349	1.17	4911			1
D006D007D008	M999	WAD027470111	0.92	5085			1
D006D007D008	M999	WA2170023418	2.72	9711			1
D006D007D008	M999	WA9214053465	0.24	9711			1
D006D007D008D009D010	M999	WAD008958548	15	2879			2
D006D007D008D011	M999	WA2170023418	1.27	9711			1
D006D008D010	M999	WA2170023418	0.23	9711			1
D006D010	M999	WA7890008967	0.6	9999			1
D007D008	M999	WAD009249392	0.05	3812			1
D007D008	M999	WA2170023418	3.19	9711			1
D007D008	M999	WA5170027291	0.01	9711			1
D007D008	M999	WA7890008967	0.13	9999			1
D007D008	M999	WAD988476115	0.23	1629			2

1993 BRS Data (GM Form) - TC Metal Wastes (Mixtures) Managed Off-site

Waste Code	System Type	EPA ID	Volume (tons)	SIC Code	Form Code	Source Code	Origin Code
D007D008	M999	WAD988466942	0.38	6552			2
D007D008	M999	WAD988519070	27.4	9999			2
D007D008D009	M999	WAD048440424	0.008	3679			2
D007D008D009D010	M999	WAD988466942	0.38	6552			2
D007D009	M999	WAD988476115	0.58	1629			2
D007D009	M999	WAD008957961	0.005	5169			2
D007D010	M999	WAD009249392	0.03	3812			1
D007D011	M999	WA2170023418	0.38	9711			1
D008D009	M999	WAD988466942	0.2	6552			2
D008D011	M999	WA7890008967	0.003	9999			1

APPENDIX E

MERCURY RECOVERY SERVICES, INC.

700 Fifth Ave., New Brighton, PA 15066 Phone: 412-843-5000 Fax: 412-843-5353

April 19, 1996

MRS

Mr. Paul Borst (5307)
USEPA
Office of Solid Waste
401 M Street SW
Washington, DC 20460

Dear Mr. Borst:

With reference to our telephone conversation of this date, this will confirm that:

1. Mercury Recovery Services (MRS) has a cost-effective, commercially-proven mobile process for the removal and recovery of mercury from mercury-contaminated soil and industrial wastes.

2. The MRS Process has been successfully used to remove and recover mercury from more than 6,000 tons of mercury-contaminated soil excavated from over 5,000 metering sites along the natural gas pipeline system in New Mexico. During this project, (a) the total mercury content of the incoming soil was 500-2,000 ppm, (b) the total mercury content of the soil after processing was 1 ppm, or less, (c) all TCLP readings on the processed material were below detection limits, (d) approximately 4,200 pounds of 99% pure mercury were recovered and sold to mercury refiners, (e) all processed soil was utilized as fill with the approval of the New Mexico regulators, and (f) MRS' nominal 12-ton/day mobile unit, which is mounted upon two over-the-road trailers, operated 24-hours/day, seven days/week, for 18 months with downtime of less than 0.5% and no lost-time accidents.

3. Due to lack of demand from natural gas pipeline companies, the above 12-ton/day mobile unit has been moved to a metals smelter where it will treat intermediate process streams beginning in May, 1996.

4. MRS is currently building a smaller 4-ton/day mobile processing unit (mounted on a single over-the-road trailer) which is scheduled to begin commercial operation in the United Kingdom in June, 1996.

5. MRS has recently entered into an agreement whereby a modular fixed-site processing unit will be installed at a TSD facility in the Midwest sometime during the Fall of 1996. This unit is intended to take in volumes of soil and waste that are too small to justify

6. MRS' modular equipment design provides a cost-effective method of handling jobs of any size .... i.e., from the 4-ton/day operation referred to above, to a 76-ton/day operation recently quoted by MRS for clean-up of a large mercury-contaminated site. Facilities having capacities greater than 76 tons/day are economically and operationally viable.

7. In addition to the above commercial operations, the efficacy of the MRS Process to treat chlor-alkali, fluorescent bulb, battery, industrial carbons, mercury catalysts, and low-level mixed radioactive wastes has been proven in numerous pilot-scale treatability studies.

Based upon the above experience and proven commercial capability of the MRS Process, MRS is willing to prudently expand its commercial mobile and fixed-site mercury removal/recovery capacity in response to market demand and, based upon past experience, is anxious to process natural gas pipeline metering site soils.

Additional details regarding the MRS Mercury Removal/Recovery Process are contained in the enclosed brochure, newsletter, technical paper, and month-by-month summary of results obtained when treating natural gas metering site pipeline soils. As you will note, the MRS Process:

- consistently reduces the mercury content of the treated material to less than one part per million (<1 ppm) regardless of the level of mercury in the contaminated waste,
- produces a 99% pure metallic mercury suitable for direct refining to high purity metal,
- recovers mercury from compounds such as mercury oxide, mercury chloride, mercury sulfide, and mercury sulfate,
- prevents the sulfur and/or chlorine from entering the process exhaust,
- operates without generating any secondary gaseous, liquid, or solid waste,
- produces a gaseous effluent that meets all clean air and OSHA standards,
- efficiently processes materials having high moisture contents, and
- effectively utilizes "double-containment" for added worker and environmental safety.

The MRS Mercury Removal/Recovery Process (a) has been designated as Best Demonstrated Available Technology (BDAT) for the treatment of mercury-contaminated materials by the U.S.Environmental Protection Agency; (b) has been classified as "Recycling" by the EPA and

regulatory agencies in several states, thereby simplifying permitting; and (c) based upon its low emission rate and absence of secondary wastes, MRS' commercial unit was exempt from air and solid waste permitting requirements by the State of New Mexico.

The MRS Mercury Removal/Recovery Process was accorded an R&D 100 Award and named by R&D magazine as one of the most technologically significant new products in 1994. The company and the technology were also featured in a special supplement to Forbes Magazine listing the 25 top new environmental companies to watch.

I trust that the information presented above and in the attachments is responsive to your request. If you have any questions or require additional information, please call or fax.

