1994 Solid Waste Forecast Container Volume Summary

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EXECUTIVE SUMMARY

This report describes a 30-year forecast of the solid waste volumes by container type. The volumes described are low-level mixed waste (LLMW) and transuranic/transuranic mixed (TRU/TRUM) waste. These volumes and their associated container types will be generated or received at the U.S. Department of Energy Hanford Site for storage, treatment, and disposal at Westinghouse Hanford Company's Solid Waste Operations Complex (SWOC)¹ during a 30-year period from FY 1994 through FY 2023.

The forecast data for the 30-year period indicates that approximately 307,150 m³ of LLMW and TRU/TRUM waste will be managed by the SWOC. The main container type for this waste is 55-gallon drums, which will be used to ship 36% of the LLMW and TRU/TRUM waste. The main waste generator forecasting the use of 55-gallon drums is Past Practice Remediation. This waste will be generated by the Environmental Restoration Program during remediation of Hanford's past practice sites. Although Past Practice Remediation is the primary generator of 55-gallon drums, most waste generators are planning to ship some percentage of their waste in 55-gallon drums.

Long-length equipment containers (LECs) are forecasted to contain 32% of the LLMW and TRU/TRUM waste. The main waste generator forecasting the use of LECs is the Long-Length Equipment waste generator, which is responsible for retrieving contaminated long-length equipment from the tank farms.

Boxes are forecasted to contain 21% of the waste. These containers are primarily forecasted for use by the Environmental Restoration Operations - D&D of Surplus Facilities waste generator. This waste generator is responsible for the solid waste generated during decontamination and decommissioning (D&D) of the facilities currently on the Surplus Facilities Program Plan.

The remaining LLMW and TRU/TRUM waste volume is planned to be shipped in casks and other miscellaneous containers. Casks will be used for 7% of the waste, and miscellaneous containers will be used for 4% of the waste. Casks will be used primarily by a tank farm low-level waste pretreatment facility, which is responsible for a pilot test program to pretreat tank waste supernatant for the low-level waste treatment facility. Although the original facility for which this project was planned has been terminated, it is assumed that some sort of pretreatment will still be required prior to final stabilization of the tank waste. Therefore, the volumes estimated for the pretreatment facility have been included in this report, but the original 1993 forecast volumes have been delayed eight years to correspond to the startup of the tank farm low-level treatment facility established by the revised Tri-Party Agreement.

Data presented in this report establish a starting point for solid waste management planning. It is recognized that forecast estimates will vary (typically increasing) as facility planning and missions continue to change and become better defined, but the information presented still provides useful

¹ The SWOC is defined for this report to include the existing Central Waste Complex and future facilities as identified in the Solid Waste Technical Baseline Description, WHC-SD-WM-RTP-000, Rev. 0.

insight into Hanford's future solid waste management requirements. Solid waste management facilities will continue to provide adequate treatment, storage, and disposal through existing and planned solid waste facilities. The information presented within this document will be appropriately incorporated into the solid waste technical baseline.

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1.0 INTRODUCTION

This document, prepared by Pacific Northwest Laboratory (PNL) under the direction of Westinghouse Hanford Company (WHC), provides a description of the containers expected to be used for shipping low-level mixed solid waste (LLMW) and transuranic/transuranic mixed (TRU/TRUM) solid waste to the Hanford Solid Waste Operations Complex (SWOC)¹ over the next 30 years. This solid waste will be generated from ongoing operations, maintenance activities, deactivation activities, decontamination and decommissioning (D&D) of facilities, and environmental restoration (ER) activities.

For the past four years, the annual solid waste volume forecast (for the next 30 years) has been collected from all onsite and offsite generators that are planning to ship waste to the Hanford Site. The generators provide details about the amount of waste to be generated each year, the containers that will be used to ship the waste, and specific waste characteristics that help determine the proper treatment, storage, and disposal (TSD) requirements. This document, which is based primarily upon the 1993 Solid Waste Forecast, provides information on the containers intended to be used to ship waste to the Hanford Site. Volume information on the annual LLMW and TRU/TRUM waste is reported in WHC-EP-0768, *Solid Waste 30-Year Volume Summary*. The physical and hazardous characteristics of the forecasted waste volumes are reported in WHC-EP-0802, *1994 Solid Waste Forecast Summary: Waste Characteristics and Treatability Groups*.

This document is intended to be used in conjunction with other solid waste planning documents as a reference for short- and long-term planning of the Hanford TSD activities over the next several decades. Knowledge of the number and types of shipping containers to be used by onsite and offsite waste generators aids in planning TSD facility capacities and container handling requirements. This document will describe the types of containers that will be used for packaging LLMW and TRU/TRUM waste. Containers used for low-level waste (LLW) will be described in an appendix, because LLW requires minimal treatment and storage prior to onsite disposal in the LLW burial grounds. The major waste generators for each waste category and container type will also be discussed.

Because this document must serve several audiences, the information will be described at various levels of detail. Section 2.0 of this report provides an overview of the overall volume by container type and waste category. Brief definitions of the container types and waste categories are also provided. Sections 3.0 and 4.0 discuss the volumes by container type for LLMW and TRU/TRUM, respectively. These sections are broken down by waste category, and the associated waste containers are described. In addition, the main waste generators for each waste category and container type will be discussed. Appendix A describes the LLW volumes by container type, and Appendix B provides a

¹ The SWOC is defined for this report to include the existing Central Waste Complex and future facilities as identified in the Solid Waste Technical Baseline Description, WHC-SD-WM-RTP-000, Rev. 0.

description of the assumptions used for D&D waste generators. Appendix C provides volume information by container type for each waste class, while Appendix D describes the waste class volumes by container type. Appendix E describes the waste volume by container type for each onsite and offsite waste generator.

2.0 OVERVIEW

This section provides an overview of the LLMW and TRU/TRUM solid waste volumes by waste category and container type that are expected to be generated by onsite and offsite waste generators in the next 30 years. Brief descriptions of the waste categories and container types are provided as well. Lastly, the major waste generators of the LLMW and TRU/TRUM waste volumes are discussed. The purpose of the information presented in this overview is to provide a general description of the volumes by container type for short- and long-term planning of Hanford's solid waste management facilities in terms of TSD and handling requirements.

2.1 WASTE CATEGORIES

The waste volumes and container types are described in this document by waste category. The waste is divided into four broad categories based upon concentrations of radionuclides and surface dose rates of the waste package. For the purposes of this document, the contact-handled and remote-handled categories will be combined for each waste classification to form the basis of each section. The categories are briefly described below:

- Contact-handled low-level mixed waste (CH LLMW): This waste has a dose rate less than or equal to 200 mrem/h at contact with the waste container. The waste contains radioactivity that is not classified as transuranic waste or spent nuclear fuel; however, the waste does contain dangerous constituents as identified by Washington Administrative Code (WAC) 173-303 (Ecology 1993). The concentration of transuranic radionuclides is less than or equal to 100 nCi/g of the waste matrix.
- Remote-handled low-level mixed waste (RH LLMW): This waste has a dose rate greater than 200 mrem/h at contact with the waste container. The waste contains radioactivity that is not classified as transuranic waste or spent nuclear fuel; however, the waste does contain dangerous constituents as identified by WAC 173-303. The concentration of transuranic radionuclides is less than or equal to 100 nCi/g of the waste matrix.
- Contact-handled transuranic/transuranic mixed waste (CH TRU/TRUM): This waste has a dose rate less than or equal to 200 mrem/h at contact with the waste container. At the time of assay, this waste contains more than 100 nCi/g of alpha-emitting isotopes with atomic numbers greater than 92 and half-lives greater than 20 years. TRUM waste is TRU waste that is also dangerous waste as defined in WAC 173-303.

- Remote-handled transuranic/transuranic mixed waste (RH TRU/TRUM): This waste has a dose rate greater than 200 mrem/h at contact with the waste container. At the time of assay, this waste contains more than 100 nCi/g of alpha-emitting isotopes with atomic numbers greater than 92 and half-lives greater than 20 years. TRUM waste is TRU waste that is also dangerous waste as defined in WAC 173-303.

2.2 CONTAINER TYPES

In the 1993 Solid Waste Forecasts, 16 primary container types were identified to be used to ship waste to the Hanford Site over the next 30 years. The majority of the waste will be shipped in six of these 16 container types: 4' x 4' x 8' boxes, unknown boxes, 55-gallon drums, other drums, long-length equipment containers, and casks. Table 2-1 has been provided to further describe the container types by external and internal dimensions and the waste streams shipped in each container type. References are provided in Table 2-1 for those seeking more detailed information about the containers. The following is a brief description of each major container type.

- 4' x 4' x 8' boxes: This shipping container is typically either plywood or metal with dimensions of 4 feet wide, 4 feet deep, and 8 feet long. The external volume is 128 cubic feet without skids attached; the external volume is 143 cubic feet if skids are attached. The internal volume is 120 cubic feet for the metal box (WHC 1990).
- Unknown boxes: This container type is an unknown shipping container with unknown dimensions. This category is selected by those waste generators that cannot forecast the exact box size to be used for waste shipments over the next 30-year period.
- 55-gallon drums: This shipping container is typically 2 feet in diameter and 2.9 feet long with an external volume of 9.2 cubic feet. The internal volume will vary depending on the type of waste to be shipped. Table 2-1 provides the varying internal volume options.
- Other drums: This container type category includes all other drums besides the 55- and 30-gallon drums. The 30-gallon drum is a separate option that is not a major container type. Dimensions, external volume, and internal volumes of drums in the "other" category vary depending on the size of the drum.
- Long-length equipment containers (LEC): There are six different LECs with varying dimensions that are provided in Table 2-1. The primary use of this container is for contaminated long-length equipment from the tank farms.

Table 2-1. Volumes and Waste Streams for Waste Containers.

CONTAINER	EXTERNAL VOLUME FT ³	INTERNAL VOLUME FT ³	REFERENCES	WASTE STREAMS
Boxes				
LSA Plywood 4' x 4' x 8' without skids	128.0		WHC-SP-0364	LLW, LLMW, TRU/TRUM
LSA Plywood 4' x 4' x 8' with skids	143.0		WHC-SD-WM-SARP-003 Rev 0	LLW, LLMW, TRU/TRUM
Metal 4' x 4' x 8'	128.0	120.0	WHC-SP-0364	LLW, LLMW, TRU/TRUM
SWB	73.4	68.7	WHC-SD-TP-SARP-004	TRU/TRUM
B-25	103.2	90.1	WHC-SP-1070/CPC	LLMW, LLW
Drums				
55 gallon, Non TRU	9.2	7.4	WHC-EP-0558	LLW, LLMW
55 gallon, TRU	9.2	7.4	WHC-EP-0558	TRU/TRUM
55 - gallon, TRU Organic	9.2	2.4	WHC-SP-0364	TRU/TRUM - organic
55 - gallon, Internally Shielded	9.2	1.9	WHC-SP-0364	RH
55 - gallon, TRU, Lead Lined	9.2	0.8	WHC-SP-0364	TRU/TRUM - lead-line
85 - gallon	12.1	12.0	HS-V-P-0010 REV C	
Long Length Equipment Containers				
LEC-1 (3.67' x 4' x 36.33')	533.2	238.9	WHC-SD-WM-ES-265	LLMW, TRUM
LEC-2 (3.67' x 4' x 51.33')	753.5	347.3	WHC-SD-WM-ES-265	LLMW, TRUM
LEC-3 (3.67' x 4' x 70.33')	1,032.4	469.3	WHC-SD-WM-ES-265	LLMW, TRUM
LEC-4 (4.92' x 5.5' x 70.33')	1,903.1	992.1	WHC-SD-WM-ES-265	LLMW, TRUM
LEC-5 (6.67' x 7.17' x 52.5')	2,510.8	1,190.1	WHC-SD-WM-ES-265	LLMW, TRUM
LEC-6 (6.67' x 7.17' x 70.5')	3,371.6	1,608.1	WHC-SD-WM-ES-265	LLMW, TRUM

- **Casks:** This container type would typically be 9.5 feet long and 9.1 feet high. The external volume is 630 cubic feet; it weighs about 40 tons. This container type is mainly planned to contain RH_TRUM from the tank farm low-level waste pretreatment facility.

2.3 FORECASTED CONTAINER TYPES AND WASTE CATEGORIES

The following describes the LLMW and TRU/TRUM waste volumes by container type and waste category. The major waste generators of LLMW and TRU/TRUM waste are also provided. This information is useful in short- and long-term planning of Hanford's solid waste management facilities in terms of TSD and handling requirements.

2.3.1 Volumes by Container Type

The LLMW and TRU/TRUM waste container types forecasted for the next 30 years are displayed in Figure 2-1. As shown in the figure, the total volume of waste to be shipped is approximately 307,150 m³. The main container type is 55-gallon drums that will contain 36% of the waste. LECs will contain 32%; unknown boxes will contain 15%; casks will contain 7%; 4' x 4' x 8' boxes will contain 6%; and all other containers will contain 4% of the waste.

Figure 2-2 displays the LLMW and TRU/TRUM annual waste volumes by container type. The figure shows a peak from 2004 through 2006 that represents the tank farm low-level waste pretreatment facility shipping schedule. The other significant peak occurs from 2013 through 2017 and represents the shipping scheduled for the assumed decontamination and decommissioning (D&D)

Figure 2-1. LLMW and TRU/TRUM Waste Volumes by Container Type.

Figure 2-2. Annual Volume of LLMW and TRU/TRUM Waste by Container Type.

of the Plutonium Finishing Plant and the retrieval of the Long-Length Equipment. The dates for shipment of D&D waste from the Plutonium Finishing Plant are unknown, and an assumption was made that, until further planning has been completed, the waste would be shipped from 2013 through 2022. Detailed information on the assumptions made for D&D generators are discussed in Appendix B.

2.3.2 Volumes by Waste Category

The volume of LLMW and TRU/TRUM waste is represented by waste category in Figure 2-3. The majority of the waste is CH_LLMW and RH_LLMW which constitutes 72% of the waste. CH_TRU/TRUM waste and RH_TRU/TRUM waste make up the remaining 28%. Figure 2-4 displays the annual volumes by waste category. The two peaks shown in the figure are identical to those peaks in Figure 2-2 since the volumes are the same but broken out by waste category instead of container type. The first peak mainly consists of CH_LLMW and RH_TRU/TRUM waste, while the second peak shows primarily the generation of RH_LLMW.

2.3.3 Major LLMW and TRU/TRUM Waste Generators

The major waste generators of LLMW and TRU/TRUM waste are displayed in Figure 2-5. The largest proportion of waste is generated by the retrieval of Long-Length Equipment, which comprises 32%. Past Practice Remediation generates 18%; D&D of the Plutonium Finishing Plant generates 8%; Portsmouth Gaseous Diffusion Plant generates 7%; the tank farm low-level waste pretreatment facility generates 5%; and the remaining 30% is generated by a number of

Figure 2-3. LLMW and TRU/TRUM Waste Volumes by Waste Category.

Figure 2-4. Annual Volume of LLMW and TRU/TRUM Waste by Waste Category.

Figure 2-5. Major LLMW and TRU/TRUM Waste Generators.

other waste generators. The following is a brief description of each of these major waste generators. All assumptions associated with D&D generators are further described in Appendix B.

- Long-Length Equipment:** During tank farm cleanup, current planning is to remove the long-length pieces of equipment from the tanks and send this equipment to the SWOC for TSD. The long-length equipment is equipment that has been installed in the tanks and is greater than 12 feet in length, with some pieces in excess of 60 feet. Because of the unusual configuration of these wastes, special storage and handling requirements will be necessary. In addition to the equipment currently in the tanks, estimates have been included for pumps and other miscellaneous equipment that will be used for retrieval of tank waste. The retrieval pumps and equipment are also expected to be sent to the SWOC for processing and will have many of the same storage and handling requirements as the long-length equipment.
- Past Practice Remediation:** The Environmental Remediation Program is responsible for the remediation of Hanford's past practice sites. It is assumed that the Solid Waste Program may be responsible for 100% of the TRU/TRUM waste generated from these sites, as well as for 10% of the LLMW.
- D&D of the Plutonium Finishing Plant:** The solid waste generated during the D&D of this facility includes volume estimates from the 236Z Building and its associated buildings 241Z, 242Z, and 2345Z. The solid waste material includes such items as gloveboxes, pedestal storage, ventilation systems, pencil tanks, and

ventilation fans. The shipping schedule for this waste generator is unknown and has been assumed to be from 2013 through 2022 until further planning is completed.

- **Portsmouth Gaseous Diffusion Plant:** The waste volumes associated with this waste generator are primarily existing waste volumes with a few environmental restoration projects. The operational waste was not included in the forecast, because this generator has indicated that the United States Enrichment Corporation (USEC) took over operations on July 1, 1993. Hanford has not accepted waste from Portsmouth for the past three years; if this trend continues, it is likely the volumes associated with Portsmouth will not be sent to Hanford in the future.
- **Tank Farm Low-Level Waste Pretreatment Facility:** The waste volumes associated with this waste generator are based on a proposed project to pretreat tank waste supernatant for final low-level waste treatment. Although the original treatment facility (LLW Grout facility) for which this project was planned has been terminated, it is assumed that some sort of pretreatment will still be required prior to final stabilization of the tank waste. Therefore, the volumes estimated for the original pretreatment facility have been included in this report, but the 1993 forecast volumes have been delayed eight years to correspond to the startup of the low-level waste treatment facility established by the revised Tri-Party Agreement.

3.0 LOW-LEVEL MIXED WASTE

This section provides waste volumes by container type and waste category for LLMW. The major waste generators of LLMW are also described. LLMW will be treated and stored at the SWOC and shipped to the onsite mixed waste trench for disposal.

