

Industrial Wastewater: Machine, Maintenance, and Craft Shop Best Management Practices

Department: Environmental Protection

Program: Industrial Wastewater

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Authority: ES&H Manual, Chapter 43, Industrial Wastewater

Industrial wastewater best management practices (BMPs) are guidelines that minimize the impact of activities that potentially contribute contaminants to the sanitary sewer. Most of these guidelines reflect practices already implemented at SLAC as prudent practices or as ES&H requirements.

The following BMPs apply to machine, maintenance, and craft shops and are intended to protect water quality.

1. Ensure that employees are aware of emergency response procedures in the event of an accidental discharge or spill. For additional information on how to handle spills, see Chapter 16, “Spills”.¹
2. Use signage and training to inform employees that hazardous material is never discharged directly to the sewer. Signs above sinks have been effective.
3. Keep machines and equipment maintained to minimize leaks.
4. Locate machines, equipment, and hazardous materials away from floor drains when possible.
5. Seal floor drains located near machines, processes and hazardous materials storage areas. Provide a floor drain stopper if it cannot be sealed.
6. Use drip pans to collect oil and spills from machines and equipment.
7. Use absorbent *socks* or *pigs* around leaky equipment.
8. Have kitty litter or absorbent pads on hand to clean up leaks as they occur.
9. Provide secondary containment for hazardous material, hazardous waste, or machines with significant quantities of internal fluid (oil or coolant) if they pose a release threat. For additional information on secondary containment, see Chapter 40, “Hazardous Materials”.²
10. If possible, drain oil-filled equipment before moving.
11. Conduct activities inside if possible. If conducted outside follow all applicable storm water pollution prevention BMPs. See Chapter 26, “Stormwater”.
12. Remove debris and sweep the shop floor often.
13. Dispose of mop water appropriately. If you expect a hazardous component based on operational knowledge, contact the Environmental Protection Department for characterization. If the mop water contains hazardous components, contact the Waste Management Group (WM) for proper disposal.

1 *SLAC Environment, Safety, and Health Manual* (SLAC-I-720-0A29Z-001), Chapter 16, “Spills”, <http://www-group.slac.stanford.edu/esh/environment/spills/policies.htm>

2 *SLAC Environment, Safety, and Health Manual* (SLAC-I-720-0A29Z-001), Chapter 40, “Hazardous Materials”, http://www-group.slac.stanford.edu/esh/hazardous_substances/haz_materials/policies.htm