Sincerely,



William F. Sutton
President

WFS/bjd
Enclosures

APPENDIX F

PRIOR TREATMENT(PT) BASELINE AND OPTIONS

		PT Baseline			Option 1 (PT)			Option 2 (PT)			Option 3 (PT)			Option 4 (PT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
	Chlorinator wet air pollution control sludge	-	85	320	-	106	400	-	90	340	-	90	340	-	85	320
	Hydrolysis filtrate	-	106	400	-	106	400	-	106	400	-	106	400	-	106	400
	Leach residues	-	5	10	-	5	10	-	5	10	-	5	10	-	5	10
	Spent acid/leachate	-	935	3,400	-	1,100	4,000	-	935	3,400	-	935	3,400	-	880	3,200
	Waste still liquor	-	106	400	-	106	400	-	106	400	-	106	400	-	106	400
Lead	Acid plant sludge	-	1,058	2,115	-	7,050	14,100	-	7,050	14,100	-	1,763	3,525	-	1,058	2,115
	Baghouse incinerator ash	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000
	Slurried APC Dust	-	-	-	6,900	6,900	6,900	6,900	6,900	6,900	-	-	-	-	-	-
	Solid residues	-	29	59	-	195	390	-	195	390	-	49	98	-	29	59
	Spent furnace brick	-	-	-	990	990	990	990	990	990	-	-	-	-	-	-
	Stockpiled miscellaneous plant waste	340	74,800	153,000	400	88,000	180,000	400	88,000	180,000	340	74,800	153,000	320	70,400	144,000
	WWTP liquid effluent	-	-	-	-	1,760,000	3,520,000	-	1,760,000	3,520,000	-	-	-	-	-	-
	WWTP sludges/solids	-	-	-	380,000	380,000	380,000	380,000	380,000	380,000	-	-	-	-	-	-
Magnesium and Magnesia from Brines	Cast house dust	-	57	1,140	-	247	4,940	-	95	1,900	-	95	1,900	-	57	1,140
	Smut	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000
Mercury	Dust	-	4	7	-	4	7	-	4	7	-	4	7	-	4	7
	Quench water	-	9,625	105,000	-	38,500	420,000	-	38,500	420,000	-	9,825	105,000	-	5,775	63,000
	Furnace residue	-	39	77	-	39	77	-	39	77	-	39	77	-	39	77
Molybdenum, Ferromolybdenum, and Ammonium Molybdate	Flue dust/gases	-	126,500	495,000	-	126,500	495,000	-	126,500	495,000	-	126,500	495,000	-	126,500	495,000
	Liquid residues	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
Platinum Group Metals	Slag	-	3	68	-	15	293	-	6	113	-	6	113	-	3	68
	Spent acids	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000
	Spent solvents	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000
Pyrobitumens, Mineral Waxes, and Natural Asphalts	Still bottoms	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000
	Waste catalysts	-	1,250	5,000	-	3,250	13,000	-	1,250	5,000	-	1,250	5,000	-	750	3,000
Rare Earths	Spent ammonium nitrate processing solution	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
	Electrolytic cell caustic wet APC sludge	-	-	-	-	105	2,100	-	-	-	-	-	-	-	-	-
	Process wastewater	5,950	5,950	5,950	7,000	7,000	7,000	7,000	7,000	7,000	5,950	5,950	5,950	5,600	5,600	5,600
	Spent scrubber liquor	-	200,000	800,000	-	250,000	1,000,000	-	250,000	1,000,000	-	212,500	850,000	-	200,000	800,000
	Solvent extraction crud	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500
	Wastewater from caustic wet APC	-	200,000	800,000	-	250,000	1,000,000	-	250,000	1,000,000	-	212,500	850,000	-	200,000	800,000
Rhenium	Spent barren scrubber liquor	-	8	30	-	50	200	-	50	200	-	13	50	-	8	30
	Spent rhenium raffinate	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000
Scandium	Spent acids	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000
	Spent solvents from solvent extraction	-	490	1,750	-	1,274	4,550	-	490	1,750	-	490	1,750	-	294	1,050

PRIOR TREATMENT(PT) BASELINE AND OPTIONS

		PT Baseline			Option 1 (PT)			Option 2 (PT)			Option 3 (PT)			Option 4 (PT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
Alumina and Aluminum	Cast house dust	2,864	2,864	2,884	12,409	12,409	12,409	4,773	4,773	4,773	4,773	4,773	4,773	2,864	2,884	2,864
	Electrolysis waste	-	4,313	8,625	-	18,688	37,375	-	7,188	14,375	-	7,188	14,375	-	4,313	8,625
Antimony	Autoclave filtrate	-	11,475	45,900	-	13,500	54,000	-	11,475	45,900	-	11,475	45,900	-	10,800	43,200
	Stripped anolyte solids	-	-	-	-	29	57	-	-	-	-	-	-	-	-	-
	Slag and furnace residue	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000
Beryllium	Chip treatment wastewater	-	42,500	1,700,000	-	50,000	2,000,000	-	42,500	1,700,000	-	42,500	1,700,000	-	40,000	1,600,000
	Filtration discard	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000
Bismuth	Alloy residues	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000
	Spent caustic soda	-	763	3,000	-	1,983	7,800	-	763	3,000	-	763	3,000	-	458	1,800
	Electrolytic slimes	-	2	30	-	7	130	-	3	50	-	3	50	-	2	30
	Lead and zinc chlorides	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000
	Metal chloride residues	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000
	Slag	-	500	10,000	-	500	10,000	-	500	10,000	-	500	10,000	-	500	10,000
	Spent electrolyte	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000
	Spent soda solution	-	763	3,000	-	1,983	7,800	-	763	3,000	-	763	3,000	-	458	1,800
	Waste acid solutions	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000
	Waste acids	-	43	170	-	50	200	-	43	170	-	43	170	-	40	160
Cadmium	Caustic washwater	-	238	4,750	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Copper and lead sulfate filter cakes	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Copper removal filter cake	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Iron containing impurities	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Spent leach solution	-	238	4,750	-	950	19,000	-	950	19,000	-	238	4,750	-	143	2,850
	Lead sulfate waste	-	143	2,850	-	618	12,350	-	238	4,750	-	238	4,750	-	143	2,850
	Post-leach filter cake	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Spent purification solution	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Scrubber wastewater	-	143	2,850	-	950	19,000	-	950	19,000	-	238	4,750	-	143	2,850
	Spent electrolyte	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Zinc precipitates	-	143	2,850	-	616	12,350	-	238	4,750	-	238	4,750	-	143	2,850
Calcium	Dust with quicklime	-	-	-	-	20	40	-	20	40	-	-	-	-	-	-
Coal Gas	Multiple effects evaporator concentrate	-	-	16,250	-	-	65,000	-	-	65,000	-	-	22,750	-	-	16,250
Copper	Acid plant blowdown	1,325,000	1,325,000	1,325,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	5,300,000	1,855,000	1,855,000	1,855,000	1,325,000	1,325,000	1,325,000
	WWTP sludge	-	750	1,500	-	3,000	6,000	-	1,050	2,100	-	1,050	2,100	-	750	1,500
Elemental Phosphorus	Andersen Filter Media	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460
	AFM rinsate	-	-	-	4,000	4,000	4,000	4,000	4,000	4,000	-	-	-	-	-	-
	Furnace scrubber blowdown	-	-	-	420,000	420,000	420,000	420,000	420,000	420,000	-	-	-	-	-	-
	Furnace Building Washdown	-	-	-	700,000	700,000	700,000	700,000	700,000	700,000	-	-	-	-	-	-
Fluorspar and Hydrofluoric Acid	Off-spec fluosilicic acid	-	1,875	11,250	-	7,500	45,000	-	2,625	15,750	-	2,625	15,750	-	1,875	11,250
Germanium	Waste acid wash and rinse water	-	935	3,400	-	1,100	4,000	-	935	3,400	-	935	3,400	-	880	3,200

