SOLID WASTE AND MATERIALS SYSTEMS ALTERNATIVES STUDY

VOLUME V

APPENDIX C

Supplemental Waste and Materials Inventory Information

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LIST OF ACRONYMS

Al	Aluminum
B	Boron
Ba	Barium
Bi	Bismuth
Br	Bromine
BUSS	Beneficial Uses Shipping Systems
Ca	Calcium
Cd	Cadmium
Ce	Cerium
CH	Contact Handled
Cl	Chlorine
Cr	Chromium
Cs	Cesium
Cu	Copper
DOE	U. S. Department of Energy
F	Fluorine
Fe	Iron
FY	Fiscal Year
GE	General Electric
GEA	Gamma Energy Analysis
GTC3	Greater Than Category 3
HEPA	High-Efficiency Particulate Air
HLW	High Level Waste
K	Potassium
La	Lanthanum
LLMW	Low Level Mixed Waste
LLW	Low Level Waste
M	Million
Mg	Magnesium
Mn	Manganese
Mo	Molybdenum
Na	Sodium
Nb	Niobium
Nd	Neodymium
Ni	Nickel
NLO	National Lead of Ohio
NRC	Nuclear Regulatory Commission
OD	Outer Diameter
P	Phosphorus
Pb	Lead
PNL	Pacific Northwest Laboratory
PO4	Phosphate
PRTR	Plutonium Recycle Test Reactor
RH	Remote Handled
Ru	Ruthenium
Rh	Rhodium
Si	Silicon
Sn	Tin
SO4	Sulfate
Sr	Strontium

LIST OF ACRONYMS (Cont)

Tc	Tecnicium
ThO3	Thorium Oxide
Ti	Titanium
TPA	Tri-Party Agreement
TRU	Transuranic
TRUM	Transuranic Mixed
TWRS	Tank Waste Remediation System
U	Uranium
UO2	Uranium Dioxide
UO3	Uranium Trioxide
WESF	Waste Encapsulation and Storage Facility
WHC	Westinghouse Hanford Company
WPPSS	Washington Public Power Supply System
Y	Yttrium
Zn	Zinc
Zr	Zirconium

LIST OF UNITS

μCi	microcurie
Ci	Curie
cm	centimeter
ft^2	square feet
ft^3	cubic feet
g	gram
hr	hour
kg	kilogram
L	Liter
lb	pound
m	meter
m^2	square meter
m^3	cubic meter
mm	millimeter
mR	milliRad
mrem	millirem
MT	Metric Ton
MTU	Metric Ton Uranium
°C	Degrees Centigrade
°F	Degrees Fahrenheit
ppb	parts per billion
ppm	parts per million
R	Rem
W	Watt

C.0 WASTE AND MATERIALS INVENTORY

This Appendix C provides detailed information about the inventory of waste and materials that have been included in the scope of this study. Details regarding quantities (volumes), timing of generation, physical, chemical, and radiological characteristics of each of these wastes and materials can be found in this appendix.

C.1 HIGH LEVEL WASTE

A new planning basis for the Tank Waste Remediation System (TWRS) *Hanford Federal Facility Agreement and Consent Order* (TPA) received final approval on January 25, 1994. The revision shifted the emphasis from early high-level waste (HLW) vitrification to early low-level waste (LLW) vitrification. The aggressive measures for dissolving and processing high-level and transuranic (TRU) sludges envisioned by the TPA and technical strategy continue to be developed as a backup, but for planning purposes, a more benign enhanced sludge washing process emerged as the reference strategy.

The key changes ensued due to the revised TPA are as follows include construction of the HLW vitrification plant beginning in June 2002. The plant will be operational by December 2009 (TPA Milestone M-51-03). This delay in construction of the HLW treatment facility reflects the agreement to change the near-term emphasis of the TWRS to disposing of the low activity fraction of the tank waste. A U.S. Department of Energy (DOE) decision on privatizing and accelerating the HLW vitrification plant is pending.

In addition to specific TPA milestones, the preparation of this flowsheet (Orme 1994) was guided by other agreements negotiated with the TPA signatories or provided by technical direction from WHC upper management. This guidance helps to more fully define the TPA framework within which tank waste disposal activities are proceeding. The following list reflects the HLW TWRS function-specific guidance:

Immobilize HLW and TRU

- The waste form will be borosilicate glass (or equivalent).
- The vitrification facility capacity will be adequate to vitrify all HLW in 20 years (or less).
- The waste canister capacity and configuration will be optimized considering the vitrification plant, interim storage and geologic repository.

Store HLW and TRU

- Interim storage will be provided on the Hanford site.

Start up of HLW vitrification will be in December 2009 (TPA Milestone M-51-03). Capacity is adequate to vitrify all HLW in 14 years, although

20 years are allowed by the TPA for completion of HLW treatment. For enhanced sludge washing and 45% waste oxide loading, the HLW glass melter capability requires an instantaneous 8 MT/day operating 220 days/year.

The feed to HLW immobilization is a combination of washed solids, spent filter frit, and Cs concentrate. (The feed may eventually include long-lived radionuclides [e.g., ^{99}Tc] recovered from the LLW or from the offgas of the LLW vitrification process if dictated by future separations requirements). The washed solids and spent filter frit are dewatered in a vertical centrifuge to reduce the evaporation load on the melter. The centrate contains some solids and sodium (from $NaNO_2$ added for corrosion control during interim storage of washed solids in the Underground Storage Tanks [USTs]); the centrate is concentrated by evaporation and recombined with the dewatered solids before combining with the Cs concentrate. (This routing of the centrate assumes that the amount of sodium in the centrate makes an insignificant contribution to HLW volume. An alternative routing is to recycle the centrate to the sludge washing process where the Na is routed to the LLW). The HLW is processed through a feed adjustment reactor before vitrification in a joule heated, liquid fed ceramic melter. The vitrified waste is poured into steel canisters and cooled. The canisters are sealed, decontaminated, and transported to an interim storage facility awaiting removal to a geologic repository.

C.1.1 High Level Waste Canister Inventory. Table C.1-1 provides the mass, volume, and number of canisters of high level waste glass to be produced annually including the total volume during the expected operation of the vitrification facility.

C.1.2 High Level Waste Canister Chemical and Radionuclide Content. The radionuclide content of the HLW glass is presented in Table C.1-2 (Schaus 1994). The values used are extracted from the TWRS Process Flowsheet (Orme 1994) and are given as annual production rate and a total production for the life of the vitrification facility.

C.2 TRANSURANIC WASTE. An inventory of the transuranic waste existing in 1993 and will be held through the year 2024, is depicted in Figure A2-1 and Figure A2-2.

C.2.1 Remote-Handled Transuranic Waste. An inventory of remote-handled transuranic waste with LLEC, and without LLEC is depicted in Figures A2-3 and A2-4 respectively.

C.2.1.1 Stored Remote-Handled Waste

C.2.1.1.1 Trenches. Trenches are covered with plywood and a vinyl plastic and backfilled with dirt. Typical trench construction is similar to that for pre-1970 burial. If the surface dose rate exceeds 200 mrem/hr, the waste is classified as remote-handled and is either stored in caissons (Figure C.2-7) similar to those used for pre-1970 buried TRU solid waste or packaged with sufficient shielding to meet requirements for contact handling. The highest concentration of radioactive materials are contained in the 218-W-4B alpha caissons.

C.2.1.1.2 **Alpha Caissons.** Transuranic waste contained in the alpha caissons was generated in relatively small quantities in the 327 Building hot cells from inspection of experimental fuels irradiated at the EBR-II, Treat, and other reactors. The generated waste was packaged into cans inside of the hot cells and sent to the alpha caissons for storage.

Historical information as to the nature of the contents in each caisson is based on estimates made by Pacific Northwest Laboratory (PNL) and Westinghouse Hanford Company (WHC) operators when they filled the cans that have been deposited in the caissons. The heaviest cans in each caisson are:

Caisson	Heaviest	No. of Cans
1	20 kg	2
2	20 kg	4
3	23 kg	2
4	18 kg	1

The total radioactive source strength (at the time of its shipment to the Alpha Caissons) for each caisson can be estimated by summing all of the Curies in it. These result are:

Caisson	Total Curies
Alpha 1	36.328
Alpha 2	20.550
Alpha 3	22.735
Alpha 4	21.554

The highest curie content containers for each caisson are listed below:

Caisson	Curie Content	Number of Cans
Alpha 1	8,000 Ci	8
Alpha 2	200 Ci	8
Alpha 3	300 Ci	1
Alpha 4	667 Ci	3

In each shipment to Alpha Caissons, the number of containers is stated and the numbers of Curies for each source is stated.

Alpha caissons are underground, cylindrical vaults that are used to store dry, RH-TRU waste. Five alpha caissons exist, all located in the 218-W-4B burial ground, and only four of the five caissons have been used. Usage of the caissons is reported below:

Caisson	Use Period	Waste Volume	Weight	No. of Containers
Alpha-1	1970 to 1973	5.4 m^3	3838 kg	1179
Alpha-2	1973 to 1976	7.0 m^3	4482 kg	1747
Alpha-3	1976 to 1979	4.5 m^3	3748 kg	1135
Alpha-4	1979 to 1988	6.5 m^3	5332 kg	1473
Alpha-5	not used	0 m^3	0 kg	0
Totals	1970 to 1988	23.4 m^3	17400 kg	5534

Access to a caisson is provided by a three foot diameter chute (fill chute) that follows an S-shaped path from the ground to the top of the caisson. The waste cans were deposited in the caisson by pulling a transfer cask allowing the cans to fall randomly into the fill chute and to the caisson. In the process of waste transportation and trans-loading a quantity of plastic sheeting is utilized for contamination control. This plastic is also dumped into the caisson.

It is expected that a large amount of the containers located towards the bottom of the caissons are damaged due to the weight of the waste pile. Consequently, a significant fraction of the waste is expected to be in the form of loose material by the time it is to be retrieved.

C.2.1.1.3 **618-11 Burial Ground (Demiter 1995).** The burial ground was opened on March 9, 1962 and used until October 2, 1962 and then was taken out of service for several months for clean-up and modifications. It was placed back in operation in September 1963 and operated continuously until its permanent closure on December 31, 1967. The 618-11 (formerly 318-11) burial ground is located approximately 11 miles northwest of Richland, Washington directly west of the Washington Public Power Supply System (WPPSS) No. 2 reactor site.

The burial site is composed of three backfilled trenches, underground drum storage units, and caissons. The trenches are 900-feet long by 50-feet wide (274 m x 15 m, surface dimensions) occupying all of the site except a 100 x 1000 foot (30 m x 305 m) strip on the north side.

The caissons appear to be eight feet in diameter by ten feet high, eight-gauge corrugated culvert style metal pipe. No bottom (except dirt) existed in the caisson units.

The site contains a broad spectrum of low-level dry waste, primarily fission products and plutonium. The site was used for disposal of 300 Area laboratory solid wastes. Low activity wastes were received from many 300 Area facilities, namely: 303, 306, 309, 313, 321, 324, 325, 325-A, 325-B, 327, 329, 333, 3706, 3707-C, 3718, 3732, and some 1100 Area waste material. These facilities all handled radioactively contaminated or potentially contaminated waste from operations or laboratory areas including the support portion of hot-cell areas. Moderate and high activity (RH) wastes were received from the 327 radiometallurgy, 325-A hot-cells, the 325-B (analytical) hot-cells, and occasionally from Plutonium Recycle Test Reactor (PRTR) (309 Building). Generally speaking, the low to moderate-activity dry solid wastes were disposed to trenches and moderate to high-activity wastes were disposed to drum storage and caisson units with some exception. The 325-A hotcells disposed of moderate and high activity wastes to the trenches in concrete/lead-shielded drums (Keene 1961). The 325-B hot-cells were also known to use concrete shielded drums to dispose of hot-cell waste including cleanup-debris, used laboratory containers and glassware, and spent instruments and equipment.

Documents differ on the total number of drum storage units and caissons. The range varies from 12 trenches and 54 caissons (Pauly 1990) down to three trenches, one large buried culvert, and three large underground tanks (Phillips 1977). The count of 50 drum storage units, and three or four caissons is supported by documentation completed shortly after 618-11 closure

(Voiland 1970) (Cadwell 1971). The cartons with high dose rates were typically placed in the middle of the carton stack to reduce worker exposure.

Caisson wastes included much of the same waste materials, but radiation readings were in the thousands to tens of thousands R/hr at contact. The caisson wastes were typically sectioned in hot cells using master slave manipulators so the waste components could fit into smaller waste disposal canisters. Canisters used included metal paint cans, 5-gallon (20 L) buckets, slip top metal can with tape seals, etc. The cans were sealed, crimped, or closed and loaded into casks for shipment to the burial ground. Shielded casks constructed for the 325-A operations became available for use between January and March of 1964. An example Data Sheet on the 618-11 Burial Ground is shown in Table C.2-1.

All dry waste disposal casks that transported intermediate or high activity wastes to the 618-11 caissons or drum storage units were single lever single dump casks except for the 327 Building "Gatling Gun" cask.

The radiation monitor would stand with his instrumentation to monitor radiation "shine" at the waste discharged. Typical "shine" or flash beta/gamma discharge doses would be one to 5 R/hr out of the drum storage unit. Discharge doses from the off-set caisson chutes were significantly less. Otherwise, the only difference between waste discharges into caissons versus drum storage units was that caissons had hinged lids, not removable ones as did the drum storage unit.

Repeated discharge of moderate/high activity waste into drum storage units continued until the following conditions were reached: (1) Dose at ground level reached a predetermined operational level, usually about 15 R/hr; (2) The drum storage unit was full; (3) Particulate contaminants were found outside the top of the unit being filled as a result of container integrity problems, or from dispersal of previously disposed waste due to blowback or mishandling.

Several cardboard cartons read up to 500 R/hr at contact. Radiation surveys in the early 1980's showed ground contamination at the 618-11 burial ground site. Items including both HEPA and laboratory waste typically read from a few mrem/hr to 500 R/hr at contact.

Low activity wastes were disposed to the trenches using a variety of containers, namely: cardboard cartons, steel drums (barrels), metal buckets, wooden boxes, self contained equipment items, plastic wrap, and others. The weight and size of the disposed item typically dictated the type of container used. Another commonly used container or technique is the plastic wrap method. Disposal items too large or cumbersome to fit in more typical containers were wrapped in four to ten millimeter plastic sheeting and taped up to seal the item from the environment. This method was limited in the contamination protection it provided and was only used on a limited basis for items of primarily low activity and items difficult to package otherwise. Plastic wrapped items were either loaded directly on a flat-bed truck or if limited to just a few items was placed in load luggers for subsequent disposal.

Intermediate (10-1,000 Ci/ft^3 or 353-35,300 Ci/m^3) and high (>1000 Ci/ft^3 or 35,300 Ci/m^3) activity wastes were generated exclusively in hot cell activities in the 325-A, 325-B, and 327 Facilities. Prior to March 1964, 325-A hot cells disposed of its intermediate and high activity wastes to the trenches in lead-lined concrete drums. These drums had an eight-inch diameter culvert centered in a 55-gallon drum surrounded by concrete on the bottom and sides. In addition, the culvert might also be surrounded by one or two inches (2.5 to 5 cm) of lead, depending upon shielding requirements. The culvert was typically filled with three 0.15 ft^3 (4.2 L) paint cans that were approximately seven inches (18 cm) high by 7.5 inches (19 cm) in diameter. The culvert was capped with a lead plate and concrete was poured over the cap and into the remaining void space to fill the drum. The drums were made up and topped with concrete in a simple walk-in hot cell facility located in Room 530 of the 325 Building. Nearby gloveboxes and open-face hood areas were used as a support area for these wastes and many "hot" liquids including plutonium contaminated liquids were solidified and concreted in this facility.

In January and March of 1964, 325-A hot cells began using the one ton (907 kg) and seven ton (6,352 kg) dry waste casks to ship intermediate and high activity wastes to the 618-11 burial ground. The casks were loaded horizontally with waste containers from the hot cells and the wastes shipped to the burial ground in a vertical position. The one ton (907 kg) waste cask transported one gallon (4 L) waste cans (three per shipment) to the burial ground while the seven ton (6,352 kg) waste cask transported the 15-gallon (56.8 L) black iron can, the five gallon (20 L) paint can or bucket, and the 15-gallon (56.8 L) stainless steel resin can. The 15-gallon (56.8 L) black iron can and the five gallon (20 L) paint can had lids held on by a screwed down dog that was forced under the lip or into the can side. The 15-gallon (56.8 L) resin can had the lid welded on. The one gallon (4 L) can initially had a press-fit lid, but was later modified to a lid held on with metal clips because of lids coming off during discharge resulting sometimes in contamination problems at the burial ground.

The 327 Gatling Gun cask held 12 one quart (0.95 L) sealed cans. The cask was transported to the hot cell in a horizontal position and mounted to the exterior of the cell at the load out position. High activity wastes were loaded into one quart (0.95 L) industrial cans that had lids crimp-sealed on in the cell using a commercial canner. The cans were then loaded into the barrels (two cans per barrel) of the cask. The turret was rotated, via the ex-cell cask handle, and each barrel was subsequently loaded. After loading was complete, the cask was detached from the cell exterior wall, removed to the cask load-out area, and loaded onto the flatbed truck for transport to the burial ground.

The Gatling Gun cask was used only to dispose of high activity waste. It was first disposed to the drum storage units and later to the caissons. The records show 80 Gatling Gun cans were disposed into the 618-11 facility between July 1, 1963 and December 31, 1963, and another 150 cans were disposed to the facility between January 1, 1964 and June 30, 1964.

The other method to dispose of 327 Building hot-cell wastes to the 618-11 burial ground was by using "Milk Pails" or the Milk Pail cask. Milk Pail containers were six liter aluminum cans that were loaded with dry waste in the cell. The pails were seven inches (18 cm) in diameter, ten inches

(25 cm) high and they had a bail type lifting handle riveted to the pail. The pail material was extruded or spun aluminum metal approximately 0.025 inches (0.6 mm) thick. They were inserted into a plastic bag that was held in place by a rubber band before being placed into the cell. Relative contamination protection for the outside of the pails is thus obtained. The seven inches (18 cm) diameter container allows the waste cans to be inserted through a standard cell roof, and be large enough to accept about 20 grinding and polishing discs stacked horizontally. The cans were pulled up into the Milk Pail cask from the inside of the hot-cell using the wire bail handle.

The Milk Pail was filled with dry cell waste and then sealed before removal from the cell into the cask. The seal was made by adding a 20 wt% gelatin in water solution to the Milk Pail. The gelatin solution when set was strong enough to hold a ten pound lead brick rigidly in place. The Gelatin would also effectively trap small particles and dust. No other lid or seal was considered to be required for disposal of the Milk Pail waste.

The 20 wt% gelatin was found to be less expensive and was considered to be more efficient for sealing Milk Pails than a mechanical lid. It was also considered more satisfactory to work with in-cell than other encapsulating or sealing materials such as concrete or plaster of paris. However, the gelatin was probably lost in many instances when the waste was dropped into the storage drums or the caisson chutes, or has long since deteriorated. Gelatin of course is degradable through biological and other means whereas concrete and plaster of paris are a lot more resistant.

The gelatin and water were mixed together and the gelatin completely dissolved outside the hot cell. Hot water had to be used to dissolve the gelatin. The gelatin while still warm, was transferred into the cell through a liquid transfer line. The gel was placed over the waste and was allowed to cool and set (set-up) for 16 hours before the Milk Pail could be removed from the cell. The gelatin set could either be visually checked or checked mechanically with the manipulators. The Milk Pails had a 30 pound weight limit including gelatin. That meant that each Milk Pail was limited to 17 pounds of waste, since the gelatin seal weighed 13 lb. The maximum density of waste was therefore restricted to <10.7 lb/gallon (1.28 kg/L). Once the gelatin was set and the 16 hour waiting period was over, the Milk Pail was removed through the roof of the hot cell by a wire hooked to the pail handle.

The Milk Pail cask was suspended over the hot-cell on the crane with the bottom slide mechanism open and the cell top access port removed. A wire was run through the top access port of the cask into the cell where it hooked on to the handle of the Milk Pail. The pail was pulled up into the Milk Pail cask, and the bottom slide of the cask was closed and locked.

The majority of the 151 Milk Pails disposed to burial grounds between July 1, 1963 and December 31, 1963 went to the 618-11 drum storage units. All Milk Pails disposed to burial grounds from September 30, 1963 to December 31, 1967 went to the 618-11 burial ground drum storage or caisson units.

Trenches were driven over after the waste was emplaced at early trench disposal sites of TRU retrievable stored waste in the 200 East and 200 West Areas. The next truck loads to dump, as well as heavy equipment back filling

waste trenches, drove over previously emplaced waste. Activities at the 618-11 burial ground seemed to parallel these early trench waste fill activities. The cardboard boxes and wooden boxes would have been badly damaged. Subsequent failures of the containers could cause trench subsidence to be a problem in the near term years.

No drum failure analyses (whether caused by corrosion or static soil loading) have been found for 618-11 storage containers. Hanford soil corrosion rates of steel drums in direct soil contact show a general corrosion rate of 2-6 mm/year. (Duncan 1992) New condition, well painted drums exhibit the minimal corrosion rate while, reconditioned or surface damaged drums exhibit the maximum corrosion. Pitting corrosion rates are more aggressive, ranging from 3.5 to 9 mm/year. Reconditioned yellow cake (Uranium [VI] Oxide) drums seemed to exhibit the worst corrosion performance and sometimes caused contamination problems when uranium residues were not completely removed. Regardless, the 53 mm (0.053 inch) nominal walls of the typically used DOT 17H or 17E drums are expected to have lost integrity. Since these are the drums used to build the drum storage units, then the structure of the unit itself is considered lost.

C.2.1.2 Forecasted RH-TRU/TRUM Waste. The forecast projection for the RH-TRU/Transuranic Mixed (TRUM) waste category by waste volume and generator per year is given in Table C.2-2. (Valero 1994a & b, Templeton 1994)

The forecasted RH-TRU and RH-TRUM Waste information regarding the projected container type and physical characteristic is presented by generator in Tables C.2-3 and C.2-4, respectively. The waste generator descriptions are in Section C.7.

C.2.2 Contact-Handled (CH) Transuranic Large Containers. An inventory of special CH-TRU waste existing in 1993 and will be held through the year 2024, is depicted in Figure C.2-6.

C.2.2.1 Stored CH-TRU & TRUM Large Container Waste (Anderson 1991). Most of this waste generated since 1970 is in 55-gallon drums, stored as shown in Figure C.2-8. The radionuclide inventory in the retrievably stored TRU waste can be seen in Table C.2-2.

C.2.2.2 Forecast CH-TRU & TRUM Large Container Waste. The forecast projection for the CH-TRU/TRUM Large Container Waste category by waste volume and generator per year is given in Table C.2-6. Forecast CH-TRU and CH-TRUM Large Container waste information regarding the projected container type and physical characteristic is presented by generator in Table C.2-7. The waste generator descriptions are in Section C.7. (Valero 1994a & b, Templeton 1994)

C.2.3 Special Contact-Handled Waste. An inventory of special CH-TRU waste existing in 1993 and will be held through the year 2024, is depicted in Figure C.2-5.

C.2.3.1 Special Forecast CH Waste. The annual volume projects by year are given in Table C.2-8. Forecasted information regarding the projected container type and physical characteristic is presented by generator in Table C.2-9. The waste generator descriptions are in Section C.7. (Valero 1994a & b, Templeton 1994)

C.3 LOW LEVEL MIXED WASTE. An inventory of low level mixed waste existing in 1993 and will be held through the year 2024, is depicted in Figure C.3-1 and Figure C.3-2.

C.3.1 Forecasted RH-LLMW. An inventory of remote-handled low level mixed waste with LLEC, and without LLEC is depicted in Figures C.3-4 and C.3-5 respectively.

The forecast projection for the RH-LLMW waste category by waste volume and generator per year is given in Table C.3-1. Forecasted information regarding the projected container type and physical characteristic is presented by generator in Table C.3-2. The waste generator descriptions are in Section C.7. (Valero 1994a & b, Templeton 1994)

C.3.2 Forecasted Contact-Handled (CH) LLMW Large Containers. An inventory of low level mixed waste existing in 1993 and will be held through the year 2024, is depicted in Figure C.3-3.

The forecast projection for the CH-LLMW Large Containers waste category by waste volume and generator per year is given in Table C.3-3. Forecasted information regarding the projected container type and physical characteristic is presented by generator in Table C.3-4. The waste generator descriptions are in Section C.7. (Valero 1994a & b, Templeton 1994)

C.4 GREATER THAN CATEGORY 3 LLW & LLMW

The forecast projection for the Greater than Category 3 (GTC3) remote handled-low level mixed waste (RH-LLMW) waste category by waste volume and generator per year is given in Table C.4-1 (Valero 1994a & b, Templeton 1994). The waste generator descriptions are in Section C.7.

The GTC3 Remote-Handled Low Level and Mixed Waste forecast information regarding the projected container type and physical characteristic is presented by generator in Tables C.4-2 and C.4-3, respectively.

The GTC3 Contact-Handled Low Level and Mixed Waste forecast information regarding the projected container type and physical characteristic is presented by generator in Tables C.4-4 and C.4-5, respectively.

C.5 MISCELLANEOUS MATERIALS

C.5.2 Unirradiated Uranium (Lini 1994)

The inventory of unirradiated depleted uranium, natural uranium, and low enriched uranium at the Hanford site is presented in Table C.5-1.

C.5.2.1 Finished and Unfinished Fuel Assemblies

C.5.2.1.1 Fuel Assembly Inventory (N Reactor). The inventory consists of 1,144 boxes of finished fuel assemblies and 339 boxes of unfinished fuel. Finished fuel assemblies are stored in "red" shipping boxes which were used to transport fuel between the 300 Area and N Reactor. The fuel assemblies stored in 251 boxes are surface contaminated. They were loaded into the reactor but not irradiated. They were subsequently removed from the reactor and packaged and stored in Buildings 303-A and 303-E. The surface contaminated fuel is in red boxes doubly wrapped in plastic and have plywood lids to prevent contamination spread. Bands and tamper indicating device seals were placed on those boxes to facilitate special nuclear material accountability control.

The outer elements of unfinished fuel assemblies are also stored in red boxes. The unfinished fuel is in red boxes and Model G-4214 National Lead of Ohio (NLO) boxes in the 3716 Building. Outer elements are stored in red boxes and inner elements are in the G-4214 boxes. There are some assemblies (inner plus outer) in red boxes, but they are not completed fuel assemblies lacking various clips, etc. The red boxes used to store unfinished fuel are open in the front and do not have all the hardware and braces needed to make than certified red shipping boxes. The outer elements in the red boxes are packed maximum 36 to a box using the spacing devices for finished assemblies. The inner elements are simply wrapped in plastic and put in the short boxes. Those inner and outer elements which do not have welded end pieces have end caps on them to retard uranium oxidation and contamination spread.

The number of boxes and assemblies by enrichment type for the finished assemblies, the surface contaminated assemblies, and the unfinished fuel is shown in Tables C.5-2, C.5-3, and C.5-4, respectively.

C.5.2.1.2 Assembly Configuration. There are six types of assemblies in inventory at Hanford. Each type of assembly is characterized by the ^{235}U enrichment of the inner and outer fuel element. The Zr-2 clad fuel assemblies are hollow cylindrical tubes of metallic uranium that are clad on the outside and inside surfaces with Zircaloy-2 alloy material. From 0.013 inches (0.33 mm) to 0.034 inches (0.86 mm) of cladding is on each surface, depending on the model. The pieces are clad enclosed on each end with additional Zircaloy-2 material that has been brazed with a Zircaloy-2 + 5% beryllium alloy. Two pieces, matching in length, are locked together by nine locking-spacer clips into a tube-in-tube assembly so that one (smaller diameter) tube is inside the other (larger) tube. The outer tube also has eight support clips on its exterior surface for alignment in the reactor fuel channels. Fuel assemblies vary in length from 26 inches (66 cm) to 15 inches (38.1 cm). The average fuel assembly weight 20.1 kg (44 lb).

The unfinished fuel could exist in any stage of the fabrication cycle: as a co-extruded billet (now a long clad tube without Zircaloy-2 cladding on ends); as a clad tubing, cut to fuel element length, but without cladding on the ends; as a completely clad fuel tube.