3.1 LLMW VOLUME

The total amount of LLMW to be shipped to the SWOC in the next 30 years is approximately 221,050 m³. Of this waste, 56% is CH_LLMW, while the remaining 44% is RH_LLMW as depicted in Figure 3-1. Figure 3-2 displays the major waste generators of LLMW. Forty percent is generated by Long-Length Equipment; Past Practice Remediation generates 23%; Portsmouth generates 10%; Tank Farm Restoration and Buried Equipment each generate 3%; and the remaining 21% is generated by other miscellaneous waste generators. These waste generators have been described in Section 2.0 with the exception of Tank Farm Restoration and Buried Equipment. The following will briefly describe these two generators.

- Tank Farm Restoration: This Major System Acquisition project includes several sub-projects: Double-Shell Tank Ventilation Upgrades, Tank Farm Integrated Instrumentation Upgrades, Waste Transfer System Upgrades, Radiation Zone Lighting Upgrades, Tank

Figure 3-1. Total Volume of LLMW by Waste Category.

Figure 3-2. Major LLMW Generators.

Farm Electrical Upgrades, Single-Shell Tank Ventilation Upgrades, and Tank Farm Centralized Control and Maintenance Facilities. Solid waste generated from these sub-projects will include miscellaneous construction debris, contaminated soils, and demolished tank farm equipment.

- **Buried Equipment:** The responsibility of this waste generator is to dispose of general-purpose coded equipment, such as vehicles and mobile construction units used in the tank farms. The waste volumes are based on existing waste that has not been shipped since 1992. The existing waste is currently located with the respective waste generators.

3.2 LLMW CATEGORIES BY CONTAINER TYPE

A brief description of each waste category of LLMW by container type is included below. The total volumes are discussed, as are the annual volumes in terms of the main container types forecasted for shipment to the SWOC. The waste generators for each waste category are also described.

3.2.1 Contact-Handled Low-Level Mixed Waste

The total amount of CH LLMW to be shipped to the SWOC in the next 30 years is approximately 123,190 m³. Figure 3-3 displays the total volume of CH LLMW by container type. As depicted in the figure, 72% will be shipped in 55-gallon drums; 12% in 4' x 4' x 8' boxes; 9% in unknown boxes; and the remaining 7% in other miscellaneous containers.

Figure 3-4 displays the annual volumes of CH LLMW by container type. As depicted in the figure, there is a fairly constant amount of waste until 2012, when there appears to be a slight decrease in waste volumes through 2023.

Figure 3-3. CH_LLMW Volumes by Container Type.

Figure 3-4. Annual Volume of CH_LLMW by Container Type.

This is reflective of the shipping schedule of Past Practice Remediation, which is planning to ship the majority of its waste from 1997 through 2011 in 55-gallon drums.

The CH_LLMW volumes for each waste generator are displayed by main container type in Table 3-1. Past Practice Remediation generates 40% of the total waste, Portsmouth generates 17%, and Buried Equipment generates 6%.

Table 3-1. CH LLMW Generators By Container Type.

WASTE GENERATOR	55 GAL DRUM	4' X 4' X 8' BOX	UNKNOWN BOX	OTHER	TOTAL
Past Practice Remediation	49,793	0	0	0	49,793
Portsmouth	17,471	0	0	3,962	21,433
Buried Equipment	0	0	7,663	0	7,663
Tank Farm Restoration	0	6,197	0	0	6,197
Purex 242A Condensate Treatment	5,385	210	0	167	5,762
T-Plant Bldg. - D&D	0	2,719	2,719	0	5,438
Single Shell Tank Farms	1,132	2,368	0	595	4,095
Argonne Nat. Lab.-East	441	0	0	2,519	2,960
Paducah Energy Systems	2,620	0	0	308	2,928
Environmental Restoration Operations - D&D of Surplus Facilities	2,848	0	0	0	2,848
CP 222-S Laboratory	1,582	205	0	0	1,787
Sec. Waste from Long Length Equip.	1,634	0	0	0	1,634
Purex-242A Effluent Treatment - D&D	0	1,599	0	0	1,599
LLW Treatment Facility (formerly DWM Grout Facility)	991	0	0	286	1,277
PD Waste Vitrification Project	906	124	0	0	1,030
Tank Farms Backlog Waste	429	477	0	25	931
Knolls Atomic Power Shipyards	0	0	0	657	657
Lawrence Livermore Natl Lab	629	0	0	0	629
T-Plant Bldg. 2706/221	594	0	0	0	594
Pacific Northwest Laboratory	235	0	0	198	433
PD Waste Vitrification Project - D&D	0	368	0	0	368
A Evaporator - D&D	0	33	293	0	326
S Evaporator - D&D	0	33	293	0	326
SST Retrieval (149 tanks)	293	0	0	0	293
Lawrence Berkeley Lab	287	0	0	0	287
DWM B Plant & WESF - D&D	0	0	277	0	277
Ames Laboratory-Ames, Iowa	1	236	0	0	237
CP Purex & UO3-224U - D&D	0	0	236	0	236
CP Plutonium Finishing Plant	219	0	0	0	219
W320 Tank 241 Sluicing	21	119	0	0	140
Brookhaven	136	0	0	0	136
Paducah Utility Services	84	0	0	0	84

Table 3-1. (contd).

WASTE GENERATOR	55 GAL DRUM	4' X 4' X 8' BOX	UNKNOWN BOX	OTHER	TOTAL
T Evaporator - D&D	0	7	57	0	64
FERMI Nat. Accelerator Lab.	63	0	0	0	63
DRD 100 Area	58	0	0	2	60
Plasma Physics Laboratory	57	0	0	0	57
Battelle Columbus Operations	47	0	0	0	47
CP 222-S Lab - D&D	0	0	41	0	41
Bettis Atomic Power Laboratory	31	0	0	8	38
DWM Low Level Burial Grounds	0	0	0	34	34
Environmental Projects	28	0	0	0	28
Liquid Waste Handling Facility	24	0	0	0	24
PNL - 326 Bldg - D&D	0	7	11	0	18
Fuels Operations	17	0	0	0	17
CP Purex & UO ₃ -224U Facilities	14	0	0	0	14
DWM Sol Wst Ops - D&D	0	7	6	0	13
Stanford Lin Accelerator Cntr	11	0	0	0	11
K-Basin Operations	8	0	0	1	9
General Atomics	9	0	0	0	9
Univ. of Utah	6	0	0	0	6
Univ. of CA, Davis	5	0	0	0	5
B Plant/WESF Facilities	4	0	0	0	4
PNL - 324 Bldg - D&D	0	3	0	0	3
Geo. Tech. Engineering Lab.	0	0	3	0	3
DWM Solid Waste Operations	0	0	0	3	3
ARD Large Sodium Fire Facility	1	0	0	0	1
T-Plant Head End Cleanup	0	0	0	0	0
ARD Fuel Fabrication Bldg.	0	0	0	0	0
TOTAL	88,112	14,710	11,601	8,766	123,189

The majority of 55-gallon drums are generated by the Past Practice Remediation waste generator. This is the only container type Past Practice Remediation forecasts. 4' x 4' x 8' boxes are generated primarily by Tank Farm Restoration, and Buried Equipment generates most of the unknown boxes.

3.2.2 Remote-Handled Low-Level Mixed Waste

The total amount of RH LLMW to be shipped to the SWOC over the next 30 years is approximately 97,850 m³. Of the total RH LLMW forecasted, 90% will be shipped in LECs. Figure 3-5 displays the total RH LLMW volume by container type. Casks and 55-gallon drums each make up 4% of the waste, and 2% is in other miscellaneous containers.

Figure 3-5. RH_LLMW Volumes by Container Type.

Figure 3-6 displays the annual volume of RH_LLMW by container type. The figure shows a gradual increase in waste volumes from 2003 through 2017 that represents the Long-Length Equipment shipping schedule. The major container type used during this time period is the LEC.

Figure 3-6. Annual Volume of RH_LLMW by Container Type.

The waste generators for RH_LLMW by major container type are displayed in Table 3-2. The primary waste generator is Long-Length Equipment, which generates 90% of the waste. The remaining 10% will be generated by other miscellaneous generators. The primary waste generator that is planning on using LECs is the Long-Length Equipment waste generator. The low-level waste treatment facility is the only waste generator that has forecasted casks. Although the original project (LLW Grout Facility) has been cancelled, it is still included in this document because it is assumed that some sort of waste stabilization will still be required. Environmental Restoration Operations - D&D of Surplus Facilities is the primary producer of 55-gallon drums.

Table 3-2. RH LLMW Generators By Container Type.

Waste Generator	LEC	CASKS	55 GAL DRUM	OTHER	Total
Long-Length Equipment	87,733	0	0	0	87,733
LLW Treatment Facility (formerly DWM Grout Facility)	0	3,658	158	482	4,298
Environmental Restoration Operations - D&D of Surplus Facilities	0	0	2,770	0	2,770
T-Plant Bldg. - D&D	0	0	0	1,360	1,360
PNL - 324 Bldg - D&D	0	0	0	424	424
T-Plant Bldg. 2706/221	0	0	312	0	312
W320 Tank 241 Sluicing	0	0	0	283	283
CP PUREX & UO3-224U Tunnel Waste	0	0	0	242	242
CP 222-S Laboratory	0	0	122	0	122
CP 222-S Laboratory- D&D	0	0	36	72	107
DWM B Plant & WESF - D&D	0	0	0	69	69
CP Purex & UO3-224U - D&D	0	0	0	59	59
A Evaporator - D&D	0	0	0	22	22
S Evaporator - D&D	0	0	0	22	22
Pacific Northwest Laboratory	0	0	14	0	14
T Evaporator - D&D	0	0	0	12	12
PNL - 326 Bldg - D&D	0	0	0	7	7
TOTAL	87,733	3,658	3,411	3,054	97,856

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4.0 TRANSURANIC AND TRANSURANIC MIXED WASTE

This section provides waste volumes by container type and waste category for TRU/TRUM waste. The major waste generators of TRU/TRUM waste are also described. TRU/TRUM waste will be treated and stored in the SWOC with ultimate disposal planned for the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico.

4.1 TRU/TRUM WASTE VOLUME

The total amount of TRU/TRUM waste to be shipped to the SWOC over the next 30 years is approximately 86,100 m³. Of this waste, 56% is RH TRU/TRUM waste, while the remaining 44% is CH TRU/TRUM waste, as depicted in Figure 4-1. Figure 4-2 displays the major waste generators of TRU/TRUM waste. Twenty-eight percent is generated by D&D of the Plutonium Finishing Plant; the tank farm low-level waste pretreatment facility generates 21%; Long-Length Equipment generates 11%; D&D of the Hanford Waste Vittrification Plant (HWVP) and Past Practice Remediation generate 8% and 7%, respectively; and the remaining 25% is generated by other miscellaneous waste generators. The major waste generators have been described in Section 2.0 with the exception of D&D of the HWVP, whose description follows:

- D&D of the Hanford Waste Vittrification Plant (HWVP): The HWVP is a future treatment/processing facility for tank waste that will require D&D. Contaminated equipment includes cooling coils, pumps, and condensers.

Figure 4-1. Total Volume of TRU/TRUM Waste by Waste Category.

Figure 4-2. Major TRU/TRUM Waste Generators.

4.2 TRU/TRUM WASTE CATEGORIES BY CONTAINER TYPE

The following describes the volumes of each waste category of TRU/TRUM waste by container type. The total volume is discussed as are the annual volumes in terms of the main container types forecasted for shipment to the SWOC. The waste generators for each waste category are also described.

4.2.1 Contact-Handled Transuranic/Transuranic Mixed Waste

The total amount of CH TRU/TRUM waste to be shipped to the SWOC over the next 30 years is approximately 38,220 m³. Figure 4-3 displays the total volume of CH TRU/TRUM waste by container type. As depicted in the figure, 50% will be shipped in unknown boxes; 40% in 55-gallon drums; and the remaining 10% in other miscellaneous containers.

Figure 4-4 displays the annual volumes of CH TRU/TRUM waste by container type. As displayed in the figure, there is a fairly constant amount of waste until 2012, then the volume increases dramatically. The amount of waste is constant through 2022, which reflects the assumed shipping dates for the D&D of the Plutonium Finishing Plant. The dates for shipment of D&D waste from the Plutonium Finishing Plant are unknown, and an assumption was made that, until further planning has been completed, the waste would be shipped from 2013 through 2022. In addition, the figure displays a large amount of unknown boxes from 2013 through 2022, which is reflective of the container type selected by the Plutonium Finishing Plant.

The waste generators of CH TRU/TRUM waste by main container types are displayed in Table 4-1. D&D of the Plutonium Finishing Plant generates 50% of the total waste. Past Practice Remediation generates 16%, and maintenance of the Plutonium Finishing Plant generates 10%. The majority of unknown boxes are generated by the D&D of the Plutonium Finishing Plant. Fifty-five-gallon drums are generated primarily by Past Practice Remediation.

Figure 4-3. CH_TRU/TRUM Waste Volumes by Container Type.

Figure 4-4. Annual Volume of CH_TRU/TRUM Waste by Container Type.

Table 4-1. CH TRU/TRUM Waste Generators By Container Type.

WASTE GENERATOR	UNKNOWN BOX	55 GAL DRUM	OTHER	TOTAL
Plutonium Finishing Plant - D&D	17,199	126	1,379	18,704
Past Practice Remediation	0	5,935	0	5,935
CP Plutonium Finishing Plant	0	3,516	264	3,780
T-Plant Bldg. - D&D	1,360	850	1,360	3,570
PD Waste Vittrification Project	210	1,633	158	2,002
Environmental Restoration Operations - D&D of Surplus Facilities	0	1,827	0	1,827
Lawrence Livermore Natl Lab	0	685	122	807
CP Purex & UO3-224U - D&D	385	0	219	604
Argonne Nat. Lab.-East	0	185	0	185
SW Retrieval Fac.-Phase 2	0	183	0	183
K-Basin Operations	0	0	133	133
CP Purex & UO3-224U Facilities	0	40	77	117
Pacific Northwest Laboratory	0	33	79	113
ARD Fuel Fab. Bldg. - D&D	0	86	5	90
SW Retrieval Fac.-Phase 1	0	46	0	46
SW RMW Storage Facility	0	38	0	38
PNL - 231Z - D&D	2	0	32	34
PNL - 327 Bldg - D&D	0	0	27	27
Environmental Projects	0	21	0	21
Lawrence Berkeley Lab	0	3	0	3
Rockwell Canoga Park	0	3	0	3
ARD Fuel Fabrication Bldg.	0	1	0	1
Ames Laboratory-Ames, Iowa	0	0	0	0
TOTAL	19,157	15,208	3,855	38,220

4.2.2 Remote-Handled Transuranic/Transuranic Mixed Waste

The total amount of RH TRU/TRUM waste to be shipped to the SWOC over the next 30 years is approximately 47,880 m³. Figure 4-5 displays the total RH TRU/TRUM waste volume by container type. Of the total RH TRU/TRUM waste forecasted, 39% will be shipped in casks. Unknown boxes comprise 28% of the waste, LECs make up 20%, 55-gallon drums will contain 5%, and the remaining 8% is in other miscellaneous containers. Figure 4-6 displays the annual volume

Figure 4-5. RH_TRU/TRUM Waste Volumes by Container Type.

Figure 4-6. Annual Volume of RH_TRU/TRUM Waste by Container Type.

of RH TRU/TRUM waste by container type. The figure depicts a dramatic increase in waste volumes from 2004 through 2006 that represents the shipment of casks from the low level waste retreatment facility (formerly OST Process Tasks).

The waste generators for RH TRU/TRUM waste by major container type are displayed in Table 4-2. The primary waste generator is the tank farm low-level waste pretreatment facility, which generates 38% of the waste. Twenty percent is generated by Long-Length Equipment and 15% is generated by the D&D of the HWVP. Casks are used solely by the low-level waste pretreatment facility. D&D of the HWVP and the Plutonium Finishing Plant are the primary waste generators for unknown boxes. Long-Length Equipment is the main producer of LECs. Fifty-five-gallon drums are evenly produced by D&D of the HWVP, general operation of the HWVP, and Environmental Restoration Operation D&D of Surplus Facilities.

Table 4-2. RH TRU/TRUM Waste Generators by Container Type.

WASTE GENERATOR	CASKS	UNKNOWN BOX	LEC	55 GAL DRUM	OTHER	TOTAL
Tank Farm LLW Pretreatment Facility	18,414	0	0	0	0	18,414
Long-Length Equipment	0	0	9,748	0	0	9,748
PD Waste Vit Proj - D&D	0	6,428	0	716	71	7,215
CP Plutonium Finishing Plant - D&D	0	4,300	0	31	345	4,676
PD Waste Vitrifaction Project	0	0	0	801	2,054	2,855
N-Reactor - D&D	0	1,186	0	0	0	1,186
PNL - 327 Bldg - D&D	0	171	0	2	849	1,023
T-Plant Bldg. - D&D	0	340	0	212	340	892
Environmental Restoration Operation - D&D of Surplus Facilities	0	0	0	711	0	711
CP PUREX & UO3-224U Tunnel Waste	0	697	0	0	0	697
CP Purex & UO3-224U - D&D	0	151	0	0	0	151
K-Basin Operations	0	125	0	0	11	136
Battelle Columbus Labs.	0	0	0	71	0	71
Argonne Nat. Lab.-East	0	0	0	0	51	51
T-Plant Bldg. 2706/221	0	0	0	28	0	28
Liq Wst Handling Fac - D&D	0	23	0	0	0	23
Pacific Northwest Laboratory	0	0	0	0	1	1
TOTAL	18,414	13,419	9,748	2,573	3,723	47,876

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APPENDIX A

LOW-LEVEL WASTE VOLUMES AND CONTAINER TYPES

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APPENDIX A

LOW-LEVEL WASTE VOLUMES AND CONTAINER TYPES

This appendix provides waste volumes by container type and waste category for low level waste (LLW). The major waste generators of LLW are also described. LLW will not be handled by the Solid Waste Operation Complex (SWOC) except for selective sampling. The majority of the LLW is currently planned to go directly to the Hanford LLW burial grounds. LLW is subdivided into two main waste categories, contact-handled and remote-handled LLW, which are described below.

