

**APPLICATION CHECKLIST**

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

**PERMA-FIX NORTHWEST RICHLAND, INC.  
RICHLAND, WASHINGTON**

# Mixed Waste Facility

## Application Checklist

Complete this checklist by providing the facility name and indicating where the listed material has been placed in the application. This is particularly important when the application does not closely follow the outline of the checklist and guidance. Include the completed checklist with the Dangerous Waste Permit application.

Facility Name: Perma-Fix Northwest Richland, Inc.

Date Application Received: \_\_\_\_\_

<b>State of Washington Part B Permit Application Review Checklist for Treatment and Storage in Tanks and Containers</b>		
	Technically Adequate?	Location in Application
<b>A. Part A Form</b>		Section 1
<b>B. Facility Description and General Provisions</b>		Section 2
B-1 General Description		Subsection 2.1
B-1(a) Facility Description		Subsection 2.2
B-1(b) Construction Schedule		Subsection 2.4
B-2 Topographic Map		Subsection 2.5
B-2a General Requirements		Subsection 2.5
B-2b Additional Requirements for Land Disposal Facilities	Not Applicable	Not Applicable
B-3 Seismic Consideration		Subsection 2.6
B-4 Traffic Information		Subsection 2.7
<b>C. Waste Analysis</b>		Section 3
C-1 Chemical, Biological and Physical Analyses		Subsection 3.1

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C-1a	Waste in Piles		Subsection 3.1.1
C-1b	Landfilled Wastes		Subsection 3.1.2
C-1c	Wastes Incinerated and Wastes Used in Performance Tests		Subsection 3.1.3
C-2	Waste Analysis Plan		Subsection 3.2
C-2a	Detailed Chemical, Physical, and/or Biological Analysis		Subsection 3.2.1
C-2a(1)	Parameters and Rationale		Subsection 3.2.1.1
C-2a(2)	Analytical Methods		Subsection 3.2.1.2
C-2a(3)	Generator-Supplied Analyses		Subsection 3.2.1.3
C-2b	Additional Requirements for Wastes Generated Off-Site		Subsection 3.2.2
C-2b(1)	Parameters and Rationale to Confirm Identity of Off-site Waste		Subsection 3.2.2.1
C-2b(2)	Analytical Methods to Confirm Identity of Off-site Waste		Subsection 3.2.2.2
C-2b(3)	Representative Sampling of Incoming Off-site Wastes		Subsection 3.2.2.3
C-2c	Methods for Collecting Samples for Detailed and Confirming Analyses		Subsection 3.2.3
C-2d	Frequency of Analyses		Subsection 3.2.4
C-3	Manifest System		Subsection 3.3
C-3a	Procedures for Receiving Shipments		Subsection 3.3.1
C-3b	Response to Significant Discrepancies		Subsection 3.3.2
C-3c	Provisions for Non-acceptance of Shipment		Subsection 3.3.3
C-3c(1)	Non-acceptance of Undamaged Shipment		Subsection 3.3.3.1
C-3c(2)	Activation of Contingency Plan for Damaged Shipment		Subsection 3.3.3.2
C-4	Tracking System		Subsection 3.4