PRIOR TREATMENT(PT) BASELINE AND OPTIONS

		PT Baseline			Option 1 (PT)			Option 2 (PT)			Option 3 (PT)			Option 4 (PT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
	Spent synthetic gypsum	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900
	TCA tower blowdown	-	44	88	-	125	250	-	44	88	-	44	88	-	31	63
	Wastewater treatment plant liquid effluent	-	1,109,250	2,218,500	-	1,305,000	2,610,000	-	1,109,250	2,218,500	-	1,109,250	2,218,500	-	1,044,000	2,088,000
Zirconium and Hafnium	Spent acid leachate from Zr alloy prod.	-	-	860,000	-	-	860,000	-	-	860,000	-	-	860,000	-	-	860,000
	Spent acid leachate from Zr metal prod.	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000
	Leaching rinse water from Zr alloy prod.	-	17,850	44,200	-	21,000	52,000	-	17,850	44,200	-	17,850	44,200	-	16,800	41,600
	Leaching rinse water from Zr metal prod.	-	425,000	1,700,000	-	500,000	2,000,000	-	425,000	1,700,000	-	425,000	1,700,000	-	400,000	1,600,000

Note: EPA does not have enough information to determine whether Bromine, Gemstones, Iodine, Lithium and Lithium Carbonate, Soda Ash, Sodium Sulfate, and Strontium produce mineral processing wastes

PRIOR TREATMENT(PT) BASELINE AND OPTIONS

		PT Baseline			Option 1 (PT)			Option 2 (PT)			Option 3 (PT)			Option 4 (PT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
Selenium	Spent filter cake	-	38	765	-	166	3,315	-	64	1,275	-	64	1,275	-	38	765
	Plant process wastewater	56,100	56,100	56,100	66,000	66,000	66,000	66,000	66,000	66,000	56,100	56,100	56,100	52,800	52,800	52,800
	Slag	-	204	4,080	-	255	5,100	-	217	4,335	-	217	4,335	-	204	4,080
	Tellurium slime wastes	-	38	765	-	166	3,315	-	64	1,275	-	64	1,275	-	38	765
	Waste solids	-	255	5,100	-	255	5,100	-	255	5,100	-	255	5,100	-	255	5,100
Synthetic Rutile	Spent iron oxide slurry	-	18,000	36,000	-	22,500	45,000	-	19,125	38,250	-	19,125	38,250	-	18,000	36,000
	APC dust/sludges	-	-	-	-	4,500	9,000	-	-	-	-	-	-	-	-	-
	Spent acid solution	-	-	-	-	4,500	9,000	-	-	-	-	-	-	-	-	-
Tantalum, Columbium, and Ferrocolumbium	Digester sludge	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
	Process wastewater	37,500	37,500	37,500	97,500	97,500	97,500	37,500	37,500	37,500	37,500	37,500	37,500	22,500	22,500	22,500
	Spent raffinate solids	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000
Tellurium	Slag	-	800	7,200	-	1,000	9,000	-	850	7,650	-	850	7,650	-	800	7,200
	Solid waste residues	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000
	Waste electrolyte	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000
	Wastewater	-	-	-	-	3,000	12,000	-	-	-	-	-	-	-	-	-
Titanium and Titanium Dioxide	Pickle liquor and wash water	-	1,148	2,805	-	1,350	3,300	-	1,148	2,805	-	1,148	2,805	-	1,080	2,640
	Scrap milling scrubber water	-	2,000	4,800	-	2,500	6,000	-	2,125	5,100	-	2,125	5,100	-	2,000	4,800
	Smut from Mg recovery	15	3,300	6,900	65	14,300	29,900	25	5,500	11,500	25	5,500	11,500	15	3,300	6,900
	Leach liquor and sponge wash water	323,000	408,000	493,000	380,000	480,000	580,000	323,000	408,000	493,000	323,000	408,000	493,000	304,000	384,000	464,000
	Spent surface impoundment liquids	-	429	1,680	-	1,115	4,368	-	429	1,680	-	429	1,680	-	257	1,008
	Spent surface impoundments solids	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700
	Waste acids (Sulfate process)	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000
	WWTP sludge/solids	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000
Tungsten	Spent acid and rinse water	-	-	17,850	-	-	21,000	-	-	21,000	-	-	17,850	-	-	16,800
	Process wastewater	-	1,862	7,650	-	2,190	9,000	-	2,190	9,000	-	1,862	7,650	-	1,752	7,200
Uranium	Waste nitric acid from UO2 production	-	1,084	2,890	-	1,275	3,400	-	1,084	2,890	-	1,084	2,890	-	1,020	2,720
	Vaporizer condensate	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000
	Superheater condensate	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000
	Slag	-	-	-	-	1,275	5,100	-	-	-	-	-	-	-	-	-
	Uranium chips from ingot production	-	191	510	-	829	2,210	-	319	850	-	319	850	-	191	510
Zinc	Acid plant blowdown	-	-	-	39,000	39,000	39,000	-	-	-	-	-	-	-	-	-
	Waste ferrosilicon	-	1,275	2,550	-	5,525	11,050	-	2,125	4,250	-	2,125	4,250	-	1,275	2,550
	Process wastewater	1,275,000	1,275,000	1,275,000	3,315,000	3,315,000	3,315,000	1,275,000	1,275,000	1,275,000	1,275,000	1,275,000	1,275,000	765,000	765,000	765,000
	Discarded refractory brick	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
	Spent cloths, bags, and filters	-	-	-	-	23	45	-	-	-	-	-	-	-	-	-
	Spent goethite and leach cake residues	-	-	-	4,500	4,500	4,500	-	-	-	-	-	-	-	-	-
	Spent surface impoundment liquids	1,606,500	1,606,500	1,606,500	1,890,000	1,890,000	1,890,000	1,606,500	1,606,500	1,606,500	1,606,500	1,606,500	1,606,500	1,512,000	1,512,000	1,512,000
	WWTP Solids	-	94	188	-	375	750	-	375	750	-	131	263	-	94	188

