

Environmental Management Practices



Activity: Vehicle and Equipment Maintenance

EMP No. O-11

Description:

Prevent the discharge of pollutants from vehicle and equipment maintenance activities

Targeted Activities:

Vehicle Maintenance
Equipment Maintenance
Vehicle and Equipment Painting/
Stripping

Development EMPs:

Design new facilities to

- Provide covered maintenance areas
- Minimize run-on of stormwater into maintenance area
- Provide oil/water separators on floor drains
- Maintain oil/water separators as discussed in EMP O-6
- Connect floor drains to sanitary sewer or dead end sump
- Provide adequate space for storage of chemicals and waste products
- Provide secondary containment areas in use and in storage
- Protect storage area from high traffic areas
- Provide paint booths to contain overspray and treat air emissions as required
- Provide separate steam cleaning/high pressure wash booth
 - Connect to oil/water separator and sanitary sewer



Potential Pollutants:

Oils and Grease
Petroleum Hydrocarbons
Coolants
Solvents

Target Environmental Media:

Surface Water
Air
Soil

US Regulatory Requirements & Guidance:

40 CFR 50 -99 Clean Air Act Regulations
40 CFR 110.3 Discharge of Oil
40 CFR 112 Oil Pollution Prevention (SPCC/
OPA Plans)
40 CFR 117.3 Determination of Reportable
Quantities for a Hazardous Substance
40 CFR 122-124 NPDES Regulations for Storm
Water Discharges
40 CFR 260-262, 268, and 270-272 Hazardous
Waste Management
40 CFR 264-265 Preparedness, Prevention and
Contingency (PPC) Plan
40 CFR 401 Effluent Limitation Guidelines
49 CFR 171-173, 175, and 177 Department of
Transportation (DOT) Regulations
State and Local Regulations as appropriate to
the Port

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Operational EMPs:

- Move maintenance activities indoors, or provide cover over work area
- Keep equipment clean and perform maintenance in suitable areas; eliminate excessive amounts of external oil and grease buildup
- Use non-chlorinated solvents and cleaning agents
- Provide runoff controls that prevent discharge to storm sewers
- Use designated washing and steam cleaning/degreasing areas to clean equipment
 - These areas should be equipped with runoff controls that prevent discharge to storm sewers.
- Use drip pans under activities
- Use absorbent pads at potential problem areas
- Adequately collect and remove absorbent pads from area after use and dispose of it in an appropriate manner.
- Drain and crush oil filters (and oil containers) before recycling or disposal
 - Store crushed oil filters and empty lubricant containers in a leakproof container/receptacle
- Clean any catch basins that receive runoff from a maintenance area regularly
- Block storm drainage inlets (i.e., drain plug or blocker mat) and use a vacuum truck to collect wastes
- Label storm drain inlets "Storm Drain No Dumping"
- Do not hose down work areas to the storm drain, or use concrete cleaning products unless the storm drain inlet is blocked and washwater is collected and properly disposed of through a permitted connection to an approved treatment facility.
- Use mops, dry sweeping compounds, or contract professional cleaning services
- Store mechanical parts and equipment that may yield even small quantities of contaminants (i.e., oil and grease) under cover
- Drain all fluids and remove batteries from salvage vehicles and equipment
- Recycle or properly dispose of the following: greases, oils, antifreeze, brake fluid, cleaning solutions, hydraulic fluids, batteries, transmission fluids, and filters
- Use biodegradable products and substitute materials with less hazardous properties where feasible.
- Install and maintain catch basin filter inserts that assist in the removal of oil and grease, sediments and floatables
- Clean up spills as they occur
- Keep parts washer lids closed to reduce air emissions
- Properly label and store wastes as described in EMP O-5

Considerations:

- Provide employee training in chemical and waste handling and disposal and spill response
- Provide adequate supplies of appropriate spill response material
- Conduct routine inspections on maintenance activities and chemical/waste storage and handling
- Conduct routine maintenance on secondary containment structures, oil/water separators; paint booths; and steam cleaning/pressure wash booths