

SECTION 5

**RELEASES FROM SOLID WASTE
MANAGEMENT UNITS**

**MIXED WASTE FACILITY
RCRA/TSCA PERMIT APPLICATION**

PERMA-FIX NORTHWEST RICHLAND, INC.

RICHLAND, WASHINGTON

Mixed Waste Facility

5.0 RELEASES FROM SOLID WASTE MANAGEMENT UNITS [E]

[WAC 173-303-806(4)(a)(xx), WAC 173-303-645, WAC 173-303-646, 40 CFR 270.14(d)]

This section identifies locations at the facility where solid wastes have been or are managed.

5.1 Solid Waste Management Units and Known and Suspected Releases of Dangerous Wastes or Constituents [E-1]

5.1.1 Solid Waste Management Units [E-1a]

Wastes may be stored in Building 20 or in the following container storage areas of Building 13: Rooms SB-02, SB-03, SB-04, SB-05, SB-06, SB-07, SB-08, SB-09, SB-11, MWT-01, MWT-02, MWT-04, WSB-1, WSB-2, WSB-3 and WSB-4.

In addition, treatment equipment and storage tanks are listed in Table 5-1. The container storage areas and the treatment / storage units which have been designated as Constructed and Operational in Table 5-1 are Solid Waste Management Units (SWMUs).

Table 5-1 Treatment Units and Storage Tanks

Unit	Location	Description	Constructed and Operational?
TP-01 Size Reduction and Screening	Building 13, Room SB-06	Enclosed, integrated hoist, shredder and screening assembly	Yes
TP-02 Cutting and Shearing	Building 13	Various hand tools and tools for cutting debris waste	Yes
TP-14 Liquid Treatment	Building 13	Four containers and associated pumps and piping	No
TP-07 Compaction and Macroencapsulation – In-Drum Compactor	Building 13	Upright compactor	Yes
TP-07 Compaction and Macroencapsulation – Super Compactor	Building 13, Room SB-08	Horizontal compactor arm assembly	Yes
TP-10 Extraction Mixing	Building 13	Two barrel-type mixers and associated equipment	No
TT-01 High-Capacity Mixing	Building 13	Two feeders and mixer assemble	No
TT-02 Low-Capacity Mixing	Building 13, Room SB-06	Two feeders and mixer assemble	Yes
TT-03 In-Container Mixing and Metal Stabilization – In-Drum Mixer	Building 13	Upright mixer blade and assembly	Yes

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Unit	Location	Description	Constructed and Operational?
TT-03 In-Container Mixing and Metal Stabilization – Drum Roller	Building 13	Horizontal drum roller stand	Yes
TT-05 Physical Extraction	Building 13	Abrasive blasting spray with collection/recirculating equipment in enclosure	Yes
TT-07 Plasma Arc Furnace	Building 13, Room MWT-02	Small capacity melter and associated off-gas treatment system	Yes
TT-08 Thermal Desorber	Building 13, Room MWT-02	Rotary kiln and associated off-gas treatment system	Yes
TT-09 Mercury Amalgamation – Bulk System	Building 13	Bulk containers, mixer and associated equipment	No
TT-09 Mercury Amalgamation – Bench Scale	Building 13	Small scale containers	Yes
TT-10 Debris Washing – In-Container	Building 13	Upright mixer blade and assembly	No
TT-10 Debris Washing – Multi-Compartment Vat	Building 13	One multi-compartment vat, hoist, discharge liquid drip plate and associated pump	No
TT-13 Vitrification	Building 13, Room MWT-01	Melter and associated off-gas treatment system	No
VT-01 Process Feed Tank	Building 13, Thermal Area	1500 gallon stainless steel tank	No
VT-02 Process Feed Tank	Building 13, Thermal Area	1500 gallon stainless steel tank	No
VT-03 Process Feed Tank	Building 13, Thermal Area	200 gallon stainless steel tank	No

All waste management units listed above accept or will accept the types of waste listed in the facility's Part A application. The waste codes accepted by the SWMUs are limited to those listed in Part A of the application. The SWMUs are located inside Building 13. The location of Building 13 is identified on drawing DWG-SITE-CIVIL-003. Block flow diagrams or equipment drawings are provided in Section 4 or the "Drawing" section of this application.

5.1.2 Releases [E-1b]

There have been no known or suspected significant releases from any of the identified solid waste management units at the facility. There have not been known or suspected significant releases from sources of dangerous or hazardous constituents. Therefore this subsection is not applicable.

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5.2 Corrective Actions Implemented [E-2]

The “Site Hazard Assessment for the Mixed Waste Facility” report prepared by the Jacobs Engineering Group, Inc. for ATG dated January, 2000 concludes that no further action is warranted for the MWF.

The MWF has not conducted, and is not conducting, corrective action under a RCRA Section 3008(h), 7003, or 3013 order, Model Toxics Control Act order, as an independent Model Toxics Control Act cleanup, or under another authority. Therefore this subsection is not applicable.