NO PRIOR TREATMENT(NPT) BASELINE AND OPTIONS

		NPT Baseline			Option 1 (NPT)			Option 2 (NPT)			Option 3 (NPT)			Option 4 (NPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
	Chlorinator wet air pollution control sludge	-	106	400	-	106	400	-	95	360	-	95	360	-	85	320
	Hydrolysis filtrate	-	106	400	-	106	400	-	106	400	-	106	400	-	106	400
	Leach residues	-	5	10	-	5	10	-	5	10	-	5	10	-	5	10
	Spent acid/leachate	-	1,100	4,000	-	1,100	4,000	-	990	3,600	-	990	3,600	-	880	3,200
	Waste still liquor	-	106	400	-	106	400	-	106	400	-	106	400	-	106	400
Lead	Acid plant sludge	-	7,050	14,100	-	7,050	14,100	-	7,050	14,100	-	2,115	4,230	-	1,058	2,115
	Baghouse incinerator ash	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000	300	3,000	30,000
	Slurried APC Dust	-	-	-	1,380	1,380	1,380	6,900	6,900	6,900	-	-	-	-	-	-
	Solid residues	-	195	390	-	195	390	-	195	390	-	59	117	-	29	59
	Spent furnace brick	-	-	-	198	198	198	990	990	990	-	-	-	-	-	-
	Stockpiled miscellaneous plant waste	400	88,000	180,000	400	88,000	180,000	400	88,000	180,000	360	79,200	162,000	320	70,400	144,000
	WWTP liquid effluent	-	-	-	-	352,000	704,000	-	1,760,000	3,520,000	-	-	-	-	-	-
	WWTP sludges/solids	-	-	-	76,000	76,000	76,000	380,000	380,000	380,000	-	-	-	-	-	-
Magnesium and Magnesia from Brines	Cast house dust	-	380	7,600	-	380	7,600	-	114	2,280	-	114	2,280	-	57	1,140
	Smut	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000
Mercury	Dust	-	4	7	-	4	7	-	4	7	-	4	7	-	4	7
	Quench water	-	38,500	420,000	-	38,500	420,000	-	38,500	420,000	-	11,550	126,000	-	5,775	63,000
	Furnace residue	-	39	77	-	39	77	-	39	77	-	39	77	-	39	77
Molybdenum, Ferromolybdenum, and Ammonium Molybdate	Flue dust/gases	-	126,500	495,000	-	126,500	495,000	-	126,500	495,000	-	126,500	495,000	-	126,500	495,000
	Liquid residues	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
Platinum Group Metals	Slag	-	23	450	-	23	450	-	7	135	-	7	135	-	3	68
	Spent acids	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000
	Spent solvents	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000	-	855	3,000
Pyrobitumens, Mineral Waxes, and Natural Asphalts	Still bottoms	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000
	Waste catalysts	-	5,000	20,000	-	5,000	20,000	-	1,500	6,000	-	1,500	6,000	-	750	3,000
Rare Earths	Spent ammonium nitrate processing solution	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
	Electrolytic cell caustic wet APC sludge	-	-	-	-	70	1,400	-	-	-	-	-	-	-	-	-
	Process wastewater	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	8,300	6,300	6,300	5,600	5,600	5,600
	Spent scrubber liquor	-	250,000	1,000,000	-	250,000	1,000,000	-	250,000	1,000,000	-	225,000	900,000	-	200,000	800,000
	Solvent extraction crud	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500	-	1,150	4,500
	Wastewater from caustic wet APC	-	250,000	1,000,000	-	250,000	1,000,000	-	250,000	1,000,000	-	225,000	900,000	-	200,000	800,000
Rhenium	Spent barren scrubber liquor	-	50	200	-	50	200	-	50	200	-	15	60	-	8	30
	Spent rhenium raffinate	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000	-	44,000	88,000
Scandium	Spent acids	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000	-	1,960	7,000
	Spent solvents from solvent extraction	-	1,960	7,000	-	1,960	7,000	-	588	2,100	-	588	2,100	-	294	1,050

