

US EPA ARCHIVE DOCUMENT

Unit Components to Consider for Cost Estimate

Container Storage

- Removal of waste
- Decontamination of the containment system
- Sampling and analysis to confirm decontamination of components of the system
- Transportation of the wastes and residues removed from the unit
- Treatment and disposal of the wastes and residues removed
- Certification of closure

If contamination of the components of the unit is extensive, the owner or operator may elect (or be required) to conduct such additional activities as:

- Removal of waste handling equipment
- Demolition and removal of the containment system
- Sampling and analysis of soil beneath the containment system
- Removal of contaminated soil
- Backfilling with clean soils

Unit Components to Consider for Cost Estimate

Tanks

Removal of wastes and residues from the tank system

- Purging of the tank system for tanks that contain ignitable wastes
- Decontamination of the tank system
- Sampling and analysis to confirm decontamination of components of the system
- Transportation of the wastes and residues removed
- Treatment and disposal of the wastes and residues removed
- Certification of closure

If contamination of the unit's components is extensive, the owner or operator may elect (or be required) to conduct such additional activities as:

- Flushing of the tank and ancillary piping before decontaminating the system
- Excavation (if underground), disassembly, and loading of the tank and ancillary piping
- Demolition and removal of the containment system
- Sampling and analysis of soil under the former tank system
- Removal of contaminated soil
- Backfilling with clean soils

Unit Components to Consider for Cost Estimate

Cement Kilns/Incinerators

- Removal of wastes and residues after a decontamination burn
- Decontamination of the combustion components and ancillary piping
- Disassembly of ancillary piping
- Sampling and analysis of components of the unit to confirm decontamination
- Transportation of the wastes and residues removed
- Treatment and disposal of the wastes and residues removed
- Certification of closure

If contamination of the components of the unit is extensive, the owner or operator may elect (or be required) to conduct such additional activities as:

- Demolition and removal of the unit and its components
- Sampling and analysis of soil surrounding the unit
- Removal of contaminated soil
- Backfilling with clean soils

Unit Components to Consider for Cost Estimate

Containment Buildings

- Removal of wastes and residues from the unit
- Decontamination of the walls, roof, and floor of the building
- Sampling and analysis to confirm decontamination
- Transportation of wastes and residues removed from the unit
- Treatment and disposal of the wastes and residues removed
- Certification of closure

If contamination of the components of the unit is extensive, the owner or operator may elect (or be required) to conduct such additional activities as:

- Demolition and removal of the building structure
- Demolition and removal of the building floor
- Sampling and analysis of the components of the containment system, such as the liner, liquid collection system, and leak detection system, to determine whether removal is necessary
- Removal of contaminated components of the containment system, such as liners, the leachate collection and removal system, and the leak detection system
- Sampling and analysis of soils beneath the containment system
- Removal of contaminated soil
- Backfilling with clean soils

Unit Components to Consider for Cost Estimate

Post-Closure Care

- Removal of leachate generated during the post-closure care period
- Any treatment costs generated from public utilities such as wastewater treatment generated during the post-closure care period on a regular basis
- Site security
- Maintenance of the vegetative cover including mowing, watering, and fertilizing
- Repair and inspection of the vegetative cover and leachate management system for damage.
- Groundwater monitoring
- Deed notation
- Maintenance and inspection of the asphalt cover, if applicable
- Surface emission monitoring, if applicable
- Gas extraction and perimeter probe monitoring, if applicable
- Certification of completion of post-closure care at the end of the post-closure care period