

Multi-Sector General Permit

Stormwater Best Management Practices for
**Sector AB: Transportation Equipment,
Industrial and Commercial Machinery**

Transportation Equipment, Industrial and Commercial Machinery and the Multi-Sector General Permit (MSGP)

The MSGP is a permit designed to prevent stormwater pollution from entering into our surface waters. Materials spilled, leaked, or lost during loading and unloading, as well as materials and wastes stored outdoors, are possible sources of stormwater pollution at Sector AB facilities. Particulate emissions from air stacks and ventilation systems are also potential sources of stormwater contamination. Sediment, dust, oil and grease, heavy metals, and organic chemicals are pollutants of concern for this sector.

BMPs reduce, eliminate or prevent stormwater pollution from reaching Vermont's rivers and streams

What is a Stormwater BMP?

Best Management Practices, commonly referred to as BMPs, are effective ways to reduce the amount of pollution in stormwater leaving your facility. There are two types of BMPs:

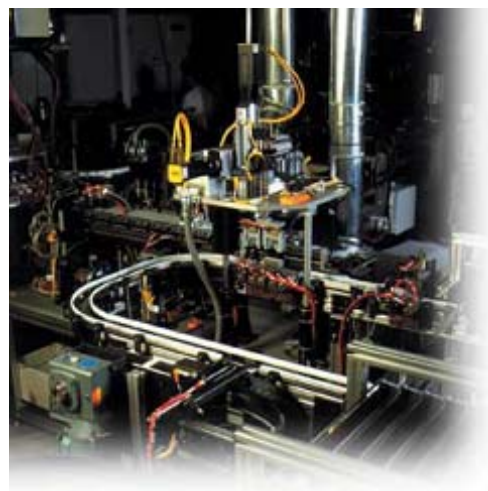
- Structural BMPs are things that can be built on site and include physical structures like berms, settling ponds, oil-water separators, and storm resistant shelters.
- Behavioral BMPs are changes that can be made in the way a person operates their business. Behavioral BMPs include conducting regular inspections, regular maintenance of vehicles and machinery, prohibition of certain activities, and employee training.

An effective Stormwater Pollution Prevention Plan (SWPPP) will include both types of BMPs.

Stormwater BMPs for Transportation Equipment, Industrial and Commercial Machinery — Sector AB

The following list of suggested BMPs is organized by activity and can be included in your facility's Stormwater Pollution Prevention Plan (SWPPP). The BMPs cover the following operations:

- Loading and Unloading Activities
- Stockpile Storage Areas
- Outdoor Storage Areas (Intermediate Products, Scrap Metal, Raw Materials)
- Storage Tanks
- Drum Storage (Including Hazardous Waste)
- Particulate Control
- Spill Prevention and Response
- Training



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Loading and Unloading Activities

- Confine loading and unloading activities to a designated area.
- Conduct loading and unloading indoors or in a covered area.
- Inspect all containers prior to loading and unloading.
- Avoid loading and unloading materials in the rain.
- All loading operations should occur on an impervious surface.
- Cover storm drains during loading and unloading activities.
- Arrange for an employee trained in spill prevention and response to be present during loading and unloading activities.
- Build berms and dikes around loading and unloading areas. Establish a flow diversion area that redirects stormwater away from loading docks and terminals.
- Grade areas designated for transportation so that stormwater run-on from other areas is minimized.



Stockpile Storage Piles

- Store materials on impervious surfaces, such as concrete or asphalt pads.
- Locate piles at least 50 ft from any streams or drainage pathways.
- Revegetate areas used for stockpiling to reduce any soil erosion.
- House stockpiles (i.e. all aggregate piles)

in three sided structures.

- Grade, pave or curb areas where sediment is prevalent.
- Use curbs, berms, channels, and dikes to divert run-on away from stockpiles.
- Slope stockpile storage areas to prevent ponding or puddling under the piles.
- Sweep or shovel areas surrounding stockpiles on a regular basis.



Outside Storage Areas (Intermediate Products, Scrap Metal, Raw Materials)

- Develop and maintain a working inventory of all raw and spent materials.
- Use curbing, dikes, or channelization around material storage areas to divert run-on around areas where it can come into contact with material stored or spilled on the ground.
- Store materials indoors.
- Ensure that all bins, drums, and other containers are closed.
- House materials and/or locate drums and bins in three sided and roofed structure.
- Locate storage areas on paved or stabilized surfaces (i.e., where surface erosion is unlikely).
- Practice source reduction. Order only necessary materials in appropriate quantities.
- Ship waste to offsite landfills or treatment facilities.

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Storage Tanks

- Visually inspect tank systems on a frequent and regular basis. Pay particular attention to the tank's foundation, connections, coatings, walls, and the piping system.
- Use double walled tanks. Cover tanks.
- Install a secondary containment system around both temporary and permanent tanks. Incorporate berms, dikes, liners, or vaults.
- Berm or slope the impervious area surrounding the tank to a dead end sump.
- Install dikes, curbs, or other physical barriers of sufficient height to contain 110% of the volume contained in the tank.



Drum Storage (Including Hazardous Waste)

- Store waste in non-leaking, non-corrosive, tightly sealed drums. Replace any degraded drums.
- Store drums on an impervious surface, in a roofed and three-sided structure, or cover with weighted tarps or awnings.
- Provide secondary containment for drum storage areas. Use berms, dikes, or other physical barriers to contain 110% of

the total volume of all drums.

- Incorporate swales, drainage ditches, curbing, or grading to direct stormwater away from drum storage area.
- Never mix liquids (such as solvents, antifreeze, or oil). Mixing liquids can create hazardous waste, which is not recyclable. Never pour liquids into a septic system or in storm drains.



Particulate Control

- Use dust collection systems (e.g., bag houses) to collect airborne particles generated as a result of handling operations. Maintain the facility's dust collection and bag house system.
- Trap particles using filter fences, drop inlets, catch basin protection, or silt check dams.
- Regularly remove particulate build up and maintain particulate control structures.
- Frequently and regularly clean around vents and stacks.
- Remove residual chemicals from intermediate products before storing outdoors.

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Spill Prevention and Response

- Frequently and regularly inspect all storage tanks and drums for leaks or spills.
- Clean up all leaks and spills immediately upon discovery.
- Always use dry clean up methods. Never “wash down” areas where there has been a spill or use emulsifiers or dispersants.
- Locate spill kits in high activity areas.
- Develop a spill prevention and response plan that clearly states procedures to stop the source of a spill and outlines the disposal of contaminated materials.
- Establish a regular schedule for hazardous waste pick up.

Training

- Inform employees of stormwater pollution sources and prevention.
- Train employees in proper waste control and spill prevention and response.
- Instruct employees to properly implement applicable BMPs.



Questions or Assistance with your Stormwater SWPPP, contact:

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