NO PRIOR TREATMENT(NPT) BASELINE AND OPTIONS

		NPT Baseline			Option 1 (NPT)			Option 2 (NPT)			Option 3 (NPT)			Option 4 (NPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
Alumina and Aluminum	Cast house dust	19,090	19,090	19,090	19,090	19,090	19,090	5,727	5,727	5,727	5,727	5,727	5,727	2,864	2,864	2,864
	Electrolysis waste	-	28,750	57,500	-	28,750	57,500	-	8,625	17,250	-	8,625	17,250	-	4,313	8,625
Antimony	Autoclave filtrate	-	13,500	54,000	-	13,500	54,000	-	12,150	48,600	-	12,150	48,600	-	10,800	43,200
	Stripped anolyte solids	-	-	-	-	19	38	-	-	-	-	-	-	-	-	-
	Slag and furnace residue	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000	-	10,500	21,000
Beryllium	Chip treatment wastewater	-	50,000	2,000,000	-	50,000	2,000,000	-	45,000	1,800,000	-	45,000	1,800,000	-	40,000	1,600,000
	Filtration discard	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000	-	23,000	90,000
Bismuth	Alloy residues	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000
	Spent caustic soda	-	3,050	12,000	-	3,050	12,000	-	915	3,600	-	915	3,600	-	458	1,800
	Electrolytic slimes	-	10	200	-	10	200	-	3	60	-	3	60	-	2	30
	Lead and zinc chlorides	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000	-	1,500	6,000
	Metal chloride residues	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000	-	1,500	3,000
	Slag	-	500	10,000	-	500	10,000	-	500	10,000	-	500	10,000	-	500	10,000
	Spent electrolyte	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000
	Spent soda solution	-	3,050	12,000	-	3,050	12,000	-	915	3,600	-	915	3,600	-	458	1,800
	Waste acid solutions	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000	-	3,050	12,000
	Waste acids	-	50	200	-	50	200	-	45	180	-	45	180	-	40	160
Cadmium	Caustic washwater	-	950	19,000	-	950	19,000	-	285	5,700	-	285	5,700	-	143	2,850
	Copper and lead sulfate filter cakes	-	950	19,000	-	950	19,000	-	285	5,700	-	285	5,700	-	143	2,850
	Copper removal filter cake	-	950	19,000	-	950	19,000	-	285	5,700	-	285	5,700	-	143	2,850
	Iron containing impurities	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Spent leach solution	-	950	19,000	-	950	19,000	-	950	19,000	-	285	5,700	-	143	2,850
	Lead sulfate waste	-	950	19,000	-	950	19,000	-	285	5,700	-	285	5,700	-	143	2,850
	Post-leach filter cake	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Spent purification solution	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Scrubber wastewater	-	950	19,000	-	950	19,000	-	950	19,000	-	285	5,700	-	143	2,850
	Spent electrolyte	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000	-	950	19,000
	Zinc precipitates	-	950	19,000	-	950	19,000	-	285	5,700	-	285	5,700	-	143	2,850
Calcium	Dust with quicklime	-	-	-	-	4	8	-	20	40	-	-	-	-	-	-
Coal Gas	Multiple effects evaporator concentrate	-	-	39,000	-	-	58,500	-	-	65,000	-	-	26,000	-	-	16,250
Copper	Acid plant blowdown	3,180,000	3,180,000	3,180,000	4,770,000	4,770,000	4,770,000	5,300,000	5,300,000	5,300,000	2,120,000	2,120,000	2,120,000	1,325,000	1,325,000	1,325,000
	WWTP sludge	-	1,800	3,600	-	2,700	5,400	-	1,200	2,400	-	1,200	2,400	-	750	1,500
Elemental Phosphorus	Andersen Filter Media	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460
	AFM rinsate	-	-	-	800	800	800	4,000	4,000	4,000	-	-	-	-	-	-
	Furnace scrubber blowdown	-	-	-	84,000	84,000	84,000	420,000	420,000	420,000	-	-	-	-	-	-
	Furnace Building Washdown	-	-	-	140,000	140,000	140,000	700,000	700,000	700,000	-	-	-	-	-	-
Fluorspar and Hydrofluoric Acid	Off-spec fluosilicic acid	-	4,500	27,000	-	6,750	40,500	-	3,000	18,000	-	3,000	18,000	-	1,875	11,250
Germanium	Waste acid wash and rinse water	-	1,100	4,000	-	1,100	4,000	-	990	3,600	-	990	3,600	-	880	3,200

NO PRIOR TREATMENT(NPT) BASELINE AND OPTIONS

		NPT Baseline			Option 1 (NPT)			Option 2 (NPT)			Option 3 (NPT)			Option 4 (NPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
	Spent synthetic gypsum	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900
	TCA tower blowdown	-	75	150	-	113	225	-	50	100	-	50	100	-	31	63
	Wastewater treatment plant liquid effluent	-	1,305,000	2,610,000	-	1,305,000	2,610,000	-	1,174,500	2,349,000	-	1,174,500	2,349,000	-	1,044,000	2,088,000
Zirconium and Hafnium	Spent acid leachate from Zr alloy prod.	-	-	860,000	-	-	860,000	-	-	860,000	-	-	860,000	-	-	860,000
	Spent acid leachate from Zr metal prod.	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000	-	-	1,600,000
	Leaching rinse water from Zr alloy prod.	-	21,000	52,000	-	21,000	52,000	-	18,900	46,800	-	18,900	46,800	-	16,800	41,600
	Leaching rinse water from Zr metal prod.	-	500,000	2,000,000	-	500,000	2,000,000	-	450,000	1,800,000	-	450,000	1,800,000	-	400,000	1,600,000

Note: EPA does not have enough information to determine whether Bromine, Gemstones, Iodine, Lithium and Lithium Carbonate, Soda Ash, Sodium Sulfate, and Strontium produce mineral processing wastes