- Contact-handled low-level waste (CH LLW): This waste has a dose rate less than or equal to 200 mrem/h at contact with the waste container. The waste contains radioactivity that is not classified as transuranic waste, radioactive mixed waste, or spent nuclear fuel. The concentration of transuranic radionuclides is less than or equal to 100 nCi/g of the waste matrix.
- Remote-handled low-level waste (RH LLW): This waste has a dose rate greater than 200 mrem/h at contact with the waste container. The waste contains radioactivity that is not classified as transuranic waste, radioactive mixed waste, or spent nuclear fuel. The concentration of transuranic radionuclides is less than or equal to 100 nCi/g of the waste matrix.

A.1 LLW VOLUME

The total amount of LLW to be shipped to the SWOC over the next 30 years is approximately 1,496,560 m³. Of this waste, 96% is CH LLW, while the remaining 4% is RH LLW, as depicted in Figure A.1. Figure A.2 displays the major waste generators of LLW. Seventy-four percent is generated by Environmental Restoration Operations - D&D of Surplus Facilities; the Formerly Utilized Sites Remediation Action Program (FUSRAP) generates 4%; decontamination and decommissioning (D&D) of B Plant and the Paducah Energy Systems (ES) each generate 3%; and the remaining 16% is generated by other miscellaneous waste generators. The following is a brief description of each generator:

- Environmental Restoration Operations - D&D of Surplus Facilities: This includes all surplus listed facilities and projects. The current forecast does not address waste minimization, recycling, or reduction technologies that could reduce forecasted volumes by 30%.
- FUSRAP: This is one of several U.S. Department of Energy (DOE) programs created to address radiological contamination in excess of guidelines at a number of sites throughout the United States. Generally, these sites, which became contaminated through uranium and thorium operation, were decontaminated and released for use

Figure A.1. Total Volume of LLW by Waste Category.

Figure A.2. Major LLW Generators.

under the regulations in effect at the time. Because radiological guidelines were not as strict then as today, trace amounts of radioactive materials remained at some of the sites. Erosion, building demolition, and construction resulted in some of the radioactive residues mixing with large volumes of solid and rubble, thereby spreading the contamination. If FUSRAP becomes responsible for restoring more sites, its waste volumes could increase.

- **D&D of B-Plant:** The volume estimates for B-Plant were determined by obtaining a building volume from the dimensions of the building. An assumption was made that 1/2 of the building volume was contaminated material. In addition, 1/3 of the Waste Encapsulation and Storage Facility (WESF) was assumed contaminated. Contaminated materials include tanks, jumpers, concentrators, ion exchange columns, filters, ducting, and condensers.
- **Paducah Energy Systems:** Forecasted waste volumes for this waste generator include ER and D&D projects only. The waste to be shipped in FY 1994 through FY 1999 has already been generated; however, shipments have not been approved or funded at this time. Paducah has not yet determined a shipping schedule; thus the forecasted schedule is an estimation. It should be noted that U.S. Enrichment Corporation (USEC) has assumed responsibility for operational waste after July 1, 1993, and this waste is not included in the forecast.

A.2 LLW CATEGORIES BY CONTAINER TYPE

The following describes the LLW volumes by waste category and container type. The total volume is discussed as are the annual volumes in terms of the main container types forecasted for shipment to the SWOC. The waste generators for each waste category are also described.

A.2.1 **Contact-Handled Low-Level Waste**

The total amount of CH_LLW to be shipped to the SWOC over the next 30 years is approximately 1,431,230 m³. Figure A.3 displays the total volume of CH_LLW by container type. As depicted in the figure, 51% will be shipped in 4' x 4' x 8' boxes; 11% in 55-gallon drums; 24% in unknown boxes; and the remaining 14% in other miscellaneous containers.

Figure A.4 displays the annual volumes of CH_LLW by container type. As shown in the figure, there is a gradual increase in waste volume from 2002 through 2009. This peak represents the shipping schedule of 4' x 4' x 8' boxes by the Environmental Restoration Operations - D&D of Surplus Facilities waste generator.

The waste generators for CH_LLW by major container type are displayed in Table A.1. Environmental Restoration Operations - D&D of Surplus Facilities generates 75% of the total waste, Oak Ridge National Laboratory generates 4%, and Paducah Energy Systems generates 3%. The majority of 4' x 4' x 8' boxes

Figure A.3. CH_LLW Volumes by Container Type.

Figure A.4. Annual Volume of CH_LLW by Container Type.

Table A.1. CH LLW Generators By Container Type.

WASTE GENERATOR	4' X 4' X 8' BOX	BOX OTHER	55 GAL DRUM	OTHER	TOTAL
Environmental Restoration Operations - D&D of Surplus Facilities	582,653	285,532	50,630	154,633	1,073,448
ORNL Oak Ridge National Lab.	46,588	0	0	10,861	57,450
Paducah Energy Systems	0	0	44,854	66	44,919
DWM B Plant & WESF - D&D	2,270	31,997	0	0	34,267
PD Waste Vitrification Project	14,554	0	15,198	0	29,753
CP 222-S Laboratory	15,139	0	4,231	0	19,371
Single Shell Tank Farms	14,641	0	299	301	15,240
Brookhaven	11,164	0	2,952	0	14,115
CP 222-S Laboratory - D&D	0	3,661	9,078	64	12,803
Pacific Northwest Laboratory	10,462	0	1,758	192	12,412
Lawrence Berkeley Lab	0	0	641	10,039	10,680
Argonne Nat. Lab.-East	0	0	5,122	3,909	9,032
N-Reactor - D&D	8,326	0	0	0	8,326
Portsmouth	0	0	0	8,273	8,273
CP Plutonium Finishing Plant	1,751	0	5,719	0	7,470
T-Plant Bldg. - D&D	3,572	3,572	0	0	7,144
Lawrence Livermore Natl Lab	0	0	1,962	4,938	6,900
300 Area Water Treatment Proj.	0	0	6,261	0	6,261
Plasma Physics Laboratory	0	0	1,011	4,996	6,006
Paducah Utility Services	0	0	4,827	0	4,827
CP Purex & UO3-224U - D&D	0	4,768	0	0	4,768
LLW Treatment Facility (formerly DWM Grout Facility)	3,654	0	0	0	3,654
Laundry-Equip. Decon Facility	3,480	0	0	0	3,480
Secondary Waste from LL Equip.	3,293	0	0	0	3,293
PNL - 314 Bldg - D&D	1,589	1,589	0	0	3,178
K-Basin Operations	122	0	1,078	1,273	2,473
PNL - 331 Bldg - D&D	1,746	162	0	0	1,908
Battelle Columbus Labs.	0	0	0	1,772	1,772
Rockwell Canoga Park	0	0	0	1,629	1,629
DRD 100 Area	825	0	703	0	1,527
Stanford Lin Accelerator Cntr	1,321	0	25	0	1,346
FERMI Nat. Accelerator Lab.	0	0	175	1,016	1,191
PNL - 327 Bldg - D&D	423	332	393	0	1,149
T-Plant Bldg. 2706/221	1,076	0	71	0	1,147
PD Waste Vit Proj - D&D	1,105	0	0	0	1,105
Univ. of CA, Davis	0	0	26	991	1,017
W343 DST Retrieval (17 Tanks)	0	0	673	0	673
Knolls Atomic Power Shipyards	0	0	0	633	633

Table A.1. (contd).

WASTE GENERATOR	4' X 4' X 8' BOX	BOX OTHER	55 GAL DRUM	OTHER	TOTAL
SST Retrieval (149 tanks)	591	0	0	0	591
General Atomics	164	0	0	359	523
Ames Laboratory-Ames, Iowa	468	0	47	0	515
DST Retrieval (10 Tanks)	0	0	462	0	462
CP Purex & UO3-224U Facilities	194	0	249	0	443
Liquid Waste Handling Facility	171	0	267	0	438
PNL - 324 Bldg - D&D	297	0	23	40	360
Bettis Atomic Power Laboratory	0	0	0	355	355
EG&G Rocky Flats Plant	0	0	131	156	286
DWM Grout Fac - D&D	276	0	0	0	276
Tank Farms Backlog Waste	268	0	1	0	269
FFTF/FMEF Maintenance.	110	0	151	0	261
Fuels Operations	229	0	0	0	229
B Plant/WESF Facilities	84	0	46	85	215
Liq Wst Handling Fac - D&D	0	0	0	198	198
Environmental Projects	18	0	173	0	191
DWM Low Level Burial Grounds	0	0	19	170	189
ARD Fuel Fab. Bldg. - D&D	116	0	12	0	129
Bettis Atomic Power Shipyards	0	0	0	126	126
Cross-Site Transfer Lines	109	0	0	0	109
PNL - 242 Bldg - D&D	12	84	0	0	96
Tank Farm Ventilation Upgrade	54	0	21	0	75
Kaiser Engineers	0	0	61	0	61
Aging Waste Transfer Lines	58	0	0	0	58
PNL - 306W Bldg - D&D	13	31	7	0	51
Geo. Tech. Engineering Lab.	7	0	19	0	26
PNL - 326 Bldg - D&D	3	13	0	0	16
DWM Solid Waste Operations	0	0	3	9	12
Univ. of Utah	0	0	6	0	6
ARD 306E Bldg. FDL - D&D	5	0	0	0	5
ARD Fuel Fabrication Bldg.	4	0	1	0	5
Bates Accelerat.-Massachusetts	0	0	4	0	4
Tank Farm-101-AZ Retrieval Sys	0	0	4	0	4
Tank AP-104 Upgrade	4	0	0	0	4
PNL - 231Z - D&D	4	0	0	0	4
CC, PFP&NCRWDST Pilot Scale Ret	0	0	1	0	1
Total	733,016	331,741	159,393	207,084	1,431,234

and unknown boxes are generated by Environmental Restoration Operations - D&D of Surplus Facilities; 55-gallon drums are mainly generated by Environmental Restoration Operations - D&D of Surplus Facilities and Paducah Energy Systems.

A.2.2 Remote-Handled Low-Level Waste

The total amount of RH LLW to be shipped to the SWOC over the next 30 years is approximately 65,330 m³. Of the total RH LLW forecasted, 61% will be shipped in other cylinders. This container type is typically 74.5 inches in diameter and 72.5 inches high, which gives it an external volume of 179 cubic feet. This container type is basically exclusive to the Environmental Restoration Operations - D&D of Surplus Facilities waste generator and is used to ship their RH LLW. Figure A.5 displays the total RH LLW volume by container type. Unknown boxes comprise 17% of the waste; 15% is in 4' x 4' x 8' boxes; and the remaining 7% is in other miscellaneous containers. Figure A.6 displays the annual volume of RH LLW by container type. The figure shows a peak from 2002 through 2010 that represents the shipping schedule of 4' x 4' x 8' boxes from the Environmental Restoration Operations - D&D of Surplus Facilities waste generator.

The waste generators for RH LLW by major container type are displayed in Table A.2. The major waste generator is Environmental Restoration Operations - D&D of Surplus Facilities, which contributes 61% of the total waste. D&D of B-Plant generates 13%, D&D of the Hanford Waste Vitrification Plant (HWVP) generates 10%, and the remaining 16% is generated by several generators. Other cylinders are the main container type generated solely by Environmental Restoration Operations - D&D of Surplus Facilities. Unknown boxes are primarily generated by D&D of B-Plant, and 4' x 4' x 8' boxes are generated mainly by D&D of the HWVP.

Figure A.5. RH LLW Volumes by Container Type.

Figure A.6. Annual Volume of RH_LLW by Container Type.

Table A.2. RH LLW Generators By Container Type.

WASTE GENERATOR	OTHER CYCLE	UNKNOWN BOX	4' X 4' X 8' BOX	OTHER	TOTAL
Environmental Restoration Operations - D&D of Surplus Facilities	39,943	0	0	0	39,943
DWM B Plant & WESF - D&D	0	7,999	568	0	8,567
PD Waste Vit Proj - D&D	0	0	6,626	0	6,626
PD Waste Vittrification Project	0	0	1,191	1,807	2,999
T-Plant Bldg. - D&D	0	893	893	0	1,786
CP Purex & UO3-224U - D&D	0	1,192	0	0	1,192
FFTF/FMEF Maintenance.	0	0	0	1,065	1,065
CP PUREX & UO3-224U Tunnel Wst - D&D	0	1,022	0	0	1,022
Pacific Northwest Laboratory	0	0	0	919	919
K-Basin Operations	0	236	0	193	429
PNL - 327 Bldg - D&D	0	6	0	308	315
T-Plant Bldg. 2706/221	0	0	0	227	227
DRD 100 Area	0	0	136	0	136
Argonne Nat. Lab.-East	0	0	0	33	33
PNL - 324 Bldg - D&D	0	4	14	12	30
Environmental Projects	0	0	0	13	13
Brookhaven	0	0	11	0	11
D&D of LLW Treatment Facility (formerly Grout Facility)	0	0	8	0	8
B Plant/WESF Facilities	0	0	0	5	5
Total	39,943	11,353	9,446	4,583	65,325

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APPENDIX B

D&D REFERENCES

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APPENDIX B

D&D REFERENCES

This appendix briefly describes the references used to obtain generator and volume information for decontamination and decommissioning (D&D) waste generators and any assumptions made in using this information.

B.1 THE FISCAL YEAR (FY) 1993 SOLID WASTE FORECAST DATABASE:

The forecast database contains only one generator of D&D wastes, which is the Environmental Restoration Operations - D&D of Surplus Facilities. These wastes have been estimated from projects and facilities currently under the D&D program. These facilities are identified in the *Surplus Facilities Program Plan Fiscal Year 1993* and the *Accelerated D&D Schedule*. The 1993 forecast for this generator only reported wastes for the years 1994-2013. It is expected that additional facilities will be identified and added to the Surplus Facility List after 2013.

B.2 DRAFT REPORT: WASTE STREAM EVALUATION FOR LONG-TERM DECONTAMINATION STUDY:

This special study investigated potential D&D waste generators that are not on the Surplus Facilities List. Hundreds of facilities exist on the Hanford Site that will require D&D. To limit the study, two sources were used to identify 26 facilities with potentially large D&D volumes: the 1992 solid waste forecast database and the programmatic environmental impact statement database. Waste information was gathered primarily through interviews with operational and waste personnel. Some estimates were developed by briefly touring the building and estimating the amount of equipment or contaminated material. Data include rough estimates of the waste volumes by waste class, physical characteristics, and possible container types. The schedule for receiving this waste was assumed to occur from 2013 through 2022.

For the purpose of completing the 30-Year Summary Report, the following assumptions and data revisions were made:

- Only the volume and waste category data will be used.
- Building demolition and soil excavation activities will not be addressed; therefore, the physical waste category *construction material* and the waste generator *Secondary Environmental Restoration* were not used.
- Volumes for Purex and the Purex Tunnels were deleted for reasons stated in the next reference summary.

- Volumes for the canyon buildings, B-Plant, T-Plant, and the Plutonium Finishing Plant were used, but a ratio of 80% contact-handled to 20% remote-handled was based upon personal conversation with Ken Hladek (WHC).

B.3 ESTIMATION OF PUREX EQUIPMENT AND MATERIALS THAT ARE CANDIDATES FOR REMOVAL AND WASTE PROCESSING DURING PUREX PLANT CLOSURE, WHC-IP-0977 (VALERO 1994)

The study is a detailed investigation of potential waste from Purex and the Purex Tunnels, two facilities not identified on the surplus facilities list that will eventually require D&D.

For the purpose of completing the 30-Year Summary Report, assumptions were made and the following revisions were made:

- Because this study has no waste category separation of remote-handled versus contact-handled, a ratio of 80% contact-handled to 20% remote-handled was assumed based upon personal conversation with Ken Hladek (WHC).

