

OUTDOOR STORAGE AND HANDLING OF MATERIALS AND WASTE

BMP FACTSHEET 2 Rev. 04/2023



Targeted Pollutants	
Sediment	X
Nutrients	X
Trash	X
Metals	X
Bacteria	
Oil & Grease	X
Chemicals	X
Salt	X

Objectives	
Cover	X
Contain	X
Educate	X
Reduce/Minimize	X
Product Substitution	

DESCRIPTION

Outdoor material storage and handling is used when indoor storage and handling is not feasible. Many facilities on Ft. Belvoir have designated outside facilities which house both raw materials and waste materials. It is important to follow proper procedures so that pollutants do not come into contact with stormwater and start to migrate into our natural waterways. The goal of establishing outdoor procedures when storing and handling raw material and material waste is to prevent spills and leaks by requiring facility owners to comply with various safeguard requirements. These include adequate secondary containment, corrosion protection, overfill prevention and leak detection.

GUIDELINES

- Store materials on paved or impervious surfaces that are free of cracks or gaps.
- Protect materials stored outside from rainfall and wind dispersal. Materials should be stored indoors, if feasible.
- Have secondary containment, at minimum 110% capacity of contents, for all hazardous waste and material storage containers.
- Containers must have proper labeling and secure lids.
- Follow good housekeeping practices. Reference BMP Factsheet Overview for more details.

Outdoor Unloading/Loading of Materials

- Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations and when making and breaking connections.
- Conduct loading and unloading in dry weather, if possible.
- Make sure emergency spill kits are fully stocked and readily available in loading/unloading area.
- For short term storage, place materials on a paved surface and cover it with tarps or plastic sheeting, secured with weights or ropes.

Reducing Exposure of Materials/Pollutants to Stormwater

- The area where truck transfers take place should be a surface that prevents liquids from penetrating the surface and does not allow the liquid to seep into the ground.
- Park vehicles and conduct loading/unloading only in designated loading/unloading areas so that spills or leaks can be contained.
- If a cover is unfeasible, use overhangs, seals or door skirts to enclose areas and reduce exposure of materials to rain.
- Position roof downspouts to direct stormwater away from the area.
- Avoid placing loading/unloading areas near storm drains. Stencil storm drains.
- Clean loading/unloading areas regularly to remove potential sources of pollutants. This includes outside areas regularly covered by containers or other materials.
- Properly design loading/unloading areas to prevent storm water run-on, runoff of spills, etc. If possible grade and/or berm the area to prevent stormwater from flowing onto/across storage area.

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MAINTENANCE/GOOD HOUSEKEEPING

- Cover the loading/unloading docks to reduce exposure of materials to rain.
- Keep covers in place at all times when work is not occurring to reduce exposure of materials to rain.
- Clean loading/unloading areas regularly to remove potential sources of pollutants.
- Clean out and remove drip pans off the ground when transfer has been completed.
- Repair leak-prone spots as soon as possible.
- Restock emergency spill kit after materials have been used.
- Inspect spill kit regularly for condition of container and condition of materials inside.
- Inspect the outside of the container for signs of deterioration, discharges or accumulation of oil inside diked areas. This visual inspection is intended to be a routine walk-around and includes the inspection of container supports and foundations.



SPILL RESPONSE PROCEDURES

In the event of a spill or leak, follow the appropriate Spill Response Procedures posted at your facility or refer to the BMP Factsheet Overview.

- **Survey the incident** from a safe distance. Identify the source of release and the material being released.
- Call the Ft. Belvoir Fire Department if spills are *greater than 5 gallons OR greater than 5 square feet*. If ANY amount of leaked material has entered a storm drain or waterway call the Ft. Belvoir Fire Department at 703-781-1800 and DPW Environmental Division (Env. Div.) at 703-806-3694.
- Provide the Safety Data Sheet of the spilled material to the spill response personnel.
- Fill out Spill Incident Report in your SWPPP.
- REPORT ALL SPILLS REGARDLESS OF SIZE TO DPW/ENV. DIV.

REPORT SPILLS TO DPW/ENV. DIV. BY:

- E-mailing your Spill Incident Report to zachary.d.witman.civ@army.mil
- Calling 703-806-3694