C.5.2.1.3 Fuel Element Composition. The N Reactor fuel elements are constructed of metallic uranium clad in Zircaloy-2. Cladding represents about 7% by weight of the finished fuel element. The chemical composition of N Reactor fuel components is shown in Table C.5-5.

Much of the metallic uranium used to manufacture the fuel assemblies was recycled uranium oxide which was "sweetened" with suitably enriched uranium. Therefore the uranium isotopic distribution and the radionuclide impurities in the fuel element will reflect those constituents present in recovered UO_3 powder. The specification for Hanford UO_3 is provided in Table C.5-6.

C.5.2.2 Depleted Uranium Trioxide Powder

Depleted uranium trioxide powder (0.27-0.30% ^{235}U) is stored at the UO_3 Plant, 2714-U Building, in 172 55-gallon (0.21 m^3) drums. Drums are stored four to a pallet, two pallets high. The average foot print of a pallet is about 16 ft^2 (1.5 m^2). Each of the drums contain what is considered an excessive amount of weight (~1500-1900 lb or 680-862 kg) and are judged unacceptable for shipment as is. Present facility involves only routine building maintenance and electrical maintenance, as the facility contains no other utility services.

Based on the present stacking configuration and the footprint of wooden pallets, approximately 600 ft^2 (56 m^2) of storage space, including inspection aisles, is required to store this material.

The average chemical analysis of three different lots of depleted uranium trioxide powder is summarized in Table C.5-7.

C.5.2.3 Uranium Dioxide Pellets, Powder, and Fuel Pins, Fuel Assemblies and Uranium Metal. Approximately 3.4 MTU of unirradiated uranium in the form of uranium dioxide pellets, powder, fuel pins and fuel assemblies are stored in the 300 Area, 303-K South Building. All of the materials, except the fuel pins and fuel assemblies are packed in taped slip lid cans, one to five gallon (0.004 to 0.02 m^3) buckets, or cans within 55-gallon (0.21 m^3) drums. The fuel pellets within the pins and assemblies are encapsulated within stainless steel cladding. Also stored in the 303-K South Building is 0.47 MT of unirradiated thorium oxide. The thorium is packed in 2.5-gallon (0.01 m^3) buckets. For transfer to another facility the cans and buckets would need to be placed within approved shipping drums or boxes. The fuel pins and fuel assemblies, if transferred, would need to be placed within approved shipping containers or boxes. Present storage facility location requires 525 ft^2 (49 m^2). Present DOE order inspection and inventory requirements are met with this facility. The present facility involves only electrical maintenance, as facility contains no other utility services.

Approximately 21.16 MTU of DU metal in the form of 11 five feet (1.5 m) by five feet (1.5 m) by eight inches (20 cm) solid slabs are stored in the 400 Area, 4713 Building. The slabs are contained within ten metal and one wood containers. The floor space that this material is stored on is approximately 100 ft^2 (9.29 m^2) of the facility. The present facility involves only electrical maintenance, as the facility contains no other utility services. To relocate this material to another storage area would require approval of the containers for shipping.

C.5.2.4 Uranium Metal Billets and Low Enriched Uranium Trioxide Powder. Attempts to sell approximately 940 MTU of uranium metal billets and approximately 677 MTU of low enriched uranium trioxide powder (Table C.5-8) have been made and will continue. The metal billets are currently stored in

shipping boxes in Buildings 3712, 303-B, and 303-G in the 300 Area. The uranium trioxide powder is stored in 146 T-hoppers at the UO_3 Plant in the 200 West Area.

C.5.2.4.1 **Uranium Metal Billets.** The inventory of uranium metal billets consists of 1,258 boxes of billets. The billets are stored in wooden shipping containers originally designed by NLO. These boxes are steel banded wooden crates that have been used for the past 40 years.

A billet is the uranium core which is used in the manufacturing of N Reactor fuel. Billets are received from Fernald in wooden shipping containers with four to five billets per container. Three ^{235}U enrichments of billets can be found at Hanford: natural uranium (0.71 ^{235}U), 0.95 ^{235}U, and 1.25 ^{235}U. There are six types of billets found at Hanford and the exact type of billet is dependent on the ^{235}U enrichment, the type of assembly to be manufactured, and whether an inner or outer element is to be manufactured. A billet is an annular cylinder with one face being concave and the other face convex. Billets which produce outer elements nominally have an outer diameter of seven inches (17.8 cm) and an inner diameter of 2.5 to 2.8 inches (6.35 to 7.1 cm). Billets which will produce inner elements nominally have an outer diameter of 5.4 in (13.7 cm) and an inner diameter of 1.3 inches (3.3 cm). All billets range from 18 to 19 inches (45.7 to 48.3 cm) in length. An inner billet weighs between 124 to 126 Kg, and an outer billet weighs between 193 to 194 Kg, on the average. The number of boxes and assemblies by enrichment type for the billets is shown in Table C.5-9

C.5.2.4.2 **Description of Billet Storage Array.** The metal billet inner elements are stored five to a box, while metal billet outers are stored four to a box. The number of billet boxes and their location is shown in Table C.5-10. The billet boxes are stacked five high except for 318 boxes of 1.25 ^{235}U billets which are stacked three high.

Based on the current stacking configuration and the footprint of the storage box approximately 6,000 ft^2 (557 m^2) would be required to accommodate the storage containers and provide access aisles.

C.5.2.4.3 **Uranium Trioxide Powder.** Approximately 677 MTU or uranium trioxide powder is stored in 146 T-hoppers at the UO_3 Plant in the 200 West Area. The T-hoppers are stored on a 90 by 150 feet (28 by 46 m) outdoor storage pad. The T-hoppers are stored eight to a row, two T-hoppers wide. A T-hopper is a truncated cylindrical vessel that can hold up to 12,000 lb (5,400 kg) of UO_3 powder. The T-hopper is six feet (1.8 m) in height and five feet (1.5 m) in diameter at the top. It sits on a four feet (1.2 m) base. Based on the footprint of a T-hopper, 6000 ft^2 (557 m^2) of storage space, including inspection aisles is required to store the uranium trioxide.

C.5.3 Miscellaneous Sources

The miscellaneous materials information was compiled from waste management records and from principal line or facility contacts from the PNL unique material listing. The approximated total volume of miscellaneous sources is 15 m^3 (Table C.5-11).

C.5.3.1 Borosilicate Glass Canisters. Prior to overpacking the canister dimensions were as follow:

- NWVP - 0.22 m diameter by 2.44 m long;
- WV - 0.32 m Outer Diameter (OD) by 2.59 m long;
- TMI - 0.22 m OD by 2.44 m long;
- WSEP - 0.22 m OD by 2.44 m long;
- FRG - 0.3 m diameter by 1.2 m long; and
- Radioactive Liquid Fed Ceramic Melter (RLFCM) - 0.27 m OD by 1.82 m long.

C.5.3.2 High Dose Rate LLW and RMW (solid material). Table C.5-12 identifies the waste streams and provides a summary of the major characteristics of the wastes. The radiation category for these wastes has been previously identified as special-case wastes rather than subcategories of transuranic (TRU) waste and low-level waste (LLW) The currently planned packing for these wastes are:

- Dispersable Debris - 0.28 m diameter by 1.83 m length;
- Dried Feed - 0.28 m diameter by 1.83 m length;
- Oil Absorption Materials - 55-gallon (0.81 m^3) drum; and
- Liquid Metal sealant - 55-gallon (0.81 m^3) drum.

The waste volumes as noted in Table C.5-12 are for the as-generated and unpackaged wastes. For the following calculations it was assumed that about a 25% volume reduction of the dispersible debris waste would be achieved by removal of the large-sized non-hazardous items which are subsequently decontaminated sufficiently that they can be handled as low-level waste. The residuals from this decontamination activity will be recombined with the particulate fraction of the wastes. It was also assumed that all of the wastes would be packaged at a 90% efficiency. As noted above, the dispersible debris wastes cannot all be collected until equipment in the cell is removed. Thus, the final wastes may not all be available for removal from 324 Building until September 2000. The volumes of wastes available for removal as a function of time are shown in Table C.5-13. As can be noted, the majority of the wastes (about 85%) could be made available for removal by the end of 1996.

The four different solid waste streams are from very different operations and have different characteristics as to physical form, radionuclide content, and hazardous components. Brief descriptions of each waste stream are presented below.

C.5.3.2.1 Dispersible Debris. The dispersible debris waste consists of dirt, dust, and process residues and equipment and tools that have been collected and will be collected from the floor of B-Cell. The debris includes tools and equipment that have fallen to the cell floor. The debris by itself does not contain any hazardous components. However, the dispersible particulate has been contaminated with process feed solutions that contained heavy metals and spent fuel particulate. It has been estimated that the debris contains about 1,500,000 Ci of radioactivity, principally cesium and strontium. With this estimated level of activity a 3 ft^3 (0.08 m^3) canister of waste would have a radiation level of about 100,000 R/hr and would have a heat generation rate of about 300 W. The TRU level of this waste was measured on one sample to be 17.3 μCi/g. Thus this waste is classified as a TRU waste.

Additional compositional data on the one sample of this waste is included in Table C.5-14. The total activity measured on this sample was about a factor of 10 below the estimated average for all of the debris. This indicates that there may be considerable heterogeneity within the waste stream. It is estimated that only about 25% of the material is larger than 2.5 inches (63 mm)--large enough to be considered a debris waste under the EPA regulations. This debris fraction is planned to be removed from the remainder of the waste, decontaminated and disposed of as radioactive waste only. About 38 ft^3 (1.1 m^3) of the dispersible debris has been collected from B-Cell and it is estimated that an additional 50 ft^3 (1.4 m^3) remain to be collected.

C.5.3.2.2 **Dried Melter Feed.** This waste was originally a liquid slurry that was prepared as feed for the glass melter in B-Cell as part of a program to assist the FRG in its repository program. The original melter feed contained high levels of ^{137}Cs and ^{90}Sr to duplicate that expected from spent fuel reprocessing wastes. The melter feed contained low levels of lead, chrome, and plutonium in solution. The water evaporated from the melter feed slurry after shutdown of the process equipment and the residual dried melter feed was removed from the process equipment. It contains all of the solids originally present. The volume of this waste stream is about 6 ft^3 (0.17 m^3). Like the dispersible debris wastes it will have a high radiation level and significant heat generation rate.

C.5.3.2.3 **Liquid Metal Seal.** The liquid metal seal is a metal alloy that is reported to contain 50% Bi, 26.7% Pb, 13.3% Sn, and 10% Cd. This alloy has a melting point of 158 °F. It was used as a seal material as part of the glass melter. The waste is an inherently hazardous material and as packaged is less than 7 ft^3 (0.20 m^3) in volume. It has been exposed to high levels of radioactive materials and particulate, but the radioactive content has not been characterized.

C.5.3.2.4 **Oil Absorption Material.** An absorption material was used in B-Cell to clean up oil from a leaking window. The absorption material is a clay-based material like "kitty litter." It is contained within a 55-gallon drum (0.21 m^3). Its exposure to the cell environment makes it a radioactive waste and the oil designates as a Washington State Toxic designated waste (WT02). It is expected that the radioactive levels will make it a special-case waste or a category 3 low-level waste.

C.6 CESIUM AND STRONTIUM CAPSULES

The chemical reprocessing of irradiated nuclear fuels in the Hanford Chemical separations areas generated significant volumes of high-level, liquid, radioactive wastes. These wastes were stored as alkaline slurries in underground, single-shell tanks. As a part of closing out the use of single-shell tanks for high-level waste, a program was developed to accomplish the following:

- Separately remove the high-heat producing strontium and cesium from the liquid high-level waste.
- Convert the strontium and cesium liquids to solids.

- Encapsulate the solidified strontium and cesium.
- Provide interim pool storage for the strontium and cesium until such time as a permanent geological repository becomes available.

Facilities were built on the Hanford reservation to accomplish these goals. The primary facility is the Waste Encapsulation and Storage Facility (WESF). It was designed for 24 hr/day operation, producing about 360 cesium capsules and 170 strontium capsules annually (DOE/ORO 1990).

C.6.1 Cesium and Strontium Capsules

Storage of the strontium and cesium capsules will be continued in the existing water basins until a disposal or other long-term storage alternative is selected. This method of storage provides multiple containment by double-shell stainless steel capsules, water basins, reinforced concrete building, and a ventilation system containing multiple High-Efficiency Particulate Air (HEPA) filters. Some capsules have already been shipped off site for beneficial use as heat or radiation sources. Due to a small failure of one capsule in a private irradiator in Georgia, the U.S. DOE directed that all cesium capsules leased to private irradiators be returned to Hanford for storage at WESF. By the end of Fiscal Year (FY) 1996, all of the 765 cesium capsules leased to private irradiators are expected to be returned to WESF or to other DOE controlled facilities (e.g., PNL, Oak Ridge National Laboratory). The total number of strontium and cesium capsules, their curie content, chemical make-up, and heat release are summarized in Table C.6-1.

There is some PNL strontium fluoride material also included in this waste stream that has been declared waste and a DOT compliant shipping container is currently being designed and evaluated. There are 777 grams of strontium fluoride (35,000 Ci) contained in four 2 inch (5.1 cm) diameter pipes ranging from 6 - 8 inches (15 - 20 cm) in length. This material is located in the 325A High Level Radiochemistry Facility's B-cell. The total Volume of strontium fluoride is 0.0015 m^3. This is classified as GTC3-LLW with a curie content of 35,000 Ci from ^{90}Sr. The containers are remote handled Materials with a dose rate of greater than 100 R/hr.

C.6.2 Receiving Waste Package

There are two types of shipping casks for the cesium and strontium capsules. The Beneficial Uses Shipping System (BUSS) cask is currently licensed by the Nuclear Regulatory Commission (NRC) and DOE for shipment of special form (49 CFR 173.469) WESF cesium and strontium capsules. Loaded these shipping casks would weigh approximately 35,000 lbs (15,880 kg).

C.6.2.1 BUSS Cask (Sandia 1994). The Beneficial Uses Shipping Systems (BUSS) cask is intended to be used for transporting sealed capsules of radioactive cesium chloride or strontium fluoride.

The BUSS Cask Model R-1 is a Type B shipping container used for Highway Route Controlled Quantity nonfissible radioactive material shipments. The radionuclides to be shipped in the BUSS cask are primarily ^{137}Cs (in the form of doubly encapsulated cesium chloride) and ^{90}Sr (as doubly encapsulated strontium fluoride).

C.6.2.1.1 Packaging Description. The major components of the BUSS cask system include the cask body and lid, basket, impact limiters, personnel barrier, and skid. The estimated weight and overall dimensions of each of these components are listed in Table C.6-2. The maximum gross weight of the basic system for which certification is requested is 32,900 lb (14,927 kg). General information on the BUSS Cask is provided in Table C.6-3.Z.

The BUSS cask body is a one-piece, cylindrical forging with envelope dimensions of 54.25 inches (137.8 cm) OD and 49 inches (124.5 cm) high. Eleven four-inch (10.16 cm) high circumferential fins are situated symmetrically about the axial midplane of the cask body. The fins are an integral, non-welded part of the container walls and are complete except at locations where portions of the fins are removed to enable attachment of the trunnions and lift fixtures and placement on the skid. The cask body has a cylindrical cavity with dimensions (with the cask lid in place) of 20.25 inches (51.44 cm) diameter and 23.0 inches (58.4 cm) high. Besides the opening for the lid, there are two other penetrations into the interior of the cask body; a 1.25 inch (3.18 cm) diameter inlet port near the lid end of the container and a diametrically opposite identical drain port at the bottom of the cask cavity. Both ports are fitted with a thermal cover (shield), bolted port cover and recessed seal. The walls and closed end of the cask body are a minimum of 13 inches (33 cm) thick.

The tie-down and lift features on the cask body include two trunnions and two lift lugs. The two five inch (12.7 cm) diameter, 9.78 inch (24.84 cm) long trunnions are located diametrically opposite each other on the axial midplane of the cask. The lift lugs are positioned in-line along one side of the container. The trunnions and lift lugs are bolted to these locations and for all bolt locations on the cask body except as noted.

The cask lid is a one-piece forging with envelope dimensions 28.78 inches (73.1 cm) in diameter and 12.84 inches (32.61 cm) high. The lid is bolted to the cask body by using 12 (A-286) corrosion resistant steel 1.5 inches (3.81 cm) diameter bolts through the 3.8 inch (10 cm) thick lid flange. A groove is machined about the circumference of the lid plug at a depth into the cask interior corresponding to the height of the inlet port, and a series of 12 0.75-inch (1.91 cm) diameter holes are drilled at an angle from this groove to the cask interior. This arrangement provides better distribution of coolant if any is introduced into the cavity through the inlet port. Two diametrically opposite 0.125 inch (0.318 cm) diameter holes also penetrate the flange of the lid to enable leak checking of the lid seal. Three jacking screws are used to slowly lower the cask lid onto the cask body to prevent damage to the seal during lid installation and handling. Four bolt inserts made from A286 steel are available in the top surface of the lid for attaching the lid lifting adapter. The 12 bolt inserts holding the cask lid onto the body are fabricated of ASME SA-320, GR L-43 steel.

The cask body and lid are both fabricated from ASTM A473, Type 304 stainless steel. The cask lid and port seals each consist of concentric double seals, one of copper and the other elastomeric. In each case the metallic seal is located in-board to the elastomeric seal relative to the cask interior.

Depending on the thermal power level of cesium or strontium capsules to be transported, one of four baskets may be used for transport. Each cask basket is 19.95 inches (50.67 cm) in diameter and 22.83 inches (57.98 cm) high. Holes are drilled into the baskets to form receptacles for the capsules. These receptacles are 2.875 inches (7.303 cm) in diameter and are drilled through the length of the basket. A capsule support is welded to the bottom of each capsule receptacle. Channels have been machined into the bottom of the basket to distribute coolant water to each capsule receptacle and to ensure complete drainage of water after pool loading/unloading. There are extensions at the top of the basket that keep the basket from loading the capsules during an end-on impact accident. The basket is also provided with a lifting handle that retracts below the basket extensions during transport. The basket is fabricated from ASTM A314, Type 304 stainless steel.

The BUSS cask is provided with an impact limiter at each end. The envelope dimensions of each impact limiter are 84.66 inches (215 cm) in diameter and 39.0 inches (99.06 cm) high. The limiters are shells fabricated from a 0.120 inch (0.305 cm) to 0.250 inch (0.635 cm) thick Type 304 stainless steel sheet and filled with moderate-density polyurethane foam. The foam thickness is about 18 inches (45.7 cm) on the sides and 27 inches (68.6 cm) on the ends of the container. On the surfaces of the limiters next to the cask are rings with 0.5 inch (1.27 cm) holes that maintain clearance between the cask and the limiters and enable air to circulate around the ends of the container. For normal operating conditions, the impact limiters are held in place on the cask with four turnbuckles. For accident conditions, a loose fitting tape joint retains each impact limiter onto the cask body.

Two tamper seals are provided on the cask as required in 10 CFR 71.85(c). The crimp style seals are incorporated into the tape joint retaining plug. The tape joint retaining plug prevents the tapes from being withdrawn from the grooves formed between the cask body and the impact limiter. Access to the cask lid closure and two side ports is restricted because the tape joints and the impact limiters must be removed first. These seals are located near the bottom of the cask (when it is being transported) and beneath the personnel barrier. The seals can be viewed through the expanded wire metal sheet of the personnel barrier.

The BUSS cask is suitable for all transport modes. The container should always be transported in an assembled configuration (e.g., with the impact limiters and personnel barrier in place and the assembly fastened to the skid).

The cask can be either dry- or wet-loaded, depending on its contents. After the cask is loaded, care must be taken to ensure that the cask lid and inlet port covers are securely bolted shut. The seal of each of the closures shall be leak-checked by using the test ports provided. Failure of the seals to meet the recommended level of leak tightness must be corrected before shipping the cask. We also recommend sampling the seal test volumes and the cask interior atmosphere before loosening the lid and inlet port bolts for unloading.

The BUSS Cask provides for retention of helium which is used as a coolant under normal transport conditions. The design leakage rate for the cask is 1×10^{-4} atm*cc/s.

C.6.2.1.2 Packaging Contents. The contents of the BUSS cask are certified special form WESF capsules of melt-cast cesium chloride or pressed-filled strontium fluoride. See previous section for drawing information. About one-third of the cesium recovered in WESF processing is radioactive ^{137}Cs and the remainder of the cesium is stable ^{133}Cs with less than 1% of ^{134}Cs and about 10% of ^{135}Cs. Consequently, the most significant radioactive source in the cesium capsules is ^{137}Cs. Table C.6-1 summarizes the container load limits for each type of contents. The BUSS cask relies on administrative controls to ensure that the content limits are not exceeded. One of four baskets may be used depending on the thermal power of the capsules to be transported.

The physical data and contents information for a cesium chloride capsule are given in Table C.6-5. Similar data for a strontium fluoride capsule are provided in Table C.6-6.

From Table C.6-5 we see that the maximum curie loading for a cesium chloride capsule to be transported in the BUSS cask is 70,000 Ci of ^{137}Cs. Measured curie loadings are typically less, with a maximum of 65,000 Ci. The shielding analyses presented were done with the conservative value of 70,000 Ci/capsule with 16 capsules in the cask. Similarly, the peak loading of 140,000 Ci of ^{90}Sr in six capsules has been assumed in the shielding calculation of this WESF capsule type.

Cesium chloride undergoes a crystalline phase transition temperature at approximately 469 °F, resulting in an 18% increase in salt volume. However, since the cesium capsules were poured as molten liquid, the expansion due to the phase transition is accounted for in the capsule design.

C.7 FORECAST GENERATOR DESCRIPTIONS

The forecast generator descriptions within the scope of this study are listed below and presented in alphabetical order.

222-S Laboratory (WHC_222S): The Process and Analytical Laboratory, or 222-S Laboratory, performs analysis of tank farm core samples at Hanford. The majority of waste comes directly from this process while secondary waste accounts for a small fraction of the LLMW in the form of gloves, paper, and pipettes. The forecasted volumes are based on past shipments and inventory sheets that estimate the percentage of different wastes in a drum; therefore, the generator is confident that the waste volumes are accurate. It is assumed by this waste generator that more LLMW will be generated through 1998 with an increase in-tank sampling.

Argonne National Laboratory-East (ANL_E): This waste generator, operated and managed by the University of Chicago, is a DOE energy research and development laboratory with several principal objectives. Argonne's main mission is to perform basic and applied research that supports the development of energy-related technologies. The large waste volumes projected for Fiscal Year (FY) 1994 are due to Site remediation projects and D&D activities. Some waste will also be generated from laboratory bench-scale projects. The waste volumes for FY 1995 - FY 2023 are projected to decrease dramatically as current remediation sites are cleaned up. Argonne has assumed that only 80% of possible Environmental Restoration (ER) waste has been included in the forecast; thus, the unaccounted 20% may also be shipped to Hanford.

Battelle Columbus Laboratories (BAT_CLBS_LAB): Waste generated at this facility will be generated as a result of D&D and routine surveillance and maintenance activities. Wastes generated at the KA facilities contain natural uranium, thorium-232, cobalt-60, and cesium-137. Wastes generated at the WJ facility will include low levels of irradiated fuel and activated metal contamination. All waste classes will be segregated to the extent possible and as allowed by approved Storage/Disposal Approval Record.

Bettis Atomic Power Laboratory (BAPL): The mixed waste (MW) will be generated from D&D operation at the Bettis Atomic Power Laboratory. The majority of the MW will be segregated and packaged with one constituent in a container prior to shipment. Like MW with similar waste codes and treatment standards will be packaged together as allowed by Storage/ Disposal Approval Records (SDAR). The out years project a small amount of mixed waste, primarily lead solids, which can not be decontaminated, and accumulated oils containing heavy metals.

DST NCAW Process Tests (WHC_DST_PRT): This waste generator's forecasted volumes are based on a proposed project to pretreat tank waste supernatant for the grout facility. The waste projected in the forecast is the zeolite used for ion exchange to remove cesium from tank supernatant. Although the grout facility is no longer in the current tank waste treatment strategy, it is assumed that some type of pretreatment will be required prior to final waste stabilization. Therefore, the volumes estimated for the NCAW process tests have been included in this study, but the original 1993 forecast has been delayed by eight years to correspond to the revised TPA milestones.

This generator is forecasting for a single project demonstration. If the tests are successful, it is possible that the process could become a full-scale operation. If this were to be the case, a large increase in waste volumes would be expected.

This generator has forecasted RH-TRU/TRUM as its only waste category. The basis for this classification is as a worst-case scenario. Therefore, it is possible that the waste will be reclassified. Furthermore, the actual waste volume is only 12% of the external container volume due to the large amount of concrete shielding necessary for this waste. If the waste requires less shielding and thus could be packaged in smaller containers, the actual volume could be significantly less than the forecasted volume.

Environmental Projects (WHC_WELL_DRL): This generator primarily projects soil and slurry waste generated during drilling and investigation bore holes in the 200 Area operable units. This waste will include incidental wastes from operations (e.g., rags, trash, pumps and piping, contaminated casing, and other material) as well as the soils. All unique waste forms are expected to be segregated.

Hanford Grout Facility (WHC_GROUT): Waste generated at this facility will occur during module entry and will include filters, protective gear, tools, failed equipment, ignitable rags, and miscellaneous toxic materials. The TPA has revised milestones which have canceled this project; however, these secondary wastes will still be produced but by a facility not yet defined. Therefore, it is assumed that the shipping schedule will be delayed by eight years with receipt of the volumes commencing in 2004, coinciding with the planned start-up for treatment of low-activity tank waste.

Hanford Waste Vitrification Project (WHC_HWVP): HWVP is a treatment/processing facility for tank waste. Secondary waste generated from this process will result in solid waste streams such as jumper change-outs, master slave manipulator change-outs, and failed equipment. After receipt of the forecast, however, the Tri-Party Agreement (TPA) milestones were revised which delayed this project. Therefore, an eight year delay has been assumed with waste receipt beginning in 2009. Furthermore, with a revised increased tank retrieval schedule, HWVP is planning to increase its process flow rates which may increase the generation of solid waste.

K-Basin Operations (WHC_100K): TRU wastes generated at this facility are composed primarily of backlog or held wastes generated by operation of K Basins from 1989 to present. They include ion columns, ion exchange modules, and cartridge filters form KE and KW plus those generated by KE in FY 1994 and FY 1995 during the encapsulation period. The TRU wastes, like the Low Level Wastes (LLW), are heterogeneous components which will not be segregated prior to shipment and burial. The following assumptions have been made for the purpose of waste forecast information.

1) Encapsulation activities occurred at KE Basin during FY 1994. These activities generated elevated amounts of TRU wastes from cartridge filters and ion exchange modules, but it is expected that wastes generated following encapsulation will be low level, although they will still probably remain at RH dose rates.

2) Currently held ion exchange modules, ion columns, and cartridge filters are to be shipped during FY 1995 and FY 1996. It is assumed that all TRU shipments can be completed within this period.

3) Since the exact volume of KE sludge is unknown, it has not been included in this forecast, however may be expected.

Note: The K-Basin sludge has been proposed for use by the Spent Nuclear Fuels program or may end up going to Tank Farms, thereby out of scope for this study.

Knolls Atomic Power Shipyards (KAPL_SHIPYDS): This waste is comprised of classified reactor plant components shipped from shipyards. The reactor components are removed during refueling/defueling operations only. One component is expected to be shipped each year. The reactor component is housed in a lead shielded container separately contained. The only mixed waste present is lead which is part of the shielded container.

Long-Length Equipment (LL_EQUIP): During tank farm cleanup, current planning is to remove the long-length pieces of equipment from the tanks and send this equipment to the Solid Waste Operations Complex (SWOC) for treatment, storage, and disposal. The long-length equipment is equipment which has been installed in the tanks and is greater than 3.6 m (12 ft) 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 currently in the tanks.

Pacific Northwest Laboratories (PNL): PNL's waste streams are varied and are associated with research and development activities being accomplished at the Hanford Site. Waste forms will be segregated whenever possible. If hazards and/or future treatment scenario's warrant separation of the waste form then will be accomplished. All waste streams are segregated prior to packaging and shipment. It is difficult to predict what type of research will be on-going in the next 30 years, so therefore it is difficult to predict the volume of waste. The assumptions used to prepare the LLW portion of this forecast are that the current waste streams will continue approximately as they are. The TRUM and LLMW portions are expected to increase over the next several years.