APPENDIX C

ANNUAL CONTAINER TYPE VOLUMES BY WASTE CLASS

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
10 FT3 ION EX	RH_LLW_I	6	0	0	16	16	9	9	9	9	9	9	9	9	9	9	9
	RH_TRU	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total 10 FT3 ION EX		6	11	0	16	16	9	9	9	9	9	9	9	9	9	9	9
277 FT3 ION EX	CH_LLW_I	39	16	22	63	63	63	63	63	63	63	63	63	63	63	63	63
	CH_TRU	0	71	63	0	0	0	0	0	0	0	0	0	0	0	0	0
Total 277 FT3 ION EX		39	86	84	63	63	63	63	63	63	63	63	63	63	63	63	63
30 GAL DRUM	CH_LLMW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRU	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total 30 GAL DRUM		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4X4X8 BOX	CH_LLMW_GTCIII	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CH_LLW_I	466	360	106	367	348	497	1346	1346	1175	511	511	511	511	87	87	87
	CH_LLMW_III	73	7	7	7	7	7	7	7	7	7	7	7	7	7	7	11
	CH_LLW_I	2803	3052	2551	2480	2063	3133	3301	5705	40030	47332	78971	113296	110928	129076	74664	7643
	CH_LLW_III	22	18	18	0	0	0	0	0	0	0	5	5	5	5	5	576
	CH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CH_TRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLMW_GTCIII	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_III	11	44	29	181	18	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_I	81	62	4	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
	RH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total 4X4X8 BOX		3455	3543	2715	3036	2436	3638	4654	7058	41213	47851	79495	113820	111451	129176	74763	8368
55 GAL DRUM	CH_LLMW_GTCIII	2	2	2	33	33	94	48	46	138	168	179	148	205	205	220	220

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
55 GAL DRUM	CH_LLMW_I	908	460	633	3111	2626	3001	2880	3330	3400	3902	4275	4505	4729	4730	4722	4583
	CH_LLMW_III	29	197	197	224	214	229	224	255	257	265	365	346	423	427	425	447
	CH_LLW_I	1331	1688	1665	1546	1509	4128	4041	9833	14199	9454	10290	13493	13102	12767	8938	2677
	CH_LLW_III	37	32	29	24	24	24	23	22	22	25	25	26	26	26	26	299
	CH_TRU	143	244	483	284	264	509	650	206	576	698	520	499	499	499	560	560
	CH_TRUM	6	5	8	4	4	4	60	6	6	6	15	32	117	117	117	117
	RH_LLMW_GTCIII	0	0	0	0	0	0	0	28	28	28	85	85	142	142	142	142
	RH_LLMW_I	31	59	61	61	61	61	4	32	32	32	89	89	146	146	146	146
	RH_LLMW_III	0	0	0	0	0	0	0	28	28	28	91	91	147	147	147	147
	RH_LLW_GTCIII	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_I	76	105	3	2	1	1	86	1	1	1	1	1	1	1	1	1
	RH_LLW_III	6	6	6	6	5	5	4	4	4	4	4	4	4	4	4	83
	RH_TRU	0	0	3	0	25	23	23	0	0	0	0	0	0	0	0	0
	RH_TRUM	0	0	0	7	7	7	7	0	0	0	113	113	113	113	85	57
Total 55 GAL DRUM		2571	2800	3091	5303	4775	8086	8051	13792	18693	14613	16052	19434	19655	19323	15534	9478
B-25 BOX	CH_LLMW_I	271	541	549	542	539	539	539	0	0	0	0	0	0	0	0	0
	CH_LLW_I	875	818	1382	1277	543	467	437	182	182	184	164	210	894	877	101	82
	CH_LLW_III	49	45	23	23	18	14	14	0	0	0	0	0	0	0	0	0
Total B-25 BOX		1195	1402	1954	1842	1100	1020	990	182	182	184	164	210	894	877	101	82
BOX 128-500	CH_LLMW_I	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	CH_LLMW_III	7	7	7	7	7	7	7	7	7	7	7	7	7	10	19	7
	CH_LLW_I	134	418	418	418	418	418	418	418	418	418	418	418	418	10	10	10
	CH_LLW_III	108	65	65	65	11	5	5	5	5	5	5	5	5	5	5	5
	CH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLMW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
	RH_LLW_I	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0
	RH_LLW_III	48	42	33	33	23	23	23	23	23	14	14	14	14	14	14	14

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
BOX OTHER	CH_TRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_GTCIII	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_GTCIII	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_I	6	7	7	11	11	11	11	11	11	11	11	11	11	11	11	11
	RH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRU	0	91	34	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total BOX OTHER		387	2182	1663	3411	564	517	7480	13810	20524	31658	25395	32233	43986	40340	26440	28957
CASKS	CH_LLW_III	39	39	42	42	8	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_III	0	0	0	0	0	0	0	0	0	0	131	131	131	131	131	131
	RH_LLW_III	16	16	111	95	32	32	32	32	32	32	32	32	32	32	32	32
	RH_TRUM	0	0	0	0	0	0	0	0	0	0	3683	7365	7365	0	0	0
Total CASKS		55	55	153	137	40	32	32	32	32	32	3845	7528	7528	162	162	162
LEC	CH_LLW_III	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	CH_LLW_III	32	0	0	32	96	32	32	32	0	0	0	0	0	0	0	0
	RH_LLW_III	244	814	814	1140	977	1058	1140	1303	1506	1547	2443	2321	2036	2280	2158	2606
	RH_TRUM	27	90	90	127	109	118	127	145	167	172	271	258	226	253	240	290
Total LEC		325	927	927	1320	1203	1230	1320	1501	1696	1741	2736	2600	2284	2555	2419	2917
OTHER CYL	CH_LLW_I	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CH_LLW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_GTCIII	0	0	0	0	0	0	0	283	850	1416	2550	3399	5382	7365	7082	6516
Total OTHER CYL		2	0	0	0	0	0	0	283	850	1416	2550	3399	5382	7365	7082	6516
OTHER DRUMS	CH_LLW_I	1	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
OTHER DRUMS	CH_LLW_GTCIII	0	0	0	0	0	0	0	283	850	1416	2550	3399	5382	7365	7082	6516
	CH_LLW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CH_LLW_III	0	0	6	6	0	11	1218	1133	2833	4249	8244	8782	12748	16997	12748	11048
	CH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total OTHER DRUMS		1	450	6	6	0	11	1218	1416	3683	5666	10793	12181	18130	24363	19830	17564
SWB	CH_LLW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CH_TRU	20	56	23	16	12	12	12	12	12	12	12	12	12	12	12	12
	CH_TRUM	0	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_GTCIII	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_TRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total SWB		20	68	27	16	12	12	12	12	12	12	12	12	12	12	12	12
TOTAL		13694	17527	15909	19985	12609	17970	26596	40631	88838	104406	145478	195764	213706	228140	150359	78001

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
10 FT3 ION EX	RH_LLW_I	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	193	95
	RH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	5
Total 10 FT3 ION EX		9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	204	100
277 FT3 ION EX	CH_LLW_I	63	63	63	63	63	63	63	0	0	0	0	0	0	0	0	1273	91
	CH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	9
Total 277 FT3 ION EX		63	63	63	63	63	63	63	0	0	0	0	0	0	0	0	1406	100
30 GAL DRUM	CH_LLMW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
	RH_TRU	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	51	97
Total 30 GAL DRUM		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	52	100
4X4X8 BOX	CH_LLMW_GTCIII	0	0	0	91	91	91	91	91	91	91	91	91	91	0	0	910	0
	CH_LLMW_I	87	87	87	257	257	257	257	257	257	257	257	257	257	87	0	11234	1
	CH_LLMW_III	15	11	15	227	230	227	230	227	230	227	230	227	230	11	44	2566	0
	CH_LLW_I	4136	2526	2488	4507	4486	4388	4565	4452	4378	4468	4411	4381	4570	2555	1737	685077	90
	CH_LLW_III	576	3739	3739	650	14418	14418	650	650	650	650	650	650	650	576	4609	47939	6
	CH_TRU	0	0	0	129	129	129	129	129	129	129	129	129	129	0	0	1288	0
	CH_TRUM	0	0	0	148	148	148	148	148	148	148	148	148	148	0	0	1484	0
	RH_LLMW_GTCIII	0	0	0	23	23	23	23	23	23	23	23	23	23	0	0	232	0
	RH_LLMW_III	0	0	0	45	45	45	45	45	45	45	45	45	45	0	0	736	0
	RH_LLW_I	0	0	0	147	147	147	147	147	147	147	147	147	147	0	0	1615	0
	RH_LLW_III	51	51	55	715	715	715	719	715	715	715	719	715	715	51	415	7831	1
	RH_TRU	0	0	0	32	32	32	32	32	32	32	32	32	32	0	0	325	0
	RH_TRUM	0	0	0	37	37	37	37	37	37	37	37	37	37	0	0	371	0
Total 4X4X8 BOX		4865	6413	6383	7009	20760	20658	7075	6954	6884	6971	6921	6883	7076	3279	6806	761607	100
55 GAL DRUM	CH_LLMW_GTCIII	135	107	78	66	63	63	48	48	33	33	18	18	18	2	48	2524	1

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
55 GAL DRUM	CH_LLMW_I	3852	2569	1880	1877	1884	1888	1897	1897	1865	709	708	709	712	711	1036	75987	28
	CH_LLMW_III	388	321	336	346	371	346	382	351	307	305	284	271	309	275	484	9601	4
	CH_LLW_I	2091	1794	1822	2782	2835	2918	2718	2684	2700	2692	2691	2699	2707	1773	6719	152286	56
	CH_LLW_III	299	299	299	304	304	304	304	304	304	304	304	304	304	303	2182	7108	3
	CH_TRU	475	475	414	520	491	538	477	477	416	416	355	354	355	187	442	13584	5
	CH_TRUM	32	32	32	32	3	53	53	53	53	53	53	53	53	53	398	1624	1
	RH_LLMW_GTCIII	57	28	14	6	4	4	4	4	4	4	4	4	4	0	14	973	0
	RH_LLMW_I	61	32	18	7	4	4	4	4	4	4	4	4	4	4	0	1357	1
	RH_LLMW_III	62	34	20	8	6	6	6	6	6	6	6	6	6	6	45	1081	0
	RH_LLW_GTCIII	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	33	0
	RH_LLW_I	1	1	1	8	8	8	8	8	8	8	8	8	8	1	0	368	0
	RH_LLW_III	83	83	83	83	83	83	83	83	83	83	83	83	83	83	629	1943	1
	RH_TRU	14	14	14	110	109	144	144	144	109	109	109	110	109	14	108	1433	1
	RH_TRUM	42	42	42	42	14	48	48	48	14	14	14	14	14	14	108	1140	0
Total 55 GAL DRUM		7592	5831	5052	6190	6178	6404	6173	6109	5904	4739	4638	4636	4683	3425	12237	271042	100
B-25 BOX	CH_LLMW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3520	24
	CH_LLW_I	80	80	80	82	62	108	792	650	101	82	80	80	80	82	0	11113	75
	CH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186	1
Total B-25 BOX		80	80	80	82	62	108	792	650	101	82	80	80	80	82	0	14819	100
BOX 128-500	CH_LLMW_I	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0	605	8
	CH_LLMW_III	7	7	19	10	7	7	19	7	7	10	19	7	7	7	32	291	4
	CH_LLW_I	10	10	10	30	30	30	30	30	30	30	30	30	30	10	0	5518	71
	CH_LLW_III	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	447	6
	CH_TRU	0	0	0	3	3	3	3	3	3	3	3	3	3	0	77	103	1
	RH_LLMW_III	4	0	5	0	0	0	9	0	0	0	5	0	4	0	14	44	1
	RH_LLW_I	0	0	0	21	21	21	21	21	21	21	21	21	21	0	0	251	3
	RH_LLW_III	14	14	14	14	14	14	14	14	14	14	14	14	14	14	0	555	7

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
Total BOX 128-500		59	56	73	103	100	100	121	100	100	103	117	100	103	56	123	7814	100
BOX 500-1000	CH_LLMW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1
	CH_LLMW_III	26	0	0	0	26	0	0	0	26	0	0	0	26	0	51	179	13
	CH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	12
	RH_LLMW_III	0	0	51	0	0	0	51	0	0	0	51	0	0	0	102	306	22
	RH_TRU	0	0	0	73	73	73	73	73	73	73	73	73	73	73	0	726	52
Total BOX 500-1000		26	0	51	73	98	73	124	73	98	73	124	73	98	0	153	1388	100
BOX < 128	CH_LLMW_I	6	6	9	6	6	9	6	6	9	6	6	9	6	6	0	2722	12
	CH_LLMW_III	0	0	0	0	2	0	0	0	0	3	0	0	0	0	5	322	1
	CH_LLW_I	180	180	180	180	180	180	180	180	180	180	180	180	180	180	158	18530	80
	CH_LLW_III	9	9	9	9	54	9	18	35	18	9	9	9	9	9	0	1505	6
	CH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
	RH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	1
Total BOX < 128		195	195	199	195	241	199	204	221	207	199	195	199	195	195	166	23212	100
BOX > 1000	CH_LLW_I	3613	73	73	73	73	73	73	73	73	73	73	73	73	73	145	27360	71
	CH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10861	28
	RH_LLMW_III	0	0	0	0	44	0	0	0	0	0	0	0	0	0	44	132	0
Total BOX > 1000		3613	73	73	73	117	73	73	73	73	73	73	73	73	73	189	38353	100
BOX OTHER	CH_LLMW_GTCIII	0	0	0	94	94	94	94	94	94	94	94	94	94	0	0	942	0
	CH_LLMW_I	170	170	227	292	321	349	406	264	264	292	349	406	236	0	0	8323	2
	CH_LLMW_III	0	0	0	234	234	234	234	234	234	234	234	234	234	0	0	2337	1
	CH_LLW_GTCIII	0	0	0	238	238	238	238	238	238	238	238	238	238	0	0	2384	1
	CH_LLW_I	7112	1883	896	2368	1405	1405	1405	1405	1405	1405	1405	1405	1405	0	0	299585	77
	CH_LLW_III	0	0	0	2977	2977	2977	2977	2977	2977	2977	2977	2977	2977	0	0	29771	8
	CH_TRU	0	0	0	766	766	778	778	780	778	778	778	778	778	14	98	7872	2

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
BOX OTHER	CH_TRUM	0	0	0	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	0	0	11285	3
	RH_LLMW_GTCIII	0	0	0	34	34	34	34	34	34	34	34	34	34	0	0	338	0
	RH_LLMW_I	0	0	0	28	28	28	28	28	28	28	28	28	28	0	242	520	0
	RH_LLMW_III	0	0	0	73	73	73	73	73	73	73	73	73	73	0	0	734	0
	RH_LLW_GTCIII	0	0	0	106	106	106	106	106	106	106	106	106	106	0	0	1059	0
	RH_LLW_I	11	11	11	217	217	217	205	205	205	205	205	205	205	0	1022	3310	1
	RH_LLW_III	0	0	0	698	698	698	698	698	698	698	698	698	698	0	0	6984	2
	RH_TRU	0	0	0	972	972	972	972	972	972	972	972	972	972	0	697	10545	3
	RH_TRUM	0	0	0	287	287	287	287	287	287	287	287	287	287	0	0	2874	1
Total BOX OTHER		7293	2065	1134	10514	9580	9620	9665	9526	9524	9552	9609	9665	9495	14	2059	388863	100
CASKS	CH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	1
	RH_LLMW_III	131	131	131	131	131	131	131	131	131	131	131	131	131	131	1045	3658	16
	RH_LLW_III	32	32	32	32	32	32	32	32	32	32	32	32	32	32	0	1065	5
	RH_TRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18414	79
Total CASKS		162	162	162	162	162	162	162	162	162	162	162	162	162	162	1045	23307	100
LEC	CH_LLMW_III	22	22	22	22	22	22	22	22	22	22	22	22	22	22	0	657	1
	CH_LLW_III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256	0
	RH_LLMW_III	3298	4071	5008	5415	6229	6880	7084	7287	2687	2443	2076	2402	2728	2687	3053	87733	89
	RH_TRUM	366	452	556	602	692	764	787	810	299	271	231	267	303	299	339	9748	10
Total LEC		3686	4545	5586	6038	6943	7667	7893	8119	3007	2736	2329	2691	3053	3007	3393	98394	100
OTHER CYL	CH_LLMW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	CH_LLW_I	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0
	RH_LLW_GTCIII	2266	1416	708	708	0	0	0	0	0	0	0	0	0	0	0	39943	100
Total OTHER CYL		2266	1416	711	708	0	0	0	0	0	0	0	0	0	0	0	39948	100
OTHER DRUMS	CH_LLMW_I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	451	0

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Waste Volumes by Container Type and Waste Class
(All Volumes in Cubic Meters)

Container	Waste Class	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
OTHER DRUMS	CH_LLW_GTCIII	2266	1416	708	708	0	0	0	0	0	0	0	0	0	0	0	39943	31
	CH_LLW_I	0	0	0	4	4	4	4	4	4	4	4	4	4	0	0	40	0
	CH_LLW_III	3966	2833	1416	1416	0	0	0	0	0	0	0	0	0	0	0	89655	69
	CH_TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH_LLW_I	0	0	0	4	4	4	4	4	4	4	4	4	4	0	0	44	0
	RH_TRU	0	0	0	11	11	11	11	11	11	11	11	11	11	0	1	108	0
	RH_TRUM	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	6	0
Total OTHER DRUMS		6232	4249	2125	2144	20	20	20	20	20	20	20	20	20	0	1	130247	100
SWB	CH_LLW_I	0	0	0	6	6	6	6	6	6	6	6	6	6	0	0	64	2
	CH_TRU	12	12	12	34	34	34	34	34	34	34	34	34	34	12	9	668	22
	CH_TRUM	0	0	0	0	0	9	9	9	9	9	11	9	9	9	75	176	6
	RH_LLW_GTCIII	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	11	0
	RH_TRU	33	36	36	41	43	129	131	129	41	43	41	42	41	36	277	1098	36
	RH_TRUM	36	33	36	36	33	122	122	122	36	33	36	36	33	36	279	1027	34
Total SWB		82	82	84	119	119	302	304	302	128	128	130	129	126	93	640	3046	100
TOTAL		36225	25242	21785	33484	44454	45459	32606	32310	26209	24838	24399	24712	25165	10389	26811	1803701	

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APPENDIX D

ANNUAL WASTE CLASS VOLUMES BY CONTAINER TYPES

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CH_LLMW_GTCIII	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	2	2	2	33	33	94	48	46	138	168	179	148	205	205	220	220
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CH_LLMW_GTCIII		2	2	2	33	33	94	48	46	138	168	179	148	205	205	220	220
CH_LLMW_I	30 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4X4X8 BOX	466	360	106	367	348	497	1346	1346	1175	511	511	511	511	87	87	87
	55 GAL DRUM	908	460	633	3111	2626	3001	2880	3330	3400	3902	4275	4505	4729	4730	4722	4583
	B-25 BOX	271	541	549	542	539	539	539	0	0	0	0	0	0	0	0	0
	BOX 128-500	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	BOX 500-1000	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BOX < 128	1892	321	321	9	6	6	9	6	6	9	6	6	9	6	6	9
	BOX OTHER	260	326	368	170	170	353	353	353	353	227	227	227	340	340	340	170
	OTHER CYL	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER DRUMS	1	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CH_LLMW_I		3835	2479	1997	4220	3710	4417	5147	5054	4954	4669	5039	5269	5609	5182	5175	4869
CH_LLMW_III	4X4X8 BOX	73	7	7	7	7	7	7	7	7	7	7	7	7	7	7	11
	55 GAL DRUM	29	197	197	224	214	229	224	255	257	265	365	346	423	427	425	447
	BOX 128-500	7	7	7	7	7	7	7	7	7	7	7	7	7	10	19	7
	BOX 500-1000	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0
	BOX < 128	62	62	62	62	62	0	0	0	0	0	0	0	0	0	0	3
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LEC	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Total CH_LLMW_III		192	294	294	322	312	265	260	290	293	301	400	382	485	466	473	490
CH_LLW_GTCIII	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER DRUMS	0	0	0	0	0	0	0	283	850	1416	2550	3399	5382	7365	7082	6516

