






# Demolition/Renovation Hazardous Materials Management Guidance Document

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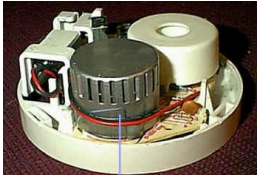

## General Information

1. Disposal of materials will be managed by MU Environmental Health and Safety (EHS) except where otherwise indicated. Collection requests should be made through the Campus Facilities (CF) Construction Manager where applicable; otherwise collection requests shall be made directly to EHS via the contact information above. It may take up to 2 weeks for the material to be collected from the site, so plan to properly store the materials accordingly.
2. When indicated, EHS will provide management supplies. Please contact EHS at least 2 business days before the materials will be needed to allow adequate delivery time.
3. When indicated that a material may be managed as a “solid waste” it must be placed in a receptacle destined for a municipal sanitary landfill. *Do not* mix these materials with materials destined for a clean fill or demolition debris landfill.

Regulated Items	Examples ( <u>Not</u> inclusive)	Management Strategy
Mercury-Containing Devices	Thermostats Manometers Barometers Sphygmomanometers Switches and Relays 	EHS will provide plastic or metal pails or drums, plastic bags/liners, and labels.
Oil and Equipment Containing Oils	Vacuum Pumps Elevator Equipment Transformers 	EHS will provide metal pails or drums and labels. As necessary, EHS will also provide analytical support (e.g. PCB analysis for transformer oil).
Bulbs and Lamps (Intact)	Fluorescent Lamps High Intensity Discharge (HID)  <u>Not</u> Incandescent Bulbs (manage them as solid waste) 	EHS will provide fiber drums/boxes, guidance documents, and labels.

Regulated Items	Examples ( <u>Not</u> inclusive)	Management Strategy
Bulbs and Lamps (Broken)	Broken Fluorescent Lamps Broken HID Lamps  <u>Not</u> Broken Incandescent Bulbs (manage them as solid waste)	EHS will provide metal drums, plastic bags/liners, and labels
Ballasts (Non-Leaking)	No PCB's PCB-containing DEHP-containing  Contact EHS immediately if <u>leaking</u> ballasts are discovered	EHS will provide metal drums, plastic bags/liners, labels, and segregation guidelines.
Lead Metal	Lead Pans (e.g. under restrooms) Lead troughs/drains Plumbing	Recycling is strongly encouraged as materials owned by the contractor (unless otherwise stipulated in the contract documents); otherwise manage as solid waste.
Paint Containing Heavy Metals (e.g. Lead)	Scrapings/chips	EHS must review and approve the method of paint removal. EHS will provide metal pails/drums, plastic liners/bags, and labels.
Painted Materials Containing Heavy Metals (e.g. Lead)	Painted Cinderblock Painted Interior Materials Painted Exterior Materials	EHS will provide instructions as to the allowable management of these materials dependent upon the regulated heavy metals content of the paint.
Freons and machinery containing Freons	Air Conditioners Refrigerators Dehumidifiers Compressors	Freons must be properly removed/collected by a representative of the University prior to disposal as scrap metal/solid waste.



Regulated Items	Examples ( <u>Not</u> inclusive)	Management Strategy
Water Treatment Chemicals	Sulfuric Acid Lithium Bromide Ethylene glycol 	If machinery is to be drained, EHS must approve collection containers used and/or provide appropriate containers. Unused portions in their original containers <i>may</i> be recyclable to the MU Energy Management Office (EMO); otherwise EHS will remove and manage the materials.
Batteries	Nickel-Cadmium (NiCd) Lithium Nickel-Metal Hydride (NiMH) Lead Acid Mercury  <u>Not</u> Alkaline Batteries (manage them as solid waste) 	EHS will provide fiber boxes, plastic pails, or metal pails with plastic liners; guidance documents and labels.
Smoke Detectors	Ionization detector 	EHS will provide containers (bags) and labels.
Exit Signs	Tritium-containing (self-powered luminescent)  [Battery-powered exit signs may be discarded as solid waste after the batteries are removed.] 	EHS will provide containers (bags) and labels.