

SC4

AIRCRAFT, GROUND VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING/DEGREASING

DESCRIPTION:

Prevent or reduce the discharge of pollutants to stormwater from aircraft, ground vehicle, and equipment washing and steam cleaning.

TARGETED ACTIVITIES:

Aircraft Painting/Stripping, Aircraft Washing, Ground Vehicle Washing, Equipment Cleaning/Degreasing

APPROACH:

- * Use designated wash areas, covered and bermed where feasible, to prevent waste contact with stormwater.
- * Discharge wash water to the sanitary sewer system through a permitted connection. Individual wastewater agencies will have different regulations and requirements regarding the disposal of wash water.
- * Outdoor washing operations should have the following characteristics, if possible:
 - Paved with Portland cement concrete.
 - Bermed or covered (if feasible) to prevent contact with stormwater.
 - Sloped to facilitate wash water collection.
 - Wash water should be collected in a dead-end sump for removal or discharged to the sanitary sewer through a permitted connection. Discharge pipes serving uncovered wash areas should have a positive control valve that allows switching between the storm drain and the sanitary sewer.
 - Clearly designated.
 - Equipped with a properly sized and maintained oil/water separator.
- * Consider offsite commercial washing and steam cleaning where feasible.
- * Consider filtering and recycling wash water.
- * Provide pollution prevention training for employees.

REQUIREMENTS:

- * Capital costs vary depending on measures implemented.
 - Low cost: \$500-1,000 for berm construction.
 - Medium cost: \$5,000 - 20,000 for plumbing modifications (including rerouting discharge to the sanitary sewer and installing a simple sump).
 - High cost: \$30,000 - 150,000 for onsite treatment and recycling.
- * O&M costs increase with increasing capital investment.
- * Maintenance:
 - Berm repair and patching.
 - Inspection and maintenance of sumps, oil/water separators, and onsite treatment and recycling units.

LIMITATIONS:

- * Some wastewater agencies may require pretreatment and monitoring of wash water discharges to the sanitary sewer.
 - * Steam cleaning and degreasing operations can generate significant pollutant concentrations which may require permitting, monitoring, pretreatment, and inspections.
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