Past Practice Remediation Projects (PAST_PRAC_REM): It is assumed that the Solid Waste Disposal (SWD) Program will be responsible for the TRU/TRUM and LLMW of past practice sites because the SWD Program has treatment technologies for these. The Environmental Restoration Contractor is responsible for other remediation wastes. The wastes included for this generator are 10% of the LLMW total for treatment, the TRU/TRUM waste, and the greater than Category 3 waste. The greater than Category 3 waste had no category designation; therefore, for the purpose of this document, this waste was assumed to be LLMW.

Portsmouth Gaseous Diffusion Plant (PORTSMOUTH): This waste generator takes a product from either Paducah or Oak Ridge and continues ^{235}U enrichment to the final desired enrichment. The plant was constructed in 1956 and is expected to operate until the year 2005, with D&D commencing in 2021. The waste volume projections used in the 1993 Portsmouth Solid Waste Forecast include primarily existing waste and some waste from Environmental Restoration (ER) closure projects. ER waste volumes could increase with additional projects. The accumulated waste is from operations prior to July 1, 1993. On this date, the United States Enrichment Corporation (USEC) assumed responsibility for waste further generated during operation; therefore, under U.S. Department of Energy direction, the waste after July 1, 1993, will not be sent to the Hanford Site. However, if Hanford was determined to receive this waste, forecasted volumes would increase to reflect operations after July 1, 1993. It should also be noted that Hanford has not accepted waste from Portsmouth for three years. If this trend is continued, waste volumes may never be received by Hanford.

Purex Tunnel Waste (218E14 & 15) (LATA 1994): Two PUREX tunnels, 1 and 2, were used for interim storage to shelter failed or obsolete process equipment. The process equipment, bulky and highly radioactive, could not be removed for the PUREX Plant. Tunnel 1 is filled to capacity with eight railcars that contain approximately 20,800 ft^3 (589 m^3) of unsegregated radioactive waste. It is estimated that about 45% of the waste could be classified as TRU, while the remainder is LLW. Also, approximately 500 lbs (227 kg) of lead is stored in tunnel 1.

Tunnel 2, which currently holds 17 railcars, contains about 48,500 ft^3 (1,373 m^3) of unsegregated radioactive waste. Approximately 30% of the unsegregated radioactive waste is estimated to be TRU. This tunnel also contains about 284 lb (129 kg) of mercury, 1,625 lb (737 kg) of silver salts (as silver nitrate), and 6,084 lb (2,760 kg) of lead.

The RH_LLMW is made up of four dissolvers, approximately 7,950 m^3 (280,750 ft^3). The long length equipment from tank farms accounts for 14 m^3 (494 ft^3). The CH_LLMW is made up of two silver reactors, approximately 5,175 m^3.

Rockwell Canoga Park (RKW_CANOGA): All the wastes are generated during D&D of old facilities and radioactively contaminated soils removed from adjacent areas undergoing environmental remediation. Except for soils packaged in separate containers as other waste forms resulting from D&D activities are included in the same containers. The small amounts of mixed waste generated by Rocketdyne/Energy Technology Engineering Center are segregated into separate containers to the extent possible.

Solid Waste Radioactive Mixed Waste Storage Facility (WHC_EA_W112): Upon construction of this facility and during the installation of the second water source for fire protection, a line exiting the PFP will be intersected. It is a possibility that this line will have contaminated the surrounding soil. If this is the case, approximately 50 cubic yards (41.8 m^2) of soil will have to be disposed of when the pipe from PFP is crossed by the water source pipe.

Solid Waste Retrieval Phase 1 (WHC_EA_W113): The retrieval operations cannot predict structural integrity of the drums should they be failed, seepage and leaching processes will contaminate the surrounding soil on the trench sides; approximately 2 ft deep x 4 ft wide x 100 ft (0.6 m x 1.2 m x 30.5 m) long areas on both sides of the trench will be affected. This yields about 60 cubic yards (50.2 m^2) of contaminated soil, which results in 221 55-gallon (0.81 m^3) drums of TRU waste. Rags, oil, fuel, and hydraulic fluid are generated during the operations of heavy machinery during excavation. The possibilities for generation of contaminants include spills, accidents, equipment failure, and routine maintenance. Paint, thinner, and solvents associated with painting structures are generated by spills, accidents, excess materials and routine maintenance of painting supplies. Contaminated soil and rags will arrive in separate containers. Paint, thinner, and solvents associated with painting will arrived mixed as they are compatible.

Solid Waste Retrieval Phase 2 (WHC_EA_W221): This generator generates wastes due to excavation in the burial trenches to provide weather enclosure at the Hanford Site. The soil is not expected to contain incompatible wastes therefore no segregation will occur. Paint, thinner, and solvents associated with painting structures are generated by spills, accidents, excess materials and routine maintenance of painting supplies. Contaminated soil and rags will arrive in separate containers. Paint, thinner, and solvents associated with painting will arrived mixed as they are compatible.

Surplus Facilities (WHC_SURPLS_FAC): Surplus Facilities includes surplus listed facilities and projects. The current forecast does not address reduced funding, waste minimization, recycling, or reduction technologies that could reduce forecasted volumes by 30%.

T-Plant Building (WHC_221T): T-Plant, a canyon building, is used to decontaminate equipment from other facilities and sort and package other's waste. Contaminated equipment includes pumps, tanks, jumpers, and silver reactors. Wastes from this facility will be generated from decontamination of equipment and facilities, sorting and repackaging of for other generators, and routine plant operation and maintenance activities. Waste from the canyon floor from other generators is not in this forecast because T-Plant does not have adequate characterization to classify and package the waste. Once characterization is complete, it is expected that forecasted waste volumes will increase. The RH-TRU/TRUM volumes forecasted are sludges from the tank waste handling system in T-Plant. These sludges are currently settled out in the tanks in the facility and will be removed when an upgraded secondary containment system is installed in the facility. It is assumed by this waste generator that D&D will begin in FY 1994 and continue through the forecasted period; and the shipping schedule may be subject to change if the D&D schedule is altered.

W320 Tank 241-C Sluicing (WHC TWP 106C): The sluicing operations for Tank 241-C will generate contaminated soil during the excavation from within Tank Farm 241-C for construction of waste retrieval systems. Also, the installation of a new tank riser will require the remove of a concrete plug requiring disposition. The actual sluicing activities will generated waste that includes: in-tank equipment, pumps, sluicers, instrument trees, unused existing pump, heel jet, jumpers, and debris; construction materials generated during construction activities; and removal and disposal of post sluicing items installed in during construction. All soil and metal debris will be segregated and shipped in separate containers. Mixed waste will consist of pumps, jumpers, and shield plugs. Pumps will be packaged one to a container. Miscellaneous jumpers and shield plugs will be packaged together.

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Figure C.2-1. Transuranic Waste Inventory. (Page 1 of 2)

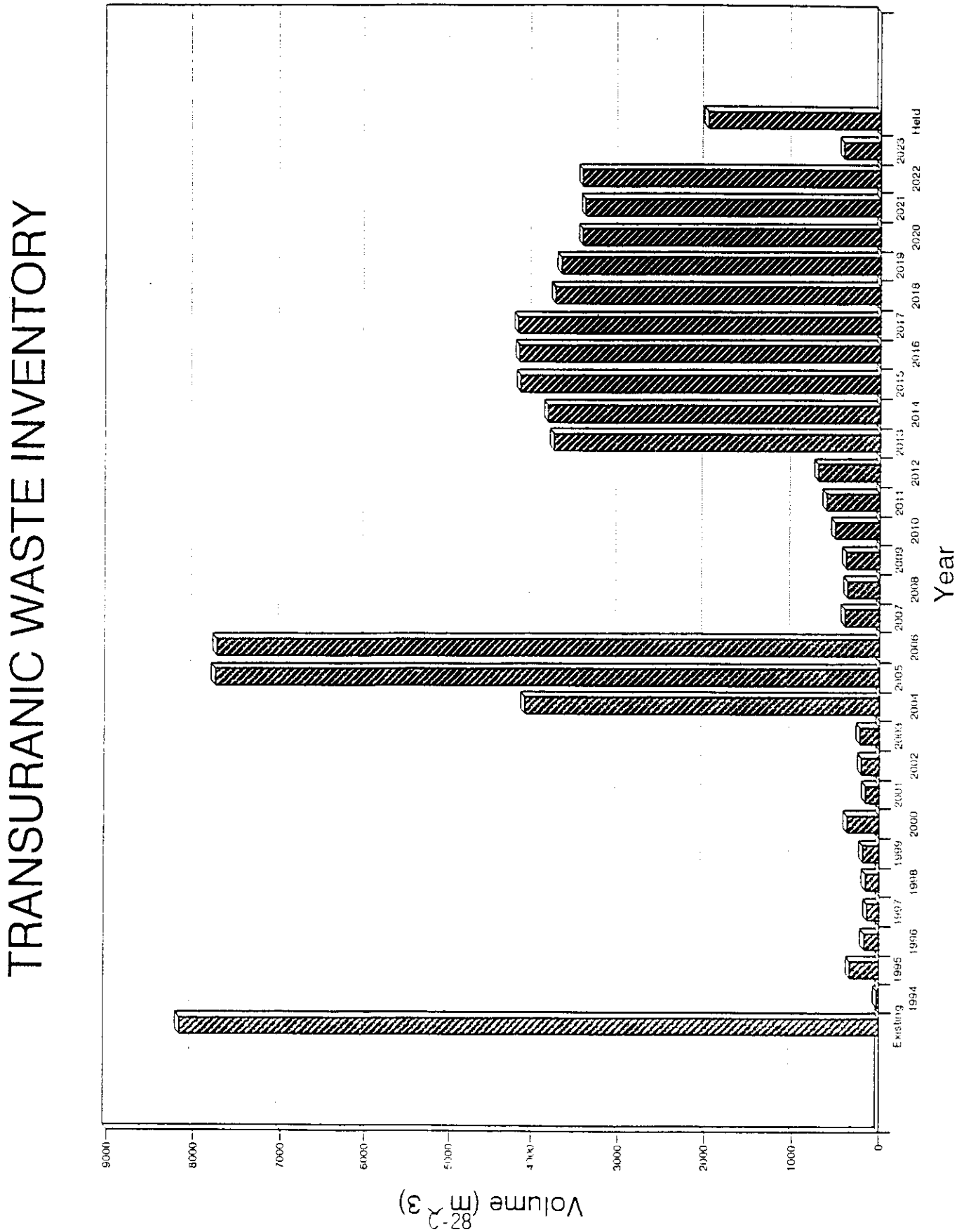
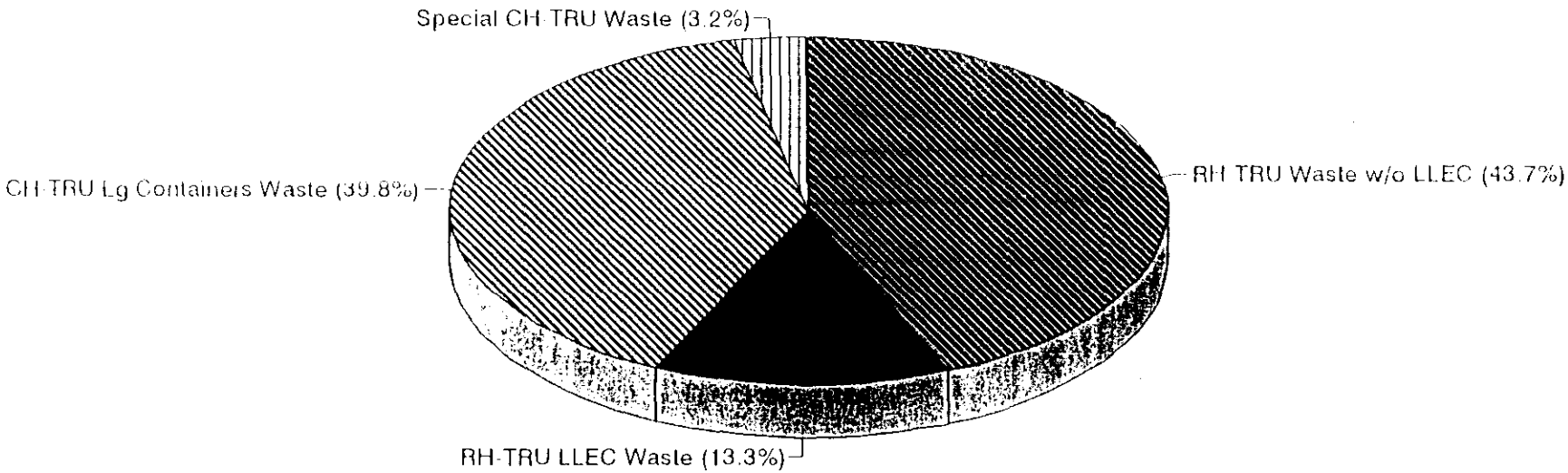


Figure C.2-1. Transuranic Waste Inventory. (Continued Page 2 of 2)

TRANSURANIC WASTE INVENTORY



The total volume of the transuranic waste inventory is approximately 73,000 cubic meters.

Figure C.2-2. RH-TRU LLEC Waste Inventory.

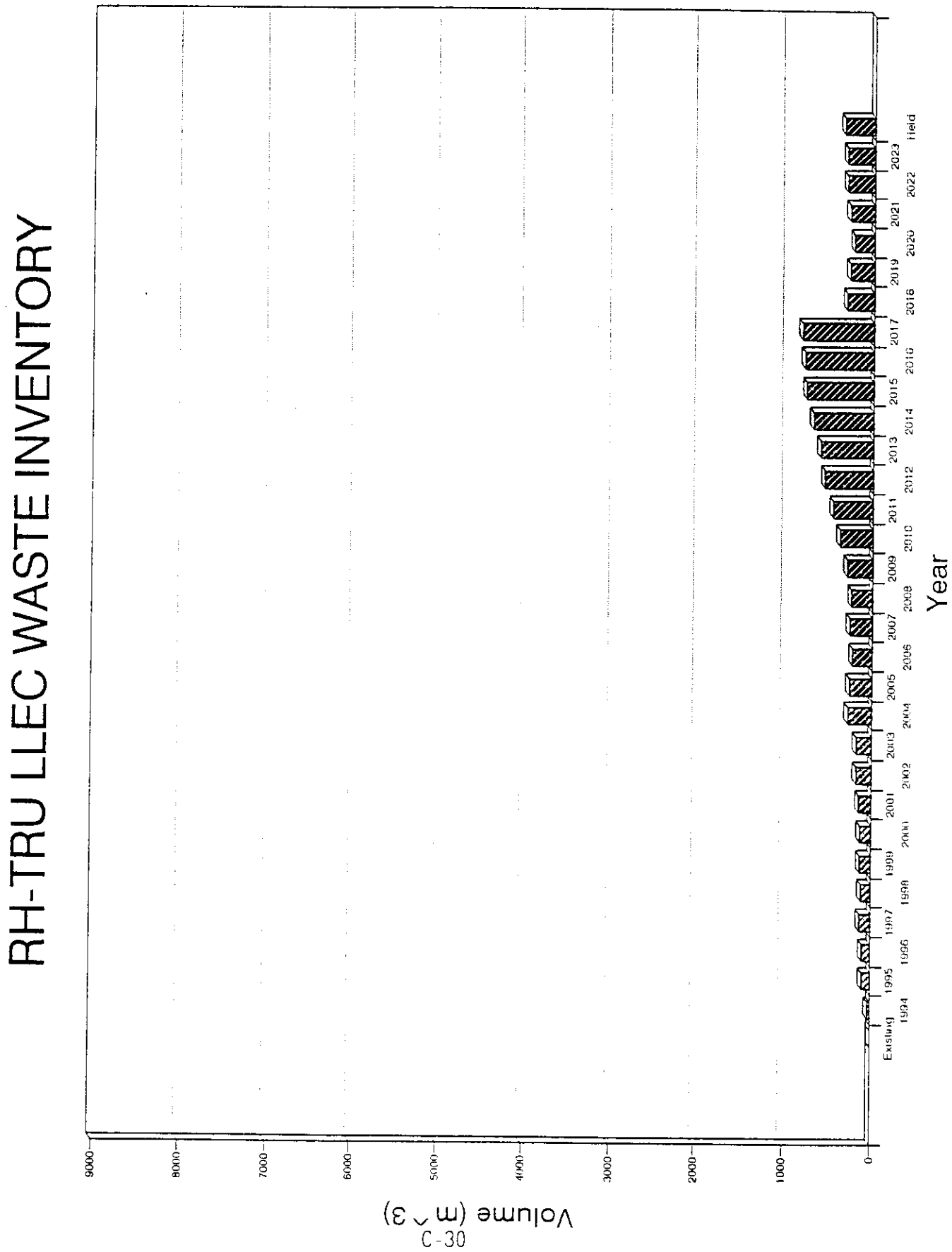


Figure C.2-3. RH-TRU Waste Inventory Without LLEC.

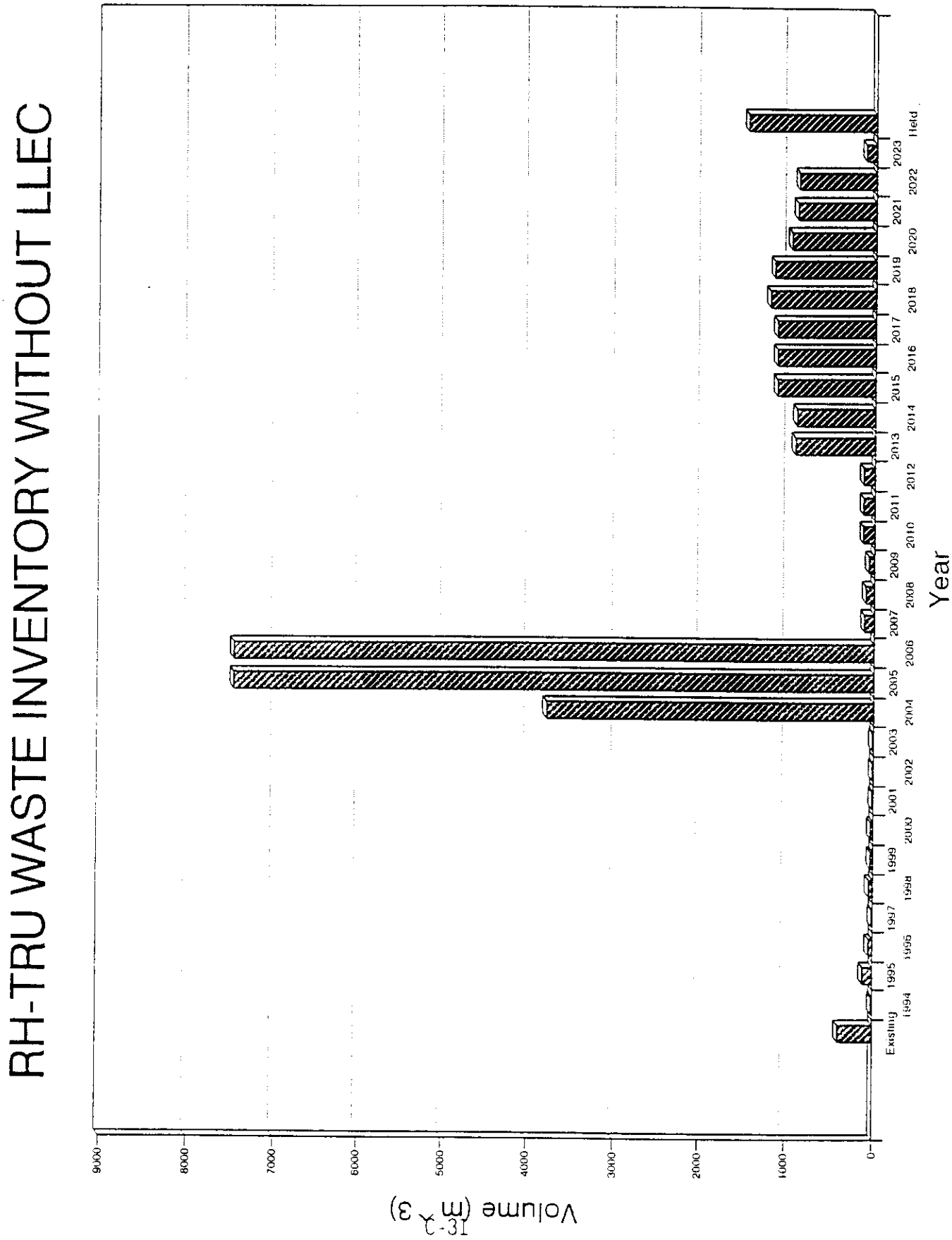


Figure C.2-4. Special CH-TRU Waste Inventory.

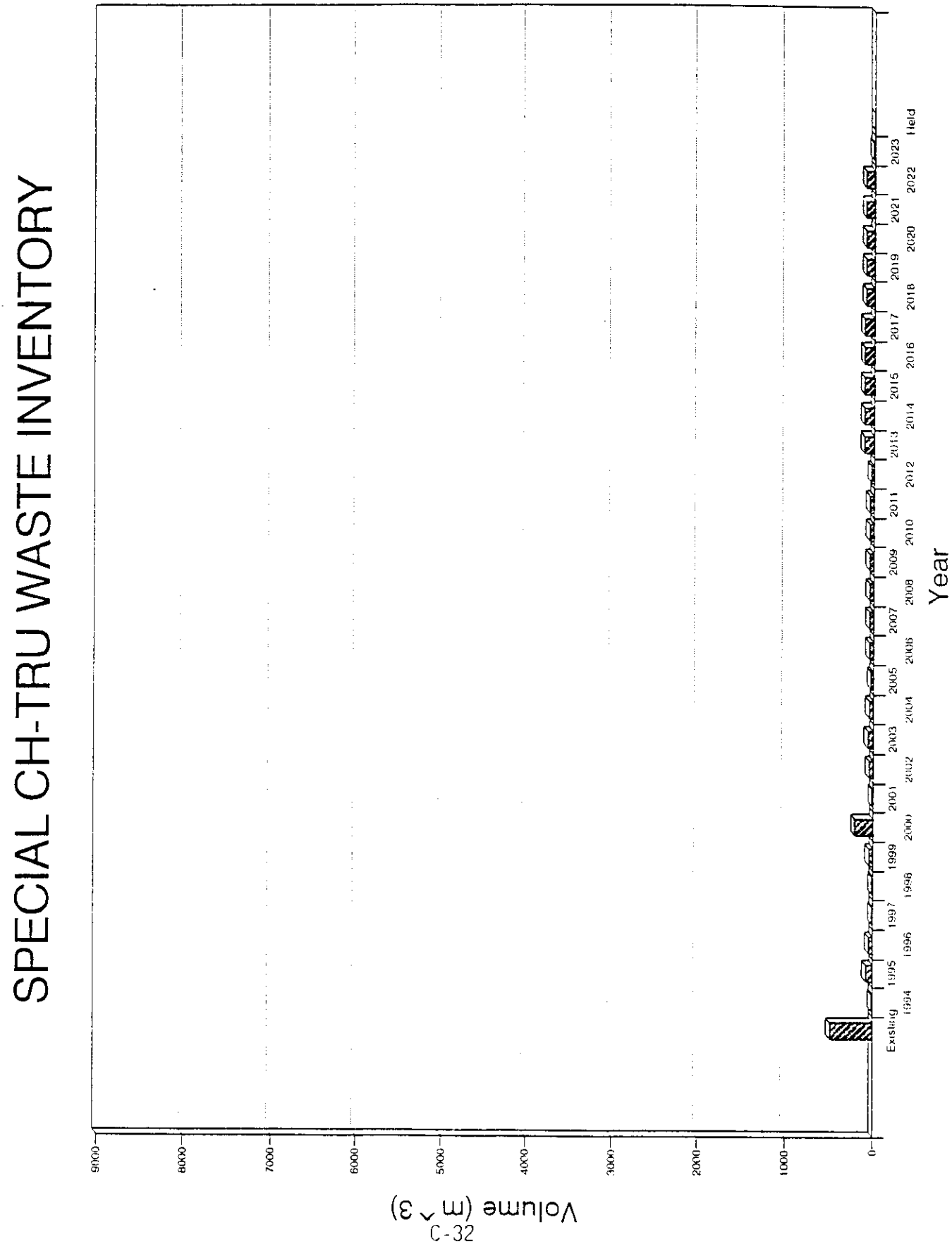


Figure C.2-5. CH-TRU Large Container Waste Inventory.

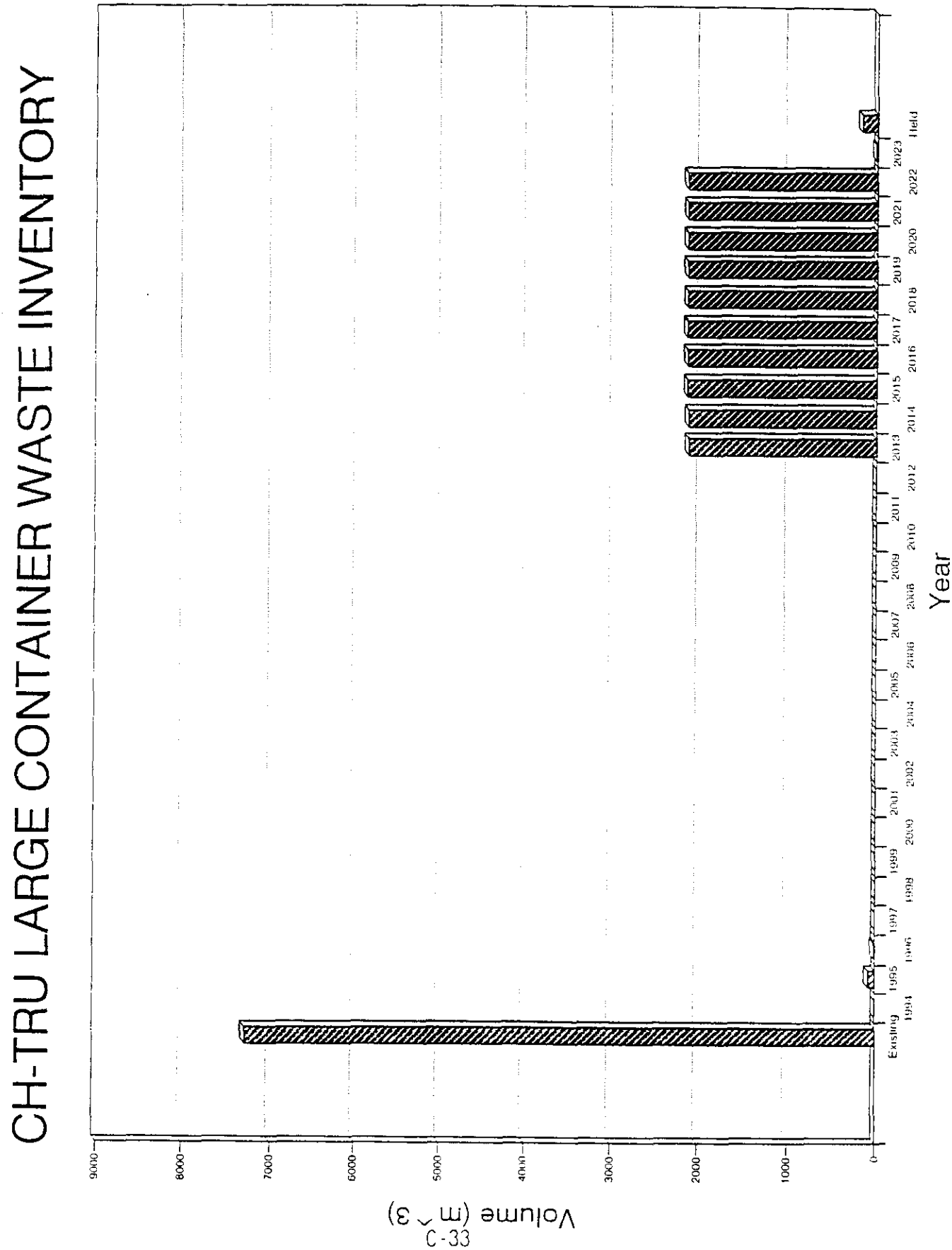


Figure C.2-6. Typical Caisson for TRU Storage.