NO PRIOR TREATMENT(NPT) BASELINE AND OPTIONS

		NPT Baseline			Option 1 (NPT)			Option 2 (NPT)			Option 3 (NPT)			Option 4 (NPT)		
		Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector			Treatment and Disposal Total Sector		
Commodity	Waste Stream	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.	Min.	Expect.	Max.
Selenium	Spent filter cake	-	255	5,100	-	255	5,100	-	77	1,530	-	77	1,530	-	38	765
	Plant process wastewater	66,000	66,000	66,000	66,000	66,000	66,000	66,000	66,000	66,000	59,400	59,400	59,400	52,800	52,800	52,800
	Slag	-	255	5,100	-	255	5,100	-	230	4,590	-	230	4,590	-	204	4,080
	Tellurium slime wastes	-	255	5,100	-	255	5,100	-	77	1,530	-	77	1,530	-	38	765
	Waste solids	-	255	5,100	-	255	5,100	-	255	5,100	-	255	5,100	-	255	5,100
Synthetic Rutile	Spent iron oxide slurry	-	22,500	45,000	-	22,500	45,000	-	20,250	40,500	-	20,250	40,500	-	18,000	36,000
	APC dust/sludges	-	-	-	-	3,000	6,000	-	-	-	-	-	-	-	-	-
	Spent acid solution	-	-	-	-	3,000	6,000	-	-	-	-	-	-	-	-	-
Tantalum, Columbium, and Ferrocolumbium	Digester sludge	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
	Process wastewater	150,000	150,000	150,000	150,000	150,000	150,000	45,000	45,000	45,000	45,000	45,000	45,000	22,500	22,500	22,500
	Spent raffinate solids	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000	-	1,000	2,000
Tellurium	Slag	-	1,000	9,000	-	1,000	9,000	-	900	8,100	-	900	8,100	-	800	7,200
	Solid waste residues	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000	-	1,000	9,000
	Waste electrolyte	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000	-	1,000	20,000
	Wastewater	-	-	-	-	2,000	8,000	-	-	-	-	-	-	-	-	-
Titanium and Titanium Dioxide	Pickle liquor and wash water	-	1,350	3,300	-	1,350	3,300	-	1,215	2,970	-	1,215	2,970	-	1,080	2,640
	Scrap milling scrubber water	-	2,500	6,000	-	2,500	6,000	-	2,250	5,400	-	2,250	5,400	-	2,000	4,800
	Smut from Mg recovery	100	22,000	46,000	100	22,000	46,000	30	6,600	13,800	30	6,600	13,800	15	3,300	6,900
	Leach liquor and sponge wash water	380,000	480,000	580,000	380,000	480,000	580,000	342,000	432,000	522,000	342,000	432,000	522,000	304,000	384,000	464,000
	Spent surface impoundment liquids	-	1,715	6,720	-	1,715	6,720	-	515	2,016	-	515	2,016	-	257	1,008
	Spent surface impoundments solids	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700	-	17,850	35,700
	Waste acids (Sulfate process)	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000	200	40,000	78,000
	WWTP sludge/solids	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000	-	210,000	420,000
Tungsten	Spent acid and rinse water	-	-	21,000	-	-	21,000	-	-	21,000	-	-	18,900	-	-	16,800
	Process wastewater	-	2,190	9,000	-	2,190	9,000	-	2,190	9,000	-	1,971	8,100	-	1,752	7,200
Uranium	Waste nitric acid from UO2 production	-	1,275	3,400	-	1,275	3,400	-	1,148	3,060	-	1,148	3,060	-	1,020	2,720
	Vaporizer condensate	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000
	Superheater condensate	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000	-	4,675	17,000
	Slag	-	-	-	-	850	3,400	-	-	-	-	-	-	-	-	-
	Uranium chips from ingot production	-	1,275	3,400	-	1,275	3,400	-	383	1,020	-	383	1,020	-	191	510
Zinc	Acid plant blowdown	-	-	-	26,000	26,000	26,000	-	-	-	-	-	-	-	-	-
	Waste ferrosilicon	-	8,500	17,000	-	8,500	17,000	-	2,550	5,100	-	2,550	5,100	-	1,275	2,550
	Process wastewater	5,100,000	5,100,000	5,100,000	5,100,000	5,100,000	5,100,000	1,530,000	1,530,000	1,530,000	1,530,000	1,530,000	1,530,000	765,000	765,000	765,000
	Discarded refractory brick	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000	-	500	1,000
	Spent cloths, bags, and filters	-	-	-	-	15	30	-	-	-	-	-	-	-	-	-
	Spent goethite and leach cake residues	-	-	-	3,000	3,000	3,000	-	-	-	-	-	-	-	-	-
	Spent surface impoundment liquids	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	1,701,000	1,701,000	1,701,000	1,701,000	1,701,000	1,701,000	1,512,000	1,512,000	1,512,000
	WWTP Solids	-	225	450	-	338	675	-	375	750	-	150	300	-	94	188

APPENDIX G

ICF
CONSULTING GROUP

ICF Incorporated
9300 Lee Highway
Fairfax, VA 22031-1207
703/934-3000 Fax 703/934-9740

June 5, 1996

MEMORANDUM

To: Bill Kline, EPA

From: Raghu Raghavan, Mario Kerby, and Jim Laurenson

Subject: Completeness of FMC Corporation's Request for Two-Year National Capacity Variance from the Phase IV Land Disposal Restrictions

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This memorandum summarizes our preliminary assessment of the completeness of the request made by FMC Corporation (FMC) for a two-year national capacity variance (NCV) from the Phase IV LDRs for the company's elemental phosphorus mineral processing wastes. FMC made this request as part of its comments on the Supplemental Proposal to Phase IV LDRs (Comment # 70, submitted on April 24, 1996). Briefly, we still have the following questions concerning the FMC request for NCV:

(1) Will planned onsite treatment and waste minimization allow less than a two-year NCV?
(2) Will capacity shortfalls affect only FMC – thus, perhaps only a case-by-case extension is needed – or will other facilities (e.g., Monsanto) be affected?
(3) Will exemptions from the definition of solid waste reduce the required capacity?

If a case-by-case extension is desired, we believe other questions may need to be answered. The following provides additional details concerning our review of the FMC data.

FMC submitted a 106-page document commenting on the proposed rule and four additional volumes of information (Appendices 1-15) to support its comments. The first and largest section of the main document with FMC's comments is the request for a two-year NCV. Also, most of the appendices provide information supporting the NCV application. The supporting information includes copies of completed phone surveys and survey confirmation letters for 168 commercial treatment facilities that were contacted by a consultant of FMC to determine the availability of capacity for off-site treatment of four wastestreams generated during elemental phosphorus mineral processing operations at FMC. Any follow-up of the NCV survey conducted by FMC's technical staff is also documented.

Because FMC's request for an NCV (including attachments) is approximately 1,000 pages, we could perform only a preliminary examination of their contents. In brief, however, it seems that the proposed Phase IV LDR rule will uniquely affect the current operations of FMC for manufacture of elemental phosphorus in Pocatello, Idaho. Suitable alternative treatment capacity may not be readily available for at least three large-volume hazardous wastewater streams that are now being generated at this facility and land disposed (probably in Subtitle D surface

impoundments) on site. These three wastewater streams – Medussa scrubber blowdown, Andersen filter media rinsate, and furnace building washdown – are generated at a rate of 148 million gallons per year. Alternative treatment of these wastewaters will require pH adjustment for removal of cadmium, lead, and/or selenium from the wastewater streams, followed by dewatering and stabilization of the metal-containing treatment sludges. Also, the wastewaters are contaminated with normally occurring radioactive materials (NORM) that must also be removed during treatment. The pH adjustment step must take into consideration the generation of phosphine gas due to the presence of elemental phosphorus in the wastewaters. Transportation of wastewaters is estimated to require 30 rail tanks per day, and a special loading station would have to be constructed. Special safety requirements are associated with the transportation and other handling of elemental-phosphorus containing wastes. FMC has proposed management plans for these wastestreams that will include on-site waste minimization efforts, treatment technology development, and installation of treatment capacity by June 1998.

