



MSFC Building Managers Training

AD10/Farley Davis

Environmental Engineering Department

**MPG 8870.1, MSFC Environmental Management
Program**



Environmental Management Issues

- ◆ Hazardous Waste/Chemical Management
- ◆ Above Ground/Underground Storage Tanks
- ◆ Equipment & Vehicle Maintenance
- ◆ Storage Yards
- ◆ Painting & Paint Removal
- ◆ Erosion Control
- ◆ Solid Waste Container Mgmt. (Dumpsters)
- ◆ Clean Air Act



Hazardous Waste and Chemical Management

- ◆ Container Management
- ◆ Material Handling
- ◆ Proper Waste Disposal
- ◆ Cleanup Spills/Leaks
- ◆ Excess Materials Removed (Good Housekeeping)
- ◆ Spill Kits (For Minor Spills)

Chemical containers not sealed, spilled material on the ground



Oil spill from transfer hose



Inside chemical containers with secondary containment



Outside chemical containers with containment and protected from the weather



Chemical containers damaged



Turn in of obsolete/out dated/unneeded chemicals



Hazardous Waste Containers not sealed



Hazardous Waste Containers not sealed



Hazardous Waste Container sealed





Above Ground & Underground Storage Tanks

- ◆ Containment Valves Closed
- ◆ Management of Stormwater from Containment
- ◆ Tanks must have containment
- ◆ Cleanup Spills/Leaks

Aboveground Storage Tank without containment



Stormwater containment release valve not closed





Equipment & Vehicle Maintenance



- ◆ Minimize Stormwater Contact
- ◆ Cleanup Spills/Leaks
- ◆ Washdown Water Collected

Vehicle leak collected



Leaking equipment absorbent material not cleaned up





Storage Yards



- ◆ Spills/Leaks from Equipment, Containers, & Tanks
- ◆ Drain Equipment Prior to Storage
- ◆ Area Neat and Clean (Good Housekeeping)
- ◆ Place materials on pallets when possible

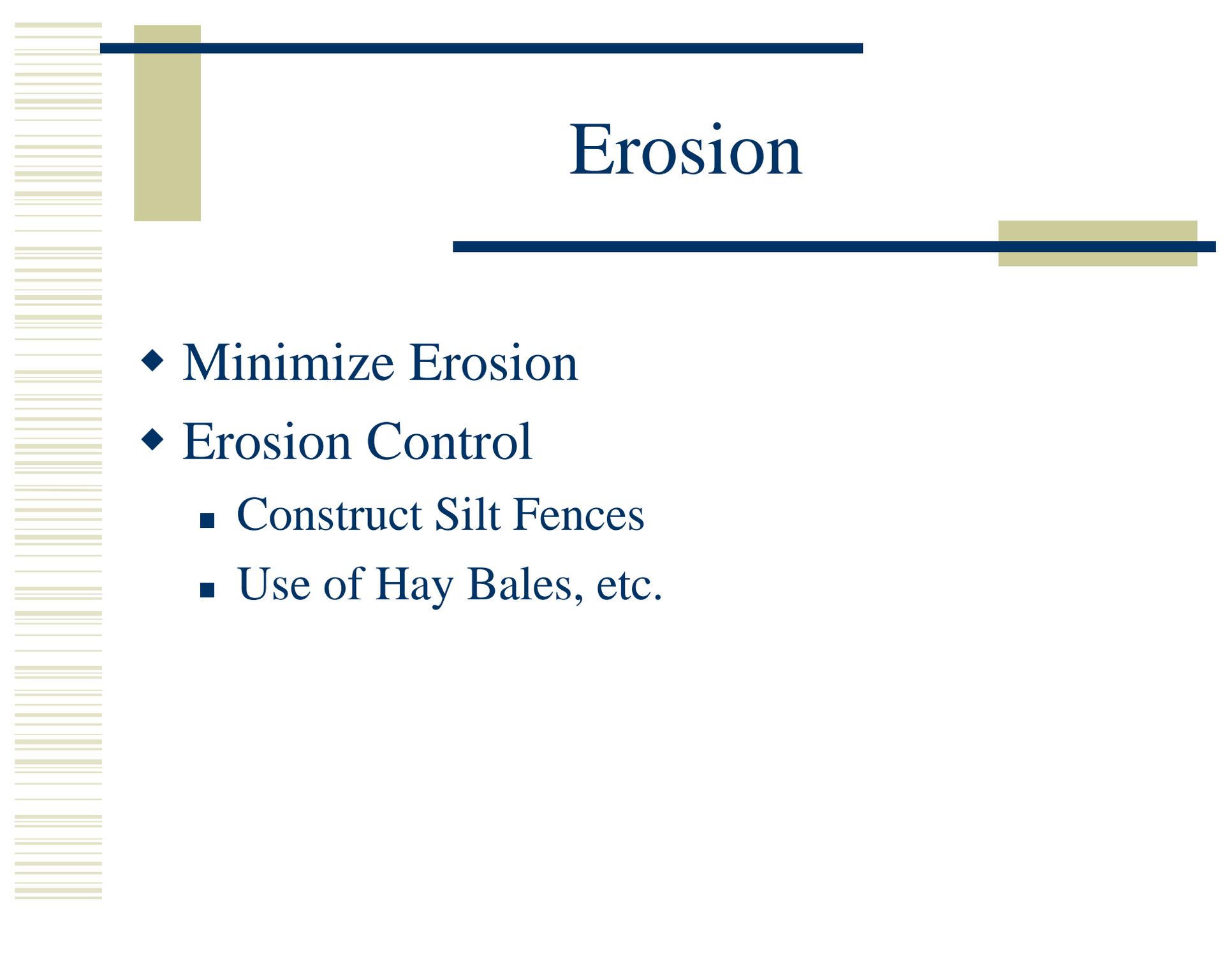
Storage area not neat & orderly,
equipment reservoirs drained