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<b>D.</b>	<b>Process Information</b>		Section 4
D-1	Containers		Subsection 4.1
D-1a	Description of Containers		Subsection 4.1.1
D-1b	Container Management Practices		Subsection 4.1.2
D-1c	Container Labeling		Subsection 4.1.3
D-1d	Containment Requirements for Storing Containers		Subsection 4.1.4
D-1d(1)	Secondary Containment System Design		Subsection 4.1.4.1
D-1d(1)(a)	System Design		Subsection 4.1.4.1.1
D-1d(1)(b)	Structural Integrity of Base		Subsection 4.1.4.1.2
D-1d(1)(c)	Containment System Capacity		Subsection 4.1.4.1.3
D-1d(1)(d)	Control of Run-on		Subsection 4.1.4.1.4
D-1d(2)	Removal of Liquids from Containment System		Subsection 4.1.4.2
D-1e	Demonstration that Containment Is Not Required Because Containers Do Not Contain Free Liquids, Wastes that Exhibit Ignitability or Reactivity, or Wastes Designated F020 - 023, F026, or F027		Subsection 4.1.5
D-1f	Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes in Containers		Subsection 4.1.6
D-1f(1)	Management of Certain Reactive Wastes in Containers		Subsection 4.1.6.1
D-1f(2)	Management of Ignitable and Certain Other Reactive Wastes in Containers		Subsection 4.1.6.2
D-1f(3)	Design of Areas to Manage Incompatible Wastes		Subsection 4.1.6.3
D-2	Tank Systems		Subsection 4.2
D-2a	Design, Installation, and Assessment of Tanks Systems		Subsection 4.2.1

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D-2a(1)	Design Requirements	Subsection 4.2.1.1
D-2a(2)	Integrity Assessments	Subsection 4.2.1.2
D-2a(3)	Additional Requirements for Existing Tanks	Subsection 4.2.1.3
D-2a(4)	Additional Requirements for New Tanks	Subsection 4.2.1.4
D-2a(5)	Additional Requirements for New On-ground or Underground Tanks	Subsection 4.2.1.5
D-2b	Secondary Containment and Release Detection for Tank Systems	Subsection 4.2.2
D-2b(1)	Requirements for All Tank Systems	Subsection 4.2.2.1
D-2b(2)	Additional Requirements for Specific Types of Systems	Subsection 4.2.2.2
D-2b(2)(a)	Vault Systems	Subsection 4.2.2.2.1
D-2b(2)(b)	Double-walled Tanks	Subsection 4.2.2.2.2
D-2b(2)(c)	Ancillary Equipment	Subsection 4.2.2.2.3
D-2c	Variances from Secondary Containment Requirements	Subsection 4.2.3
D-2d	Tank Management Practices	Subsection 4.2.4
D-2e	Labels or Signs	Subsection 4.2.5
D-2f	Air Emissions	Subsection 4.2.6
D-2g	Management of Ignitable or Reactive Wastes in Tank Systems	Subsection 4.2.7
D-2h	Management of Incompatible Wastes in Tank Systems	Subsection 4.2.8
D-3	Waste Piles	Subsection 4.3
D-4	Surface Impoundments	Subsection 4.4
D-5	Incinerators	Subsection 4.5
D-6	Landfills	Subsection 4.6
D-7	Land Treatment	Subsection 4.7
D-8	Air Emissions Control	Subsection 4.10

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D-8a	Process Vents	Subsection 4.10.1
D-8a(1)	Applicability of Subpart AA Standards	Subsection 4.10.1.1
D-8a(1)(a)	Process Vents Subject to Subpart AA Standards	Subsection 4.10.1.1.1
D-8a(1)(b)	Process Vents Not Subject to Subpart AA Standards	Subsection 4.10.1.1.2
D-8a(1)(c)	Re-evaluating Applicability of Subpart AA Standards	Subsection 4.10.1.1.3
D-8a(2)	Process Vents - Demonstrating Compliance	Subsection 4.10.1.2
D-8a(2)(a)	The Basis for Meeting Limits/Reductions	Subsection 4.10.1.2.1
D-8a(2)(b)	Demonstrating Compliance via Selected Method	Subsection 4.10.1.2.2
D-8a(2)(c)	Design Information and Operating Parameters for Closed Vent Systems and Control Devices	Subsection 4.10.1.2.3
D-8a(2)(d)	Re-evaluating compliance with Subpart AA Standards	Subsection 4.10.1.2.4
D-8b	Equipment Leaks	Subsection 4.10.2
D-8b(1)	Applicability of Subpart BB Standards	Subsection 4.10.2.1
D-8b(1)(a)	Equipment Subject to Subpart BB	Subsection 4.10.2.1.1
D-8b(1)(b)	Re-evaluating Applicability of Subpart BB Standards	Subsection 4.10.2.1.2
D-8b(2)	Equipment Leaks - Demonstrating Compliance	Subsection 4.10.2.2
D-8b(2)(a)	Procedures for Identifying Equipment Location and Method of Compliance, Marking Equipment, and Ensuring Records are Up-to-date	Subsection 4.10.2.2.1
D-8b(2)(b)	Demonstrating Compliance with D-8b(1)(a) and (2)(a) Procedures	Subsection 4.10.2.2.2
D-8b(2)(c)	Closed Vent Systems or Control Devices: Showing Compliance with Emission Reduction Standards	Subsection 4.10.2.2.3
D-8c	Tanks and Containers	Subsection 4.10.3