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total CH_LLW_GTCIII		0	0	0	0	0	0	0	283	850	1416	2550	3399	5382	7365	7082	6516
CH_LLW_I	277 FT3 ION EX	39	16	22	63	63	63	63	63	63	63	63	63	63	63	63	63
	4X4X8 BOX	2803	3052	2551	2480	2063	3133	3301	5705	40030	47332	78971	113296	110928	129076	74664	7643
	55 GAL DRUM	1331	1688	1665	1546	1509	4128	4041	9833	14199	9454	10290	13493	13102	12767	8938	2677
	B-25 BOX	875	816	1382	1277	543	467	437	182	182	184	164	210	894	877	101	82
	BOX 128-500	134	418	418	418	418	418	418	418	418	418	418	418	418	10	10	10
	BOX < 128	2946	1328	624	439	1518	2480	1957	1714	1201	563	180	180	180	180	180	180
	BOX > 1000	326	73	73	73	73	73	73	73	73	73	3613	3613	3613	3612	3613	3614
	BOX OTHER	122	1757	1253	3230	383	153	7116	13446	20160	31420	25157	31995	43635	39988	26089	28775
	OTHER CYL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CH_LLW_I		8576	9148	7988	9527	6569	10915	17405	31433	76326	89506	118857	163269	172833	186573	113658	43044
CH_LLW_III	4X4X8 BOX	22	18	18	0	0	0	0	0	0	0	5	5	5	5	5	576
	55 GAL DRUM	37	32	29	24	24	24	23	22	22	25	25	26	26	26	26	299
	B-25 BOX	49	45	23	23	18	14	14	0	0	0	0	0	0	0	0	0
	BOX 128-500	108	65	65	65	11	5	5	5	5	5	5	5	5	5	5	5
	BOX 500-1000	0	0	0	23	69	23	23	23	0	0	0	0	0	0	0	0
	BOX < 128	53	19	19	36	164	267	224	181	126	52	55	9	18	35	18	9
	BOX > 1000	0	3620	3620	3620	0	0	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CASKS	39	39	42	42	8	0	0	0	0	0	0	0	0	0	0	0
	LEC	32	0	0	32	96	32	32	32	0	0	0	0	0	0	0	0
	OTHER DRUMS	0	0	6	6	0	11	1218	1133	2833	4249	8244	8782	12748	16997	12748	11048
Total CH_LLW_III		340	3839	3822	3871	390	376	1540	1397	2987	4331	8334	8828	12803	17069	12803	11938
CH_TRU	277 FT3 ION EX	0	71	63	0	0	0	0	0	0	0	0	0	0	0	0	0
	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CH_TRU	55 GAL DRUM	143	244	483	284	264	509	650	206	576	698	520	499	499	499	560	560
	BOX 128-500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BOX < 128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWB	20	56	23	16	12	12	12	12	12	12	12	12	12	12	12	12
Total CH_TRU		163	371	569	300	277	521	662	218	588	711	533	512	511	511	572	572
CH_TRUM	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	6	5	8	4	4	4	60	6	6	6	15	32	117	117	117	117
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWB	0	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Total CH_TRUM		6	17	12	4	4	4	60	6	6	6	15	32	117	117	117	117
RH_LLMW_GTCIII	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	0	0	0	28	28	28	85	85	142	142	142	142
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total RH_LLMW_GTCIII		0	0	0	0	0	0	0	28	28	28	85	85	142	142	142	142
RH_LLMW_I	55 GAL DRUM	31	59	61	61	61	61	4	32	32	32	89	89	146	146	146	146
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total RH_LLMW_I		31	59	61	61	61	61	4	32	32	32	89	89	146	146	146	146
RH_LLMW_III	4X4X8 BOX	11	44	29	181	18	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	0	0	0	28	28	28	91	91	147	147	147	147
	BOX 128-500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
	BOX 500-1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	0
	BOX > 1000	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
RH_LLMW_III	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CASKS	0	0	0	0	0	0	0	0	0	0	131	131	131	131	131	131
	LEC	244	814	814	1140	977	1058	1140	1303	1506	1547	2443	2321	2036	2280	2158	2606
Total RH_LLMW_III		255	858	843	1321	995	1058	1140	1331	1535	1575	2708	2542	2313	2558	2492	2883
RH_LLW_GTCIII	55 GAL DRUM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER CYL	0	0	0	0	0	0	0	283	850	1416	2550	3399	5382	7365	7082	6516
Total RH_LLW_GTCIII		1	0	0	0	0	0	0	284	850	1417	2550	3400	5383	7366	7083	6516
RH_LLW_I	10 FT3 10N EX	6	0	0	16	16	9	9	9	9	9	9	9	9	9	9	9
	4X4X8 BOX	81	62	4	0	0	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	76	105	3	2	1	1	86	1	1	1	1	1	1	1	1	1
	BOX 128-500	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0
	BOX OTHER	6	7	7	11	11	11	11	11	11	11	11	11	11	11	11	11
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total RH_LLW_I		174	180	20	35	35	27	112	22	22	22	22	22	22	22	22	22
RH_LLW_III	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
	55 GAL DRUM	6	6	6	6	5	5	4	4	4	4	4	4	4	4	4	83
	BOX 128-500	48	42	33	33	23	23	23	23	23	14	14	14	14	14	14	14
	BOX < 128	22	22	22	22	22	22	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CASKS	16	16	111	95	32	32	32	32	32	32	32	32	32	32	32	32
Total RH_LLW_III		92	86	172	156	82	82	59	59	59	50	50	50	50	50	50	179
RH_TRU	10 FT3 10N EX	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30 GAL DRUM	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
RH_TRU	55 GAL DRUM	0	0	3	0	25	23	23	0	0	0	0	0	0	0	0	0
	BOX 500-1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	91	34	0	0	0	0	0	0	0	0	0	0	0	0	0
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total RH_TRU		2	103	39	2	27	25	25	2	2	2	2	2	2	2	2	2
RH_TRUM	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	7	7	7	7	0	0	0	113	113	113	113	85	57
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CASKS	0	0	0	0	0	0	0	0	0	0	3683	7365	7365	0	0	0
	LEC	27	90	90	127	109	118	127	145	167	172	271	258	226	253	240	290
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total RH_TRUM		27	90	90	134	116	125	134	145	167	172	4067	7737	7705	367	325	346
TOTAL		13694	17527	15909	19985	12609	17970	26596	40631	88838	104406	145478	195764	213706	228140	150359	78001

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
CH_LLMW_GTCIII	4X4X8 BOX	0	0	0	91	91	91	91	91	91	91	91	91	91	0	0	910	21
	55 GAL DRUM	135	107	78	66	63	63	48	48	33	33	18	18	18	2	48	2524	58
	BOX OTHER	0	0	0	94	94	94	94	94	94	94	94	94	94	0	0	942	22
Total CH_LLMW_GTCIII		135	107	78	251	249	249	233	233	218	218	203	203	203	2	48	4376	100
CH_LLMW_I	30 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	4X4X8 BOX	87	87	87	257	257	257	257	257	257	257	257	257	257	87	0	11234	11
	55 GAL DRUM	3852	2569	1880	1877	1884	1888	1897	1897	1865	709	708	709	712	711	1036	75987	74
	B-25 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3520	3
	BOX 128-500	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0	605	1
	BOX 500-1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
	BOX < 128	6	6	9	6	6	9	6	6	9	6	6	9	6	6	0	2722	3
	BOX OTHER	170	170	227	292	321	349	406	264	264	292	349	406	236	0	0	8323	8
	OTHER CYL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	451	0
Total CH_LLMW_I		4135	2852	2223	2452	2488	2523	2585	2445	2416	1285	1340	1402	1231	824	1036	102861	100
CH_LLMW_III	4X4X8 BOX	15	11	15	227	230	227	230	227	230	227	230	227	230	11	44	2566	16
	55 GAL DRUM	388	321	336	346	371	346	382	351	307	305	284	271	309	275	484	9601	60
	BOX 128-500	7	7	19	10	7	7	19	7	7	10	19	7	7	7	32	291	2
	BOX 500-1000	26	0	0	0	26	0	0	0	26	0	0	0	26	0	51	179	1
	BOX < 128	0	0	0	0	2	0	0	0	0	3	0	0	0	0	5	322	2
	BOX OTHER	0	0	0	234	234	234	234	234	234	234	234	234	234	0	0	2337	15
	LEC	22	22	22	22	22	22	22	22	22	22	22	22	22	22	0	657	4
Total CH_LLMW_III		457	361	391	838	891	835	887	840	825	802	789	760	827	315	616	15953	100
CH_LLMW_GTCIII	BOX OTHER	0	0	0	238	238	238	238	238	238	238	238	238	238	0	0	2384	6
	OTHER DRUMS	2266	1416	708	708	0	0	0	0	0	0	0	0	0	0	0	39943	94

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
Total CH_LLW_GTCIII		2266	1416	708	947	238	238	238	238	238	238	238	238	238	0	0	42327	100
CH_LLW_I	277 FT3 ION EX	63	63	63	63	63	63	0	0	0	0	0	0	0	0	0	1273	0
	4X4X8 BOX	4136	2526	2488	4507	4486	4388	4565	4452	4378	4468	4411	4381	4570	2555	1737	685077	57
	55 GAL DRUM	2091	1794	1822	2782	2835	2918	2718	2684	2700	2692	2691	2699	2707	1773	6719	152286	13
	B-25 BOX	80	80	80	82	62	108	792	650	101	82	80	80	80	82	0	11113	1
	BOX 128-500	10	10	10	30	30	30	30	30	30	30	30	30	30	10	0	5518	0
	BOX < 128	180	180	180	180	180	180	180	180	180	180	180	180	180	180	158	18530	2
	BOX > 1000	3613	73	73	73	73	73	73	73	73	73	73	73	73	73	145	27360	2
	BOX OTHER	7112	1883	896	2368	1405	1405	1405	1405	1405	1405	1405	1405	1405	0	0	299585	25
	OTHER CYL	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0
	OTHER DRUMS	0	0	0	4	4	4	4	4	4	4	4	4	4	0	0	40	0
	SWB	0	0	0	6	6	6	6	6	6	6	6	6	6	0	0	64	0
Total CH_LLW_I		17285	6609	5614	10095	9145	9176	9773	9484	8877	8941	8880	8858	9055	4672	8760	1200849	100
CH_LLW_III	4X4X8 BOX	576	3739	3739	650	14418	14418	650	650	650	650	650	650	650	576	4609	47939	25
	55 GAL DRUM	299	299	299	304	304	304	304	304	304	304	304	304	304	303	2182	7108	4
	B-25 BOX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186	0
	BOX 128-500	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	447	0
	BOX 500-1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	0
	BOX < 128	9	9	9	9	54	9	18	35	18	9	9	9	9	9	0	1505	1
	BOX > 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10861	6
	BOX OTHER	0	0	0	2977	2977	2977	2977	2977	2977	2977	2977	2977	2977	0	0	29771	16
	CASKS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	0
	LEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256	0
	OTHER DRUMS	3966	2833	1416	1416	0	0	0	0	0	0	0	0	0	0	0	89655	48
Total CH_LLW_III		4856	6885	5469	5362	17758	17713	3954	3971	3954	3946	3946	3946	3946	894	6791	188058	100
CH_TRU	277 FT3 ION EX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	1
	4X4X8 BOX	0	0	0	129	129	129	129	129	129	129	129	129	129	0	0	1288	5

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
CH_TRU	55 GAL DRUM	475	475	414	520	491	538	477	477	416	416	355	354	355	187	442	13584	57
	BOX 128-500	0	0	0	3	3	3	3	3	3	3	3	3	3	0	77	103	0
	BOX < 128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
	BOX OTHER	0	0	0	766	766	778	778	780	778	778	778	778	778	14	98	7872	33
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWB	12	12	12	34	34	34	34	34	34	34	34	34	34	12	9	668	3
Total CH_TRU		488	487	426	1452	1423	1482	1421	1423	1360	1360	1299	1298	1299	214	628	23651	100
CH_TRUM	4X4X8 BOX	0	0	0	148	148	148	148	148	148	148	148	148	148	0	0	1484	10
	55 GAL DRUM	32	32	32	32	3	53	53	53	53	53	53	53	53	53	398	1624	11
	BOX OTHER	0	0	0	1129	1129	1129	1129	1129	1129	1129	1129	1129	1129	0	0	11285	77
	SWB	0	0	0	0	0	9	9	9	9	9	11	9	9	9	75	176	1
Total CH_TRUM		32	32	32	1309	1281	1339	1339	1339	1339	1339	1341	1339	1339	62	473	14569	100
RH_LLMW_GTCIII	4X4X8 BOX	0	0	0	23	23	23	23	23	23	23	23	23	23	0	0	232	15
	55 GAL DRUM	57	28	14	6	4	4	4	4	4	4	4	4	4	0	14	973	63
	BOX OTHER	0	0	0	34	34	34	34	34	34	34	34	34	34	0	0	338	22
	SWB	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	11	1
Total RH_LLMW_GTCIII		57	28	14	64	62	62	62	62	62	62	62	62	62	0	14	1554	100
RH_LLMW_I	55 GAL DRUM	61	32	18	7	4	4	4	4	4	4	4	4	4	4	0	1357	72
	BOX OTHER	0	0	0	28	28	28	28	28	28	28	28	28	28	0	242	520	28
Total RH_LLMW_I		61	32	18	35	32	32	32	32	32	32	32	32	32	4	242	1877	100
RH_LLMW_III	4X4X8 BOX	0	0	0	45	45	45	45	45	45	45	45	45	45	0	0	736	1
	55 GAL DRUM	62	34	20	8	6	6	6	6	6	6	6	6	6	6	45	1081	1
	BOX 128-500	4	0	5	0	0	0	9	0	0	0	5	0	4	0	14	44	0
	BOX 500-1000	0	0	51	0	0	0	51	0	0	0	51	0	0	0	102	306	0
	BOX > 1000	0	0	0	0	44	0	0	0	0	0	0	0	0	0	44	132	0

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
RH_LLMW_III	BOX OTHER	0	0	0	73	73	73	73	73	73	73	73	73	73	0	0	734	1
	CASKS	131	131	131	131	131	131	131	131	131	131	131	131	131	131	1045	3658	4
	LEC	3298	4071	5008	5415	6229	6880	7084	7287	2687	2443	2076	2402	2728	2687	3053	87733	93
Total RH_LLMW_III		3494	4236	5214	5672	6528	7135	7398	7542	2942	2698	2387	2657	2986	2823	4303	94425	100
RH_LLW_GTCIII	55 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	33	0
	BOX OTHER	0	0	0	106	106	106	106	106	106	106	106	106	106	0	0	1059	3
	OTHER CYL	2266	1416	708	708	0	0	0	0	0	0	0	0	0	0	0	39943	97
Total RH_LLW_GTCIII		2267	1417	709	814	106	106	106	106	106	106	106	106	106	0	24	41035	100
RH_LLW_I	10 FT3 ION EX	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	193	3
	4X4X8 BOX	0	0	0	147	147	147	147	147	147	147	147	147	147	0	0	1615	28
	55 GAL DRUM	1	1	1	8	8	8	8	8	8	8	8	8	8	1	0	368	6
	BOX 128-500	0	0	0	21	21	21	21	21	21	21	21	21	21	0	0	251	4
	BOX OTHER	11	11	11	217	217	217	205	205	205	205	205	205	205	0	1022	3310	57
	OTHER DRUMS	0	0	0	4	4	4	4	4	4	4	4	4	4	0	0	44	1
Total RH_LLW_I		22	22	22	406	406	406	385	385	385	385	385	385	385	1	1022	5781	100
RH_LLW_III	4X4X8 BOX	51	51	55	715	715	715	719	715	715	715	719	715	715	51	415	7831	42
	55 GAL DRUM	83	83	83	83	83	83	83	83	83	83	83	83	83	83	629	1943	10
	BOX 128-500	14	14	14	14	14	14	14	14	14	14	14	14	14	14	0	555	3
	BOX < 128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	1
	BOX OTHER	0	0	0	698	698	698	698	698	698	698	698	698	698	0	0	6984	38
	CASKS	32	32	32	32	32	32	32	32	32	32	32	32	32	32	0	1065	6
Total RH_LLW_III		179	179	183	1541	1541	1541	1545	1541	1541	1541	1545	1541	1541	179	1044	18509	100
RH_TRU	10 FT3 ION EX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
	30 GAL DRUM	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	51	0
	4X4X8 BOX	0	0	0	32	32	32	32	32	32	32	32	32	32	0	0	325	2

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Waste Volumes by Waste Class and Container Type
(All Volumes in Cubic Meters)

Waste Class	Container	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	HELD	Total	Pct
RH_TRU	55 GAL DRUM	14	14	14	110	109	144	144	144	109	109	109	110	109	14	108	1433	10
	BOX 500-1000	0	0	0	73	73	73	73	73	73	73	73	73	73	0	0	726	5
	BOX OTHER	0	0	0	972	972	972	972	972	972	972	972	972	972	0	697	10545	74
	OTHER DRUMS	0	0	0	11	11	11	11	11	11	11	11	11	11	0	1	108	1
	SWB	33	36	36	41	43	129	131	129	41	43	41	42	41	36	277	1098	8
Total RH_TRU		49	51	51	1240	1242	1362	1365	1362	1240	1242	1240	1242	1240	51	1082	14297	100
RH_TRUM	4X4X8 BOX	0	0	0	37	37	37	37	37	37	37	37	37	37	0	0	371	1
	55 GAL DRUM	42	42	42	42	14	48	48	48	14	14	14	14	14	14	108	1140	3
	BOX OTHER	0	0	0	287	287	287	287	287	287	287	287	287	287	0	0	2874	9
	CASKS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18414	55
	LEC	366	452	556	602	692	764	787	810	299	271	231	267	303	299	339	9748	29
	OTHER DRUMS	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	6	0
	SWB	36	33	36	36	33	122	122	122	36	33	36	36	33	36	279	1027	3
Total RH_TRUM		444	528	634	1005	1064	1259	1282	1304	673	644	605	641	675	348	727	33580	100
TOTAL		36225	25242	21785	33484	44454	45459	32606	32310	26209	24838	24399	24712	25165	10389	26811	1803701	

