

INDUSTRIAL FACILITIES

Best Management Practices

Bluff City's Storm Water Management Program
City of Bluff City

P.O. Box 70, Bluff City, Tennessee 37618
423-538-7144

*This document may be printed and used for reference by
Industrial Facility Operators and Employees*

Introduction

In order to reduce the amount of pollutants reaching local storm drains, the City developed "Best Management Practices" (BMPs) for various types of businesses. All industrial facilities are expected to abide by the following BMPs. In addition, the Tennessee Department of Environment and Conservation, under the NPDES Stormwater regulations, is regulating industrial activities that have the potential to discharge pollutants to the storm drain system. The new regulations require specific types of industries, based on their Standard Industrial Classifications [SIC] code, to file a Notice of Intent (NOI) under the state's Multi-Sector Generic Permit. These industries are also required to prepare and implement a storm water pollution prevention plan (SWPPP). Information about the Multi-Sector General Permit may be found on the TDEC website at:

<http://state.tn.us/environment/permits/strmh2o.shtml>

Best Management Practices (BMPs) for all industrial facilities are detailed on the following pages. If you have any questions, please call the City's Stormwater Coordinator at (423) 538-7144.

Best Management Practices

1. Practice **good housekeeping procedures** both indoors and outside.
2. **Do not dump or discharge wastewater, cleaning or rinse water, chemicals, or debris to the storm drain system, streets, or curbs.**
3. Keep **spill prevention and cleanup materials** in stock and conveniently located.

4. Keep **outside areas, including parking lots, loading docks, delivery areas, and driveways**, clean and free of debris, dust and fluids from industrial operations/equipment. Preferably, clean these areas by sweeping or spot cleaning using dry absorbent materials.
5. **Sidewalks, gutters, outdoor eating areas, steps, building exteriors, walls, and driveways** may be cleaned with water provided that one of the following methods is used:

Method A

- a) Clean up spills using dry absorbent materials;
- b) Next, sweep up debris, trash, cigarette butts, dirt, leaves, and other particles;
- c) Then, mop with minimal amounts of water only—**no soap or cleansers**.

or Method B

- a) First, clean up spills using absorbent materials;
- b) Next, pick up large debris;
- c) Then, place a screen in the nearest downstream catch basin. The screen must be made of expanded metal and have a metal hem on the perimeter. The mesh size must be a 1/2 inch size or less. The screen must be sufficiently large to cover the entire catch basin;
- d) Mop or hose down (using a regular garden hose) the area without soap or cleansers. This method does not apply if pressure washing or steam cleaning equipment is used, or if hand scrubbing is conducted;
- e) Lastly, remove the screen as soon as the wash water has drained through. Screens may not be left in the catch basin in between cleaning events. The screen should be cleaned after each use and the debris discarded in the trash.

or Method C

- a) Pressure washing, steam cleaning, and hand scrubbing may be conducted if the wastewater is collected and disposed of into the sanitary sewer. **This wastewater may not runoff to the street or discharge to the storm drain system.**
6. If water is used to clean **parking lots, loading docks and delivery areas**, the wash water may not be discharged into the street or storm drain system, or left as “standing” water. Wash water from these areas must be discharged into the sanitary sewer in accordance with the Sewer Use Ordinance.
7. If **cleaning solvents** are used outside to clean ground surfaces, such as sidewalks, walkways, plazas, patios, driveways, loading docks, delivery areas, or dumpster areas, the solvent must be cleaned up and properly disposed of.

8. **If water is used to remove paint or graffiti** from building exteriors, walls, steps, signs, and other surfaces, the wastewater and paint particles may not be discharged to the street or storm drain system. **If blasting or sanding is conducted to remove paint or graffiti**, the paint particles, blasting material, sand, or dust may not be allowed to reach the storm drain system.
9. If **vehicle washing** is conducted, washing must be done in a City approved wash pad unless the vehicles are rinsed with water only. The wash pad area must be sloped and bermed (or otherwise constructed) to prevent discharge to the storm drain and to prevent excess storm water from running to the pad area drain. The City may require that the wash pad area be covered. Treatment may be required prior to discharge to the sanitary sewer system.
10. Protect **storm drains located in or near loading docks** whenever the area is cleaned or if a spill occurs.
11. Ensure that **cooling water** from equipment and refrigeration units is plumbed to the sanitary sewer and not piped outside to the ground or storm drain system.
12. Wastewater from the cleaning of **garbage dumpster areas and areas where trash is stored or contained** may not be discharged to or allowed to reach the street or storm drain system. In addition, the wastewater may not be left as “standing” water. This wastewater must be discharged to the sanitary sewer in accordance with the Sewer Use Ordinance. Also, **leakage from dumpsters or trash containers** may not be discharged to or allowed to reach the storm drain system.
13. **Dumpsters, garbage cans, and other trash containers** must be watertight and used with secured lids. Do not allow trash to spill out or overflow the dumpster, cans or containers.
14. Keep **chemical and material storage areas** clean and free of leaks and spills. Chemical and material containers must be properly sealed and labeled. If **hazardous materials or wastes** are stored, compliance with all hazardous material and waste storage regulations is required.
15. Cover and protect **outdoor material and parts stockpiles** so that wind and rain will not cause debris and fluids to reach the storm drain system.
16. A **spill response plan** must be maintained and kept current. The spill response plan shall be made available to City inspectors upon request.
17. Keep **storm drains, catch basins, and outdoor sumps** clean and functional, and free of any leaves, dirt, and debris. **Storm drains and catch basins need to be cleaned between September 1st and October 15th each year.**
18. **Landscaping waste**, such as leaves, clippings, and mowed grass, may never be placed, dumped, raked, or blown into the street or storm drain system. In addition, **pesticides and herbicides** may not be dumped into the street or storm drain system, nor poured down an indoor drain. Unwanted pesticides and herbicides must be disposed of as hazardous

waste. If your facility uses a landscaping service for grounds maintenance, ensure that the service personnel also abide by these Best Management Practices.

19. **Train employees in these Best Management Practices** upon hiring and annually thereafter. Keep a log of all training events during the past year onsite and available to the City upon request.
20. Ensure that any **janitors and contractors** working onsite are aware of and follow these Best Management Practices.

**Call the City's Stormwater Coordinator
for more information at:
423-538-7144**

Please remember to contact City Hall, at 538-7144, prior to making
any plumbing changes!

Additional Best Management Practices for Industrial Facilities with a Machine Shop or Vehicle Repair Shop

21. **Vehicle fluids, chemicals, hazardous materials, and floor cleaning wastewater** may not be discharged, directly or indirectly, to the storm drain system. Take measures to prevent fluids, materials, and dust from machine or vehicle repair work from reaching the outdoors.
22. **Drip pans and adequate spill prevention and clean-up materials** must be kept on-site and easily available for use.
23. **Mop water** from floor cleaning may not be discharged outside or to the storm drain system. Mop water must be discharged to the sanitary sewer as long as it does not contain any hazardous waste. The following procedure is mandatory for shops that mop their floors:
 - Clean up spills with rags or dry absorbent.
 - Sweep the floor.
 - Mop floor and discharge mop water to the sanitary sewer via a sink or toilet.
24. **If changing, adding, or draining equipment or vehicle fluids outside**, all work must be conducted within areas where spills can be contained and cleaned up immediately.
25. **Wastewater from parts cleaning, engine cleaning, drive train and undercarriage cleaning, and radiator flushing** must be contained and may not be discharged, directly or indirectly, into the storm drain or the sanitary sewer.

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at 538-7144, prior to making any plumbing changes!