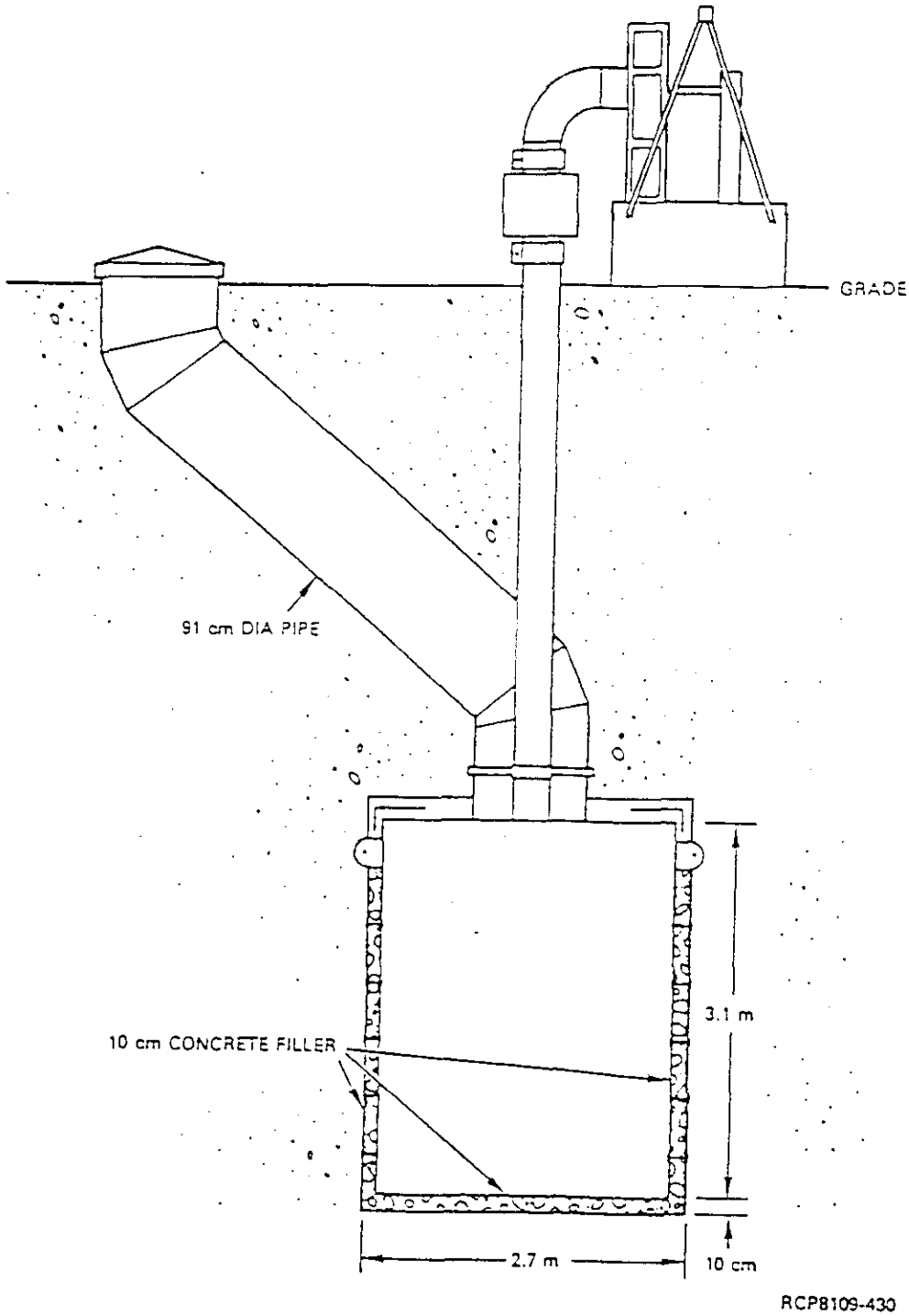


Figure C.2-7. TRU Asphalt Pad Storage.

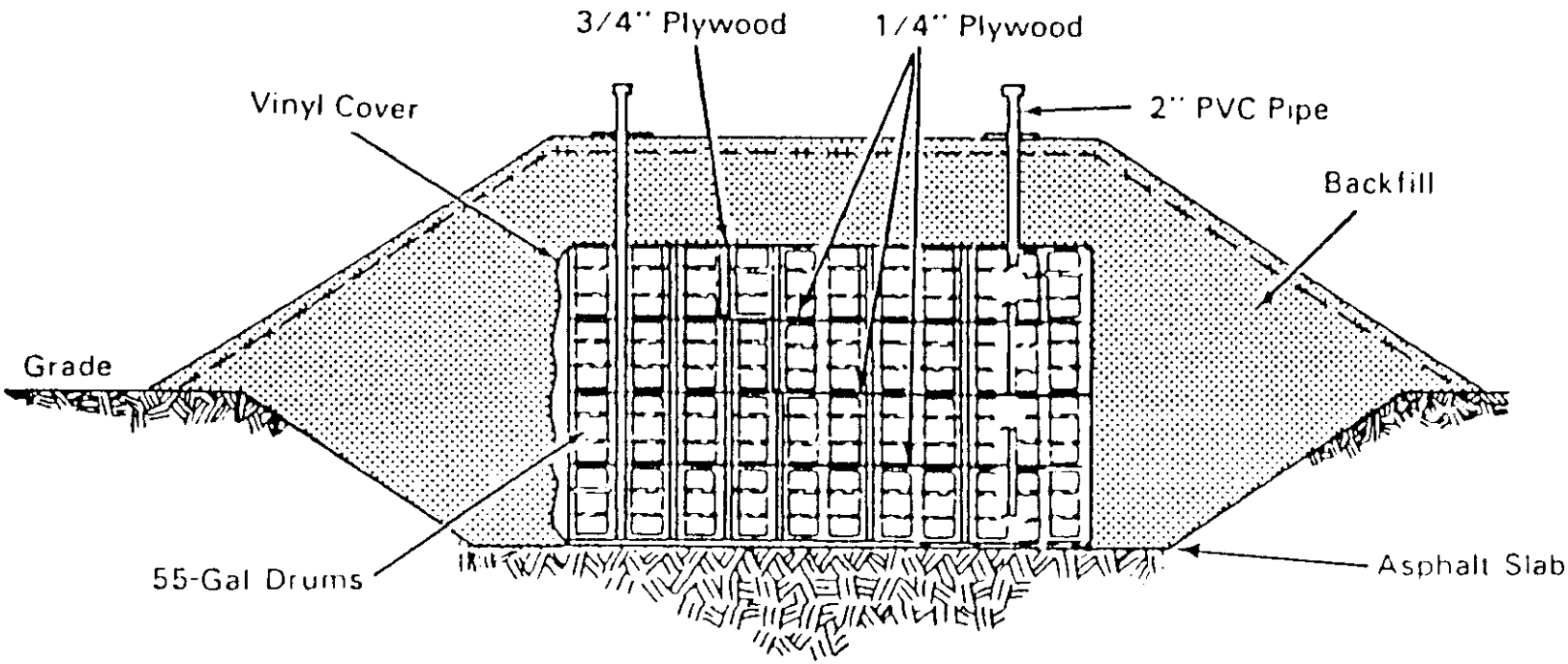


Figure C.3-1. Low-Level Mixed Waste Inventory. (Page 1 of 2)

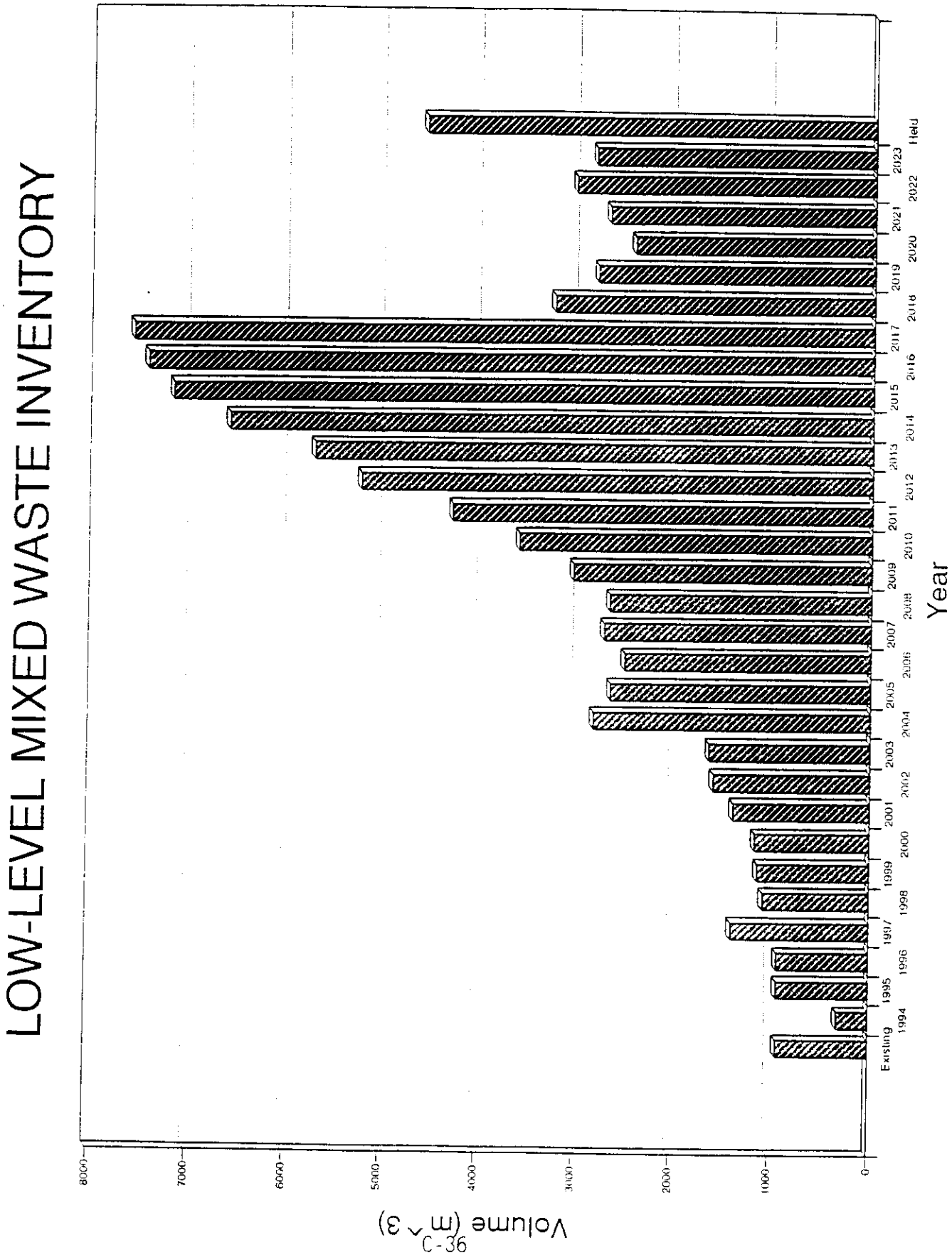


Figure C.3-1. Low-Level Mixed Waste Inventory. (Continued Page 2 of 2)

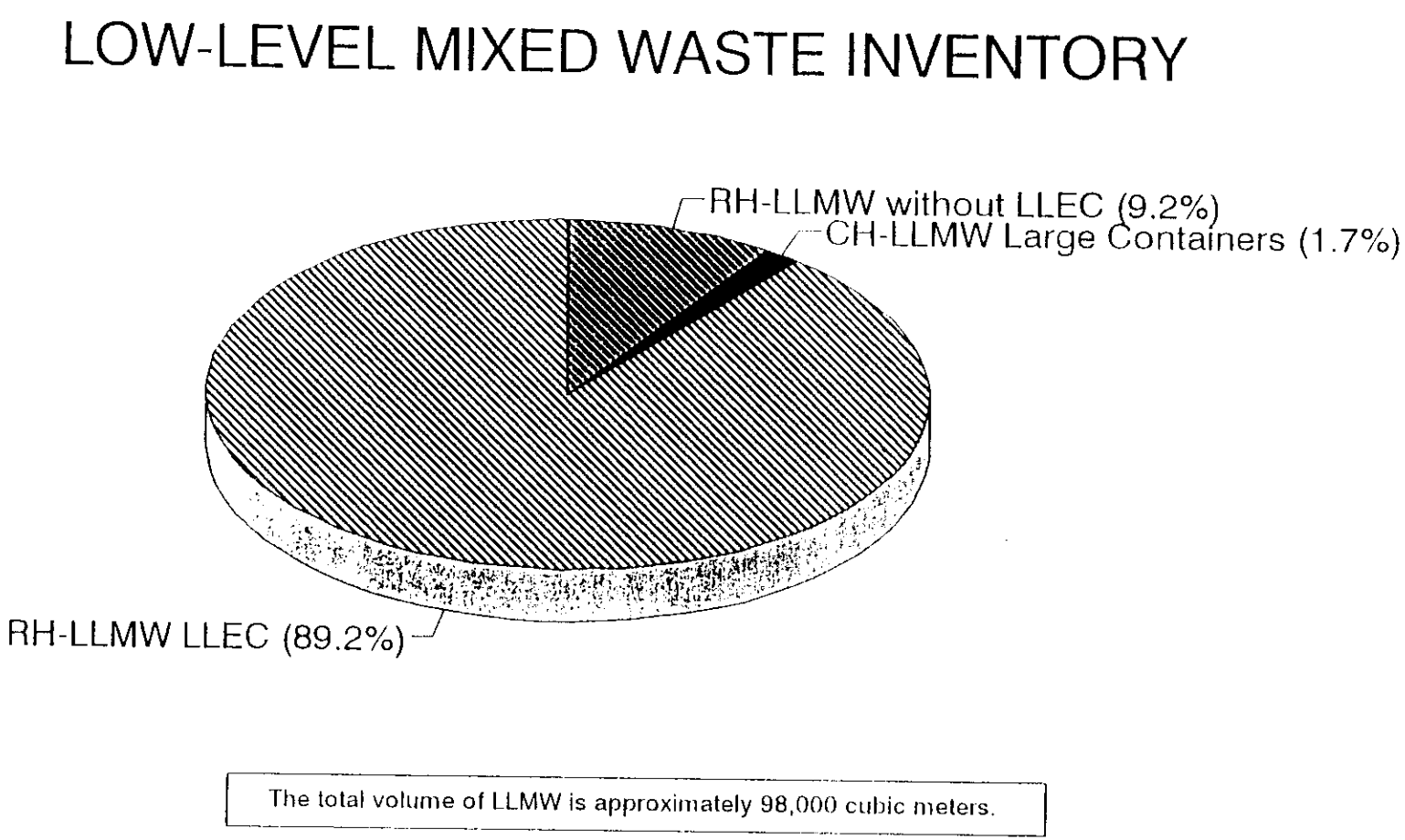


Figure C.3-2. CH-LLMW Large Containers Inventory.

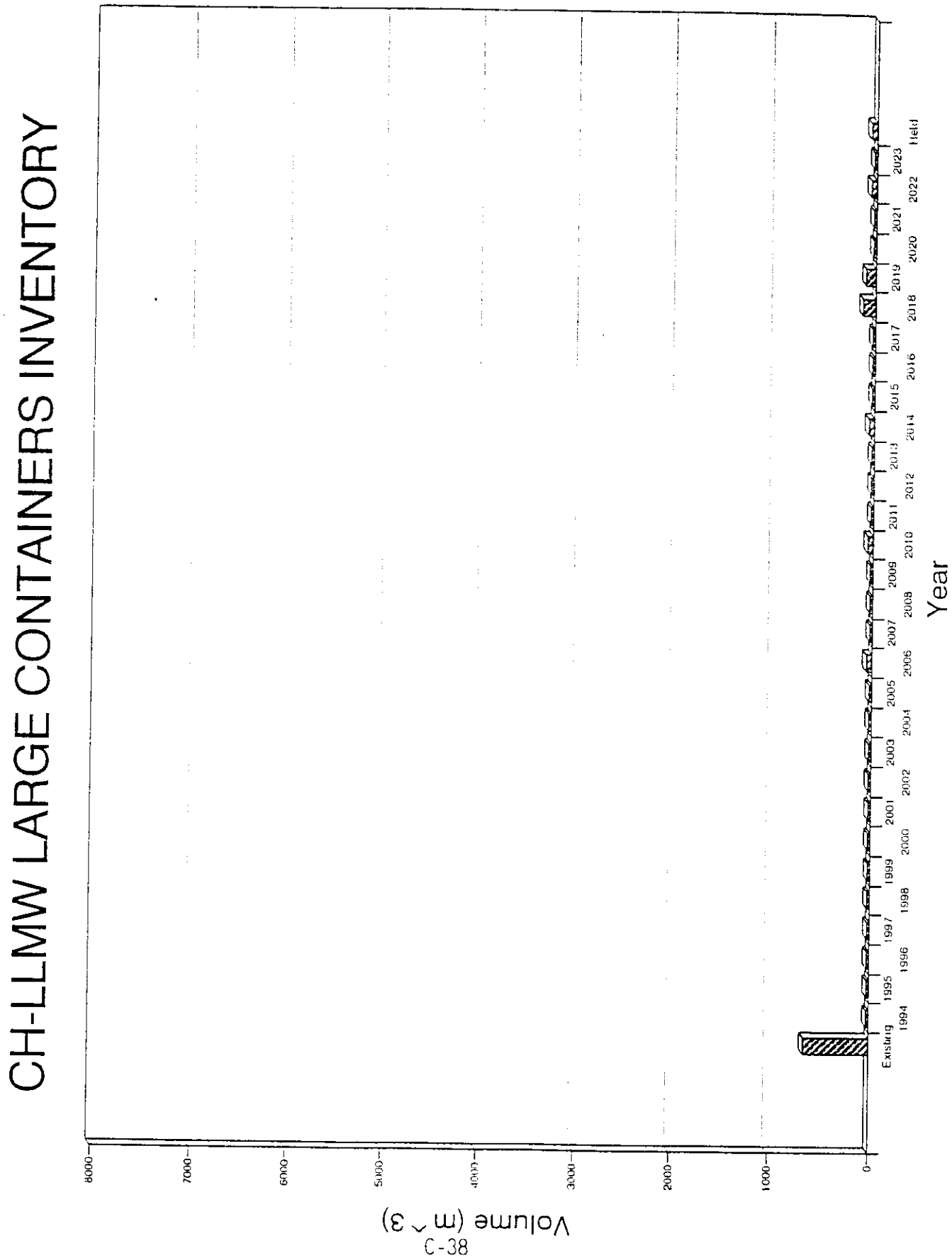


Figure C.3-3. RH-LLMW LLEC Inventory. (Page 1 of 2)

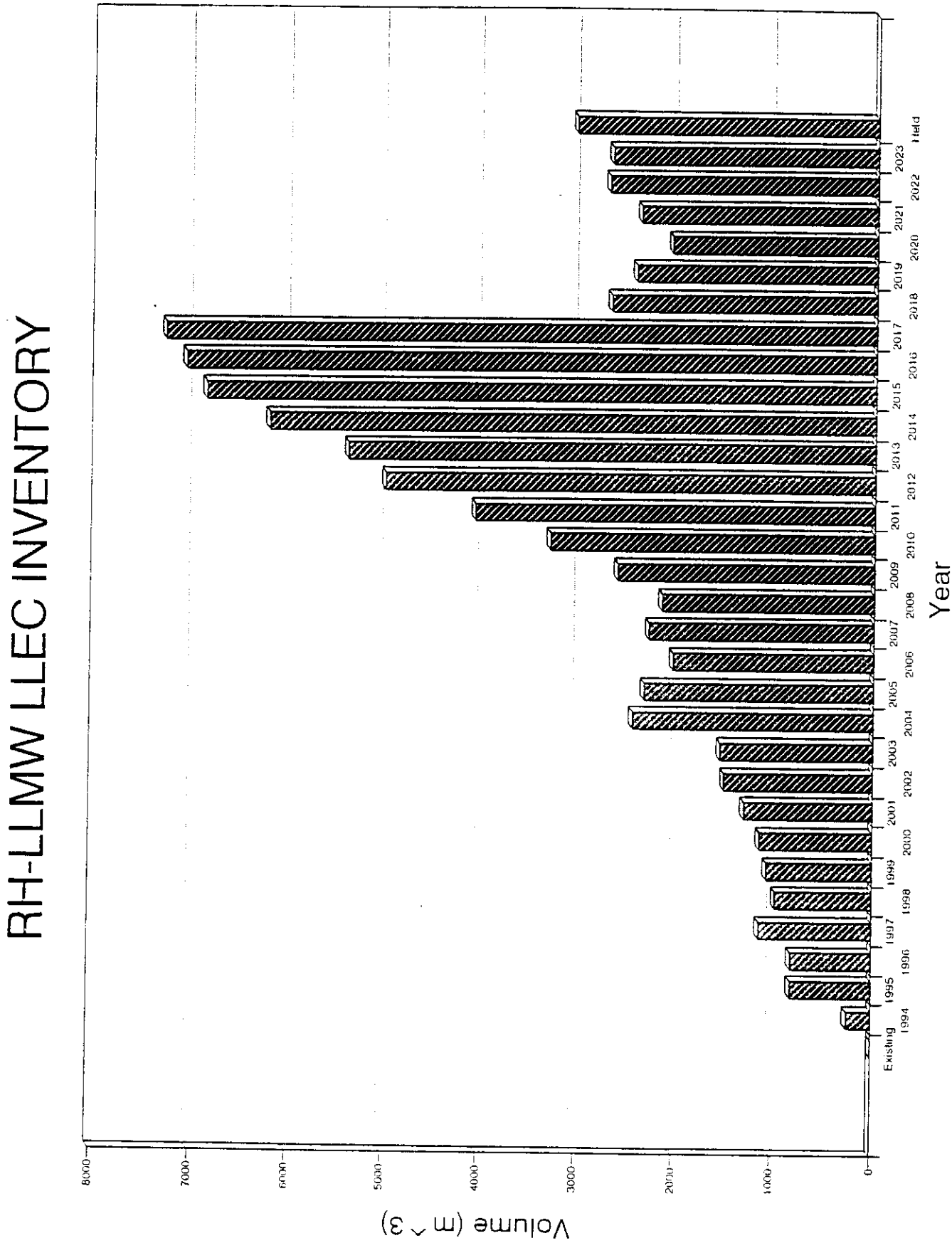


Figure C.3-4. RH-LLMW Inventory Without LLEC.

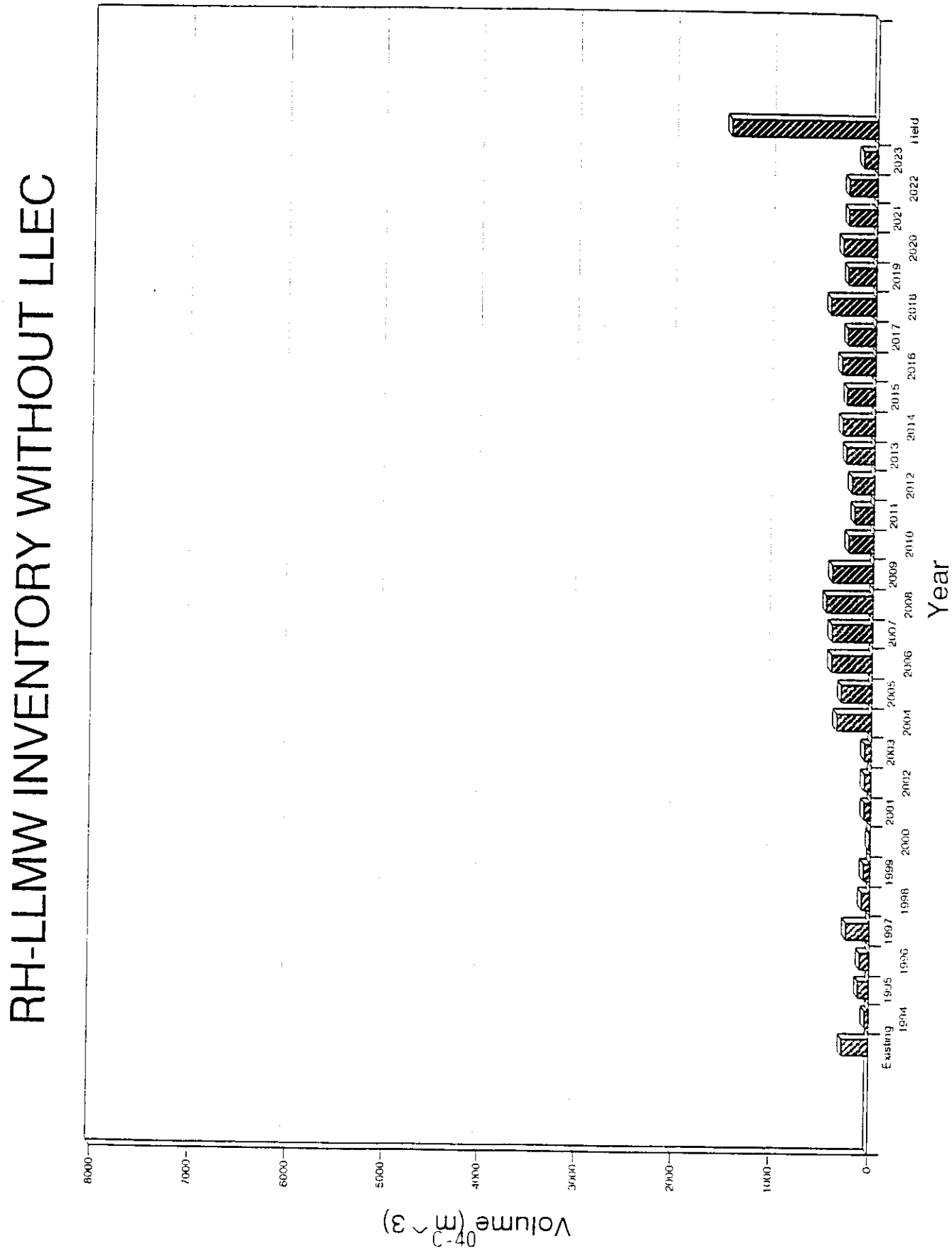


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Table C.1-1. Vitrification Facility Annual Production of HLW Canisters. (Page 1 of 2)

HWVP Operation	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Volume of Glass (m3)	451	451	451	451	451	451	451	451	451	451	451	451	451
Spec. Gravity	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66
Total Mass (MT)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
# of Canisters (@ 1.28m3)	358	358	358	358	358	358	358	358	358	358	358	358	358
Canister Vol.(m3)(@ 1.28 M3)	605	605	505	505	505	505	505	505	505	505	605	605	605
Physical Constituents (MT)													
Al	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01
Fe	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01
Cr	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00
Na	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02
Si	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02
P	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01
Ag2O	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02
Al2O3	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01
As2O5	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03
B2O3	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02
BaO	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02
BeO	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01
Bi2O3	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03
CaO	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01
CdO	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01
Ce2O3	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01
Cl-	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01
Cm2O3	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01
Co2O3	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06
Cr2O3	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02
Cs2O	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00
CuO	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02
F-	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02
Fe2O3	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00
K2O	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01
La2O3	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00
Li2O	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00
MgO	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01
MnO2	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01
MoO3	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01
Na2O	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01
Nb2O5	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02
Ni2O3	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05	5.06E-05
NiO	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01
NpO2	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01
P2O5	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03
PbO2	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01
PuO2	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00
RbO2	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02
Re2O7	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04
Rh2O3	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03
Ru2O3	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02
Sb2O5	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02
SeO3	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01
SiO2	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01
Sm2O3	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02
SnO2	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
SO3	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04
SrO	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01	9.69E-01
Tc2O7	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00
TeO3	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02
ThO2	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02
TiO2	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01
Ti2O3	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02
UO3	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01
V2O5	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01
WO2	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03
WO3	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01
ZnO	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04
ZrO2	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02
Radiological Characteristics (MCi)													
Cs & Ba	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01
Sr & Y	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01
Tc	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02
TRU	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05
Total MCi	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05
	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01

Reference Notes:

1) Based on TPA Milestone M-51/WHC-SD-WM-TI-613 (Stream #344).