We believe that FMC's plans to build onsite treatment capacity and conduct waste minimization may mean less than a two-year NCV can be possible. The onsite treatment capacity will include a wastewater treatment plant and stabilization facility that appears to have been planned already. FMC's plans for alternative treatment of wastewaters on site, however, are based on an assumption that Andersen filter media rinsate will be eliminated by the end of the year 1996. This wastewater stream contains selenium, and FMC's past experience in technology development shows that stabilization of its wastewater treatment residuals cannot treat selenium below UTS. Therefore, if the plans to eliminate Andersen filter media rinsate fails, FMC will have to pursue a case-by-case extension to the NCV or alternate treatment standards after the end of an NCV.

Our review of the background document – "Identification and Description of Mineral Processing Sectors and Waste Streams" – developed to support the proposed Phase IV LDR rule indicates that there are two domestic producers of elemental phosphorus: FMC's facility in Pocatello, Idaho and Monsanto's facility in Soda Springs, Idaho. Monsanto did not submit comments on the proposed Supplemental Phase IV LDR rule. As FMC Corporation is the world's largest producer of elemental phosphorus, EPA's identification and description of this mineral processing sector and these wastestreams was based mainly on the FMC process. However, we believe that EPA may need to obtain and review information on waste generation and management at the Monsanto facility before granting an NCV – rather than a case-by-case variance – for mineral processing wastewater streams that contain elemental phosphorus. In particular, it may be necessary to confirm that the proposed Phase IV LDR rule will uniquely affect the current manufacturing operations of both FMC and Monsanto.

We also reviewed our capacity analysis for the newly-identified mineral processing wastes to determine if the information provided with FMC's request for an NCV would change either the methodology or assumptions used. Exhibit 3-1 of the background document identifies and characterizes the hazardous mineral processing wastes by commodity sector. In this exhibit, we identify two facilities (FMC and Monsanto) with processes to manufacture elemental phosphorus generate three wastewater streams with an estimated maximum quantity of 782,000 metric tons (206 million gallons) per year. This estimate is comparable with FMC's report that it generates

148 million gallons of hazardous wastewater. We also noted that the capacity analysis had assumed that two out of the three wastewater streams (over 99% of total quantity) may be recycled or decharacterized. This assumption also seems to be consistent with the report of FMC that a waste minimization effort is in progress at the facility. Thus, before granting a NCV for mineral processing wastewaters containing elemental phosphorus, we believe that EPA may need to rule out the possibility of these wastewater streams being exempt from classification as RCRA solid waste, and therefore exempt from LDR requirements.

In addition to assessing whether FMC's comments were sufficient for making a determination regarding an NCV, we conducted a preliminary evaluation whether FMC could meet the requirements for a case-by-case extension to the rule (40 CFR 268.5). However, a complete request for a capacity variance on a case-by-case basis must include an additional demonstration of the commitment of the applicant to construct or otherwise provide alternative treatment, recovery, or disposal capacity that meets with LDR standards. The request for a capacity variance must also describe in greater detail the technical and practical difficulties in providing the alternative capacity. In addition, the application for a capacity variance must confirm that the planned alternative capacity would be adequate for all the wastes affected by the proposed rule. Finally, the applicant must demonstrate that hazardous wastewater management units that will be in use at the facility until the development of alternative treatment capacity would be in full compliance with other regulations under RCRA Subtitle C. Although we have not been able to evaluate whether the information provided by FMC meets with all the requirements of 40 CFR 268.5, we believe that if FMC were requesting a case-by-case extension, they should be required at least to provide more information on the design and operation of surface impoundments or other units being used at present to manage the wastewater streams affected by the proposed rule. In addition, EPA would need to follow other procedures normally followed in applications for a capacity variance on a case-by-case basis (e.g., consulting with appropriate State agencies).

Please feel free to call Raghu Raghavan at (703)934-3417 or Jim Laurenson at (703)934-3648 if you have any questions or comment concerning this memorandum.

ICF
CONSULTING GROUP

ICF Incorporated
9300 Lee Highway
Fairfax, VA 22031-1207
703/934-3000 Fax 703/934-9740

June 26, 1996

MEMORANDUM

To: Bill Kline, EPA

From: Raghu Raghavan and Jim Laurenson

Subject: Follow-up on FMC Corporation's Request for Two-year National Capacity Variance (NCV) from the Phase IV Land Disposal Restrictions (LDRs)

This memorandum is a follow-up to our June 5, 1996 memo assessing the request made by FMC Corporation (FMC) for a two-year NCV from Phase IV LDRs on the company's elemental phosphorus mineral processing wastewaters. This memo provides additional information that we obtained from FMC, and it updates our previous assessment of the subject request made by FMC.

FMC conducted a national survey of commercial treatment, storage, and disposal (TSD) facilities to argue that required capacity is not available off site if their "large volume" mineral processing wastewaters will be affected by the Phase IV LDRs. Alternatively, FMC plans to conduct waste minimization and build onsite treatment capacity by June 1998. The waste management plans were submitted by FMC with its request for an NCV provided with their comments to the supplemental Phase IV LDR rule. EPA invited comments on a potential capacity variance for FMC in the May 10, 1996 Notice of Data Availability (NODA). In response to the NODA, FMC commented that the construction of onsite treatment facilities would be one of the options that FMC will evaluate during the NCV period. FMC plans to continue to explore the possibility of providing offsite treatment of the process waters affected by Phase IV LDRs at its elemental phosphorus manufacturing plant in Pocatello, Idaho. A second commenter on the NODA, Environmental Defense Fund (EDF), represented by the law office of David J. Lennett, believes that FMC's request for a capacity variance is more properly a request for a case-by-case capacity variance subject to the procedures given in 40 CFR 268.5, and that the information provided is insufficient for a case-by-case variance.

To determine if two years are required to implement FMC's waste management plans, as well as to assess the readiness of these plans for implementation, it was necessary to start obtaining the following types of additional information:

- How are the wastewater streams that will be affected by the Phase IV LDRs currently managed by FMC? Is any treatment of wastewaters performed now? Which land-based units receive these wastewaters now?

