

CHAPTER 5 POST-CONSTRUCTION

5.1 Introduction

Permanent erosion and sediment control best management practices (BMPs) are long-term measures that survive the design life of a project. The area where permanent BMPs have been applied should remain permanently stabilized until the area is disturbed again due to construction or in the case of maintenance, slides or floods. Permanent BMPs are designed to reduce or control erosion and are put in place during construction with beneficial results extending over a period of years.

Permanent erosion control is the prime consideration in a soil-disturbing project and, in contrast to temporary erosion control, is designed and planned for long-term benefits.

5.2 Post-Construction Management Goals

Permanent erosion and sediment control goals consist of:

- 1. Perimeter Controls**
 - a. Ensure that no sediment is leaving the project area.
- 2. Controls within the Project**
 - a. Use erosion and sediment controls that perform properly.
 - b. Minimize or eliminate erosion.
 - c. Complete stabilization of the site.
- 3. Final Product**
 - a. Complete stabilization and no erosion prior to final acceptance.
 - b. Achieve Notice of Termination.

5.3 Best Management Practices (BMP)

Post-construction involves the use of the following BMPs:

- *PC-1 Channel Protection–Check Dams*
- *PC-2 Sheet Flow to Buffers*
- *PC-3 Channel Protection–Flexible Liners*
- *PC-4 Channel Protection–Rigid Channel Liner*
- *PC-5 Dikes and Berms*
- *PC-6 Dry Swale*
- *PC-7 Wet Swale*
- *PC-8 Geosynthetics*
- *PC-9 Surface Sand Filter*
- *PC-10 Subsurface Sand Filter*
- *PC-11 Perimeter Sand Filter*
- *PC-12 Organic Filter*
- *PC-13 Pocket Sand Filter*

- *PC-14 Bioretention*
- *PC-15 Inlet/Outlet Protection*
- *PC-16 Interceptor Ditches*
- *PC-17 Retaining Walls*
- *PC-18 Stormwater Basins*
- *PC-19 Extended Detention Basin with Micropool*
- *PC-20 Wet Basin*
- *PC-21 Wet Extended Detention Basin*
- *PC-22 Shallow Wetland*
- *PC-23 Extended Detention Shallow Wetland*
- *PC-24 Pond/Wetland System*
- *PC-25 Pocket Wetland*
- *PC-26 Sediment Control Box*
- *PC-27 Infiltration Trench*
- *PC-28 Infiltration Basin*
- *PC-29 Slope Drains/Chutes/Flumes*
- *PC-30 Rock Armor/Rock Mulch/Turf Reinforcement Mats*
- *PC-31 Serrations and Roughening*
- *PC-32 Terraces and Benches*
- *PC-33 Top Soil Management*
- *PC-34 Vegetation/Seeding*
- *PC-35 Vegetation/Planting*
- *PC-36 Water Quality Inlet Oil/Grit Separator*
- *PC-37 Street Sweeping*
- *PC-38 Deep Sump Catch Basin*
- *PC-39 On-Line Storage in Storm Drain Network (Vaults)*
- *PC-40 Porous Pavements*
- *PC-41 Proprietary/Manufactured Systems*