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I-1b(3)	Decontaminating Structures, Equipment, and Soil	Subsection 9.1.2.3
I-1b(4)	Sampling and Analysis to Identify Extent of Decontamination/Removal and to Verify Achievement of Closure Standard	Subsection 9.1.2.4
I-1b(4)(a)	Sampling to Confirm Decontamination of Structures and Soils	Subsection 9.1.2.4.1
I-1b(5)	Other Activities	Subsection 9.1.2.5
I-1c	Maximum Waste Inventory	Subsection 9.1.3
I-1d	Closure of Waste Piles, Surface Impoundments, Incinerators, Land Treatment, and Miscellaneous Units	Subsection 9.1.4
I-1e	Closure of Landfill Units	Subsection 9.1.5
I-1f	Schedule for Closure	Subsection 9.1.6
I-1g	Extension for Closure Time	Subsection 9.1.7
I-1h	Closure Cost Estimate	Subsection 9.1.8
I-1i	Financial Assurance Mechanism for Closure	Subsection 9.1.9
I-2	Notice in Deed of Already Closed Disposal Units	Subsection 9.2
I-3	Post-Closure Plan	Subsection 9.3
I-4	Liability Requirements	Subsection 9.4
I-4a	Coverage for Sudden Accidental Occurrences	Subsection 9.4.1
I-4b	Coverage for Non-sudden Accidental Occurrences	Subsection 9.4.2
I-4c	Request for Variance	Subsection 9.4.3
<b>J.</b>	<b>Other Federal and State Laws</b>	Section 10
<b>K.</b>	<b>Part B Certification</b>	Section 11

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D-8c(1)	Applicability of Subpart CC Standards		Subsection 4.10.3.1
D-8c(2)	Tank Systems and Container Areas - Demonstrating Compliance		Subsection 4.10.3.2
D-9	Waste Minimization		Subsection 4.11
D-10	Groundwater Monitoring for Land-based Units	Not Applicable	Not Applicable
<b>E.</b>	<b>Releases from Solid Waste Management Units</b>		Section 5
E-1	Solid Waste Management Units and Known and Suspected Releases of Dangerous Wastes or Constituents		Subsection 5.1
E-1a	Solid Waste Management Units		Subsection 5.1.1
E-1b	Releases		Subsection 5.1.2
E-2	Corrective Actions Implemented		Subsection 5.2
<b>F.</b>	<b>Procedures to Prevent Hazards</b>		Section 6
F-1	Security		Subsection 6.1
F-1a	Security Procedures and Equipment		Subsection 6.1.1
F-1b	Waiver		Subsection 6.1.2
F-2	Inspection Plan		Subsection 6.2
F-2a	General Inspection Requirements		Subsection 6.2.1
F-2b	Inspection Log		Subsection 6.2.2
F-2c	Schedule for Remedial Action for Problems Revealed		Subsection 6.2.3
F-2d	Specific Process or Waste Type Inspection Requirements		Subsection 6.2.4
F-2d(1)	Container Inspections		Subsection 6.2.4.1
F-2d(2)	Tank System Inspections and Corrective Actions		Subsection 6.2.4.2
F-2d(2)(a)	Tank System Inspections		Subsection 6.2.4.2.1