Paint & Paint Stripping

- ◆ Minimize Overspray
- ◆ Sandblast Material Management
 - Potential heavy metal contamination
 - Collect and dispose of properly

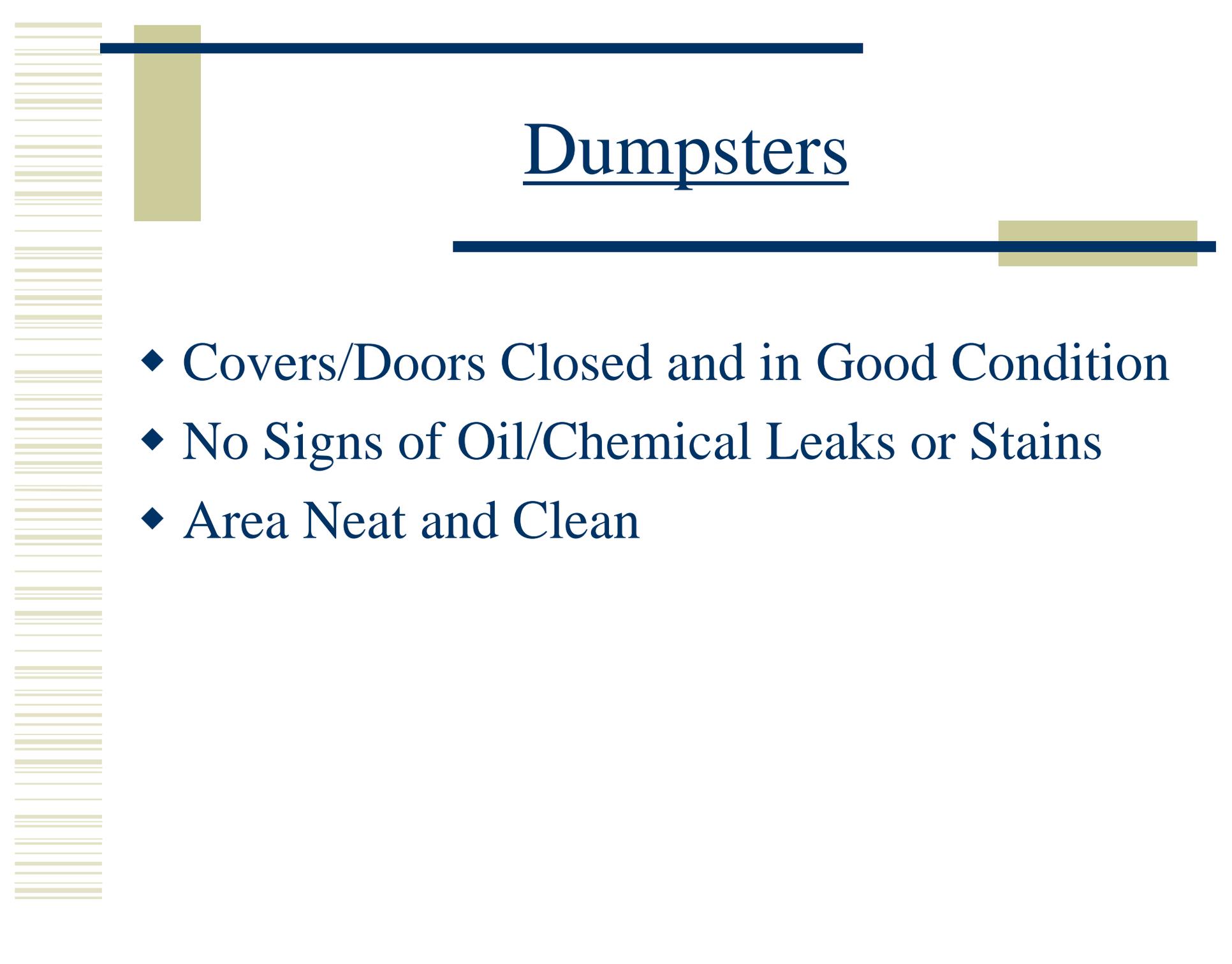


Erosion

- ◆ Minimize Erosion
- ◆ Erosion Control
 - Construct Silt Fences
 - Use of Hay Bales, etc.

Erosion Control (silt fence) not in good condition





Dumpsters

- ◆ Covers/Doors Closed and in Good Condition
- ◆ No Signs of Oil/Chemical Leaks or Stains
- ◆ Area Neat and Clean

Spill from a garbage dumpster



Clean Air Act

- ◆ Permits may be required for:
 - Vapor Degreasers (usually significant)
 - Parts Washers (typically insignificant)
 - Paint Booths (size dependent)
 - Tanks (size dependent)
 - Grit Blasters (typically insignificant)
 - Machine Shops (typically insignificant)

Phone Numbers

- ◆ 4-4246 - EED
- ◆ 4-3919 or 911 - Spills
- ◆ 4-9578 - Hazardous Waste

- ◆ OR CALL 4-HELP (4-4357)

- ◆ http://eemo.msfc.nasa.gov/environmental/briefings/bldg_mgr.pdf