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APPENDIX E

WASTE GENERATOR CONTAINER TYPE VOLUMES BY WASTE CLASS

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLM_GTCIII	CH_LLM_I	CH_LLM_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
AMES	4X4X8 BOX	0	236	0	0	468	0	0	0	0	0	0
	55 GAL DRUM	0	1	0	0	47	0	0	0	0	0	0
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0
	Total for AMES	0	237	0	0	515	0	0	0	0	0	0
ANL_E	30 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	0	441	0	0	5122	0	178	7	0	0	0
	BOX < 128	0	2519	0	0	3909	0	0	0	0	0	0
	Total for ANL_E	0	2960	0	0	9032	0	178	7	0	0	0
BAPL	55 GAL DRUM	0	31	0	0	0	0	0	0	0	0	0
	B-25 BOX	0	5	0	0	0	186	0	0	0	0	0
	CASKS	0	0	0	0	0	170	0	0	0	0	0
	OTHER CYL	0	2	0	0	0	0	0	0	0	0	0
	Total for BAPL	0	38	0	0	0	355	0	0	0	0	0
BAPL_SHIPYDS	BOX 128-500	0	0	0	0	124	0	0	0	0	0	0
	OTHER CYL	0	0	0	0	3	0	0	0	0	0	0
	Total for BAPL_SHIPYDS	0	0	0	0	126	0	0	0	0	0	0
BAT_CLBS_LAB	55 GAL DRUM	0	47	0	0	0	0	0	0	0	0	0
	B-25 BOX	0	0	0	0	1772	0	0	0	0	0	0
	Total for BAT_CLBS_LAB	0	47	0	0	1772	0	0	0	0	0	0
BRKHVN	4X4X8 BOX	0	0	0	0	11164	0	0	0	0	0	0
	55 GAL DRUM	0	136	0	0	2952	0	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
Total for BRKHVN		0	136	0	0	14115	0	0	0	0	0	0
B_LEHR_DAV	55 GAL DRUM	0	5	0	0	26	0	0	0	0	0	0
	B-25 BOX	0	0	0	0	991	0	0	0	0	0	0
Total for B_LEHR_DAV		0	5	0	0	1016	0	0	0	0	0	0
EG&G	55 GAL DRUM	0	0	0	0	131	0	0	0	0	0	0
	BOX < 128	0	0	0	0	156	0	0	0	0	0	0
Total for EG&G		0	0	0	0	286	0	0	0	0	0	0
FERMI	55 GAL DRUM	0	63	0	0	175	0	0	0	0	0	0
	BOX < 128	0	0	0	0	1016	0	0	0	0	0	0
Total for FERMI		0	63	0	0	1191	0	0	0	0	0	0
FUSRAP	4X4X8 BOX	0	0	0	0	12728	33861	0	0	0	0	0
	BOX > 1000	0	0	0	0	0	10861	0	0	0	0	0
Total for FUSRAP		0	0	0	0	12728	44722	0	0	0	0	0
GEN_ATOM	4X4X8 BOX	0	0	0	0	164	0	0	0	0	0	0
	55 GAL DRUM	0	9	0	0	0	0	0	0	0	0	0
	BOX < 128	0	0	0	0	359	0	0	0	0	0	0
Total for GEN_ATOM		0	9	0	0	523	0	0	0	0	0	0
KAPL_SHIPYDS	BOX 128-500	0	0	0	0	0	216	0	0	0	0	0
	BOX 500-1000	0	0	0	0	0	161	0	0	0	0	0
	LEC	0	0	657	0	0	256	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
Total for KAPL_SHIPYDS		0	0	657	0	0	633	0	0	0	0	0
KEH_100	55 GAL DRUM	0	0	0	0	61	0	0	0	0	0	0
Total for KEH_100		0	0	0	0	61	0	0	0	0	0	0
LBL	55 GAL DRUM	0	257	30	0	553	88	3	0	0	0	0
	BOX < 128	0	0	0	0	9049	990	0	0	0	0	0
Total for LBL		0	257	30	0	9602	1078	3	0	0	0	0
LLNL	55 GAL DRUM	0	629	0	0	1962	0	654	31	0	0	0
	BOX < 128	0	0	0	0	2614	0	0	0	0	0	0
	BOX > 1000	0	0	0	0	2324	0	0	0	0	0	0
	SNB	0	0	0	0	0	0	122	0	0	0	0
Total for LLNL		0	629	0	0	6900	0	776	31	0	0	0
LL_EQUIP	LEC	0	0	0	0	0	0	0	0	0	0	87733
Total for LL_EQUIP		0	0	0	0	0	0	0	0	0	0	87733
LL_EQUIP_SEC	4X4X8 BOX	0	0	0	0	3293	0	0	0	0	0	0
	55 GAL DRUM	0	476	1158	0	0	0	0	0	0	0	0
Total for LL_EQUIP_SEC		0	476	1158	0	3293	0	0	0	0	0	0
MIT_BATES	55 GAL DRUM	0	0	0	0	4	0	0	0	0	0	0
Total for MIT_BATES		0	0	0	0	4	0	0	0	0	0	0
PADUCAH_ES	55 GAL DRUM	0	2620	0	0	44854	0	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
PADUCAH_ES	BOX < 128	0	0	308	0	66	0	0	0	0	0	0
	Total for PADUCAH_ES	0	2620	308	0	44919	0	0	0	0	0	0
PADUCAH_U	55 GAL DRUM	0	84	0	0	4827	0	0	0	0	0	0
	Total for PADUCAH_U	0	84	0	0	4827	0	0	0	0	0	0
PAST_PRAC_REM	55 GAL DRUM	1484	47789	520	0	0	0	5935	0	0	0	0
	Total for PAST_PRAC_REM	1484	47789	520	0	0	0	5935	0	0	0	0
PNL	4X4X8 BOX	0	0	0	0	10462	0	0	0	0	0	0
	55 GAL DRUM	14	221	0	0	1719	39	32	1	14	0	0
	BOX 128-500	0	0	198	0	0	192	77	0	0	0	0
	BOX < 128	0	0	0	0	0	0	2	0	0	0	0
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0
	Total for PNL	14	221	198	0	12181	231	111	1	14	0	0
PORTSMOUTH	55 GAL DRUM	34	17426	11	0	0	0	0	0	0	0	0
	B-25 BOX	0	3512	0	0	3378	0	0	0	0	0	0
	BOX 128-500	0	0	0	0	4895	0	0	0	0	0	0
	OTHER DRUMS	0	450	0	0	0	0	0	0	0	0	0
	Total for PORTSMOUTH	34	21388	11	0	8273	0	0	0	0	0	0
PRINCETON	55 GAL DRUM	0	57	0	0	1011	0	0	0	0	0	0
	B-25 BOX	0	0	0	0	4481	0	0	0	0	0	0
	BOX < 128	0	0	0	0	0	515	0	0	0	0	0
	Total for PRINCETON	0	57	0	0	5491	515	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
RKW_CANOGA	55 GAL DRUM	0	0	0	0	0	0	2	0	0	0	0
	B-25 BOX	0	0	0	0	313	0	0	0	0	0	0
	BOX < 120	0	0	0	0	1316	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for RWK_CANOGA		0	0	0	0	1629	0	2	0	0	0	0
STANFORD	4X4X8 BOX	0	0	0	0	1321	0	0	0	0	0	0
	55 GAL DRUM	0	11	0	0	25	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for STANFORD		0	11	0	0	1346	0	0	0	0	0	0
TPNL_231Z	4X4X8 BOX	0	0	0	0	4	0	32	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	2	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for TPNL_231Z		0	0	0	0	4	0	32	2	0	0	0
TPNL_242B/BL	4X4X8 BOX	0	0	0	0	12	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	84	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for TPNL_242B/BL		0	0	0	0	96	0	0	0	0	0	0
TPNL_306W	4X4X8 BOX	0	0	0	0	13	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	7	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	31	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for TPNL_306W		0	0	0	0	51	0	0	0	0	0	0
TPNL_314	4X4X8 BOX	0	0	0	0	1589	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	1589	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for TPNL_314		0	0	0	0	3178	0	0	0	0	0	0
TPNL_324	4X4X8 BOX	0	3	0	0	292	5	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
TPNL_324	55 GAL DRUM	0	0	0	0	18	5	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	212	212
	OTHER DRUMS	0	0	0	0	40	0	0	0	0	0	0
	Total for TPNL_324	0	3	0	0	350	10	0	0	0	212	212
TPNL_326	4X4X8 BOX	0	7	0	0	3	0	0	0	0	0	0
	BOX OTHER	0	11	0	0	13	0	0	0	0	7	0
	Total for TPNL_326	0	18	0	0	16	0	0	0	0	7	0
TPNL_327	4X4X8 BOX	0	0	0	0	423	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	393	0	0	0	0	0	0
	BOX 128-500	0	0	0	0	0	0	27	0	0	0	0
	BOX 500-1000	0	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	332	0	0	0	0	0	0
	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0
	Total for TPNL_327	0	0	0	0	1149	0	27	0	0	0	0
TPNL_331	4X4X8 BOX	0	0	0	0	1746	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	162	0	0	0	0	0	0
	Total for TPNL_331	0	0	0	0	1908	0	0	0	0	0	0
TWHC_100N	4X4X8 BOX	0	0	0	0	8326	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0
	Total for TWHC_100N	0	0	0	0	8326	0	0	0	0	0	0
TWHC_202A	55 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	236	0	2384	0	2384	379	6	0	59	0
	SWB	0	0	0	0	0	0	216	3	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLM_GTCIII	CH_LLM_I	CH_LLM_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
Total for TWHC_202A		0	236	0	2384	0	2384	595	9	0	59	0
TWHC_202A_TW	BOX OTHER	0	0	0	0	0	0	0	0	0	242	0
Total for TWHC_202A_TW		0	0	0	0	0	0	0	0	0	242	0
TWHC_221T	4X4X8 BOX	906	0	1813	0	3572	0	0	1360	227	0	453
	55 GAL DRUM	0	0	0	0	0	0	850	0	0	0	0
	BOX OTHER	906	0	1813	0	3572	0	0	1360	227	0	453
Total for TWHC_221T		1813	0	3626	0	7144	0	850	2720	453	0	906
TWHC_222S	55 GAL DRUM	0	0	0	0	9078	0	0	0	36	0	0
	BOX OTHER	5	36	0	0	3661	0	0	0	61	0	0
	SWB	0	0	0	0	64	0	0	0	11	0	0
Total for TWHC_222S		5	36	0	0	12803	0	0	0	107	0	0
TWHC_225B	4X4X8 BOX	0	0	0	0	2270	0	0	0	0	0	0
	BOX OTHER	0	0	277	0	4610	27387	0	0	0	0	69
Total for TWHC_225B		0	0	277	0	6880	27387	0	0	0	0	69
TWHC_2345Z	4X4X8 BOX	0	0	0	0	0	0	1256	124	0	0	0
	55 GAL DRUM	0	0	0	0	0	0	126	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	7282	9917	0	0	0
Total for TWHC_2345Z		0	0	0	0	0	0	8663	10041	0	0	0
TWHC_242A	4X4X8 BOX	0	20	12	0	0	0	0	0	2	0	0
	BOX OTHER	0	183	110	0	0	0	0	0	20	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLW_III
Total for TWHC_242A		0	204	122	0	0	0	0	0	22	0	0
TWHC_242S	4X4X8 BOX	0	20	12	0	0	0	0	0	2	0	0
	BOX OTHER	0	183	110	0	0	0	0	0	20	0	0
Total for TWHC_242S		0	204	122	0	0	0	0	0	22	0	0
TWHC_242T	4X4X8 BOX	4	0	3	0	0	0	0	0	1	0	0
	BOX OTHER	30	0	27	0	0	0	0	0	11	0	0
Total for TWHC_242T		34	0	30	0	0	0	0	0	12	0	0
TWHC_306	4X4X8 BOX	0	0	0	0	5	0	0	0	0	0	0
Total for TWHC_306		0	0	0	0	5	0	0	0	0	0	0
TWHC_308	4X4X8 BOX	0	0	0	0	116	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	12	0	86	0	0	0	0
	SNB	0	0	0	0	0	0	5	0	0	0	0
Total for TWHC_308		0	0	0	0	129	0	90	0	0	0	0
TWHC_340	BOX 128-500	0	0	0	0	198	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0
Total for TWHC_340		0	0	0	0	198	0	0	0	0	0	0
TWHC_GROUT	4X4X8 BOX	0	0	0	0	276	0	0	0	0	0	0
Total for TWHC_GROUT		0	0	0	0	276	0	0	0	0	0	0
TWHC_HWVP	4X4X8 BOX	0	147	221	0	368	736	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
TWHC_HWVP	55 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0
	SWB	0	0	0	0	0	0	0	0	0	0	0
	Total for TWHC_HWVP	0	147	221	0	368	736	0	0	0	0	0
TWHC_PX_C018H	4X4X8 BOX	0	1501	98	0	0	0	0	0	0	0	0
	Total for TWHC_PX_C018H	0	1501	98	0	0	0	0	0	0	0	0
TWHC_TRUSAF	4X4X8 BOX	0	7	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	6	0	0	0	0	0	0	0	0	0
	Total for TWHC_TRUSAF	0	13	0	0	0	0	0	0	0	0	0
U_U	55 GAL DRUM	0	6	0	0	6	0	0	0	0	0	0
	Total for U_U	0	6	0	0	6	0	0	0	0	0	0
WHC_100	30 GAL DRUM	0	1	0	0	0	0	0	0	0	0	0
	4X4X8 BOX	0	0	0	0	825	0	0	0	0	0	0
	55 GAL DRUM	0	58	0	0	703	0	0	0	0	0	0
	BOX < 128	0	1	0	0	0	0	0	0	0	0	0
	Total for WHC_100	0	60	0	0	1527	0	0	0	0	0	0
WHC_100K	10 FT3 ION EX	0	0	0	0	0	0	0	0	0	0	0
	277 FT3 ION EX	0	0	0	0	1273	0	133	0	0	0	0
	30 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0
	4X4X8 BOX	0	0	0	0	122	0	0	0	0	0	0
	55 GAL DRUM	0	8	0	0	1078	0	0	0	0	0	0
	BOX < 128	0	1	0	0	0	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	0	0	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
WHC_100K	OTHER DRUMS	0	0	0	0	0	0	0	0	0	0	0
Total for WHC_100K		0	9	0	0	2473	0	133	0	0	0	0
WHC_105DR	55 GAL DRUM	0	1	0	0	0	0	0	0	0	0	0
Total for WHC_105DR		0	1	0	0	0	0	0	0	0	0	0
WHC_202A	4X4X8 BOX	0	0	0	0	194	0	0	0	0	0	0
	55 GAL DRUM	0	14	1	0	247	2	37	3	0	0	0
	SWB	0	0	0	0	0	0	62	15	0	0	0
Total for WHC_202A		0	14	1	0	441	2	99	18	0	0	0
WHC_221HE	30 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0
Total for WHC_221HE		0	0	0	0	0	0	0	0	0	0	0
WHC_221T	4X4X8 BOX	0	0	0	0	1076	0	0	0	0	0	0
	55 GAL DRUM	0	594	0	0	71	0	0	0	0	312	0
Total for WHC_221T		0	594	0	0	1147	0	0	0	0	312	0
WHC_222S	4X4X8 BOX	0	205	0	0	15139	0	0	0	0	0	0
	55 GAL DRUM	69	1445	68	0	3701	530	0	0	0	122	0
Total for WHC_222S		69	1651	68	0	18841	530	0	0	0	122	0
WHC_225B	4X4X8 BOX	0	0	0	0	84	0	0	0	0	0	0
	55 GAL DRUM	0	4	0	0	40	6	0	0	0	0	0
	BOX 128-500	0	0	0	0	0	38	0	0	0	0	0
	BOX < 128	0	0	0	0	46	0	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLM_GTCIII	CH_LLM_I	CH_LLM_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
Total for WHC_225B		0	4	0	0	170	44	0	0	0	0	0
WHC_2345Z	4X4X8 BOX	0	0	0	0	1751	0	0	0	0	0	0
	55 GAL DRUM	0	219	0	0	5605	114	3459	57	0	0	0
	SNB	0	0	0	0	0	0	264	0	0	0	0
Total for WHC_2345Z		0	219	0	0	7356	114	3723	57	0	0	0
WHC_2724W	4X4X8 BOX	0	0	0	0	3480	0	0	0	0	0	0
Total for WHC_2724W		0	0	0	0	3480	0	0	0	0	0	0
WHC_2ETP	4X4X8 BOX	0	2154	213	0	14641	0	0	0	0	0	0
	55 GAL DRUM	0	593	539	0	299	0	0	0	0	0	0
	BOX 128-500	0	595	0	0	301	0	0	0	0	0	0
Total for WHC_2ETP		0	3342	752	0	15240	0	0	0	0	0	0
WHC_303K	4X4X8 BOX	0	0	0	0	229	0	0	0	0	0	0
	55 GAL DRUM	0	17	0	0	0	0	0	0	0	0	0
Total for WHC_303K		0	17	0	0	229	0	0	0	0	0	0
WHC_308	4X4X8 BOX	0	0	0	0	4	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	1	1	0	0	0	0	0
Total for WHC_308		0	0	0	0	4	1	0	0	0	0	0
WHC_340	4X4X8 BOX	0	0	0	0	171	0	0	0	0	0	0
	55 GAL DRUM	0	24	0	0	255	12	0	0	0	0	0
Total for WHC_340		0	24	0	0	426	12	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLW_III
WHC_377	4X4X8 BOX	0	0	0	0	7	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	19	0	0	0	0	0	0
	BOX OTHER	0	3	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for WHC_377		0	3	0	0	26	0	0	0	0	0	0
WHC_BKLOG	4X4X8 BOX	0	408	69	0	265	4	0	0	0	0	0
	55 GAL DRUM	0	421	8	0	1	0	0	0	0	0	0
	BOX 128-500	0	10	0	0	0	0	0	0	0	0	0
	BOX 500-1000	0	15	0	0	0	0	0	0	0	0	0
	OTHER DRUMS	0	1	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for WHC_BKLOG		0	854	77	0	266	4	0	0	0	0	0
WHC_BQUIP	BOX OTHER	0	7663	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for WHC_BQUIP		0	7663	0	0	0	0	0	0	0	0	0
WHC_DSTPSRET	55 GAL DRUM	0	0	0	0	1	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for WHC_DSTPSRET		0	0	0	0	1	0	0	0	0	0	0
WHC_DST_PRT	CASKS	0	0	0	0	0	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for WHC_DST_PRT		0	0	0	0	0	0	0	0	0	0	0
WHC_DST_RET	55 GAL DRUM	0	0	0	0	673	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for WHC_DST_RET		0	0	0	0	673	0	0	0	0	0	0
WHC_EA_W112	55 GAL DRUM	0	0	0	0	0	0	38	0	0	0	0
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total for WHC_EA_W112		0	0	0	0	0	0	38	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLW_III
WHC_EA_W113	55 GAL DRUM	0	0	0	0	0	0	46	0	0	0	0
Total for WHC_EA_W113		0	0	0	0	0	0	46	0	0	0	0
WHC_EA_W221	55 GAL DRUM	0	0	0	0	0	0	183	0	0	0	0
Total for WHC_EA_W221		0	0	0	0	0	0	183	0	0	0	0
WHC_FFTF_MAINT	4X4X8 BOX	0	0	0	0	110	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	151	0	0	0	0	0	0
	CASKS	0	0	0	0	0	0	0	0	0	0	0
Total for WHC_FFTF_MAINT		0	0	0	0	261	0	0	0	0	0	0
WHC_GROUT	4X4X8 BOX	0	0	0	0	3503	152	0	0	0	0	0
	55 GAL DRUM	0	129	862	0	0	0	0	0	0	0	158
	BOX 128-500	0	0	93	0	0	0	0	0	0	0	44
	BOX 500-1000	0	0	179	0	0	0	0	0	0	0	306
	BOX < 128	0	0	14	0	0	0	0	0	0	0	0
	BOX > 1000	0	0	0	0	0	0	0	0	0	0	132
	CASKS	0	0	0	0	0	0	0	0	0	0	3658
Total for WHC_GROUT		0	129	1148	0	3503	152	0	0	0	0	4298
WHC_HWVP	4X4X8 BOX	0	0	124	0	1427	13127	0	0	0	0	0
	55 GAL DRUM	0	420	486	0	8925	6273	791	842	0	0	0
	BOX OTHER	0	0	0	0	0	0	210	0	0	0	0
	SWB	0	0	0	0	0	0	0	158	0	0	0
Total for WHC_HWVP		0	420	610	0	10352	19400	1002	1000	0	0	0
WHC_L045H	55 GAL DRUM	0	0	0	0	6261	0	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMW_GTCIII	CH_LLMW_I	CH_LLMW_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMW_GTCIII	RH_LLMW_I	RH_LLMW_III
Total for WHC_L045H		0	0	0	0	6261	0	0	0	0	0	0
WHC_LLBO	55 GAL DRUM	0	0	0	0	19	0	0	0	0	0	0
	B-25 BOX	0	0	0	0	170	0	0	0	0	0	0
	BOX < 128	0	34	0	0	0	0	0	0	0	0	0
Total for WHC_LLBO		0	34	0	0	189	0	0	0	0	0	0
WHC_PX_C018H	4X4X8 BOX	0	210	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	0	603	4782	0	0	0	0	0	0	0	0
	BOX < 128	0	167	0	0	0	0	0	0	0	0	0
Total for WHC_PX_C018H		0	980	4782	0	0	0	0	0	0	0	0
WHC_SSTRET	4X4X8 BOX	0	0	0	0	591	0	0	0	0	0	0
	55 GAL DRUM	0	85	208	0	0	0	0	0	0	0	0
Total for WHC_SSTRET		0	85	208	0	591	0	0	0	0	0	0
WHC_SURPLS_FAC	4X4X8 BOX	0	0	0	0	582653	0	0	0	0	0	0
	55 GAL DRUM	923	996	929	0	50630	0	1153	674	923	923	923
	BOX > 1000	0	0	0	0	25035	0	0	0	0	0	0
	BOX OTHER	0	0	0	0	285532	0	0	0	0	0	0
	OTHER CYL	0	0	0	0	0	0	0	0	0	0	0
	OTHER DRUMS	0	0	0	39943	0	89655	0	0	0	0	0
Total for WHC_SURPLS_FAC		923	996	929	39943	943850	89655	1153	674	923	923	923
WHC_TRUSAF	55 GAL DRUM	0	0	0	0	3	0	0	0	0	0	0
	B-25 BOX	0	3	0	0	9	0	0	0	0	0	0
Total for WHC_TRUSAF		0	3	0	0	12	0	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLMM_GTCIII	CH_LLMM_I	CH_LLMM_III	CH_LLW_GTCIII	CH_LLW_I	CH_LLW_III	CH_TRU	CH_TRUM	RH_LLMM_GTCIII	RH_LLMM_I	RH_LLMM_III
WHC_TWP_106C	4X4X8 BOX	0	119	0	0	0	0	0	0	0	0	283
	55 GAL DRUM	0	21	0	0	0	0	0	0	0	0	0
	Total for WHC_TWP_106C	0	140	0	0	0	0	0	0	0	0	283
WHC_TWP_W028	4X4X8 BOX	0	0	0	0	58	0	0	0	0	0	0
	Total for WHC_TWP_W028	0	0	0	0	58	0	0	0	0	0	0
WHC_TWP_W030	4X4X8 BOX	0	0	0	0	0	54	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	0	21	0	0	0	0	0
	Total for WHC_TWP_W030	0	0	0	0	0	75	0	0	0	0	0
WHC_TWP_W058	4X4X8 BOX	0	0	0	0	109	0	0	0	0	0	0
	Total for WHC_TWP_W058	0	0	0	0	109	0	0	0	0	0	0
WHC_TWP_W062	4X4X8 BOX	0	0	0	0	4	0	0	0	0	0	0
	55 GAL DRUM	0	0	0	0	0	0	0	0	0	0	0
	Total for WHC_TWP_W062	0	0	0	0	4	0	0	0	0	0	0
WHC_TWP_W151	55 GAL DRUM	0	0	0	0	4	0	0	0	0	0	0
	Total for WHC_TWP_W151	0	0	0	0	4	0	0	0	0	0	0
WHC_TWP_W211	55 GAL DRUM	0	0	0	0	462	0	0	0	0	0	0
	Total for WHC_TWP_W211	0	0	0	0	462	0	0	0	0	0	0
WHC_TWP_W314	4X4X8 BOX	0	6197	0	0	0	0	0	0	0	0	0