2) Radionuclide values decayed to December 1990

Table C.1-1. Vitrification Facility Annual Production of HLW Canisters. (Continued Page 2 of 2)

HWVP Operation	2023	2024	2025	2026	2027	2028	TOTAL
Volume of Glass (m3)	451	451	451	451	451	451	8.58E+03
Spec. Gravity	2.66	2.66	2.66	2.66	2.66	2.66	2.66
Total Mass (MT)	1200	1200	1200	1200	1200	1200	2.28E+04
# of Canisters (@ 1.26m3)	358	358	358	358	358	358	6.80E+03
Canister Vol.(m3)(@ 1.26 M3)	505	505	505	505	505	505	1.15E+04
Physical Constituents (MT)							
Al	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	3.81E+01	7.23E+02
Fe	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	4.26E+01	8.09E+02
Cr	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	3.26E+01
Na	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.05E+02	1.99E+03
Si	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	2.58E+02	4.90E+03
P	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	2.17E+02
Ag2O	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	2.31E-02	4.39E-01
Al2O3	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	7.21E+01	1.37E+03
Am2O3	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	4.45E-02
As2O5	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	1.00E+00
B2O3	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	2.21E+03
BaO	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	2.28E+00
BeO	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	2.55E-02
Bi2O3	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01	2.20E+02
CaO	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	1.14E+01	2.17E+02
CdO	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	5.03E-01	9.55E+00
Ce2O3	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	1.44E+01	2.74E+02
Cl-	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	1.78E-01	3.39E+00
Cm2O3	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	1.34E-06	2.55E-05
Co2O3	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	5.63E-02	1.07E+00
Cr2O3	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00	4.76E+01
Cs2O	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	6.74E-02	1.28E+00
CuO	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	5.02E-02	9.54E-01
F-	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00	5.83E+01
Fe2O3	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	6.11E+01	1.16E+03
K2O	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	1.23E+00	2.34E+01
La2O3	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00	4.51E+01
Li2O	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	3.22E+01	6.12E+02
MgO	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	4.57E-01	8.68E+00
MnO2	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.92E+02
MoO3	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	4.07E-01	7.73E+00
Na2O	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	2.68E+03
Nb2O5	5.06E-08	5.06E-08	5.06E-08	5.06E-08	5.06E-08	5.06E-08	9.62E-07
Ni2O3	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	7.42E-01	1.41E+01
NiO	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	2.26E+02
NpO2	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	4.75E-03	9.02E-02
P2O5	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	2.61E+01	4.96E+02
PbO2	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	3.38E+01
PuO2	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	3.09E-02	5.88E-01
RbO2	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	1.96E-04	3.73E-03
Re2O7	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	2.63E-03	5.00E-02
Rh2O3	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	2.78E-02	5.29E-01
Ru2O3	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	3.43E-02	6.51E-01
Sb2O5	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	1.27E-01	2.41E+00
SeO3	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	1.55E-01	2.94E+00
SiO2	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	5.53E+02	1.05E+04
Sm2O3	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03	3.70E-02
SnO2	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	9.74E-04	1.85E-02
SO3	9.89E-01	9.89E-01	9.89E-01	9.89E-01	9.89E-01	9.89E-01	1.88E+01
SrO	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	4.34E+01
Tc2O7	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	2.35E-02	4.46E-01
TeO3	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	3.38E-01
ThO2	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	8.11E-01	1.54E+01
TiO2	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02	7.32E-01
Ti2O3	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	3.06E-01	5.81E+00
UO3	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	8.11E+01	1.54E+03
V2O5	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	3.62E-03	6.88E-02
WO2	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	1.70E+01
WO3	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	4.01E-04	7.61E-03
ZnO	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	9.63E-02	1.83E+00
ZrO2	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	3.92E+01	7.45E+02
Radiological Characteristics (MCi)							
Cs & Ba	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	3.59E-01	6.82E+00
Sr & Y	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	1.34E-02	2.55E-01
Tc	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	3.33E-04
TRU	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	3.28E-04
Total MCi	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	3.72E-01	7.07E+00

Table C.1-2. High-Level Waste Radionuclide Inventory.

Radionuclides	Activity (Ci/Year)
Co-60	9.87E+04
Ni-63	2.92E+05
Se-79	8.10E+02
Sr-90	5.77E+07
Y-90*	5.77E+07
Zr-93	4.30E+03
Tc-99	3.78E+03
Ru-106	1.90E+04
Rh-106*	1.90E+04
Sb-125	6.90E+04
Cs-135	7.30E+01
Cs-137	3.83E+07
Ba-137m*	3.66E+07
Pm-147	1.10E+06
Sm-151	8.82E+05
Eu-154	5.30E+04
Eu-155	4.30E+04
U-235	2.01E+01
U-238	4.61E+02
Np-237	6.20E+01
Pu-238	1.46E+03
Pu-239	2.19E+04
Pu-240	5.63E-03
Pu-241	4.21E+04
Am-241	7.78E-04
Cm-244	1.60E+03

* Equilibrium decay daughters of the isotope listed immediately above.

Reference Notes.

1. Values are form the 1) draft input to 1994 Integrated Data Base Input; and 2) letter, R. C. Roal to S. T. Burnum, "Preliminary High-Level Waste Composition Estimates," 9454266, dated June 17, 1994. These data represent interim calculations for combined double-shell and single-shell tank waste which are subject to change.

2. Radionuclides decay to January 1, 1996.

3. Selected radionuclides are listed. Omission of radionuclides should not be inferred to indicate a radionuclide will not be present in glass, but rather the radionuclide was omitted from flowsheet calculations.

Table C.2-1. Data Sheets on the 618-11 Burial Ground.

Name/Type of Facility	Past Designation	Number
Burial Ground	300 WYE Burial Ground, "Y" Burial Ground	318-11

Location	Service Dates	Status
About 1 1/2 miles (2.4 kilometer) northeast of the Richland-Hanford Highway (Route 4 south) from a point 7 1/3 miles (11.8 kilometer) northwest of 300 Area.	3/62-12/67	Retired

Source and Description of Waste

The site is a repository for a broad spectrum of low-to-high-level dry radioactive wastes, primarily fission products and plutonium. Cartoned low-level wastes were buried in the trenches and medium-to-high-level beta-gamma wastes in the pipe facilities and caissons. Quantities probably amount to thousands of curies of beta-gamma wastes and 10's to 100's of grams of plutonium.

Description of Facility

The site consists of a 375 x 1,000 foot (114 m x 305 m) rectangle oriented east-west. Total area is 8.6 acres (34,803 m^2).

Burial facilities include three backfilled trenches 900 x 50 foot (270 m x 15 m) occupying all of the site except a 100 x 1,000 foot (30 m x 305 m) strip on the north side. In the eastern half of this northern portion are located 50 vertical pipe storage units made by welding five 55-gallon (0.81 m^3) drum sections together. Just west of the pipe installations are four caisson storage facilities consisting of 8 feet diameter x 10 feet (2.4 m x 3 m) high 8-gauge corrugated metal pipe, buried 15 feet (4.5 m) below grade and connected to the surface by offset 36 inches (91 cm) pipe. All pipe and caisson disposal facilities have been backfilled, capped off with concrete and covered with dirt. The burial ground perimeter is marked with Identification Markers 2-68-1 through 2-68-28.

Radionuclide Content

Total Beta, Gamma, <2,000 g
Pu <100 g

Table C.2-2. Summary of Forecast Remote-Handled Transuranic and Transuranic Mixed Waste. (Page 1 of 2)

Summary of Forecast Remote-Handled Transuranic and Transuranic Mixed Waste

Waste Generator	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
RH TRU																
ANL_E	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
BAT CLBS LAB	0.0	0.0	0.0	0.0	0.0	25.2	23.1	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PNL	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TPNL_327	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_100N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_202A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_202A_TW	696.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_2345Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_100K	0.0	0.0	101.7	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_HWVP	385.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PUREX TUNNEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	1,082.5	1.7	103.4	38.5	1.7	26.9	24.8	24.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
RH TRUM																
LL_EQUIP	339.3	27.1	90.5	90.5	126.7	108.6	117.6	126.7	114.8	167.4	171.9	271.4	257.8	226.2	253.3	219.7
TPNL_327	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_202A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_2345Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_340	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_221T	0.0	0.0	0.0	0.0	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_DST_PRT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,682.7	7,365.4	7,365.4	0.0	0.0
WHC_HWVP	387.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	113.3	113.3	113.3	85.0
Subtotal	726.7	27.1	90.5	90.5	133.8	115.7	124.7	133.8	114.8	167.4	171.9	4,067.4	7,736.5	7,704.9	366.6	324.7
Total	1,809.2	28.8	193.9	129.0	135.5	142.6	149.5	158.6	116.5	169.1	173.6	4,069.1	7,738.2	7,706.6	368.3	326.4

Table C.2-2. Summary of Forecast Remote-Handled Transuranic and Transuranic Mixed Waste. (Page 2 of 2)

Summary of Forecast Remote-Handled Transuranic and Transuranic Mixed Waste (Continued)

Waste Generator	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
RH TRU																
ANL_E	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	51.0
BAT_CLBS_LAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4
PNL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
TPNL_327	0.0	0.0	0.0	0.0	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	0.0	1,014.6
TWHC_100N	0.0	0.0	0.0	0.0	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	0.0	1,185.6
TWHC_202A	0.0	0.0	0.0	0.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	0.0	119.0
TWHC_202A_TW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	696.7
TWHC_221T	0.0	0.0	0.0	0.0	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0.0	212.4
TWHC_2345Z	0.0	0.0	0.0	0.0	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	0.0	2,165.8
WHC_100K	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.7
WHC_HWVP	0.0	46.9	49.5	49.3	47.1	49.3	169.2	171.8	169.2	46.9	49.3	46.9	49.3	46.9	49.3	1,425.9
WHC_SURPLS_FAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
PUREX TUNNEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.0	273.0	68.0	0.0	0.0	0.0	654.0
Subtotal	1.7	48.6	51.2	51.0	518.6	520.8	640.7	643.3	640.7	831.4	793.8	586.4	520.8	518.4	51.0	7,735.9
RH TRUM																
LL_EQUIP	289.5	366.4	452.4	556.4	601.6	692.1	761.5	787.1	809.7	298.6	271.4	230.7	266.9	303.1	298.6	9,748.1
TPNL_327	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	8.0
TWHC_202A	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	31.9
TWHC_221T	0.0	0.0	0.0	0.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	0.0	680.0
TWHC_2345Z	0.0	0.0	0.0	0.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	251.0	0.0	2,510.4
TWHC_340	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	22.7
WHC_221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
WHC_DST_PRT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,413.5
WHC_HWVP	0.0	49.5	46.9	49.5	49.3	47.1	169.4	169.2	169.4	49.3	46.9	49.3	49.3	46.9	49.3	1,428.7
WHC_SURPLS_FAC	56.7	28.3	28.3	28.3	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	708.1
Subtotal	346.2	444.2	527.6	634.2	1,004.5	1,064.5	1,259.2	1,281.6	1,304.4	673.4	643.6	605.3	641.5	675.3	347.9	33,579.6
Total	347.9	492.8	578.8	685.2	1,523.1	1,585.3	1,899.8	1,924.8	1,945.1	1,504.5	1,437.4	1,191.7	1,162.2	1,193.6	398.9	41,315.7

Table C.2-3. Forecast Remote-Handled Transuranic Waste. (Page 1 of 4)

Forecast Remote-Handled Transuranic Waste

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
ANL_E	30 GAL DRUM	Total Volume	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
		Physical: D HET COMB	NA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		D HET NON COMB	NA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		D IN OTH MTL	NA	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		Radiological: FP BETA GAMMA	NA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
		PU-238/PU-239	NA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
BAT CLBS LAB	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	25.2	23.1	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D HET COMB	NA	0.0	0.0	0.0	0.0	7.6	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D HET FILTERS	NA	0.0	0.0	0.0	0.0	5.0	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D HET NON COMB	NA	0.0	0.0	0.0	0.0	7.6	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D IN OTH MTL	NA	0.0	0.0	0.0	0.0	5.0	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA GAMMA	NA	0.0	0.0	0.0	0.0	25.2	23.1	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PNL	OTHER DRUMS	Total Volume	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_327	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX 500-1000	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	OTHER DRUMS	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP EL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_100N	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A_TW	BOX OTHER	Total Volume	696.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: ORG PART	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_2345Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.2-3. Forecast Remote-Handled Transuranic Waste. (Continued Page 2 of 4)

Forecast Remote-Handled Transuranic Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HEAD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
		Physical: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SPEL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_100K	10 FT3 ION EX	Total Volume	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical D IN OTH MTL	NA	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		ORG PART	NA	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological FP BETA GAMMA	NA	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU 238/PU 239	NA	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BOX OTHER	Total Volume	0.0	0.0	90.7	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-HET FILTERS	NA	0.0	81.6	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D IN OTH MTL	NA	0.0	9.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA GAMMA	NA	0.0	90.7	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU 238/PU 239	NA	0.0	90.7	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	90.7	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	0.0	90.7	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_HWVP	55 GAL DRUM	Total Volume	107.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	13.8	13.6
		Physical: D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.6	4.5
		D IN OTH	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.2	9.0
		Radiological: FP BETA GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	13.8	13.6
		PU-238/PU 239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	13.8	13.6
		URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	13.8	13.6
		VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	13.8	13.6
	SWB	Total Volume	277.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	35.7	35.7
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	35.7	35.7
		Radiological: FP BETA GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	35.7	35.7
		PU 238/PU 239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	35.7	35.7
		URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	35.7	35.7
		VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	35.7	35.7
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-HET FILTERS	NA	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D IN OTH	NA	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PUREX TUNNEL	OTHER	Total Volume	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.2-3. Forecast Remote-Handled Transuranic Waste. (Continued Page 3 of 4)

Forecast Remote-Handled Transuranic Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
ANL_E	30 GAL DRUM	Total Volume	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	51.0
		Physical: D HET COMB	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	10.2
		D HET NON COMB	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	10.2
		D IN OTH MTL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	30.6
		Radiological: FP BETA GAMMA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	51.0
		PU-238/PU-239	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	51.0
BAT CEBS LAB	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4
		Physical: D HET COMB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4
		D HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3
		D HET NON COMB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4
		D IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3
		Radiological: FP BETA GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4
PNL	OTHER DRUMS	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL 327	4X4X8 BOX	Total Volume	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	10.7
		Physical: D HET FILTERS	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	10.7
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX 500-1000	Total Volume	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	0.0	726.2
		Physical: D IN OTH MTL	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	0.0	726.2
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	0.0	170.9
		Physical: OTHER	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	0.0	170.9
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	OTHER DRUMS	Total Volume	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	0.0	106.8
		Physical: SP EL LEAD	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	0.0	106.8
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_100N	BOX OTHER	Total Volume	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	0.0	1,185.8
		Physical: OTHER	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	0.0	1,185.8
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	55 GAL DRUM	Total Volume	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	0.0	94.0
		Physical: D IN CONS MTL	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	0.0	94.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0	25.0
		Physical: D IN OTH MTL	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0	25.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A_TW	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	696.7
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	55 GAL DRUM	Total Volume	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0.0	212.4
		Physical: ORG PART	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0.0	212.4
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_2345Z	4X4X8 BOX	Total Volume	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	0.0	313.9

Table C.2-3. Forecast Remote-Handled Transuranic Waste. (Continued Page 4 of 4)

Forecast Remote-Handled Transuranic Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
		Physical: OTHER	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	0.0	313.9
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	55 GAL DRUM	Total Volume	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	31.4
		Physical: SP EL LEAD	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	31.4
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	0.0	1,820.5
		Physical: D IN OTH MTL	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	0.0	1,820.5
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_100K	10 FT3 ION EX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
		Physical: D IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
		ORG PART	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
		Radiological: FP BETA GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
		PU 238/PU 239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
		URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
		VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.7
		Physical: D HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.2
		D IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5
		Radiological: FP BETA GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.7
		PU-238/PU 239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.7
		URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.7
		VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.7
WHC_HWVP	55 GAL DRUM	Total Volume	13.8	13.6	47.6	47.8	47.6	13.5	13.6	12.9	14.2	12.9	13.6	399.6
		Physical: D HET FILTERS	4.6	4.5	15.8	15.9	15.8	4.5	4.5	4.3	4.7	4.3	4.5	97.2
		D IN OTH	9.2	9.0	31.7	31.9	31.7	9.0	9.0	8.6	9.5	8.6	9.0	191.6
		Radiological: FP BETA GAMMA	13.8	13.6	47.6	47.8	47.6	13.5	13.6	12.9	14.2	12.9	13.6	291.8
		PU 238/PU 239	13.8	13.6	47.6	47.8	47.6	13.5	13.6	12.9	14.2	12.9	13.6	291.8
		URANIUM	13.8	13.6	47.6	47.8	47.6	13.5	13.6	12.9	14.2	12.9	13.6	291.8
		VOLATILE RAD	13.8	13.6	47.6	47.8	47.6	13.5	13.6	12.9	14.2	12.9	13.6	291.8
	SWB	Total Volume	33.3	35.7	121.6	124.0	121.6	33.4	35.7	34.0	35.1	34.0	35.7	1,026.3
		Physical: D-IN OTH MTL	33.3	35.7	121.6	124.0	121.6	33.4	35.7	34.0	35.1	34.0	35.7	749.1
		Radiological: FP BETA GAMMA	33.3	35.7	121.6	124.0	121.6	33.4	35.7	34.0	35.1	34.0	35.7	749.1
		PU-238/PU 239	33.3	35.7	121.6	124.0	121.6	33.4	35.7	34.0	35.1	34.0	35.7	749.1
		URANIUM	33.3	35.7	121.6	124.0	121.6	33.4	35.7	34.0	35.1	34.0	35.7	749.1
		VOLATILE RAD	33.3	35.7	121.6	124.0	121.6	33.4	35.7	34.0	35.1	34.0	35.7	749.1
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
		Physical: D-HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		D-IN OTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PUREX TUNNEL	OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	313.0	273.0	68.0	0.0	0.0	0.0	654.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Forecast Remote-Handled Transuranic Mixed Waste

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year BEFORE	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
LL_EQUIP	LEC	Total Volume	339.3	27.1	90.5	90.5	126.7	108.6	117.6	126.7	144.8	167.4	171.9	271.4	257.8	226.2	253.3	239.7	289.5
		Physical: D IN OTH MTL	NA	3.3	10.9	10.9	15.2	13.0	14.1	15.2	17.4	20.1	20.6	32.6	30.9	27.1	30.4	28.8	34.7
		IN ORG LQ/SLG	NA	0.3	0.9	0.9	1.3	1.1	1.2	1.3	1.4	1.7	1.7	2.7	2.6	2.3	2.5	2.4	2.9
		IN ORG PART	NA	9.8	32.6	32.6	45.6	39.1	42.3	45.6	52.1	60.3	61.9	97.7	92.8	81.4	91.2	86.3	104.2
		SH STAIN STEEL	NA	13.8	46.1	46.1	64.6	55.4	60.0	64.6	73.8	85.4	87.7	138.4	131.5	115.3	129.2	122.3	147.6
		Hazardous: ACUTELY HAZ	NA	9.2	30.8	30.8	43.1	36.9	40.0	43.1	49.2	56.9	58.4	92.3	87.7	76.9	86.1	81.5	98.4
		SPENT SOLV	NA	9.0	29.9	29.9	41.8	35.8	38.8	41.8	47.8	55.2	56.7	89.6	85.1	74.6	83.6	79.1	95.5
		TC MET	NA	9.0	29.9	29.9	41.8	35.8	38.8	41.8	47.8	55.2	56.7	89.6	85.1	74.6	83.6	79.1	95.5
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FPNL_327	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	OTHER DRUMS	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP EL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWHC_202A	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP EL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D ORG COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SP EL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SWB	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.2-4. Forecast Remote-Handled Transuranic Mixed Waste. (Continued Page 2 of 6)

Forecast Remote-Handled Transuranic Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
FWHC_2345Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWHC_340	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_221T	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D HET COMB	NA	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D HET FILTERS	NA	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D HET NON COMB	NA	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D ORG COMP	NA	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D ORG NON COMP	NA	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IN ORG LQ/SLG	NA	0.0	0.0	0.0	6.5	6.5	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: CORR	NA	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IGN	NA	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SPENT SOLV	NA	0.0	0.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC MET	NA	0.0	0.0	0.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC ORG	NA	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: PU 238/PU 239	NA	0.0	0.0	0.0	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	0.0	0.0	0.0	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_DST_PRT	CASKS	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,682.7	7,365.4	7,365.4	0.0	0.0	0.0
		Physical: IN ORG OTH	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	441.9	883.8	883.8	0.0	0.0	0.0
		SH CONCRETE	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,240.8	6,481.6	6,481.6	0.0	0.0	0.0
		Hazardous: ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,682.7	7,365.4	7,365.4	0.0	0.0	0.0
		Radiological: FP BETA GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,682.7	7,365.4	7,365.4	0.0	0.0	0.0
WHC_HWVP	55 GAL DRUM	Total Volume	108.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D IN OTH	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU 238/PU 239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SWB	Total Volume	278.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.2-4. Forecast Remote-Handled Transuranic Mixed Waste. (Continued Page 3 of 6)

Forecast Remote-Handled Transuranic Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year																
				THELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
		Physical:	D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	FP BETA GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			PU-238/PU-239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC SURPLUS FAC	55 GAL DRUM	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	113.3	113.3	113.3	85.0	56.7
		Physical	D HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	11.3	11.3	11.3	8.5	5.7
			D IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7	5.7	4.3	2.8
			D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7	5.7	4.3	2.8
			D ORG COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7	5.7	4.3	2.8
			D ORG NON COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	8.5	8.5	8.5	6.4	4.3
			ORG ABS LQ/STG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.7	56.7	56.7	56.7	42.5	28.4
			ORG PART	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.1	1.4
			SP LAB/CONT LQ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	11.3	11.3	11.3	8.5	5.7
			SP SOILS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7	5.7	4.3	2.8
		Hazardous:	ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9	6.9	6.9	5.2	3.5
			CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.1	37.1	37.1	37.1	27.8	18.6
			IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	17.6	17.6	17.6	13.2	8.8
			PCB < 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.1	0.7
			SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.8	0.5
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.6	48.6	48.6	48.6	36.5	24.3
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.3	0.2
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.2-4. Forecast Remote-Handled Transuranic Mixed Waste. (Continued Page 4 of 6)

Forecast Remote-Handled Transuranic Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
LL_EQUIP	LEC	Total Volume	366.4	452.4	556.4	681.6	692.1	764.5	787.1	809.7	298.6	271.4	230.7	266.9	303.3	298.6	9,748.1
		Physical: D IN OTH MTL	44.0	54.3	66.8	72.2	83.1	91.7	94.5	97.2	35.8	32.6	27.7	32.0	36.4	35.8	1,129.1
		IN ORG LQ/SEO	3.7	4.5	5.6	6.0	6.9	7.6	7.9	8.1	3.0	2.7	2.3	2.7	3.0	3.0	94.1
		IN ORG PART	131.9	162.8	200.3	216.6	249.2	275.2	283.4	291.5	107.5	97.7	83.1	96.1	109.1	107.5	3,387.2
		SH STAIN STEEL	186.9	230.7	284.8	306.8	353.0	389.9	401.4	413.0	152.3	138.4	117.7	136.1	154.6	152.3	4,798.5
		Hazardous: ACUTELY HAZ	124.6	153.8	189.2	204.6	235.3	259.9	267.6	275.3	101.5	92.3	78.4	90.7	103.0	101.5	3,199.0
		SPENT SOLV	120.9	149.3	183.6	198.5	228.4	252.3	259.7	267.2	98.5	89.6	76.1	88.1	100.0	98.5	3,104.9
		TC MET	120.9	149.3	183.6	198.5	228.4	252.3	259.7	267.2	98.5	89.6	76.1	88.1	100.0	98.5	3,104.9
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_327	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.3
		Physical: D IN OTH MTL	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.3
		Hazardous: SPENT SOLV	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.3
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	OTHER DRUMS	Total Volume	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	5.7
		Physical: SP EL LEAD	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	5.7
		Hazardous: TC MET	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	5.7
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	55 GAL DRUM	Total Volume	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	21.8
		Physical: SP EL LEAD	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	21.8
		Hazardous: TC MET	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	21.8
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	9.9
		Physical: D IN CONS MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		D ORG COMP	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	9.6
		SP EL LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		Hazardous: TC MET	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	9.9
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SWB	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		Physical: D IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		Hazardous: TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	0.0	340.0
		Physical: D IN OTH MTL	0.0	0.0	0.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	0.0	340.0
		Hazardous: SPENT SOLV	0.0	0.0	0.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	0.0	340.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	0.0	340.0
		Physical: D IN OTH MTL	0.0	0.0	0.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	0.0	340.0
		Hazardous: SPENT SOLV	0.0	0.0	0.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	0.0	340.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.2-4. Forecast Remote-Handled Transuranic Mixed Waste. (Continued Page 5 of 6)

Forecast Remote-Handled Transuranic Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
FWHC_2345Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	31.0
		Physical: D HET FILTERS	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	31.0
		Hazardous: OTHER	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	31.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	0.0	2,479.4
		Physical: D IN OTH MTL	0.0	0.0	0.0	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	0.0	2,479.4
		Hazardous: OTHER	0.0	0.0	0.0	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	0.0	2,479.4
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWHC_340	BOX OTHER	Total Volume	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	22.7
		Physical: D IN OTH MTL	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	22.7
		Hazardous: OTHER	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	22.7
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_221T	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
		Physical: D HET COMB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
		D HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		D HET NON COMB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
		D ORG COMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
		D ORG NON COMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
		IN ORG LQ/SLG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8
		Hazardous: CORR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
		IGN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
		SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
		TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5
		TC ORG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
		Radiological: PU 238/PU 239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
		VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
WHC_DST_PRT	CASKS	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,413.5
		Physical: IN ORG OTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,209.6
		SH CONCRETE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,203.9
		Hazardous: ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,413.5
		Radiological: FP BETA GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,413.5
WHC_HWVP	55 GAL DRUM	Total Volume	13.8	13.5	13.8	13.6	13.8	47.8	47.6	47.8	13.6	13.5	13.6	13.6	13.5	13.6	401.3
		Physical: D HET FILTERS	4.6	4.5	4.6	4.5	4.6	15.9	15.8	15.9	4.5	4.5	4.5	4.5	4.5	4.5	97.5
		D IN OTH	9.2	9.0	9.2	9.0	9.2	31.9	31.7	31.9	9.0	9.0	9.0	9.0	9.0	9.0	195.3
		Hazardous: TC MET	13.8	13.5	13.8	13.6	13.8	47.8	47.6	47.8	13.6	13.5	13.6	13.6	13.5	13.6	292.8
		Radiological: FP BETA GAMMA	13.8	13.5	13.8	13.6	13.8	47.8	47.6	47.8	13.6	13.5	13.6	13.6	13.5	13.6	292.8
		PU-238/PU 239	13.8	13.5	13.8	13.6	13.8	47.8	47.6	47.8	13.6	13.5	13.6	13.6	13.5	13.6	292.8
		URANIUM	13.8	13.5	13.8	13.6	13.8	47.8	47.6	47.8	13.6	13.5	13.6	13.6	13.5	13.6	292.8
		VOLATILE RAD	13.8	13.5	13.8	13.6	13.8	47.8	47.6	47.8	13.6	13.5	13.6	13.6	13.5	13.6	292.8
	SWB	Total Volume	35.7	33.4	35.7	35.7	33.3	121.6	121.6	121.6	35.7	33.4	35.7	35.7	33.4	35.7	1,027.4

Table C.2-4. Forecast Remote-Handled Transuranic Mixed Waste. (Continued Page 6 of 6)

Forecast Remote-Handled Transuranic Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
		Physical:	D IN OTH MTL	35.7	33.4	35.7	35.7	33.3	121.6	121.6	121.6	35.7	33.4	35.7	35.7	33.4	35.7	748.5
		Hazardous:	TC MET	35.7	33.4	35.7	35.7	33.3	121.6	121.6	121.6	35.7	33.4	35.7	35.7	33.4	35.7	748.5
		Radiological:	FP BETA GAMMA	35.7	33.4	35.7	35.7	33.3	121.6	121.6	121.6	35.7	33.4	35.7	35.7	33.4	35.7	748.5
			PU 238/PU 239	35.7	33.4	35.7	35.7	33.3	121.6	121.6	121.6	35.7	33.4	35.7	35.7	33.4	35.7	748.5
			URANIUM	35.7	33.4	35.7	35.7	33.3	121.6	121.6	121.6	35.7	33.4	35.7	35.7	33.4	35.7	748.5
			VOLATILE RAD	35.7	33.4	35.7	35.7	33.3	121.6	121.6	121.6	35.7	33.4	35.7	35.7	33.4	35.7	748.5
WHC SURPLS FAC	55 GAL DRUM	Total Volume		28.3	28.3	28.3	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	708.1
		Physical:	D HEP FILTERS	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.8
			D IN CONS MTL	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4
			D IN OTH MTL	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4
			D ORG COMP	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4
			D ORG NON COMP	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.1
			ORG ABS LQ/SLG	14.2	14.2	14.2	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	354.1
			ORG PART	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7
			SP LAB/CONT LQ	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.8
			SP SOILS	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4
		Hazardous:	ACUTELY HAZ	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.4
			CORR	9.3	9.3	9.3	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	231.9
			IGN	4.4	4.4	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.2
			PCB < 50	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
			SPENT SOLV	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5
			TC MET	12.2	12.2	12.2	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	304.0
			TC ORG	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.2-5. Inventory of Radionuclides in Retrievably Stored TRU Waste, Ci.