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F-2d(2)(b)	Tank Systems - Corrective Actions	Subsection 6.2.4.2.2
F-2d(3)	Storage of Ignitable or Reactive Wastes	Subsection 6.2.4.3
F-2d(4)	Air Emissions Control and Detection - Inspections, Monitoring, and Corrective Actions	Subsection 6.2.4.4
F-2d(4)(a)	Process Vents	Subsection 6.2.4.4.1
F-2d(4)(b)	Equipment Leaks	Subsection 6.2.4.4.2
F-2d(4)(c)	Tanks and Containers	Subsection 6.2.4.4.3
F-2d(5)	Waste Pile Inspection	Subsection 6.2.4.5
F-2d(6)	Surface Impoundment Inspection	Subsection 6.2.4.6
F-2d(7)	Incinerator Inspection	Subsection 6.2.4.7
F-2d(8)	Landfill Inspection	Subsection 6.2.4.8
F-2d(9)	Land Treatment Facility Inspection	Subsection 6.2.4.9
F-3	Preparedness and Prevention Requirements	Subsection 6.3
F-3a	Equipment Requirements	Subsection 6.3.1
F-3b	Aisle Space Requirement	Subsection 6.3.2
F-4	Preventive Procedures, Structures, and Equipment	Subsection 6.4
F-5	Prevention of Reaction of Ignitable, Reactive, and/or Incompatible Wastes	Subsection 6.5
F-5a	Precautions to Prevent Ignition or Reaction of Ignitable or Reactive Waste	Subsection 6.5.1
F-5b	Precautions for Handling Ignitable or Reactive Waste and Mixing Incompatible Wastes	Subsection 6.5.2
F-5b(1)	Ignitable or Reactive Wastes in Tanks	Subsection 6.5.2.1
F-5b(2)	Incompatible Wastes in Containers or Tanks	Subsection 6.5.2.2
<b>G.</b>	<b>Contingency Plan</b>	Section 7
G-1	General Information	Subsection 7.1
G-2	Emergency Coordinators	Subsection 7.2
G-3	Circumstances Prompting Implementation	Subsection 7.3

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G-4	Emergency Response Procedures		Subsection 7.4
G-4a	Notification		Subsection 7.4.2
G-4b	Identification of Dangerous Materials		Subsection 7.4.3
G-4c	Hazard Assessment and Report		Subsection 7.4.4
G-4d	Prevention of Recurrence or Spread of Fires, Explosions, or Releases		Subsection 7.4.5
G-4e	Post-Emergency Actions		Subsection 7.4.6
G-5	Emergency Equipment		Subsection 7.5
G-6	Coordination Agreements		Subsection 7.6
G-7	Evacuation Plan		Subsection 7.7
G-8	Required Reports, Recordkeeping, and Certifications		Subsection 7.4.7
G-8a	General Requirements		Subsection 7.4.2.3.2; Subsection 7.4.5.1, Subsection 7.4.7
G-8b	Requirements for Tank Systems		Subsection 7.4.1.7; Subsection 7.4.7
<b>H.</b>	<b>Personnel Training</b>		Section 8
H-1	Job Title/Job Description		Subsection 8.1
H-2	Outline of Training Program		Subsection 8.2
H-3	Implementation of Training Program		Subsection 8.3
<b>I.</b>	<b>Closure and Financial Assurance</b>		Section 9
I-1	Closure Plan/Financial Assurance for Closure		Subsection 9.1
I-1a	Closure Performance Standard		Subsection 9.1.1
I-1b	Closure Activities		Subsection 9.1.2
I-1b(1)	Maximum Extent of Operation		Subsection 9.1.2.1
I-1b(2)	Removing Dangerous Wastes		Subsection 9.1.2.2