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Waste Class Volumes (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	CH_LLWM_GTCIII	CH_LLWM_I	CH_LLWM_III	CH_LLWM_GTCIII	CH_LLWM_I	CH_LLWM_III	CH_TRU	CH_TRUM	RH_LLWM_GTCIII	RH_LLWM_I	RH_LLWM_III
Total for WHC_TWP_N314												
WHC_WELL_DRL	4X4X8 BOX	0	0	0	0	0	0	0	0	0	0	0
	55 GAL DRUM	0	28	0	0	156	17	12	9	0	0	0
Total for WHC_WELL_DRL												
		0	28	0	0	174	17	12	9	0	0	0
Grand Total												
		4376	102861	15953	42327	*****	188058	23651	14569	1554	1877	94425

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Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLM_GTCIII	RH_LLM_I	RH_LLM_III	RH_TRU	RH_TRUM	Total
AMES	4X4X8 BOX	0	0	0	0	0	703
	55 GAL DRUM	0	0	0	0	0	48
	OTHER DRUMS	0	0	0	0	0	0
		-----	-----	-----	-----	-----	-----
Total for AMES		0	0	0	0	0	752
ANL_E	30 GAL DRUM	0	0	0	51	0	51
	55 GAL DRUM	0	33	0	0	0	5781
	BOX < 128	0	0	0	0	0	6428
		-----	-----	-----	-----	-----	-----
Total for ANL_E		0	33	0	51	0	12260
BAPL	55 GAL DRUM	0	0	0	0	0	31
	B-25 BOX	0	0	0	0	0	191
	CASKS	0	0	0	0	0	170
	OTHER CYL	0	0	0	0	0	2
		-----	-----	-----	-----	-----	-----
Total for BAPL		0	0	0	0	0	394
BAPL_SHIPYDS	BOX 128-500	0	0	0	0	0	124
	OTHER CYL	0	0	0	0	0	3
		-----	-----	-----	-----	-----	-----
Total for BAPL_SHIPYDS		0	0	0	0	0	126
BAT_CLBS_LAB	55 GAL DRUM	0	0	0	71	0	118
	B-25 BOX	0	0	0	0	0	1772
		-----	-----	-----	-----	-----	-----
Total for BAT_CLBS_LAB		0	0	0	71	0	1891
BRKHVN	4X4X8 BOX	0	11	0	0	0	11174
	55 GAL DRUM	0	0	0	0	0	3088

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
Total for BRKHVN		0	11	0	0	0	14262
B_LEHR_DAV	55 GAL DRUM	0	0	0	0	0	30
	B-25 BOX	0	0	0	0	0	991
Total for B_LEHR_DAV		0	0	0	0	0	1021
EG&G	55 GAL DRUM	0	0	0	0	0	131
	BOX < 128	0	0	0	0	0	156
Total for EG&G		0	0	0	0	0	286
FERMI	55 GAL DRUM	0	0	0	0	0	238
	BOX < 128	0	0	0	0	0	1016
Total for FERMI		0	0	0	0	0	1254
FUSRAP	4X4X8 BOX	0	0	0	0	0	46588
	BOX > 1000	0	0	0	0	0	10861
Total for FUSRAP		0	0	0	0	0	57450
GEN_ATOM	4X4X8 BOX	0	0	0	0	0	164
	55 GAL DRUM	0	0	0	0	0	9
	BOX < 128	0	0	0	0	0	359
Total for GEN_ATOM		0	0	0	0	0	531
KAPL_SHIPYDS	BOX 128-500	0	0	0	0	0	216
	BOX 500-1000	0	0	0	0	0	161
	LEC	0	0	0	0	0	913

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
<hr/>							
<hr/>							
Total for KAPL_SHIPYDS		0	0	0	0	0	1290
KEH_100	55 GAL DRUM	0	0	0	0	0	61
<hr/>							
Total for KEH_100		0	0	0	0	0	61
<hr/>							
LBL	55 GAL DRUM	0	0	0	0	0	930
	BOX < 128	0	0	0	0	0	10039
<hr/>							
Total for LBL		0	0	0	0	0	10969
<hr/>							
LLNL	55 GAL DRUM	0	0	0	0	0	3276
	BOX < 128	0	0	0	0	0	2614
	BOX > 1000	0	0	0	0	0	2324
	SWB	0	0	0	0	0	122
<hr/>							
Total for LLNL		0	0	0	0	0	8336
<hr/>							
LL_EQUIP	LEC	0	0	0	0	9748	97481
<hr/>							
Total for LL_EQUIP		0	0	0	0	9748	97481
<hr/>							
LL_EQUIP_SEC	4X4X8 BOX	0	0	0	0	0	3293
	55 GAL DRUM	0	0	0	0	0	1634
<hr/>							
Total for LL_EQUIP_SEC		0	0	0	0	0	4927
<hr/>							
MIT_BATES	55 GAL DRUM	0	0	0	0	0	4
<hr/>							
Total for MIT_BATES		0	0	0	0	0	4
<hr/>							
PADUCAH_ES	55 GAL DRUM	0	0	0	0	0	47474

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
PADUCAH_ES	BOX < 128	0	0	0	0	0	374
Total for PADUCAH_ES		0	0	0	0	0	47847
PADUCAH_U	55 GAL DRUM	0	0	0	0	0	4911
Total for PADUCAH_U		0	0	0	0	0	4911
PAST_PRAC_REM	55 GAL DRUM	0	0	0	0	0	55729
Total for PAST_PRAC_REM		0	0	0	0	0	55729
PNL	4X4X8 BOX	0	0	0	0	0	10462
	55 GAL DRUM	33	33	136	0	0	2243
	BOX 128-500	0	37	550	0	0	1054
	BOX < 128	0	0	130	0	0	133
	OTHER DRUMS	0	0	0	1	0	1
Total for PNL		33	71	816	1	0	13892
PORTSMOUTH	55 GAL DRUM	0	0	0	0	0	17471
	B-25 BOX	0	0	0	0	0	6890
	BOX 128-500	0	0	0	0	0	4895
	OTHER DRUMS	0	0	0	0	0	450
Total for PORTSMOUTH		0	0	0	0	0	29706
PRINCETON	55 GAL DRUM	0	0	0	0	0	1068
	B-25 BOX	0	0	0	0	0	4481
	BOX < 128	0	0	0	0	0	515
Total for PRINCETON		0	0	0	0	0	6063

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
RKW_CANOGA	55 GAL DRUM	0	0	0	0	0	3
	B-25 BOX	0	0	0	0	0	313
	BOX < 128	0	0	0	0	0	1316
	Total for RKW_CANOGA	0	0	0	0	0	1631
STANFORD	4X4X8 BOX	0	0	0	0	0	1321
	55 GAL DRUM	0	0	0	0	0	36
	Total for STANFORD	0	0	0	0	0	1358
TPNL_231Z	4X4X8 BOX	0	0	0	0	0	36
	BOX OTHER	0	0	0	0	0	2
	Total for TPNL_231Z	0	0	0	0	0	38
TPNL_242B/BL	4X4X8 BOX	0	0	0	0	0	12
	BOX OTHER	0	0	0	0	0	84
	Total for TPNL_242B/BL	0	0	0	0	0	96
TPNL_306W	4X4X8 BOX	0	0	0	0	0	13
	55 GAL DRUM	0	0	0	0	0	7
	BOX OTHER	0	0	0	0	0	31
	Total for TPNL_306W	0	0	0	0	0	51
TPNL_314	4X4X8 BOX	0	0	0	0	0	1589
	BOX OTHER	0	0	0	0	0	1589
	Total for TPNL_314	0	0	0	0	0	3178
TPNL_324	4X4X8 BOX	0	0	14	0	0	314

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
<hr/>							
TPNL_324	55 GAL DRUM	0	12	0	0	0	35
	BOX OTHER	4	0	0	0	0	428
	OTHER DRUMS	0	0	0	0	0	40
<hr/>							
Total for TPNL_324		4	12	14	0	0	817
<hr/>							
TPNL_326	4X4X8 BOX	0	0	0	0	0	9
	BOX OTHER	0	0	0	0	0	31
<hr/>							
Total for TPNL_326		0	0	0	0	0	41
<hr/>							
TPNL_327	4X4X8 BOX	0	0	0	11	0	434
	55 GAL DRUM	0	50	0	0	2	446
	BOX 128-500	0	214	0	0	0	240
	BOX 500-1000	0	0	0	726	0	726
	BOX OTHER	0	6	0	171	0	510
	OTHER DRUMS	0	44	0	107	6	157
<hr/>							
Total for TPNL_327		0	315	0	1015	8	2512
<hr/>							
TPNL_331	4X4X8 BOX	0	0	0	0	0	1746
	BOX OTHER	0	0	0	0	0	162
<hr/>							
Total for TPNL_331		0	0	0	0	0	1908
<hr/>							
TWHC_100N	4X4X8 BOX	0	0	0	0	0	8326
	BOX OTHER	0	0	0	1186	0	1186
<hr/>							
Total for TWHC_100N		0	0	0	1186	0	9512
<hr/>							
TWHC_202A	55 GAL DRUM	0	0	0	0	0	0
	BOX OTHER	1055	0	137	119	32	6791
	SMB	0	0	0	0	0	219

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
Total for TWHC_202A		1055	0	137	119	32	7010
TWHC_202A_TW	BOX OTHER	0	1022	0	697	0	1961
Total for TWHC_202A_TW		0	1022	0	697	0	1961
TWHC_221T	4X4X8 BOX	0	893	0	0	340	9564
	55 GAL DRUM	0	0	0	212	0	1062
	BOX OTHER	0	893	0	0	340	9564
Total for TWHC_221T		0	1786	0	212	680	20190
TWHC_222S	55 GAL DRUM	0	0	0	0	0	9113
	BOX OTHER	0	0	0	0	0	3763
	SWB	0	0	0	0	0	76
Total for TWHC_222S		0	0	0	0	0	12951
TWHC_225B	4X4X8 BOX	0	568	0	0	0	2838
	BOX OTHER	0	1152	6847	0	0	40342
Total for TWHC_225B		0	1720	6847	0	0	43180
TWHC_2345Z	4X4X8 BOX	0	0	0	314	31	1724
	55 GAL DRUM	0	0	0	31	0	157
	BOX OTHER	0	0	0	1821	2479	21499
Total for TWHC_2345Z		0	0	0	2166	2510	23381
TWHC_242A	4X4X8 BOX	0	0	0	0	0	35
	BOX OTHER	0	0	0	0	0	313