Radionuclide	Total Inventory	216-Z-1+2TF Maximum TRU Site	216-x-1+2 Maximum Fission Product Site
^{241}Am	3.8E03	1.3E03	2.5E01
^{60}Co	3.4E-1	2.0E-2	4.5E-2
^{137}Cs (b)	1.8E03	8.9E-1	9.6E02
^{3}H	1.0E00		
^{238}Pu	4.6E02	1.6E02	3.0E00
^{239}Pu	1.1E04	3.7E03	6.8E01
^{240}Pu	2.6E03	9.1E02	1.7E01
^{241}Pu	7.4E03	2.5E03	4.7E01
^{242}Pu	1.5E-1	5.3E-2	9.9E-4
^{106}Ru (b)		1.4E-6	1.7E-9
^{90}Sr (b)	3.4E03	8.8E-1	1.1E03
^{233}U	2.5E00	3.6E-2	1.0E00
^{234}U	2.6E00	3.7E-2	1.0E00
^{235}U	7.5E-2	1.1E-3	3.1E-2
^{238}U	1.9E00	2.7E-2	7.6E-1

(a) As of December 31, 1995.
(b) Does not include activity of short-lived daughters in equilibrium with parent radionuclide. Short-lived daughters are accounted for in dose calculations.

Table C.2-6. Summary of Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste. (Page 1 of 2)

Summary of Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste

Waste Generator	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
CH TRU																
PNL	79.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TPNL 231Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TPNL 327	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC 202A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC 2345Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC 100K	0.0	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC HWVP	98.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	177.3	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH TRUM																
TPNL 231Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC 202A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC 221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC 2345Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	177.3	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.2-6. Summary of Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste. (Continued Page 2 of 2)

Summary of Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste (Continued)

Waste Generator	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
CH TRU																
PNL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.2
TPNL_231Z	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	32.0
TPNL_327	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	26.5
TWHC_202A	0.0	0.0	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0	40.9
TWHC_2345Z	0.0	0.0	0.0	0.0	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	0.0	8,537.5
WHC_100K	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.4
WHC_HWVP	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	14.3	12.0	12.0	12.0	12.0	12.0	14.3	210.5
Subtotal	0.0	0.0	0.0	0.0	863.7	863.7	875.6	875.6	878.0	875.6	875.6	875.6	875.6	875.6	14.3	9,060.0
CH TRUM																
TPNL_231Z	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.0
TWHC_202A	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	8.6
TWHC_221T	0.0	0.0	0.0	0.0	272.0	272.0	272.0	272.0	272.0	272.0	272.0	272.0	272.0	272.0	0.0	2,720.0
TWHC_2345Z	0.0	0.0	0.0	0.0	1,004.1	1,004.1	1,004.1	1,004.1	1,004.1	1,004.1	1,004.1	1,004.1	1,004.1	1,004.1	0.0	10,041.4
Subtotal	0.0	0.0	0.0	0.0	1,277.2	1,277.2	1,277.2	1,277.2	1,277.2	1,277.2	1,277.2	1,277.2	1,277.2	1,277.2	0.0	12,772.0
Total	0.0	0.0	0.0	0.0	2,140.9	2,140.9	2,152.8	2,152.8	2,155.2	2,152.8	2,152.8	2,152.8	2,152.8	2,152.8	14.3	21,832.0

Table C.2-7. Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste. (Page 1 of 4)

Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year Held	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
CH TRU																		
PNL	BOX < 128	Total Volume	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX 128-500	Total Volume	76.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_231Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_327	BOX 128-500	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_2345Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_100K	277 FF3 ION EX	Total Volume	0.0	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	24.7	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		ORG PART	NA	0.0	45.9	40.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU-238/PU-239	NA	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	0.0	70.6	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_HWVP	BOX OTHER	Total Volume	98.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU-238/PU-239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.2-7. Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste (Continued Page 2 of 4)

Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year Held	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
CH TRUM																		
TPNL_231Z	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SP EL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_2345Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.2-7. Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste. (Continued Page 3 of 4)

Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
CH TRU																		
PNL	BOX < 128	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX 128-500	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.9
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_231Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	32.0
		Physical: D-HET FILTERS	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	5.4
		D-IN OTH MTL	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	26.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_327	BOX 128-500	Total Volume	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	26.5
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	26.5
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0	40.9
		Physical: D-IN CONS MTL	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	10.7
		D-IN OTH MTL	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0	30.2
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_2345Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	0.0	1,255.5
		Physical: OTHER	0.0	0.0	0.0	0.0	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	125.6	0.0	1,255.5
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	0.0	7,282.0
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	0.0	7,282.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_100K	277 FT3 ION EX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.4
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7
		ORG PART	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.7
		Radiological: FP BETA-GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.4
		PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.4
		URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.4
		VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.4
WHC_HWVP	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	14.3	12.0	12.0	12.0	12.0	12.0	14.3	210.5
		Physical: D-HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	14.3	12.0	12.0	12.0	12.0	12.0	14.3	112.4
		Radiological: FP BETA-GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	14.3	12.0	12.0	12.0	12.0	12.0	14.3	112.4
		PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	14.3	12.0	12.0	12.0	12.0	12.0	14.3	112.4
		URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	14.3	12.0	12.0	12.0	12.0	12.0	14.3	112.4
		VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	14.3	12.0	12.0	12.0	12.0	12.0	14.3	112.4

Table C.2-7. Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste. (Continued Page 4 of 4)

Forecast Contact-Handled Transuranic and Transuranic Mixed Large Container Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
CH TRUM																		
TPNL_231Z	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.0
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.0
		Hazardous: CORR	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	8.6
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	5.9
		SP EL LEAD	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	2.7
		Hazardous: TC MET	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	8.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	0.0	1,360.0
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	0.0	1,360.0
		Hazardous: SPENT SOLV	0.0	0.0	0.0	0.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	0.0	1,360.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	0.0	1,360.0
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	0.0	1,360.0
		Hazardous: SPENT SOLV	0.0	0.0	0.0	0.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	0.0	1,360.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_2345Z	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	0.0	124.0
		Physical: D-HET FILTERS	0.0	0.0	0.0	0.0	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	0.0	124.0
		Hazardous: OTHER	0.0	0.0	0.0	0.0	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	0.0	124.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	0.0	9,917.4
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	0.0	9,917.4
		Hazardous: OTHER	0.0	0.0	0.0	0.0	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	991.7	0.0	9,917.4
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.2-8. Summary of Forecast Special Contact-Handled Waste. (Page 1 of 2)

Summary of Forecast Special Contact-Handled Waste

Waste Generator	Volume (m^3) Per Year															
	HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
CH TRU																
ANL_E	NA	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
PAST_PRAC_REM	NA	0.0	0.0	0.0	12.2	12.2	36.7	18.4	6.1	42.8	55.1	36.7	24.5	24.5	24.5	30.6
RKW_CANOGA	NA	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_EA_W112	NA	0.0	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_EA_W113	NA	0.0	28.3	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	NA	0.0	0.9	29.8	0.0	0.0	0.0	14.2	0.3	0.6	0.6	1.1	11.3	11.3	11.3	11.3
WHC_WELL_DRL	NA	0.9	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Subtotal	NA	1.6	68.2	48.0	12.7	12.6	37.0	32.8	6.7	43.7	56.0	38.2	36.1	36.1	36.1	42.3
CH TRUM																
RKW_CANOGA	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	NA	0.0	0.0	0.2	0.0	0.0	0.0	4.3	0.2	0.2	0.2	0.8	2.1	8.5	8.5	8.5
WHC_WELL_DRL	NA	0.7	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Subtotal	NA	0.7	0.4	0.6	0.2	0.2	0.2	4.4	0.3	0.3	0.3	0.9	2.2	8.6	8.6	8.6
Total	NA	2.3	68.6	48.6	12.9	12.7	37.2	37.2	7.0	44.0	56.3	39.1	38.4	44.7	44.7	50.9

Table C.2-8. Summary of Forecast Special Contact-Handled Waste. (Continued Page 2 of 2)

Summary of Forecast Special Contact-Handled Waste (Continued)

Waste Generator	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
CH TRU																
ANL_E	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.2
PAST_PRAC_REM	30.6	30.6	30.6	24.5	24.5	24.5	24.5	18.4	18.4	12.2	12.2	6.1	6.1	6.1	0.0	593.5
RKW_CANOGA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TWHC_221T	0.0	0.0	0.0	0.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	0.0	849.6
WHC_EA_W112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3
WHC_EA_W113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9
WHC_SURPLS_FAC	11.3	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.3
WHC_WELL_DRL	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	6.5
Subtotal	42.3	33.8	33.8	27.6	112.6	109.8	109.8	103.6	103.6	97.5	97.5	91.4	91.4	91.4	0.3	1,654.6
CH TRUM																
RKW_CANOGA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
WHC_SURPLS_FAC	8.5	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.5
WHC_WELL_DRL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.4
Subtotal	8.6	2.2	2.2	2.2	2.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	55.0
Total	50.9	36.0	36.0	29.9	114.8	109.9	109.9	103.7	103.7	97.6	97.6	91.5	91.5	91.5	0.4	1,709.6

Table C.2-9. Forecast Special Contact-Handled Waste. (Page 1 of 4)

Forecast Special Contact-Handled Waste

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CH TRU																					
ANL_E	55 GAL DRUM	Total Volume	NA	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Physical: IN ORG PART	NA	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Radiological: FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU-238/PU-239	NA	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		URANIUM	NA	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
PAST_PRAC_REM	54 GAL DRUM	Total Volume	NA	0.0	0.0	0.0	12.2	12.2	36.7	18.4	6.1	42.8	55.1	36.7	24.5	24.5	24.5	30.6	30.6	30.6	30.6
		Physical: SP SOILS	NA	0.0	0.0	0.0	12.2	12.2	36.7	18.4	6.1	42.8	55.1	36.7	24.5	24.5	24.5	30.6	30.6	30.6	30.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RKW_CANOGA	54 GAL DRUM	Total Volume	NA	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: IN ORG PART	NA	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU-238/PU-239	NA	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	54 GAL DRUM	Total Volume	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: ORG PART	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_EA_W112	54 GAL DRUM	Total Volume	NA	0.0	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP SOILS	NA	0.0	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_EA_W113	54 GAL DRUM	Total Volume	NA	0.0	28.3	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP SOILS	NA	0.0	28.3	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.0	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU-238/PU-239	NA	0.0	25.5	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	54 GAL DRUM	Total Volume	NA	0.0	0.9	29.8	0.0	0.0	0.0	14.2	0.3	0.6	0.6	1.1	11.3	11.3	11.3	11.3	11.3	2.8	2.8
		Physical: IN ORG PART	NA	0.0	0.4	14.9	0.0	0.0	0.0	7.1	0.1	0.3	0.3	0.6	5.7	5.7	5.7	5.7	5.7	1.4	1.4
		ORG PART	NA	0.0	0.4	14.9	0.0	0.0	0.0	7.1	0.1	0.3	0.3	0.6	5.7	5.7	5.7	5.7	5.7	1.4	1.4
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_WELL_DRL	54 GAL DRUM	Total Volume	NA	0.9	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Physical: IN ORG PART	NA	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SP SOILS	NA	0.7	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		Radiological: FP BETA-GAMMA	NA	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		PU-238/PU-239	NA	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.2-9. Forecast Special Contact-Handled Waste. (Continued Page 2 of 4)

Forecast Special Contact-Handled Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
CH TRUM																
RKW_CANOGA	55 GAL DRUM	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		Physical:	IN ORG PART	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		Hazardous:	TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		Radiological:	FP BETA-GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
			URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume		2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.5
		Physical:	ORG PART	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8
			SP SOILS	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7
		Hazardous:	ACUTELY HAZ	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
			CORR	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8
			IGN	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
			PCB < 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
			SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
			TC MET	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_WELL_DRL	55 GAL DRUM	Total Volume		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.4
		Physical:	IN ORG PART	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
			SP SOILS	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.5
		Hazardous:	ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
			CORR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
			SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
			TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		Radiological:	FP BETA-GAMMA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.8
			PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
			URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1

Table C.2-9. Forecast Special Contact-Handled Waste. (Continued Page 3 of 4)

Forecast Special Contact-Handled Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
CH TRU															
ANL_E	55 GAL DRUM	Total Volume	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.2
		Physical: IN ORG PART	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.2
		Radiological: FP BETA-GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		PU-238/PU-239	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6
		URANIUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6
PAST_PRAC_REM	54 GAL DRUM	Total Volume	24.5	24.5	24.5	24.5	18.4	18.4	12.2	12.2	6.1	6.1	6.1	0.0	593.5
		Physical: SP SOILS	24.5	24.5	24.5	24.5	18.4	18.4	12.2	12.2	6.1	6.1	6.1	0.0	593.5
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RKW_CANOGA	54 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
		Physical: IN ORG PART	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
		Radiological: FP BETA GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
		URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	54 GAL DRUM	Total Volume	0.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	0.0	849.6
		Physical: ORG PART	0.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	0.0	849.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_EA_W112	54 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3
		Physical: SP SOILS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_EA_W113	54 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9
		Physical: SP SOILS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9
		Radiological: FP BETA-GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
		PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.3
WHC_SURPLS_FAC	54 GAL DRUM	Total Volume	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.3
		Physical: IN ORG PART	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6
		ORG PART	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_WELL_DRL	54 GAL DRUM	Total Volume	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	6.5
		Physical: IN ORG PART	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
		SP SOILS	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.3
		Radiological: FP BETA-GAMMA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.2
		PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

Table C.2-9. Forecast Special Contact-Handled Waste. (Continued Page 4 of 4)

Forecast Special Contact-Handled Waste (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CH TRUM																					
RKW_CANOGA	55 GAL DRUM	Total Volume	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: IN ORG PART	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PU-238/PU-239	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume	NA	0.0	0.0	0.2	0.0	0.0	0.0	4.3	0.2	0.2	0.2	0.8	2.1	8.5	8.5	8.5	8.5	2.1	2.1
		Physical: ORG PART	NA	0.0	0.0	0.1	0.0	0.0	0.0	1.4	0.1	0.1	0.1	0.3	0.7	2.8	2.8	2.8	2.8	0.7	0.7
		SP SOILS	NA	0.0	0.0	0.1	0.0	0.0	0.0	2.8	0.1	0.1	0.1	0.6	1.4	5.7	5.7	5.7	5.7	1.4	1.4
		Hazardous: ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.3	0.3	0.1	0.1
		CORR	NA	0.0	0.0	0.1	0.0	0.0	0.0	1.8	0.1	0.1	0.1	0.4	0.9	3.7	3.7	3.7	3.7	0.9	0.9
		IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.4	1.7	1.7	1.7	1.7	0.4	0.4
		PCB < 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0
		SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0
		TC MET	NA	0.0	0.0	0.1	0.0	0.0	0.0	1.3	0.1	0.1	0.1	0.3	0.6	2.5	2.5	2.5	2.5	0.6	0.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_WELL_DRL	55 GAL DRUM	Total Volume	NA	0.7	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		Physical: IN ORG PART	NA	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SP SOILS	NA	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		Hazardous: ACUTELY HAZ	NA	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		CORR	NA	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SPENT SOLV	NA	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC MET	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		PU-238/PU-239	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.3-1. Summary of Forecast Remote-Handled Low-Level Mixed Waste. (Page 1 of 2)

Summary of Forecast Remote-Handled Low-Level Mixed Waste

Waste Generator	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
LL_EQUIP	3,053.4	244.3	814.2	814.2	1,139.9	977.1	1,058.5	1,139.9	1,302.8	1,506.3	1,547.0	2,442.7	2,320.6	2,035.6	2,279.8	2,157.7
TPNL_324	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TPNL_326	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_202A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_202A_TW	242.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_225B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_221T	0.0	28.3	56.7	56.7	56.7	56.7	56.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_222S	0.0	2.5	2.7	4.7	4.7	4.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
WHC_GROUT	1,249.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.2	136.3	136.3	136.3	192.2
WHC_SURPLS_FAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.6	56.6	56.6	170.0	170.0	283.2	283.2	283.2
WHC_TWP_106C	0.0	10.9	43.5	29.0	181.3	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PUREX TUNNEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	4,545.2	286.0	917.1	904.6	1,382.6	1,056.6	1,119.3	1,144.0	1,363.5	1,567.0	1,607.7	2,797.0	2,631.0	2,459.2	2,703.4	2,637.2

Table C.3-1. Summary of Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 2 of 2)

Summary of Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
LL_EQUIP	2,605.5	3,297.6	4,071.2	5,007.5	5,414.6	6,228.9	6,880.2	7,083.8	7,287.4	2,687.0	2,442.7	2,076.3	2,402.0	2,727.7	2,687.0	87,733.3
TPNL_324	0.0	0.0	0.0	0.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	0.0	424.0
TPNL_326	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	6.7
TWHC_202A	0.0	0.0	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	0.0	59.1
TWHC_202A_TW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	242.2
TWHC_221T	0.0	0.0	0.0	0.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	0.0	906.4
TWHC_225B	0.0	0.0	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0.0	69.2
WHC_221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.8
WHC_222S	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	121.8
WHC_GROUT	136.3	139.9	136.3	192.2	136.3	180.2	136.3	195.9	136.3	136.3	136.3	192.2	136.3	139.9	136.3	4,297.9
WHC_SURPLS_FAC	283.2	113.4	56.6	28.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,846.6
WHC_TWP_106C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	282.8
PUREX TUNNEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.0	6.0	0.0	0.0	0.0	0.0	181.0
Total	3,029.1	3,555.0	4,268.2	5,232.2	5,707.2	6,559.7	7,167.2	7,430.3	7,574.3	3,148.9	2,735.6	2,419.1	2,688.9	3,018.2	2,827.4	96,482.8

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Page 1 of 12)

Forecast Remote-Handled Low-Level Mixed Waste

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
LL_EQUIP	LEC	Total Volume	3,053.4	244.3	814.2	814.2	1,139.9	977.1	1,058.5	1,139.9	1,302.8	1,506.3	1,547.0	2,442.7	2,320.6	2,035.6	2,279.8
		Physical: D-IN OTH MTL	NA	29.3	97.7	97.7	136.8	117.2	127.0	136.8	156.3	180.8	185.6	293.1	278.5	244.3	273.6
		IN ORG LQ/SLG	NA	2.4	8.1	8.1	11.4	9.8	10.6	11.4	13.0	15.1	15.5	24.4	23.2	20.4	22.8
		IN ORG PART	NA	87.9	293.1	293.1	410.4	351.7	381.3	410.4	469.0	542.3	556.9	879.4	835.4	732.8	820.7
		SH STAIN STEEL	NA	124.6	415.3	415.3	581.4	498.3	539.8	581.4	664.4	768.2	789.0	1,245.8	1,183.5	1,038.1	1,162.7
		Hazardous: ACUTELY HAZ	NA	83.1	276.8	276.8	387.6	332.2	359.9	387.6	442.9	512.2	526.0	830.5	789.0	692.1	775.1
		SPENT SOLV	NA	80.6	268.7	268.7	376.2	322.4	349.3	376.2	429.9	497.1	510.5	806.1	765.8	671.7	752.3
		TC MET	NA	80.6	268.7	268.7	376.2	322.4	349.3	376.2	429.9	497.1	510.5	806.1	765.8	671.7	752.3
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_324	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_326	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP EL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A_TW	BOX OTHER	Total Volume	242.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_225B	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_221T	55 GAL DRUM	Total Volume	0.0	28.3	56.7	56.7	56.7	56.7	56.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN CONS MTL	NA	14.2	28.4	28.4	28.4	28.4	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D-IN LEAD MTL	NA	2.8	5.7	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		D-IN OTH MTL	NA	11.3	22.7	22.7	22.7	22.7	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: REAC	NA	1.3	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC MET	NA	27.0	54.1	54.1	54.1	54.1	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: PU-238/PU-239	NA	28.3	56.7	56.7	56.7	56.7	56.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	28.3	56.7	56.7	56.7	56.7	56.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 2 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
WHC_222S	55 GAL DRUM	Total Volume		0.0	2.5	2.7	4.7	4.7	4.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
		Physical:	D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN LEAD MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D ORG COMP	NA	1.1	1.2	2.1	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
			D-ORG NON COMP	NA	0.7	0.8	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
			IN ORG LQ/SLG	NA	0.5	0.5	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
			ORG ABS LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SP LAB/CONT LQ	NA	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		Hazardous:	ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			FILTER/ABSORB	NA	0.5	0.5	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
			ION	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			SPENT SOLV	NA	1.5	1.6	2.8	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
			TC MET	NA	0.2	0.3	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			WC	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			WP	NA	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			WT	NA	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Radiological:	FP BETA-GAMMA	NA	2.5	2.7	4.7	4.7	4.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
			PU-238/PU-239	NA	0.2	0.2	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
			URANIUM	NA	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 3 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
WHC_GROUT	55 GAL DRUM	Total Volume		45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	5.6	5.6
		Physical:	D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	5.6	5.6
		Hazardous:	CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
			SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
		Radiological:	FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	5.6	5.6
			PU-238/PU-239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BOX > 1000	Total Volume		43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.9	0.0	0.0	0.0
		Physical:	D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	0.0	0.0	0.0
			D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
			IN ORG LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
		Hazardous:	CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0
			SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0
		Radiological:	FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.9	0.0	0.0	0.0
			PU-238/PU-239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BOX 128-500	Total Volume		13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			IN ORG LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			PU-238/PU-239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BOX 500-1000	Total Volume		102.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			IN ORG LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			PU-238/PU-239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 4 of 4)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CASKS	Total Volume		1,045.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.7	130.7	130.7	130.7
		Physical:	IN ORG LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	13.1	13.1	13.1
			IN ORG OTH	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	117.6	117.6	117.6	117.6
		Hazardous:	SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	45.7	45.7	45.7
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	45.7	45.7	45.7
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.2	39.2	39.2	39.2
		Radiological:	FP BETA GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.7	130.7	130.7	130.7
			PU-238/PU 239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
			URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.6	56.6	56.6	170.0	170.0	283.2	283.2
		Physical:	D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7	17.0	17.0	28.3	28.3
			D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7	17.0	17.0	28.3	28.3
			D ORG COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.5	8.5	14.2	14.2
			D ORG NON COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.5	8.5	14.2	14.2
			ORG PART	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.6	39.6	39.6	119.0	119.0	198.2	198.2
		Hazardous:	ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	7.7	7.7	12.7	12.7
			CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	22.6	22.6	68.0	68.0	113.3	113.3
			IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	5.1	15.3	15.3	25.5	25.5
			SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.9	0.9	1.4	1.4
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	25.8	25.8	77.4	77.4	128.9	128.9
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.9	0.9	1.4	1.4
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_TWP_106C	4X4X8 BOX	Total Volume		0.0	10.9	43.5	29.0	181.3	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN OTH MTL	NA	10.9	43.5	29.0	181.3	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	ACUTELY HAZ	NA	3.7	14.8	9.9	61.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	NA	3.6	14.4	9.6	59.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	NA	3.6	14.4	9.6	59.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PUREX TUNNEL	OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 5 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
LL_EQUIP	LEC	Total Volume		2,157.7	2,605.5	3,297.6	4,071.2	5,007.5	5,414.6	6,228.9	6,880.2	7,083.8	7,287.4	2,687.0	2,442.7	2,076.3	2,402.0
		Physical:	D-IN OTH MTL	258.9	312.7	395.7	488.5	600.9	649.8	747.5	825.6	850.1	874.5	322.4	293.1	249.2	288.2
			IN ORG LQ/SLG	21.6	26.1	33.0	40.7	50.1	54.1	62.3	68.8	70.8	72.9	26.9	24.4	20.8	24.0
			IN ORG PART	776.8	938.0	1,187.1	1,465.6	1,802.7	1,949.3	2,242.4	2,476.9	2,550.2	2,623.4	967.3	879.4	747.5	864.7
			SH STAIN STEEL	1,100.4	1,328.8	1,681.8	2,076.3	2,553.8	2,761.5	3,176.7	3,508.9	3,612.7	3,716.6	1,370.3	1,245.8	1,058.9	1,225.0
		Hazardous:	ACUTELY HAZ	733.6	885.9	1,121.2	1,384.2	1,702.6	1,841.0	2,117.8	2,339.3	2,408.5	2,477.7	913.6	830.5	705.9	816.7
			SPENT SOLV	712.0	859.8	1,088.2	1,343.5	1,652.5	1,786.8	2,055.5	2,270.5	2,337.7	2,404.8	886.7	806.1	685.2	792.7
			TC MET	712.0	859.8	1,088.2	1,343.5	1,652.5	1,786.8	2,055.5	2,270.5	2,337.7	2,404.8	886.7	806.1	685.2	792.7
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_324	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
		Physical:	D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
		Hazardous:	TC MET	0.0	0.0	0.0	0.0	0.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPNL_326	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
		Physical:	SP EL LEAD	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
		Hazardous:	OTHER	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
		Physical:	OTHER	0.0	0.0	0.0	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
		Hazardous:	OTHER	0.0	0.0	0.0	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A_TW	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume		0.0	0.0	0.0	0.0	0.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
		Physical:	D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
		Hazardous:	SPENT SOLV	0.0	0.0	0.0	0.0	0.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
		Physical:	D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
		Hazardous:	SPENT SOLV	0.0	0.0	0.0	0.0	0.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_225B	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
		Physical:	D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
		Hazardous:	TC MET	0.0	0.0	0.0	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_221T	55 GAL DRUM	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN CONS MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN LEAD MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	REAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 6 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
WHC_222S	55 GAL DRUM	Total Volume		4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
		Physical:	D-HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN LEAD MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-ORG COMP	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
			D ORG NON COMP	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
			IN ORG LQ/SLG	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
			ORG ABS LQ/SLG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SP LAB/CONT LQ	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		Hazardous:	ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			CORR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			FILLER/ABSORB	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
			IGN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			SPENT SOLV	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
			TC MET	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
			TC ORG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			WC	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			WP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			WT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Radiological:	FP BETA-GAMMA	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
			PU-238/PU-239	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
			URANIUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 7 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
WHC_GROUT	55 GAL DRUM	Total Volume		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
		Physical:	D-HET FILTERS	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
		Hazardous:	CORR	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
			SPENT SOLV	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
			TC MET	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
			TC ORG	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
		Radiological:	FP BETA-GAMMA	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
			PU-238/PU 239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BOX > 1000	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN CONS MTL	0.0	0.0	0.0	0.0	0.0	0.0	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			IN ORG LQ/SLG	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	CORR	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC ORG	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	FP BETA GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BOX 128-500	Total Volume		4.9	0.0	3.7	0.0	4.9	0.0	0.0	0.0	8.6	0.0	0.0	0.0	4.9	0.0
		Physical:	D-IN CONS MTL	4.4	0.0	3.3	0.0	4.4	0.0	0.0	0.0	7.8	0.0	0.0	0.0	4.4	0.0
			D-IN OTH MTL	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0
			IN ORG LQ/SLG	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0
		Hazardous:	CORR	1.2	0.0	0.9	0.0	1.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.2	0.0
			SPENT SOLV	1.2	0.0	0.9	0.0	1.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.2	0.0
			TC MET	1.2	0.0	0.9	0.0	1.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.2	0.0
			TC ORG	1.2	0.0	0.9	0.0	1.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.2	0.0
		Radiological:	FP BETA-GAMMA	4.9	0.0	3.7	0.0	4.9	0.0	0.0	0.0	8.6	0.0	0.0	0.0	4.9	0.0
			PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BOX 500-1000	Total Volume		51.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0	51.0	0.0
		Physical:	D-IN CONS MTL	45.9	0.0	0.0	0.0	45.9	0.0	0.0	0.0	45.9	0.0	0.0	0.0	45.9	0.0
			D-IN OTH MTL	2.6	0.0	0.0	0.0	2.6	0.0	0.0	0.0	2.6	0.0	0.0	0.0	2.6	0.0
			IN ORG LQ/SLG	2.6	0.0	0.0	0.0	2.6	0.0	0.0	0.0	2.6	0.0	0.0	0.0	2.6	0.0
		Hazardous:	CORR	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0
			SPENT SOLV	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0
			TC MET	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0
			TC ORG	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	0.0
		Radiological:	FP BETA-GAMMA	51.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0	51.0	0.0
			PU-238/PU-239	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
			URANIUM	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 8 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
			VOLATILE RAD	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
	CASKS	Total Volume		130.6	130.7	130.6	130.7	130.6	130.7	130.7	130.7	130.6	130.7	130.7	130.7	130.6	130.7
		Physical:	IN ORG LQ/SLG	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
			IN ORG OTH	117.6	117.6	117.5	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6
		Hazardous:	SPENT SOLV	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
			TC MET	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
			TC ORG	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
		Radiological:	FP BETA-GAMMA	130.6	130.7	130.6	130.7	130.6	130.7	130.7	130.7	130.6	130.7	130.7	130.7	130.6	130.7
			PU-238/PU-239	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			URANIUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			VOLATILE RAD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume		283.2	283.2	113.4	56.6	28.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN CONS MTL	28.3	28.3	11.3	5.7	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	28.3	28.3	11.3	5.7	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-ORG COMP	14.2	14.2	5.7	2.8	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-ORG NON COMP	14.2	14.2	5.7	2.8	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			ORG PART	198.2	198.2	79.4	39.6	19.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	ACUTELY HAZ	12.7	12.7	5.1	2.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			CORR	113.3	113.3	45.4	22.6	11.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			IGN	25.5	25.5	10.2	5.1	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	1.4	1.4	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	128.9	128.9	51.6	25.8	12.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC ORG	1.4	1.4	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_TWP_106C	4X4X8 BOX	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PUREX TUNNEL	OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.0	6.0	0.0	0.0
		Physical:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 9 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2022	2023	Total
LL_EQUIP	LEC	Total Volume		2,727.7	2,687.0	87,733.3
		Physical:	D-IN OTH MTL	327.3	322.4	10,164.6
			IN ORG LQ/SLG	27.3	26.9	846.8
			IN ORG PART	982.0	967.3	30,481.8
			SH STAIN STEEL	1,391.1	1,370.3	43,186.8
		Hazardous:	ACUTELY HAZ	927.4	913.6	28,791.2
			SPENT SOLV	900.1	886.7	27,941.4
			TC MET	900.1	886.7	27,941.4
		Radiological:		NA	NA	NA
TPNL_324	BOX OTHER	Total Volume		42.4	0.0	424.0
		Physical:	D-IN OTH MTL	42.4	0.0	424.0
		Hazardous:	TC MET	42.4	0.0	424.0
		Radiological:		NA	NA	NA
TPNL_326	BOX OTHER	Total Volume		0.7	0.0	6.7
		Physical:	SP EL LEAD	0.7	0.0	6.7
		Hazardous:	OTHER	0.7	0.0	6.7
		Radiological:		NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume		5.9	0.0	59.1
		Physical:	OTHER	5.9	0.0	59.1
		Hazardous:	OTHER	5.9	0.0	59.1
		Radiological:		NA	NA	NA
TWHC_202A_TW	BOX OTHER	Total Volume		0.0	0.0	242.2
		Physical:		NA	NA	NA
		Hazardous:		NA	NA	NA
		Radiological:		NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume		45.3	0.0	453.2
		Physical:	D-IN OTH MTL	45.3	0.0	453.2
		Hazardous:	SPENT SOLV	45.3	0.0	453.2
		Radiological:		NA	NA	NA
	BOX OTHER	Total Volume		45.3	0.0	453.2
		Physical:	D-IN OTH MTL	45.3	0.0	453.2
		Hazardous:	SPENT SOLV	45.3	0.0	453.2
		Radiological:		NA	NA	NA
TWHC_225B	BOX OTHER	Total Volume		6.9	0.0	69.2
		Physical:	D-IN OTH MTL	6.9	0.0	69.2
		Hazardous:	TC MET	6.9	0.0	69.2
		Radiological:		NA	NA	NA
WHC_221T	55 GAL DRUM	Total Volume		0.0	0.0	311.8
		Physical:	D-IN CONS MTL	0.0	0.0	155.9
			D-IN LEAD MTL	0.0	0.0	31.2
			D-IN OTH MTL	0.0	0.0	124.7
		Hazardous:	REAC	0.0	0.0	14.0
			TC MET	0.0	0.0	297.8
		Radiological:	PU-238/PU-239	0.0	0.0	311.8
			VOLATILE RAD	0.0	0.0	311.8

