Environmentally Responsible Best Management Practices

Dust Control

Dust controls may be needed on industrial sites for various reasons, including land disturbance, demolition and material handling areas. If effective, dust controls can prevent pollutants from contaminating stormwater runoff by reducing the surface and air transport of dust caused by these activities.

Practices to Control Dust from Land Disturbances and Demolition Activities

- Use temporary controls, such as palliatives or chemical soil treatments, that are applied as sprayon adhesives. Common palliatives include:
 - ✓ Calcium Chloride
 - ✓ Ammoniac Asphalt Emulsion
 - ✓ Latex Emulsion
 - ✔ Resin-Water Emulsion
 - ✓ Lignin
- ② Since certain chemicals may be inappropriate for some soil types or application areas, the permittee should check with the City and Department of Environmental Quality (DEQ) prior to the application of chemical treatments. Vehicles should not be driven over the treated area to avoid the tracking of the chemicals to other areas on or off the site. In addition, irrigation is a temporary measure involving a light application of water to moisten the soil surface. The minimum amount of water should be applied because an excess of water can cause erosion.
- Pave or rock traffic ways to prevent dust.
- Geotextile fabric should be used under gravel or rock to prevent it from sinking into the mud.
- Industrial areas should be paved or vegetated.



soil exposure by temporary or permanent soil stabilization controls, such as:

- ✓ Mulching
- ✓ Seeding
- ✓ Spreading coarse gravel or crushed stone
- ✔ Planting trees
- ♠ Install temporary or permanent windbreaks or barriers that reduce airborne particles by slowing wind velocities and causing particles to drop. Large trees and shrubs left in place can provide wind barriers, while temporary measures include solid board fence, tarp curtains, sediment walls, crate walls and bales of hay.
- **6** Inspect sites requiring dust controls frequently and reapply materials or controls as needed.

Practices to Control Dust from Material Handling Process and Transfer Areas

- Install dust collection systems, such as negative pressure systems (vacuum systems), collector systems (bag and cyclone) or filter systems.
- ② Use street sweepers to collect dust. The vacuum type are more efficient and are most effective on dry areas. Brush sweepers can also be used.
- **3** Train employees in the proper operation of equipment according to the manufacturers' recommendations and inspect the equipment regularly.



ENVIRONMENTAL SERVICES
CITY OF PORTLAND

CLEAN RIVER WORKS

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