- As FMC continues to explore the possibility of providing offsite treatment of these wastewaters, is the company planning to set up the infrastructure necessary for

shipping the wastewaters off site (e.g., building a special loading dock and purchasing/leasing rail cars)?

- Because of the difficulties in stabilizing wastewater treatment residuals containing selenium, is FMC planning to construct a separate facility for onsite treatment of Andersen filter media rinsate (which is reported to be the only stream containing selenium)?

- Is FMC aware of other facilities that are manufacturing elemental phosphorus and generating hazardous wastes that are affected by Phase IV LDRs?

We contacted Mr. Arnold Feldman, Regulatory Compliance Manager, Environmental Services Department, FMC Corporation to discuss these topics. The information obtained by us during a phone conversation with Mr. Feldman is given below.

Current wastewater management practices. Mr. Feldman told us that the three wastewater streams affected by the Phase IV LDRs are currently received by a large surface impoundment (capacity over 100 acre-feet) onsite and then recycled to the process. This surface impoundment was RCRA permitted two or three years ago and meets with minimum technology requirements (MTR) as given in 40 CFR 264/265. The surface impoundment is located approximately 3/4 mile from the plant generating the wastewaters. A small tank (5,000 to 6,000 gallons capacity) receives the wastewaters near the plant before they are pumped to the surface impoundment. In addition to the three wastewater streams, some "contaminated solids" are currently disposed of in the surface impoundment. The disposal of solids will be terminated after the Phase IV LDRs become effective, however. The wastewater overflows from the surface impoundment to a series of ponds before it is recycled (after some clarification of the effluent) to the plant. Although there appears to be no other treatment of the wastewater taking place before it is recycled, it seems that the main role of the surface impoundment is to separate elemental phosphorus from the wastewater generated in the plant. (Analytical data on the three wastewater streams that will be affected by the Phase IV LDRs were submitted by FMC with its request for an NCV.) In order to maintain a minimum level of water at all times in the surface impoundment, water from the ponds is sometimes returned back to the surface impoundment. The retention period of the wastewater in the surface impoundment therefore varies with the level of production and the time of year. There is only a minimal release of phosphine gas taking place in the surface impoundment (mainly because the elemental phosphorus is always stored under water). It seems that the surface impoundment and ponds will continue to be used even in the future after installing wastewater treatment capacity on site. However, it is not known at present if the surface impoundment will be receiving wastewaters before or after treatment to precipitate toxic metals. (The main benefit of using the surface impoundment to receive wastewater before treatment is that the current practice of separating out elemental phosphorus before recycling the wastewater may continue without any change. However, it is not clear whether the final Phase IV LDR rule will permit the use of the surface impoundment in its current role despite the fact that the surface impoundment is permitted under RCRA Subtitle C and meets the MTR.) It seems that the final concept design for integrating the new wastewater treatment facility with other land-based units on site can be completed only after reviewing the final LDR rule.

Preparing for commercial treatment as an alternative. Based on the results of the national survey of commercial TSD facilities conducted by FMC, Mr. Feldman felt that offsite treatment of wastewaters cannot probably replace the need for building treatment capacity on site. Even the projected schedule for purchasing the rail cars by January 1998 (as mentioned in FMC's request for a two-year NCV) cannot really be achieved. It is necessary to first locate commercial facilities willing to consider treating FMC's wastewaters. Then, according to Mr. Feldman, these commercial facilities must agree to install special loading docks (at their expense) to receive the wastewaters for treatment. These investigations and negotiations cannot be completed within the next several months. Therefore, Mr. Feldman said, it is not possible to develop an alternative to onsite treatment of wastewaters within a period of two years.

Designing wastewater treatment onsite. As noted earlier, Mr. Feldman believes that the concept design of the onsite treatment facility can be completed only after knowing what the final Phase IV LDR standards are. (In particular, the final LDR standards will affect the selection of treatment methods for Andersen filter media rinsate. This wastewater stream has been generated only since 1991 when it became necessary to wash the filter media due to the presence of naturally occurring radioactive materials. Currently, FMC is hoping to eliminate this wastewater stream as an alternative to onsite treatment.) Even after the finalization of LDR standards and if it becomes necessary to treat Andersen filter media rinsate, it may be more cost-effective to treat all the wastewater streams at the same new facility. (The construction of two or more smaller wastewater treatment facilities instead of one combined facility might reduce the time required for designing and constructing each facility.) Mr. Feldman also noted that construction of a treatment facility cannot progress during five months (December through April) every year because of weather. The schedule provided by FMC in its request for a two-year NCV also did not take into consideration the time required for obtaining any permits for installing and operating the treatment facility. Mr. Feldman indicated that a complete schedule for building onsite treatment capacity is possible only after reviewing the final LDR rule and finalizing the concept for treating the wastewaters on site.

Other facilities manufacturing elemental phosphorus. Mr. Feldman stated that one other company manufactures elemental phosphorus using another proprietary process that does not generate hazardous wastes affected by the Phase IV LDRs.

Based on the additional information described above, it appears that FMC does not have a final concept design of the onsite treatment facility for the wastewater streams generated at its plant in Pocatello, Idaho. First, the need for treatment of wastewaters prior to discharging them to the existing permitted surface impoundment will depend on the applicability of the new definition of solid waste to these recycled materials and the treatment standards given in the final LDR rule. (Universal treatment standards (UTS) may apply to one or more of the following metal constituents found in the wastewaters: cadmium, lead, selenium, thallium, zinc and/or vanadium.) Second, the final concept design for treating wastewaters will depend on the results of FMC's current efforts to eliminate Andersen filter media rinsate. (It appears that the wastewater treatment needs may be reduced substantially if the Andersen filter media rinsate is eliminated or managed otherwise.) In addition, the weather conditions in Idaho will make it difficult to consider an accelerated construction of the wastewater treatment facilities after making progress in the engineering design of the facilities. Under these circumstances, it would be difficult to prepare a more detailed and complete schedule for

building onsite treatment capacity. Thus, based on the information provided by FMC, there seems to be little chance for finding offsite treatment capacity in the next two years and less than a two-year NCV does not appear to be sufficient for providing the alternative treatment capacity required by the wastewater streams affected by the Phase IV LDRs at FMC's plant in Pocatello, Idaho.

Please feel free to call Raghu Raghavan at (703)934-3417 or Jim Laurenson at (703)934-3648 if you have any questions or comment concerning this memorandum.