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 10 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2022	2023	Total
WHC_222S	55 GAL DRUM	Total Volume		4.1	4.1	121.8
		Physical:	D-HET FILTERS	0.0	0.0	1.2
			D-IN LEAD MTL	0.0	0.0	1.2
			D-ORG COMP	1.8	1.8	53.6
			D-ORG NON COMP	1.1	1.1	34.1
			IN ORG LQ/SLG	0.7	0.7	21.9
			ORG ABS LQ/SLG	0.0	0.0	1.2
			SP LAB/CONT LQ	0.3	0.3	8.5
		Hazardous:	ACUTELY HAZ	0.0	0.0	1.0
			CORR	0.0	0.0	1.2
			FILLER/ABSORB	0.7	0.7	21.9
			IGN	0.1	0.1	2.6
			SPENT SOLV	2.4	2.4	71.4
			TC MET	0.4	0.4	12.1
			TC ORG	0.0	0.0	0.6
			WC	0.1	0.1	2.9
			WP	0.1	0.1	2.1
			WT	0.2	0.2	6.2
		Radiological:	FP BETA-GAMMA	4.1	4.1	120.6
			PU-238/PU-239	0.3	0.3	10.1
			URANIUM	0.1	0.1	2.2
			VOLATILE RAD	0.0	0.0	1.1

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 11 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2022	2023	Total
WHC_GROUT	55 GAL DRUM	Total Volume		5.6	5.6	157.5
		Physical:	D-HET FILTERS	5.6	5.6	112.5
		Hazardous:	CORR	1.4	1.4	28.1
			SPENT SOLV	1.4	1.4	28.1
			TC MET	1.4	1.4	28.1
			TC ORG	1.4	1.4	28.1
		Radiological:	FP BETA-GAMMA	5.6	5.6	112.5
			PU-238/PU-239	0.0	0.0	0.1
			URANIUM	0.0	0.0	0.1
			VOLATILE RAD	0.0	0.0	0.1
	BOX > 1000	Total Volume		0.0	0.0	131.7
		Physical:	D-IN CONS MTL	0.0	0.0	79.0
			D-IN OTH MTL	0.0	0.0	4.4
			IN ORG LQ/SLG	0.0	0.0	4.4
		Hazardous:	CORR	0.0	0.0	22.0
			SPENT SOLV	0.0	0.0	22.0
			TC MET	0.0	0.0	22.0
			TC ORG	0.0	0.0	22.0
		Radiological:	FP BETA-GAMMA	0.0	0.0	87.8
			PU-238/PU-239	0.0	0.0	0.1
			URANIUM	0.0	0.0	0.1
			VOLATILE RAD	0.0	0.0	0.1
	BOX 128-500	Total Volume		3.7	0.0	44.3
		Physical:	D-IN CONS MTL	3.3	0.0	27.7
			D-IN OTH MTL	0.2	0.0	1.5
			IN ORG LQ/SLG	0.2	0.0	1.5
		Hazardous:	CORR	0.9	0.0	7.7
			SPENT SOLV	0.9	0.0	7.7
			TC MET	0.9	0.0	7.7
			TC ORG	0.9	0.0	7.7
		Radiological:	FP BETA-GAMMA	3.7	0.0	30.8
			PU-238/PU-239	0.0	0.0	0.0
			URANIUM	0.0	0.0	0.0
			VOLATILE RAD	0.0	0.0	0.0
	BOX 500-1000	Total Volume		0.0	0.0	306.2
		Physical:	D-IN CONS MTL	0.0	0.0	183.7
			D-IN OTH MTL	0.0	0.0	10.2
			IN ORG LQ/SLG	0.0	0.0	10.2
		Hazardous:	CORR	0.0	0.0	51.0
			SPENT SOLV	0.0	0.0	51.0
			TC MET	0.0	0.0	51.0
			TC ORG	0.0	0.0	51.0
		Radiological:	FP BETA-GAMMA	0.0	0.0	204.1
			PU-238/PU-239	0.0	0.0	0.2
			URANIUM	0.0	0.0	0.2

Table C.3-2. Forecast Remote-Handled Low-Level Mixed Waste. (Continued Page 12 of 12)

Forecast Remote-Handled Low-Level Mixed Waste (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2022	2023	Total
			VOLATILE RAD	0.0	0.0	0.2
	CASKS	Total Volume		130.6	130.7	3,658.1
		Physical:	IN ORG LQ/SLG	13.1	13.1	261.3
			IN ORG OTH	117.5	117.6	2,351.8
		Hazardous:	SPENT SOLV	45.7	45.7	914.6
			TC MET	45.7	45.7	914.6
			TC ORG	39.2	39.2	783.9
		Radiological:	FP BETA-GAMMA	130.6	130.7	2,613.1
			PU-238/PU-239	0.1	0.1	2.6
			URANIUM	0.1	0.1	2.6
			VOLATILE RAD	0.1	0.1	2.6
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume		0.0	0.0	1,846.6
		Physical:	D-IN CONS MTL	0.0	0.0	184.7
			D-IN OTH MTL	0.0	0.0	184.7
			D-ORG COMP	0.0	0.0	92.3
			D-ORG NON COMP	0.0	0.0	92.3
			ORG PART	0.0	0.0	1,292.6
		Hazardous:	ACUTELY HAZ	0.0	0.0	83.1
			CORR	0.0	0.0	738.6
			IGN	0.0	0.0	166.2
			SPENT SOLV	0.0	0.0	9.2
			TC MET	0.0	0.0	840.2
			TC ORG	0.0	0.0	9.2
		Radiological:		NA	NA	NA
WHC_TWP_106C	4X4X8 BOX	Total Volume		0.0	0.0	282.8
		Physical:	D-IN OTH MTL	0.0	0.0	282.8
		Hazardous:	ACUTELY HAZ	0.0	0.0	96.2
			SPENT SOLV	0.0	0.0	93.3
			TC MET	0.0	0.0	93.3
		Radiological:		NA	NA	NA
PUREX TUNNEL	OTHER	Total Volume		0.0	0.0	181.0
		Physical:		NA	NA	NA
		Hazardous:		NA	NA	NA
		Radiological:		NA	NA	NA

Table C.3-3. Summary of Forecast Contact Handled Low-Level Mixed Waste in Large Containers. (Page 1 of 2)

Summary of Forecast Contact-Handled Low-Level Mixed Waste in Large Containers

Waste Generator	Volume (m^3) Per Year															
	HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
BAPL	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KAPL_SHIPYDS	0.0	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
WHC_GROUT	51.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	0.0	0.0
PUREX TUNNEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	51.3	24.0	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	47.5	21.9	21.9

Table C.3-3. Summary of Forecast Contact Handled Low-Level Mixed Waste in large containers. (Continued Page 2 of 2)

Summary of Forecast Contact-Handled Low-Level Mixed Waste in Large Containers (Continued)

Waste Generator	Volume (m^3) Per Year															
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
BAPL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
KAPL_SHIPYDS	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	657.0
WHC_GROUT	0.0	25.6	0.0	0.0	0.0	25.6	0.0	0.0	0.0	25.6	0.0	0.0	0.0	25.6	0.0	179.2
PUREX TUNNEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0	71.0	0.0	0.0	0.0	0.0	142.0
Total	21.9	47.5	21.9	21.9	21.9	47.5	21.9	21.9	21.9	118.5	92.9	21.9	21.9	47.5	21.9	980.4

Table C.3-4. Forecast Contact-Handled Low-Level Mixed Waste in Large Containers. (Page 1 of 2)

Forecast Contact-Handled Low-Level Mixed Waste in Large Containers

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
BAPL	OTHER CYL	Total Volume	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP EL LEAD	NA	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: TC MET	NA	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KAPL_SHIPYDS	LEC	Total Volume	0.0	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
		Physical: SH LEAD	NA	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
		Hazardous: TC MET	NA	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
		Radiological: FP BETA-GAMMA	NA	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
		PU-238/PU-239	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		VOLATILE RAD	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
WHC_GROUT	BOX 500-1000	Total Volume	51.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	0.0	0.0
		Physical: D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	0.0	0.0
		D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0
		IN ORG LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0
		Hazardous: CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0
		SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0
		TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0
		TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0
		Radiological: FP BETA-GAMMA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	0.0	0.0
		PU-238/PU-239	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PUREX TUNNEL	OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: SP EL LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous: TC MET	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological: FP BETA-GAMMA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.3-4. Forecast Contact-Handled Low-Level Mixed Waste in Large Containers. (Continued Page 2 of 2)

Forecast Contact-Handled Low-Level Mixed Waste in Large Containers (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
HAPL	OTHER CYL	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
		Physical: SP EL LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
		Hazardous: TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
		Radiological: FP BETA-GAMMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
KAPL_SHIPYDS	LEC	Total Volume	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	657.0
		Physical: SH LEAD	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	657.0
		Hazardous: TC MET	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	657.0
		Radiological: FP BETA-GAMMA	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	650.4
		PU-238/PU-239	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.3
		VOLATILE RAD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.3
WHC_GROUT	BOX 500-1000	Total Volume	0.0	25.6	0.0	0.0	0.0	25.6	0.0	0.0	0.0	25.6	0.0	0.0	0.0	25.6	0.0	179.3
		Physical: D-IN CONS MTL	0.0	23.1	0.0	0.0	0.0	23.1	0.0	0.0	0.0	23.0	0.0	0.0	0.0	23.1	0.0	115.2
		D IN OTH MTL	0.0	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	6.4
		IN ORG LQ/SLG	0.0	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	6.4
		Hazardous: CORR	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	32.0
		SPENT SOLV	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	32.0
		TC MET	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	32.0
		TC ORG	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	6.4	0.0	32.0
		Radiological: FP BETA-GAMMA	0.0	25.6	0.0	0.0	0.0	25.6	0.0	0.0	0.0	25.6	0.0	0.0	0.0	25.6	0.0	128.0
		PU-238/PU-239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
PUREX TUNNEL	OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0	71.0	0.0	0.0	0.0	0.0	142.0
		Physical: SP EL LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous: TC MET	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological: FP BETA-GAMMA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-1. Summary of Forecast Greater Than Category III Waste. (Page 1 of 2)

Summary of Greater Than Category III Waste

Waste Generator	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
CH LLW GTCIII																
TWHC_202A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.3	849.9	1,416.4	2,549.6	3,399.4	5,382.4	7,365.4	7,082.2
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.3	849.9	1,416.4	2,549.6	3,399.4	5,382.4	7,365.4	7,082.2
CH LLMW GTCIII																
PAST_PRAC_REM	0.0	0.0	0.0	0.0	30.6	30.6	91.8	45.9	15.3	107.1	137.7	91.8	61.2	61.2	61.2	76.5
PNL	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PORTSMOUTH	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_222S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_242T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_222S	0.0	2.1	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
WHC_SURPLS_FAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	28.3	28.3	85.0	85.0	141.6	141.6	141.6
Subtotal	48.1	2.1	2.1	2.3	32.9	32.9	94.1	48.2	45.9	137.7	168.3	179.1	148.5	205.1	205.1	220.4
RH LLW GTCIII																
PNL	23.5	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
TPNL_324	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_202A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.3	849.9	1,416.4	2,549.6	3,399.4	5,382.4	7,365.4	7,082.2
Subtotal	23.5	0.8	0.3	0.3	0.3	0.3	0.3	0.3	283.6	850.2	1,416.7	2,549.9	3,399.7	5,382.7	7,365.7	7,082.5
RH LLMW GTCIII																
PNL	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_221T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_222S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_242A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_242S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TWHC_242T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	28.3	28.3	85.0	85.0	141.6	141.6	141.6
Subtotal	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	28.3	28.3	85.0	85.0	141.6	141.6	141.6
Total	85.8	2.9	2.4	2.6	33.2	33.2	94.4	48.5	641.1	1,866.1	3,029.7	5,363.6	7,032.6	11,111.8	15,077.8	14,526.7

Table C.4-1. Summary of Forecast Greater Than Category III Waste. (Continued Page 2 of 2)

Summary of Greater Than Category III Waste (Continued)

Waste Generator	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
CH LLW GTCIII																
TWHC_202A	0.0	0.0	0.0	0.0	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	0.0	2,384.1
WHC_SURPLS_FAC	6,515.6	2,266.3	1,416.4	708.2	708.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39,943.3
Subtotal	6,515.6	2,266.3	1,416.4	708.2	946.6	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	0.0	42,327.4
CH LLMW GTCIII																
PAST_PRAC_REM	76.5	76.5	76.5	61.2	61.2	61.2	61.2	45.9	45.9	30.6	30.6	15.3	15.3	15.3	0.0	1,483.9
PNL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1
PORTSMOUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.0
TWHC_221T	0.0	0.0	0.0	0.0	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	0.0	1,812.8
TWHC_222S	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	5.0
TWHC_242T	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0	34.0
WHC_222S	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	68.6
WHC_SURPLS_FAC	141.6	56.7	28.3	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	923.3
Subtotal	220.4	135.5	107.1	77.7	251.5	248.7	248.7	233.4	233.4	218.1	218.1	202.8	202.8	202.8	2.3	4,375.7
RH LLW GTCIII																
PNL	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	33.0
TPNL_324	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	4.0
TWHC_202A	0.0	0.0	0.0	0.0	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	0.0	1,055.0
WHC_SURPLS_FAC	6,515.6	2,266.3	1,416.4	708.2	708.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39,943.3
Subtotal	6,515.9	2,266.6	1,416.7	708.5	814.4	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	0.3	41,035.3
RH LLMW GTCIII																
PNL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2
TWHC_221T	0.0	0.0	0.0	0.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	0.0	453.2
TWHC_222S	0.0	0.0	0.0	0.0	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	0.0	107.4
TWHC_242A	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	22.0
TWHC_242S	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	22.0
TWHC_242T	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	12.0
WHC_SURPLS_FAC	141.6	56.7	28.3	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	923.3
Subtotal	141.6	56.7	28.3	14.2	64.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	0.0	1,554.1
Total	13,393.5	4,725.1	2,968.5	1,508.6	2,076.9	654.9	654.9	639.6	639.6	624.3	624.3	609.0	609.0	609.0	2.6	89,292.4

Table C.4-2. Forecast Remote-Handled Low Level Mixed Waste Greater Than Category III (Page 1 of 8)

Forecast Remote-Handled Low-Level Mixed Waste Greater Than Category III

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
PNL	55 GAL DRUM	Total Volume	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_222S	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB < 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB > = 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		REAC	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC PEST	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB < 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB > = 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		REAC	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC PEST	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SWB	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Remote-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
		IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB < 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB >= 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		REAC	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC PEST	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242A	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242S	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_SURPLS_	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	28.3	28.3	85.0	85.0	141.6	141.6	141.6	141.6	56.7	28.3
		Physical: D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.5	8.5	14.2	14.2	14.2	14.2	5.7	2.8
		D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.5	8.5	14.2	14.2	14.2	14.2	5.7	2.8
		D-ORG COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.3	4.3	7.1	7.1	7.1	7.1	2.8	1.4
		D-ORG NON COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.3	4.3	7.1	7.1	7.1	7.1	2.8	1.4
		ORG PART	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	19.8	19.8	59.5	59.5	99.1	99.1	99.1	99.1	39.7	19.8
		Hazardous: ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	3.8	3.8	6.4	6.4	6.4	6.4	2.6	1.3
		CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	11.3	11.3	34.0	34.0	56.6	56.6	56.6	56.6	22.7	11.3

Table C.4-2. Forecast Remote-Handled Low Level Mixed Waste Greater Than Category III (Continued Page 3 of 8)

Forecast Remote-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
		IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	7.7	7.7	12.7	12.7	12.7	12.7	5.1	2.5
		SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.4	0.7	0.7	0.7	0.7	0.3	0.1
		TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	12.9	12.9	38.7	38.7	64.4	64.4	64.4	64.4	25.8	12.9
		TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.4	0.7	0.7	0.7	0.7	0.3	0.1
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-2. Forecast Remote-Handled Low Level Mixed Waste Greater Than Category III (Continued Page 4 of 8)

Forecast Remote-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
		IGN	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	2.8
		OTHER	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	5.3
		PCB < 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		PCB > = 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		REAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		SPENT SOLV	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.5
		TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		TC ORG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		TC PEST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242A	4X4X8 BOX	Total Volume	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.2
		Physical: D-IN OTH MTL	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.2
		Hazardous: OTHER	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.2
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	19.8
		Physical: D-IN OTH MTL	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	19.8
		Hazardous: OTHER	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	19.8
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242S	4X4X8 BOX	Total Volume	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.2
		Physical: D-IN OTH MTL	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.2
		Hazardous: OTHER	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	2.2
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	19.8
		Physical: D-IN OTH MTL	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	19.8
		Hazardous: OTHER	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	19.8
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242T	4X4X8 BOX	Total Volume	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.2
		Physical: D-IN OTH MTL	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.2
		Hazardous: OTHER	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.2
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	10.8
		Physical: D-IN OTH MTL	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	10.8
		Hazardous: OTHER	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	10.8
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_SURPLS_	55 GAL DRUM	Total Volume	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	923.3
		Physical: D-IN CONS MTL	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.3
		D-IN OTH MTL	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.3
		D-ORG COMP	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2
		D-ORG NON COMP	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2
		ORG PART	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	646.3
	Hazardous: ACUTELY HAZ		0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.5
		CORR	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	369.3

Table C.4-2. Forecast Remote-Handled Low Level Mixed Waste Greater Than Category III (Continued Page 5 of 8)

Forecast Remote-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
PNL	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	0.0	226.6
		Physical: D-IN OTH MTL	0.0	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	0.0	226.6
		Hazardous: SPENT SOLV	0.0	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	0.0	226.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	0.0	226.6
		Physical: D-IN OTH MTL	0.0	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	0.0	226.6
		Hazardous: SPENT SOLV	0.0	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	0.0	226.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_222S	55 GAL DRUM	Total Volume	0.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0	35.5
		Physical: D-IN OTH MTL	0.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0	35.5
		Hazardous: ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		IGN	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	8.7
		OTHER	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	16.5
		PCB < 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		PCB >= 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		REAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
		SPENT SOLV	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	7.8
		TC MET	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.1
		TC ORG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
		TC PEST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	0.0	60.5
		Physical: D-IN OTH MTL	0.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	0.0	60.5
		Hazardous: ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		IGN	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	14.8
		OTHER	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0	28.1
		PCB < 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		PCB >= 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		REAC	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.6
		SPENT SOLV	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	13.3
		TC MET	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	1.8
		TC ORG	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.6
		TC PEST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SWB	Total Volume	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	11.3
		Physical: D-HET FILTERS	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	11.3
		Hazardous: ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

Table C.4-2. Forecast Remote-Handled Low Level Mixed Waste Greater Than Category III (Continued Page 6 of 8)

Forecast Remote-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
		IGN	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.1
		SPENT SOLV	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
		TC MET	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	420.1
		TC ORG	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-2. Forecast Remote-Handled Low Level Mixed Waste Greater Than Category III (Continued Page 7 of 8)

Forecast Remote-Handled Low-Level Waste Greater Than Category III

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
PNL	55 GAL DRUM	Total Volume		23.5	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		Physical:	D-HET FILTERS	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN CONS MTL	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	NA	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			D-ORG COMP	NA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-ORG NON COMP	NA	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		Radiological:	FP BETA-GAMMA	NA	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TPNL_324	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_SURPLS_	OTHER CYL	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.3	849.9	1,416.4	2,549.6	3,399.4	5,382.4	7,365.4	7,082.2	6,515.6
		Physical:	D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	85.0	141.6	255.0	339.9	538.2	736.5	708.2	651.6
			D-IN OTH	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	85.0	141.6	255.0	339.9	538.2	736.5	708.2	651.6
			IN ORG LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	340.0	566.6	1,019.8	1,359.8	2,153.0	2,946.2	2,832.9	2,606.2
			ORG ABS LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	340.0	566.6	1,019.8	1,359.8	2,153.0	2,946.2	2,832.9	2,606.2
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-2. Forecast Remote-Handled Low Level Mixed Waste Greater Than Category III (Continued Page 8 of 8)

Forecast Remote-Handled Low-Level Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
PNL	55 GAL DRUM	Total Volume	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	33.0
		Physical: D-HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
		D-IN CONS MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
		D-IN OTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
		D-IN OTH MTL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.9
		D-ORG COMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
		D-ORG NON COMP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.9
		Radiological: FP BETA-GAMMA	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	9.1
		VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TPNL_324	BOX OTHER	Total Volume	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	4.0
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	4.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	0.0	1,055.0
		Physical: D-IN CONS MTL	0.0	0.0	0.0	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	0.0	664.7
		D-IN OTH MTL	0.0	0.0	0.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	0.0	390.4
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_SURPLS_	OTHER CYL	Total Volume	2,266.3	1,416.4	708.2	708.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39,943.3
		Physical: D-IN CONS MTL	226.6	141.6	70.8	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,994.3
		D-IN OTH	226.6	141.6	70.8	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,994.3
		IN ORG LQ/SLG	906.5	566.6	283.3	283.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,977.3
		ORG ABS LQ/SLG	906.5	566.6	283.3	283.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,977.3
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-4. Forecast Contact-Handled Low Level Mixed Waste Greater Than Category III. (Page 1 of 6)

Forecast Contact-Handled Low-Level Mixed Waste Greater Than Category III

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
PAST_PRAC_REM	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	30.6	30.6	91.8	45.9	15.3	107.1	137.7	91.8	61.2	61.2
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.3	0.3	0.9	0.5	0.2	1.1	1.4	0.9	0.6	0.6
		SP SOILS	NA	0.0	0.0	0.0	30.3	30.3	90.9	45.4	15.1	106.0	136.3	90.9	60.6	60.6
		Hazardous: CORR	NA	0.0	0.0	0.0	15.1	15.1	45.4	22.7	7.6	53.0	68.2	45.4	30.3	30.3
		TC MET	NA	0.0	0.0	0.0	15.5	15.5	46.4	23.2	7.7	54.1	69.5	46.4	30.9	30.9
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PNL	55 GAL DRUM	Total Volume	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PORTSMOUTH	55 GAL DRUM	Total Volume	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_222S	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB < 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB >= 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		REAC	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC PEST	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous: OTHER	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-4. Forecast Contact-Handled Low Level Mixed Waste Greater Than Category III. (Continued Page 2 of 6)