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
Total for TWHC_242A		0	0	0	0	0	348
TWHC_242S	4X4X8 BOX	0	0	0	0	0	35
	BOX OTHER	0	0	0	0	0	313
Total for TWHC_242S		0	0	0	0	0	348
TWHC_242T	4X4X8 BOX	0	0	0	0	0	8
	BOX OTHER	0	0	0	0	0	68
Total for TWHC_242T		0	0	0	0	0	76
TWHC_306	4X4X8 BOX	0	0	0	0	0	5
Total for TWHC_306		0	0	0	0	0	5
TWHC_308	4X4X8 BOX	0	0	0	0	0	116
	55 GAL DRUM	0	0	0	0	0	98
	SWB	0	0	0	0	0	5
Total for TWHC_308		0	0	0	0	0	219
TWHC_340	BOX 128-500	0	0	0	0	0	198
	BOX OTHER	0	0	0	0	23	23
Total for TWHC_340		0	0	0	0	23	221
TWHC_GROUT	4X4X8 BOX	0	8	0	0	0	284
Total for TWHC_GROUT		0	8	0	0	0	284
TWHC_HWVP	4X4X8 BOX	0	0	6626	0	0	8099

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
TWHC_HWVP	55 GAL DRUM	0	0	0	716	0	716
	BOX OTHER	0	0	0	6428	0	6428
	SMB	0	0	0	71	0	71
		-----	-----	-----	-----	-----	-----
Total for TWHC_HWVP		0	0	6626	7215	0	15314
TWHC_PX_C018H	4X4X8 BOX	0	0	0	0	0	1599
		-----	-----	-----	-----	-----	-----
Total for TWHC_PX_C018H		0	0	0	0	0	1599
TWHC_TRUSAF	4X4X8 BOX	0	0	0	0	0	7
	BOX OTHER	0	0	0	0	0	6
		-----	-----	-----	-----	-----	-----
Total for TWHC_TRUSAF		0	0	0	0	0	13
U_U	55 GAL DRUM	0	0	0	0	0	12
		-----	-----	-----	-----	-----	-----
Total for U_U		0	0	0	0	0	12
WHC_100	30 GAL DRUM	0	0	0	0	0	1
	4X4X8 BOX	0	136	0	0	0	960
	55 GAL DRUM	0	0	0	0	0	761
	BOX < 128	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----
Total for WHC_100		0	136	0	0	0	1723
WHC_100K	10 FT3 ION EX	0	193	0	11	0	204
	277 FT3 ION EX	0	0	0	0	0	1406
	30 GAL DRUM	0	0	0	0	0	0
	4X4X8 BOX	0	0	0	0	0	122
	55 GAL DRUM	0	0	0	0	0	1085
	BOX < 128	0	0	0	0	0	1
	BOX OTHER	0	236	0	125	0	360

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
WHC_100K	OTHER DRUMS	0	0	0	0	0	0
Total for WHC_100K		0	429	0	136	0	3180
WHC_105DR	55 GAL DRUM	0	0	0	0	0	1
Total for WHC_105DR		0	0	0	0	0	1
WHC_202A	4X4X8 BOX	0	0	0	0	0	194
	55 GAL DRUM	0	0	0	0	0	303
	SNB	0	0	0	0	0	77
Total for WHC_202A		0	0	0	0	0	575
WHC_221HB	30 GAL DRUM	0	0	0	0	0	0
Total for WHC_221HB		0	0	0	0	0	0
WHC_221T	4X4X8 BOX	0	0	0	0	0	1076
	55 GAL DRUM	0	227	0	0	28	1232
Total for WHC_221T		0	227	0	0	28	2308
WHC_222S	4X4X8 BOX	0	0	0	0	0	15345
	55 GAL DRUM	0	0	0	0	0	5935
Total for WHC_222S		0	0	0	0	0	21280
WHC_225B	4X4X8 BOX	0	0	0	0	0	84
	55 GAL DRUM	0	0	0	0	0	50
	BOX 128-500	0	0	5	0	0	44
	BOX < 128	0	0	0	0	0	46

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
<hr/>							
Total for WHC_225B		0	0	5	0	0	224
WHC_2345Z	4X4X8 BOX	0	0	0	0	0	1751
	55 GAL DRUM	0	0	0	0	0	9454
	SWB	0	0	0	0	0	264
<hr/>							
Total for WHC_2345Z		0	0	0	0	0	11469
WHC_2724W	4X4X8 BOX	0	0	0	0	0	3480
<hr/>							
Total for WHC_2724W		0	0	0	0	0	3480
WHC_28TF	4X4X8 BOX	0	0	0	0	0	17009
	55 GAL DRUM	0	0	0	0	0	1431
	BOX 128-500	0	0	0	0	0	896
<hr/>							
Total for WHC_28TF		0	0	0	0	0	19335
WHC_303K	4X4X8 BOX	0	0	0	0	0	229
	55 GAL DRUM	0	0	0	0	0	17
<hr/>							
Total for WHC_303K		0	0	0	0	0	245
WHC_308	4X4X8 BOX	0	0	0	0	0	4
	55 GAL DRUM	0	0	0	0	0	2
<hr/>							
Total for WHC_308		0	0	0	0	0	6
WHC_340	4X4X8 BOX	0	0	0	0	0	171
	55 GAL DRUM	0	0	0	0	0	291
<hr/>							
Total for WHC_340		0	0	0	0	0	462

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
WHC_377	4X4X8 BOX	0	0	0	0	0	7
	55 GAL DRUM	0	0	0	0	0	19
	BOX OTHER	0	0	0	0	0	3
		-----	-----	-----	-----	-----	-----
Total for WHC_377		0	0	0	0	0	29
WHC_BKLOG	4X4X8 BOX	0	0	0	0	0	745
	55 GAL DRUM	0	0	0	0	0	430
	BOX 128-500	0	0	0	0	0	10
	BOX 500-1000	0	0	0	0	0	15
	OTHER DRUMS	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----
Total for WHC_BKLOG		0	0	0	0	0	1200
WHC_BQUIP	BOX OTHER	0	0	0	0	0	7663
		-----	-----	-----	-----	-----	-----
Total for WHC_BQUIP		0	0	0	0	0	7663
WHC_DSTPSRET	55 GAL DRUM	0	0	0	0	0	1
		-----	-----	-----	-----	-----	-----
Total for WHC_DSTPSRET		0	0	0	0	0	1
WHC_DST_PRT	CASKS	0	0	0	0	18414	18414
		-----	-----	-----	-----	-----	-----
Total for WHC_DST_PRT		0	0	0	0	18414	18414
WHC_DST_RET	55 GAL DRUM	0	0	0	0	0	673
		-----	-----	-----	-----	-----	-----
Total for WHC_DST_RET		0	0	0	0	0	673
WHC_EA_W112	55 GAL DRUM	0	0	0	0	0	38
		-----	-----	-----	-----	-----	-----
Total for WHC_EA_W112		0	0	0	0	0	38

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
WHC_EA_W113	55 GAL DRUM	0	0	0	0	0	46
Total for WHC_EA_W113		0	0	0	0	0	46
WHC_EA_W221	55 GAL DRUM	0	0	0	0	0	183
Total for WHC_EA_W221		0	0	0	0	0	183
WHC_FFTF_MAINT	4X4X8 BOX	0	0	0	0	0	110
	55 GAL DRUM	0	0	0	0	0	151
	CASKS	0	0	1065	0	0	1065
Total for WHC_FFTF_MAINT		0	0	1065	0	0	1326
WHC_GROUT	4X4X8 BOX	0	0	0	0	0	3654
	55 GAL DRUM	0	0	0	0	0	1148
	BOX 128-500	0	0	0	0	0	137
	BOX 500-1000	0	0	0	0	0	485
	BOX < 128	0	0	0	0	0	14
	BOX > 1000	0	0	0	0	0	132
	CASKS	0	0	0	0	0	3658
Total for WHC_GROUT		0	0	0	0	0	9229
WHC_HWVP	4X4X8 BOX	0	0	1191	0	0	15870
	55 GAL DRUM	0	0	1807	400	401	20345
	BOX OTHER	0	0	0	0	0	210
	SWB	0	0	0	1026	1027	2212
Total for WHC_HWVP		0	0	2999	1426	1429	38637
WHC_L045H	55 GAL DRUM	0	0	0	0	0	6261

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
Total for WHC_L045H		0	0	0	0	0	6261
WHC_LLBO	55 GAL DRUM	0	0	0	0	0	19
	B-25 BOX	0	0	0	0	0	170
	BOX < 128	0	0	0	0	0	34
Total for WHC_LLBO		0	0	0	0	0	223
WHC_PX_C018H	4X4X8 BOX	0	0	0	0	0	210
	55 GAL DRUM	0	0	0	0	0	5385
	BOX < 128	0	0	0	0	0	167
Total for WHC_PX_C018H		0	0	0	0	0	5762
WHC_SSTRET	4X4X8 BOX	0	0	0	0	0	591
	55 GAL DRUM	0	0	0	0	0	293
Total for WHC_SSTRET		0	0	0	0	0	885
WHC_SURPLS_FAC	4X4X8 BOX	0	0	0	0	0	582653
	55 GAL DRUM	0	0	0	3	708	58785
	BOX > 1000	0	0	0	0	0	25035
	BOX OTHER	0	0	0	0	0	285532
	OTHER CYL	39943	0	0	0	0	39943
	OTHER DRUMS	0	0	0	0	0	129598
Total for WHC_SURPLS_FAC		39943	0	0	3	708	1121547
WHC_TRUSAF	55 GAL DRUM	0	0	0	0	0	3
	B-25 BOX	0	0	0	0	0	12
Total for WHC_TRUSAF		0	0	0	0	0	15

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLW_GTCIII	RH_LLW_I	RH_LLW_III	RH_TRU	RH_TRUM	Total
WHC_TWP_106C	4X4X8 BOX	0	0	0	0	0	402
	55 GAL DRUM	0	0	0	0	0	21
Total for WHC_TWP_106C		0	0	0	0	0	422
WHC_TWP_W028	4X4X8 BOX	0	0	0	0	0	58
Total for WHC_TWP_W028		0	0	0	0	0	58
WHC_TWP_W030	4X4X8 BOX	0	0	0	0	0	54
	55 GAL DRUM	0	0	0	0	0	21
Total for WHC_TWP_W030		0	0	0	0	0	75
WHC_TWP_W058	4X4X8 BOX	0	0	0	0	0	109
Total for WHC_TWP_W058		0	0	0	0	0	109
WHC_TWP_W062	4X4X8 BOX	0	0	0	0	0	4
	55 GAL DRUM	0	0	0	0	0	0
Total for WHC_TWP_W062		0	0	0	0	0	4
WHC_TWP_W151	55 GAL DRUM	0	0	0	0	0	4
Total for WHC_TWP_W151		0	0	0	0	0	4
WHC_TWP_W211	55 GAL DRUM	0	0	0	0	0	462
Total for WHC_TWP_W211		0	0	0	0	0	462
WHC_TWP_W314	4X4X8 BOX	0	0	0	0	0	6197

Waste Class Volume (m³) by
Container Category and Waste Generator

Waste Generator	Container Category	RH_LLM_GTCIII	RH_LLM_I	RH_LLM_III	RH_TRU	RH_TRUM	Total
Total for WHC_TWP_W314		0	0	0	0	0	6197
WHC_WELL_DRL	4X4X8 BOX	0	0	0	0	0	18
	55 GAL DRUM	0	13	0	0	0	235
Total for WHC_WELL_DRL		0	13	0	0	0	253
Grand Total		41035	5781	18509	14297	33580	1803701

APPENDIX F

FY-1993 WASTE GENERATOR ABBREVIATION LIST

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Waste Generator Group	Waste Generator Abbreviation	Waste Generator Name
D&D	SURPLUS FAC	ENV Restoration Operations
D&D	TPNL 231Z	PNL - 231Z - D&D
D&D	TPNL 242B/BL	PNL - 242 Bldg - D&D
D&D	TPNL 306W	PNL - 306W Bldg - D&D
D&D	TPNL 314	PNL - 314 Bldg - D&D
D&D	TPNL 324	PNL - 324 Bldg - D&D
D&D	TPNL 326	PNL - 326 Bldg - D&D
D&D	TPNL 327	PNL - 327 Bldg - D&D
D&D	TPNL 331	PNL - 331 Bldg - D&D
D&D	TWHC 100N	N-Reactor - D&D
D&D	TWHC 202A	CP Purex & UO3-224U - D&D
D&D	TWHC 221T	T-Plant Bldg. - D&D
D&D	TWHC 222S	CP 222-S Lab - D&D
D&D	TWHC 225B	DWM B Plant & WESF - D&D
D&D	TWHC 2345Z	CP Pu Fin. Plant - D&D
D&D	TWHC 242A	A Evaporator - D&D
D&D	TWHC 242S	S Evaporator - D&D
D&D	TWHC 242T	T Evaporator - D&D
D&D	TWHC 306	ARD 306E Bldg. FDL - D&D
D&D	TWHC 308	ARD Fuel Fab. Bldg. - D&D
D&D	TWHC 340	Liq Wst Handling Fac - D&D
D&D	TWHC GROUT	DWM Grout Fac - D&D
D&D	TWHC HWVP	PD Waste Vit Proj - D&D
D&D	TWHC PX C018H	Purex-242A Eff Tmt - D&D
D&D	TWHC TRUSAF	DWM Sol Wst Ops - D&D
D&D	WHC 202A TW	CP Purex & UO3-224U Tunnel Wst
Remedial Action	PAST PRAC REM	Past Practice Remediation
Remedial Action	WHC WELL DRL	Environmental Projects
Offsite Receipts	AMES	Ames Laboratory-Ames, Iowa
Offsite Receipts	ANL E	Argonne Nat. Lab.-East
Offsite Receipts	B LEHR DAV	Univ. of CA, Davis
Offsite Receipts	BAPL	Bettis Atomic Power Laboratory
Offsite Receipts	BAPL SHIPYDS	Bettis Atomic Power Shipyards
Offsite Receipts	BAT CLBS LAB	Battelle Columbus Labs.
Offsite Receipts	BRKHVN	Brookhaven
Offsite Receipts	EG&G	EG&G Rocky Flats Plant
Offsite Receipts	FERMI	FERMI Nat. Accelerator Lab.
Offsite Receipts	FUSRAP	ORNL Oak Ridge National Lab.
Offsite Receipts	GEN ATOM	General Atomics
Offsite Receipts	KAPL SHIPYDS	Knolls Atomic Power Shipyards

Waste Generator Group	Waste Generator Abbreviation	Waste Generator Name
Offsite Receipts	LBL	Lawrence Berkeley Lab
Offsite Receipts	LLNL	Lawrence Livermore Natl Lab
Offsite Receipts	MIT BATES	Bates Accelerat.-Massachusetts
Offsite Receipts	PADUCAH ES	Paducah Energy Systems
Offsite Receipts	PADUCAH U	Paducah Utility Services
Offsite Receipts	PORTSMOUTH	Gaseous Diffusion Plant
Offsite Receipts	PRINCETON	Plasma Physics Laboratory
Offsite Receipts	RKW CANOGA	Rockwell Canoga Park
Offsite Receipts	STANFORD	Stanford Lin Accelerator Cntr
Offsite Receipts	U U	Univ. of Utah
Site Support	HEHF	Hanford Env. Health Found.
Site Support	KEH 100	Kaiser Engineers
Site Support	PNL	Pacific Northwest Laboratory
Site Support	WHC 100	DRD 100 Area
Site Support	WHC 100K	K-Basin Operations
Site Support	WHC 105DR	ARD Large Sodium Fire Facility
Site Support	WHC 202A	CP Purex & UO3-224U Facilities
Site Support	WHC 221HE	T-Plant Head End Cleanup
Site Support	WHC 221T	T-Plant Bldg. 2706/221
Site Support	WHC 222S	CP 222-S Laboratory
Site Support	WHC 225B	B Plant/WESF Facilities
Site Support	WHC 2345Z	CP Pu Finishing Plant
Site Support	WHC 2724W	Laundry-Equip. Decon Facility
Site Support	WHC 303K	Fuels Operations
Site Support	WHC 308	ARD Fuel Fabrication Bldg.
Site Support	WHC 340	Liquid Waste Handling Facility
Site Support	WHC 377	Geo. Tech. Engineering Lab.
Site Support	WHC BQUIP	Buried Equipment
Site Support	WHC EA W112	SW RMW Storage Facility
Site Support	WHC EA W113	SW Retrieval Fac.-Phase 1
Site Support	WHC EA W221	SW Retrieval Fac.-Phase 2
Site Support	WHC FFTF MAINT	FFTF/FMEF Maintenance.
Site Support	WHC L045H	300 Area Water Treatment Proj.
Site Support	WHC LLBG	DWM Low Level Burial Grounds
Site Support	WHC PX C018H	Purex242A Condensate Treatment
Site Support	WHC TRUSAF	DWM Solid Waste Operations
TWRS	LL EQUIP	Long-Length Equipment
TWRS	LL EQUIP SEC	Long-Length Equipment Secondary Waste
TWRS	WHC 2ETF	Single Shell Tank Farms
TWRS	WHC BKLOG	Tank Farms Backlog Waste

Waste Generator Group	Waste Generator Abbreviation	Waste Generator Name
TWRS	WHC DST PRT	DST NCAW Process Tests (Pretreatment)
TWRS	WHC DST RET	W343 DST Retrieval (17 Tanks)
TWRS	WHC DSTPSRET	CC,PFP&NCRWDST Pilot Scale Ret
TWRS	WHC_GROUT	DWM Grout Facility (LLW Treatment Facility)
TWRS	WHC HWVP	PD Waste Vitrification Project
TWRS	WHC SSTLLE	SST Long Length Equipment
TWRS	WHC SSTRET	SST Retrieval (458 tanks)
TWRS	WHC TWP 106C	W320 Tank 241 Sluicing
TWRS	WHC TWP W028	Aging Waste Transfer Lines
TWRS	WHC TWP W030	Tank Farm Ventilation Upgrade
TWRS	WHC TWP W058	Cross-Site Transfer Lines
TWRS	WHC TWP W062	Tank AP-104 Upgrade
TWRS	WHC TWP W151	Tank Farm-101-AZ Retrieval Sys
TWRS	WHC TWP W211	DST Retrieval (10 tanks)
TWRS	WHC TWP W314	Tank Farm Restoration

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