Forecast Contact-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
WHC_221S	55 GAL DRUM	Total Volume		0.0	2.1	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
		Physical:	D-HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN LEAD MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D ORG COMP	NA	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
			D-ORG NON COMP	NA	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
			IN ORG LQ/SLG	NA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
			ORG ABS LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SP LAB/CONT LQ	NA	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Hazardous:	ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			FILLER/ABSORB	NA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
			IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	NA	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
			TC MET	NA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			WC	NA	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			WP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			WT	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		Radiological:	FP BETA-GAMMA	NA	2.1	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
			PU-238/PU-239	NA	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
			URANIUM	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	28.3	28.3	85.0	85.0	141.6
		Physical:	D HET FILTERS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.4	0.7
			D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2	4.2	12.8	12.8	21.2
			D-IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	2.1	2.1	3.5
			D-ORG COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.3	4.3	7.1
			D ORG NON COMP	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	6.8	6.8	11.3
			ORG ABS LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7	17.0	17.0	28.3
			ORG PART	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	5.5	5.5	9.2
			SP EL LEAD	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	2.1	2.1	3.5
			SP LAB/CONT LQ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1	7.1	21.3	21.3	35.4
			SP SOILS	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2	4.2	12.8	12.8	21.2
		Hazardous:	ACUTELY HAZ	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.4	4.4	7.2
			CORR	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9	9.9	29.7	29.7	49.5
			IGN	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	12.9	12.9	21.4
			PCB < 50	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	2.1	2.1	3.5
			SPENT SOLV	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
			TC MET	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	11.7	11.7	35.2	35.2	58.6
			TC ORG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.6	0.6	1.1
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-4. Forecast Contact-Handled Low Level Mixed Waste Greater Than Category III. (Continued Page 3 of 6)

Forecast Contact-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
PAST_PRAC_REM	55 GAL DRUM	Total Volume	61.2	76.5	76.5	76.5	76.5	61.2	61.2	61.2	61.2	45.9	45.9	30.6	30.6	15.3
		Physical: D-IN OTH MTL	0.6	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.3	0.3	0.2
		SP SOILS	60.6	75.7	75.7	75.7	75.7	60.6	60.6	60.6	60.6	45.4	45.4	30.3	30.3	15.1
		Hazardous: CORR	30.3	37.9	37.9	37.9	37.9	30.3	30.3	30.3	30.3	22.7	22.7	15.1	15.1	7.6
		TC MET	30.9	38.6	38.6	38.6	38.6	30.9	30.9	30.9	30.9	23.2	23.2	15.5	15.5	7.7
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PNL	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PORTSMOUTH	55 GAL DRUM	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
		Hazardous: SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
		Hazardous: SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_222S	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
		Hazardous: ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IGN	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		PCB < 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		PCB > = 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		REAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		SPENT SOLV	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		TC MET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC ORG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TC PEST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TWHC_242T	4X4X8 BOX	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Hazardous: OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		Hazardous: OTHER	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-4. Forecast Contact-Handled Low Level Mixed Waste Greater Than Category III. (Continued Page 4 of 6)

Forecast Contact-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
WHC_222S	55 GAL DRUM	Total Volume		2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
		Physical:	D-HET FILTERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN LEAD MTL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-ORG COMP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
			D-ORG NON COMP	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
			IN ORG LQ/SLG	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
			ORG ABS LQ/SLG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SP LAB/CONT LQ	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Hazardous:	ACUTELY HAZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			CORR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			FILTER/ABSORB	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
			IGN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
			TC MET	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
			TC ORG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			WC	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			WP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			WT	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		Radiological:	FP BETA-GAMMA	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
			PU-238/PU-239	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
			URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			VOLATILE RAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume		141.6	141.6	141.6	56.7	28.3	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical:	D-HET FILTERS	0.7	0.7	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN CONS MTL	21.2	21.2	21.2	8.5	4.2	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-IN OTH MTL	3.5	3.5	3.5	1.4	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-ORG COMP	7.1	7.1	7.1	2.8	1.4	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			D-ORG NON COMP	11.3	11.3	11.3	4.5	2.3	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			ORG ABS LQ/SLG	28.3	28.3	28.3	11.3	5.7	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			ORG PART	9.2	9.2	9.2	3.7	1.8	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SP EL LEAD	3.5	3.5	3.5	1.4	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SP LAB/CONT LQ	35.4	35.4	35.4	14.2	7.1	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SP SOILS	21.2	21.2	21.2	8.5	4.2	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Hazardous:	ACUTELY HAZ	7.2	7.2	7.2	2.9	1.4	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			CORR	49.5	49.5	49.5	19.8	9.9	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			IGN	21.4	21.4	21.4	8.6	4.3	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			PCB < 50	3.5	3.5	3.5	1.4	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			SPENT SOLV	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC MET	58.6	58.6	58.6	23.5	11.7	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			TC ORG	1.1	1.1	1.1	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-4. Forecast Contact-Handled Low Level Mixed Waste Greater Than Category III. (Continued Page 5 of 6)

Forecast Contact-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2021	2022	2023	Total
PAST_PRAC_REM	55 GAL DRUM	Total Volume	15.3	15.3	0.0	1,483.9
		Physical: D-IN OTH MTL	0.2	0.2	0.0	14.8
		SP SOILS	15.1	15.1	0.0	1,469.0
		Hazardous: CORR	7.6	7.6	0.0	734.5
		TC MET	7.7	7.7	0.0	749.3
		Radiological:	NA	NA	NA	NA
PNL	55 GAL DRUM	Total Volume	0.0	0.0	0.0	14.1
		Physical:	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA
PORTSMOUTH	55 GAL DRUM	Total Volume	0.0	0.0	0.0	34.0
		Physical:	NA	NA	NA	NA
		Hazardous:	NA	NA	NA	NA
		Radiological:	NA	NA	NA	NA
TWHC_221T	4X4X8 BOX	Total Volume	90.6	90.6	0.0	906.4
		Physical: D-IN OTH MTL	90.6	90.6	0.0	906.4
		Hazardous: SPENT SOLV	90.6	90.6	0.0	906.4
		Radiological:	NA	NA	NA	NA
	BOX OTHER	Total Volume	90.6	90.6	0.0	906.4
		Physical: D-IN OTH MTL	90.6	90.6	0.0	906.4
		Hazardous: SPENT SOLV	90.6	90.6	0.0	906.4
		Radiological:	NA	NA	NA	NA
TWHC_222S	BOX OTHER	Total Volume	0.5	0.5	0.0	5.0
		Physical: D-IN OTH MTL	0.5	0.5	0.0	5.0
		Hazardous: ACUTELY HAZ	0.0	0.0	0.0	0.0
		IGN	0.1	0.1	0.0	1.2
		OTHER	0.2	0.2	0.0	2.3
		PCB < 50	0.0	0.0	0.0	0.0
		PCB > = 50	0.0	0.0	0.0	0.0
		REAC	0.0	0.0	0.0	0.1
		SPENT SOLV	0.1	0.1	0.0	1.1
		TC MET	0.0	0.0	0.0	0.2
		TC ORG	0.0	0.0	0.0	0.1
		TC PEST	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA
TWHC_242T	4X4X8 BOX	Total Volume	0.4	0.4	0.0	3.7
		Physical: D-IN OTH MTL	0.4	0.4	0.0	3.7
		Hazardous: OTHER	0.4	0.4	0.0	3.7
		Radiological:	NA	NA	NA	NA
	BOX OTHER	Total Volume	3.0	3.0	0.0	30.3
		Physical: D-IN OTH MTL	3.0	3.0	0.0	30.3
		Hazardous: OTHER	3.0	3.0	0.0	30.3
		Radiological:	NA	NA	NA	NA

Table C.4-4. Forecast Contact-Handled Low Level Mixed Waste Greater Than Category III. (Continued Page 6 of 6)

Forecast Contact-Handled Low-Level Mixed Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic		Volume (m^3) Per Year 2021	2022	2023	Total
WHC_222S	55 GAL DRUM	Total Volume		2.3	2.3	2.3	68.6
		Physical:	D-HET FILTERS	0.0	0.0	0.0	0.7
			D-IN LEAD MTL	0.0	0.0	0.0	0.3
			D-ORG COMP	1.0	1.0	1.0	30.2
			D ORG NON COMP	0.7	0.7	0.7	19.6
			IN ORG LQ/SLG	0.4	0.4	0.4	12.3
			ORG ABS LQ/SLG	0.0	0.0	0.0	0.7
			SP LAB/CONT LQ	0.2	0.2	0.2	4.8
		Hazardous:	ACUTELY HAZ	0.0	0.0	0.0	0.6
			CORR	0.0	0.0	0.0	0.7
			FILLER/ABSORB	0.4	0.4	0.4	12.3
			IGN	0.0	0.0	0.0	1.4
			SPENT SOLV	1.3	1.3	1.3	40.2
			TC MET	0.2	0.2	0.2	6.8
			TC ORG	0.0	0.0	0.0	0.4
			WC	0.1	0.1	0.1	1.6
			WP	0.0	0.0	0.0	1.2
			WT	0.1	0.1	0.1	3.5
		Radiological:	FP BETA-GAMMA	2.3	2.3	2.3	67.9
			PU-238/PU-239	0.2	0.2	0.2	5.7
			URANIUM	0.0	0.0	0.0	1.2
			VOLATILE RAD	0.0	0.0	0.0	0.6
WHC_SURPLS_FAC	55 GAL DRUM	Total Volume		0.0	0.0	0.0	923.3
		Physical:	D-HET FILTERS	0.0	0.0	0.0	4.6
			D-IN CONS MTL	0.0	0.0	0.0	138.5
			D-IN OTH MTL	0.0	0.0	0.0	23.1
			D-ORG COMP	0.0	0.0	0.0	46.2
			D-ORG NON COMP	0.0	0.0	0.0	73.9
			ORG ABS LQ/SLG	0.0	0.0	0.0	184.7
			ORG PART	0.0	0.0	0.0	60.0
			SP EL LEAD	0.0	0.0	0.0	23.1
			SP LAB/CONT LQ	0.0	0.0	0.0	230.8
			SP SOILS	0.0	0.0	0.0	138.5
		Hazardous:	ACUTELY HAZ	0.0	0.0	0.0	47.3
			CORR	0.0	0.0	0.0	322.9
			IGN	0.0	0.0	0.0	139.8
			PCB < 50	0.0	0.0	0.0	23.1
			SPENT SOLV	0.0	0.0	0.0	1.2
			TC MET	0.0	0.0	0.0	382.2
			TC ORG	0.0	0.0	0.0	6.9
		Radiological:		NA	NA	NA	NA

Table C.4-5. Forecast Contact-Handled Low Level Waste Greater Than Category III. (Page 1 of 2)

Forecast Contact-Handled Low-Level Waste Greater Than Category III

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year HELD	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Physical: D IN OTH MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_SURPLS_FAC	OTHER DRUMS	Total Volume	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.3	849.9	1,416.4	2,549.6	3,399.4	5,382.4	7,365.4	7,082.2
		Physical: D-IN CONS MTL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	85.0	141.6	255.0	339.9	538.2	736.5	708.2
		D-IN OTH	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	85.0	141.6	255.0	339.9	538.2	736.5	708.2
		IN ORG LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	340.0	566.6	1,019.8	1,359.8	2,153.0	2,946.2	2,832.9
		ORG ABS LQ/SLG	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	340.0	566.6	1,019.8	1,359.8	2,153.0	2,946.2	2,832.9
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4-5. Forecast Contact-Handled Low Level Waste Greater Than Category III. (Continued Page 2 of 2)

Forecast Contact-Handled Low-Level Waste Greater Than Category III (Continued)

Waste Generator	Container Category	Waste Characteristic	Volume (m^3) Per Year 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
TWHC_202A	BOX OTHER	Total Volume	0.0	0.0	0.0	0.0	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	0.0	2,384.1
		Physical: D-IN OTH MTL	0.0	0.0	0.0	0.0	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	0.0	2,384.1
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WHC_SURPLS_FAC	OTHER DRUMS	Total Volume	6,515.6	2,266.3	1,416.4	708.2	708.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39,943.3
		Physical: D IN CONS MTL	651.6	226.6	141.6	70.8	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,994.3
		D IN OTH	651.6	226.6	141.6	70.8	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,994.3
		IN ORG LQ/SLG	2,606.2	906.5	566.6	283.3	283.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,977.3
		ORG ABS LQ/SLG	2,606.2	906.5	566.6	283.3	283.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,977.3
		Radiological:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table C.5-1. Hanford Unirradiated Uranium Inventory.

Uranium Material	Type U	$\%U^{235}$	Uranium (MTU)	Comments
Fuel Assemblies	Natural	0.71	54.8	U Metal, Zircaloy-2 Cladding[1]
	Enriched	0.95	488	U Metal, Zircaloy-2 Cladding[1]
	Enriched	1.25	102.2	U Metal, Zircaloy-2 Cladding[1]
	Natural	0.71	11.3	U Metal, Zircaloy-2 Contaminated Cladding[2]
	Enriched	0.95	123.7	U Metal, Zircaloy-2 Contaminated Cladding[2]
	Enriched	1.25	39.2	U Metal, Zircaloy-2 Contaminated Cladding[1,2]
Unfinished Fuel	Natural	0.71	8.7	U Metal, Zircaloy-2 Cladding
	Enriched	0.95	113.4	U Metal, Zircaloy-2 Cladding[1]
	Enriched	1.25	14.6	U Metal, Zircaloy-2 Cladding[1]
Metal Billets	Natural	0.71	79.9	U Metal
	Enriched	0.95	626.0	U Metal
	Enriched	1.25	233.6	U Metal
Trioxide Powder	Depleted	0.27 /0.30	104.0	UO_3, Packaged in Drums[3]
	Enriched	0.84 -0.9	677	Packaged in T-Hoppers
Dioxide Pellets & Powder	Depleted	0.22	2.13	UO_2, Packaged in Cans, Pins, Assemblies & Drums
	Natural	0.71	1.27	UO_2, Packaged in Cans, Pins, Assemblies & Drums
Metal Slabs	Depleted	0.20	21.16	U Metal Packaged in boxes
Thorium Oxide	Natural		0.47	ThO_2 Packaged in Buckets

[1] Existing containers are not certified for shipment. Repackaging or over-packing in a certified configuration will be required for shipment off-site.
[2] Radioactive contamination on surface is removable, however, Hanford does not presently have capability to decontaminate the fuel assemblies.
[3] Existing drums exceed weight limits. Repackaging or over-packing will be required for shipment.

Table C.5-2. Composition and Quantity of Fuel Assemblies.

Fuel Category	^{235}U Enrichment Outer-Inner	Boxes	Assemblies	Total U Weight (Kg)
B07X07E	0.71-0.71	74	2,576	60,293
B07X07A	0.71-0.71	6	180	3,736
B70X07C	0.71-0.71	4	136	2,103
B09X09E	0.95-0.95	362	12,734	298,049
B09X09S	0.95-0.95	258	9,115	200,526
B09X09A	0.95-0.95	120	4,120	85,518
B09X09R	0.95-0.95	17	480	9,439
B09X09C	0.95-0.95	36	1,189	18,392
A12N09M	1.25-0.95	143	4,917	81,898
A12N09T	1.25-0.95	95	3,098	48,299
A12N09F	1.25-0.95	12	297	3,501
B10X09M	1.00-0.95	6	192	3,589
B11X09M	1.10-0.95	6	190	3,552
B15X09M	1.15-0.95	5	141	2,636
	Totals	1,144	39,365	821,531

Table C.5-3. Composition and Quantity of N Reactor Fuel Assemblies.

Fuel Category	^{235}U Enrichment Outer-Inner	Boxes	Assemblies	Total U Weight (Kg)
B07X07E	0.71-0.71	12	402	9.409
B70X07A	0.71-0.71	1	18	374
B70X07C	0.71-0.71	3	100	1.547
B09X09E	0.95-0.95	53	1.880	44.003
B09X09S	0.95-0.95	38	1.360	29.919
B09X09A	0.95-0.95	55	1.937	40.206
B09X09R	0.95-0.95	8	269	5.289
B09X09C	0.95-0.95	9	278	4.300
A12N09M	1.25-0.95	46	1.635	27.233
A12N09T	1.25-0.95	21	656	10.227
A12N09F	1.25-0.95	5	147	1.733
Totals		251	8.682	174.240

Table C.5-4. Composition and Quantity of Unfinished Fuel Components.

Fuel Category		235U Enrichment	Boxes	Tubes	Total U Weight (Kg)
Outer Elements	A12	1.25	9	171	1,905
	A12T	1.25	4	139	1,449
	A12F	1.25	39	1,430	11,280
	B09E	0.95	63	2,182	34,740
	B09S	0.95	13	455	6,807
	B09A	0.95	59	2,174	30,688
	B09C	0.95	9	328	3,450
	B07E	0.71	1	16	255
	B07A	0.71	11	370	5,223
	Total		205	7,265	95,797
Inner Elements	N09M	0.95	22	1,036	5,714
	N09T	0.95	16	896	4,625
	N09F	0.95	15	904	3,526
	X09E	0.95	24	1,023	7,656
	X09S	0.95	9	480	3,379
	X09A	0.95	30	1,591	10,565
	X09C	0.95	9	449	2,222
	X07E	0.71	3	112	838
	X07A	0.71	6	356	2,364
	Total		134	6,847	40,890

Table C.5-5. Chemical Composition of N Reactor Fuel Components.

Element	Uranium Alloy 601*	Zircaloy-2*	Braze Filler*
Aluminum	700-900	75	154
Beryllium	10	--	4.75-5.25 wt%
Tin	--	1.20-1.70 wt%	1.14-1.70 wt%
Iron	300-400	0.7-0.20 wt%	0.06-0.21 wt%
Chromium	65	0.05-0.15 wt%	0.05-0.15 wt%
Nickel	100	0.03-0.08 wt%	0.28-0.08 wt%
Carbon	365-735	275	500
Uranium	Balance	2.5	4
Zirconium	65	Balance	Balance
Boron	0.25	0.5	0.5
Cadmium	0.25	0.5	0.5
Cobalt	--	10	20
Copper	75	50	60
Hafnium	--	200	200
Hydrogen	2.0	25	50
Lead	--	100	130
Magnesium	25	20	60
Manganese	25	50	60
Molybdenum	--	50	50
Nitrogen	75	80	200
Silicon	124	100	250
Titanium	--	50	20
Tungsten	--	50	100
Vanadium	--	50	50
Oxygen	--	--	2,300

* Concentrations given in ppm maximum or ppm range unless shown as a weight percent range.

Table C.5-6. UO_3 Radionuclide Specifications.

Chemical or Property	Specification
Total U %	82.40
^{238}U%	99.056
^{236}U%	0.069
^{235}U%	0.861
^{234}U%	0.009
^{232}U	<0.004 parts per billion (ppb) ^{235}U
Actinides	
Plutonium	<10 ppb uranium
Thorium	<750 parts per million (ppm) uranium
Fission Products	
$^{97}ZrNb$	<15 μCi/lb uranium
^{103}Ru and $^{106}RuRh$	<50 μCi/lb uranium
All others excluding ^{99}Tc	<2 μCi/lb uranium
^{99}Tc	0.5-5 ppm uranium

Table C.5-7. Chemical Analysis of Depleted Uranium Trioxide.

Chemical/Property	Value
Uranium (weight percent)	81.32
U Isotopic (weight percent)	
^{234}U	0.003
^{235}U	0.28
^{236}U	0.016
^{238}U	99.700
Impurities (ppm U)	
Boron	<2
Cadmium	<1
Chromium	<10
Iron	<20
Sodium	<10
Nickel	<10
Plutonium	<0.005
Thorium	<5
Sulfur	2491
Neptunium	0.12
Technetium	8
Gamma Energy Analysis (GEA) (μCi/lb)	
$^{103}Ru^{106}Rh$	<2
$^{95}ZrNb$	<2
Other GEA	<2

Table C.5-8. Hanford Uranium Inventory-Proposed Sales.

Uranium Material	Uranium Type	% U^{235}	Uranium (MTU)	Comments
Metal Billets	Natural	0.71	79.9	Packaged in Boxes[1]
	Enriched	0.95	626	Packaged in Boxes[1]
	Enriched	1.25	233.6	Packaged in Boxes[1]
Trioxide Powder	Enriched	0.84-0.9	677	Packaged in T-Hoppers

[1] Existing containers are not certified for shipment. Repackaging or over-packing in a certified configuration will be required for shipment.

Table C.5-9. Composition of Uranium Metal Billets.

Fuel Category	235U All Enrichment	Boxes	Billets	Total Weight U (Kg)
B09-Outer	0.95	817	3.242	625,995
A12-Inner	1.25	318	1.255	233,606
X07-Inner	0.71	47	200	25,334
B07-Outer	0.71	76	282	54,618
Total		1.258	4,979	939,553

Table C.5-10. Location of Metal Billets

Location	Boxes	Billets	Weight U (Kg)
3712	921	3,683	695,101
303-B	178	693	133,407
303-G	159	603	111,044
Totals	1,258	4,979	939,552

Table C.5-11. Miscellaneous Sources.

JNIQUE MATERIAL MANAGEMENT ISSUES IN PNL	
MATERIAL TYPE	VOLUME (m^3)
Irradiated Spent Fuel	3.0
Borosilicate Glass Canisters	4.7
High Dose Rate LLW and RMW (solid material)	7.3
Neptunium Oxide Powder	0.2
Non-Fuel Bearing Reactor Components	0.2
Total	15

Table C.5-12. Remote-Handled Mixed Wastes Included in Miscellaneous Sources.

WASTE STREAM	VOLUME (m^3)	SOURCE/CONTENT	RAD-CAT*	CONTAMINANTS
Dispersible Debris	2.5	Cell Floor - Tools, equipment, dust, leaks from process lines	RH-TRU	Cadmium, Chromium, Lead, Silver, Selenium ~1.5M Ci
Dried Melter Feed	0.16	Residual removed from process equipment	RH-TRU	Chromium, Lead
Liquid Metal Seal	<0.20	Melter - low temperature Alloy	Cat. 3 LLW	Cadmium, Lead
Oil Absorption Material	<0.20	Absorbed window oil on clay	Cat. 3 LLW	Oil

* Preliminary categories assumed from available data.

Table C.5-13. Volumes of Wastes Available for Transfer to Interim Storage by Calendar Year.

WASTE STREAM	m^3/YEAR 1994	1995	1996	1997	1998	1999	2000	TOTAL
Dispersible Debris	0.79	0.24	0.50	0.00	0.32	0.00	0.03	1.88
Dried Melter Feed	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.17
Liquid Metal Seal	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Oil Absorption Material	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Totals	4.15	0.24	0.50	0.00	0.32	0.00	0.03	5.24
Cumulative Totals	1.36	1.60	2.10	2.10	2.42	2.42	2.45	
% Collected	56%	65%	86%	86%	99%	99%	100%	

Table C.5-14. First Dispersible Debris Sample Composition (concentration in ppm).

Al	B	Ba	Ca	Cd	Ce	Cr	Cu	Fe	K
15600	870	874	208720	36	74	2505	2906	81011	770

La	Mg	Mn	Mo	Na	Nd	Ni	P	Pb	Ru
142	3736	567	2134	4037	169	14030	2623	1850	54

Si	Sr	Ti	U	Zn	Zr	Cl-	F-	Br-	PO4
844	591	233	4446	704	170	1200	300	30	<45

SO4	Nitrite	Nitrate
4400	200	200

Table C.6-1. Cesium/Strontium Capsule Inventory Summary. (Pajunen 1994)

Material Type	Cesium Capsules	Strontium Capsules	Total
Number	1338	610	1948
Total Volume (m^3)	2.38E+00	1.12E+00	3.50E+00
Density (g/cc), with voids	4.49E+00	3.82E+00	
Total Mass (MT)	1.07E+01	4.29E+00	1.50E+01
Chemical Constituents (Kg)			
Stored Material			
Ba	2.34E+02		2.34E+02
Ca	2.74E+03		2.74E+03
Sr		4.58E+02	4.58E+02
Zr		9.19E+01	9.19E+01
Cl	7.69E+02		7.69E+02
F		2.32E+02	2.32E+02
Cladding Material			
Hastelloy		1.71E+03	1.71E+03
Stainless Steel	6.96E+03	1.80E+03	8.76E+03
Other Associated Materials (Kg)			
Radionuclides (Curies)	Approximate Decay Date:		Jan-96
Sr-90		2.29E+07	2.29E+07
Y-90		2.29E+07	2.29E+07
Cs-134			0.00E+00
Cs-137	5.24E+07		5.24E+07
Ba-137m	4.90E+07		4.90E+07
References	1,2,3,4,5,6	1,2,3,4,5	

Reference Notes:

1. Cladding based on estimates from capsule drawings.
2. CsCl and SrF2 mass estimates from ltr dated 3/2/90, DD Wodrich to JJ Holmes, Hanford Waste Inventories and Baseline Processes (82300-90-DDW-035).
3. Capsule count and radionuclide content based on ltr dated 5/13/92, MD Nogales to KD Boomer, WESF Cesium and Strontium Capsules (7E142-92-MDN-016).
4. Ba and Zr content based on calculated different between original production and decayed inventory.
5. All material in cut capsules assumed not returned to Hanford for disposal. All intact capsules located outside WESF assumed to be returned for disposition.
6. Ba-137m calculated from Cs-137 based on 93.5% of Cs decay via Ba-137m indicated in Table of Isotopes, 6th Ed., 3/68.

Table C.6-2. Weights and Envelope Dimensions of BUSS Cask Components.

Component	Envelope Dimensions (in./cm)	Estimated Weight (lb/kg)
Body & Lifting Attachments	54.25 (137.8) dia, 49.00 (124.5) high	20,500 (9300)
Lid	28.78 (73.1) dia, 12.84 (32.61) high	1,500 (680)
Basket	19.95 (50.67) dia, 22.83 (75.98) high	1,600 (730)
Impact Limiters*	84.66 (215.04) dia, 39.00 (99.06) high	6,000 (2730)
Personnel Barrier		300 (140)
Skid	73.5 (186.7) x 89.6 (227.6) x 13.5 (34.3)	2,700 (1230)
Contents (maximum)		300 (140)
	Estimated Maximum Total Loaded Weight	32,900 (14,950)

* Two impact limiters are required: Envelope dimensions are for one, weight for two.

Table C.6-3. General Information for the BUSS Cask.

Maximum Gross Weight for Certification	32,900 lb (14,927 kg)
Cask Model Number	BUSS R-1
Coolant System	Helium
Coolant Volume	1.0 - 1.3 ft^3 (28.3 - 36.8 L)
Maximum Normal Operating Pressure	50 psi (3.4 atm)

Table C.6-4. Cask Radioactive Material Limits.

Basket	Allowable Cask Type	Maximum Thermal Power Per Capsule (w)	Maximum Total Cask Thermal Power (kw)	Maximum Total Cask Activity (millions of Ci)
16 Hole	Cs	250	4.0	0.85
12 Hole	Cs	333	4.0	0.85
6 Hole	Sr	650	3.9	0.65
4 Hole	Sr	850	3.4	0.56

Table C.6-5. Physical Data and Curie Loading of a Cesium Chloride WESF Capsule.

Capsule Property	Inner Capsule	Outer Capsule
Material Inner Diameter, in. (cm) Outer Diameter, in. (cm) Total Length, in. (cm) Cesium Chloride (CsCl)	316L Stainless Steel 1.978 (5.024) 2.250 (5.715) 19.725 (50.10)	316L Stainless Steel 2.353 (5.977) 2.625 (6.668) 20.775 (52.77)
Quantity, lb (kg)	5.9 (2.7)	
CsCl Chemical Purity, wt%	90 to 95	
^{137}Cs Isotopic Content, %	30.2	
Density, g/cm^3	2.6 (66% of theoretical)	
Maximum Nominal Capsule Activity, Ci of ^{137}Cs	70,000	
Maximum Thermal Power, W	333	
Melting Point,* °F (°C) *Dependent on purity.	1195 (646)	

Note: This data is the original capsule loading data and chemical purities varied. This data is not current for capsules today due to decay.

Table C.6-6. Physical Data and Curie Loading of a Strontium Fluoride WESF Capsule.

Capsule Property	Inner Capsule	Outer Capsule
Material Inner Diameter, in. (cm) Outer Diameter, in. (cm) Total Length, in. (cm)	Hastelloy C-276 2.01 (5.11) 2.25 (5.72) 19.05 (48.4)	316L Stainless Steel 2.39 (6.07) 2.63 (6.68) 20.10 (51.1)
Strontium Fluoride (SrFl)		
Quantity, lb (kg)	6.2 (2.8)	
SrFl Chemical Purity, wt%	95	
^{137}Cs Isotopic Content, %	55	
Density, g/cm^3	2.9 (70% of theoretical)	
Maximum Nominal Capsule Activity, Ci of Cs-137	140,000	
Maximum Thermal Power, W	850	
Melting Point*, °F (°C) *Dependent on purity.	1560 to 2010 (850 to 1100)	

Note: This data is the original capsule loading data and chemical purities varied. This data is not current for capsules today due to decay.