



Cedar Grove Landscape & Construction Services

<http://www.cedar-grove.com/services.asp>

MEETING THE SOIL QUALITY & DEPTH BMP

Healthy soils absorb and filter stormwater, and grow vigorous plants that prevent erosion - BMP T5.13 in WDOE's Stormwater Management Manual for Western Washington requires compost amendments to restore soils disturbed during development.



Cedar Grove can help you find economical ways to restore soils at each site:

- Standard & custom topsoil mixes meeting BMP requirements
- Composts for amending & mulching
- Assistance with determining custom amendment rates
- Screening and mixing of graded soil
- Clean fill soils to adjust grades
- Compost-based erosion controls that can be reused on site as soil amendment



Soil Quality & Depth BMP requirements:

- Restore disturbed soils to 8" depth
- Mix compost into disturbed soil; or import topsoil amended with compost.
- Restore to 5% organic content in turf areas / 10% in planting beds, using either default compost rates (1.75" for turf, 3" in beds), or custom rates based on soil tests.
- Scarify compacted subsoils 4".
- Mulch beds with 2" organic mulch

King County – 17825 Cedar Grove Rd. SE, Maple Valley
Snohomish County – 3620 36th Pl. NE, Everett

877-764-5748 (Toll Free)

Cedar Grove Specifications To Meet *Soil Quality & Depth* BMP

MEETS WDOE BMP T5.13 AND KING COUNTY KC16.82 REQUIREMENTS

Disturbed soils not covered by impervious surfaces or developed as stormwater structures shall be restored to 8 inches deep, using one of the options below:

- OPTION 1: Mix a pre-approved volume of compost 8 inches deep into site soil. Graded soils may be stockpiled, amended and reapplied.
- A. Turf areas: Mix 1.75 inches of compost into soil.
 - B. Planting beds: Mix 3 inches of compost into soil.
- OPTION 2: Mix into site soil a volume of compost calculated based on dry bulk density and organic matter content by loss on ignition method (LOI) tests of the soil and compost. Use test results to figure volume of compost required using Soil Amendment Calculator at: (http://your.kingcounty.gov/solidwaste/compost_calculator.htm)
- A. Turf area soils shall be restored to 5% organic content (LOI).
 - B. Planting bed soils shall be restored to 10% organic content (LOI).
- OPTION 3: Import topsoil containing adequate organic matter (LOI).
- A. Turf area topsoils shall contain 4-5% organic content (typically 25-35% compost by volume).
 - B. Planting bed soils shall contain 8-10% organic content (typically 40-50% compost by volume).

COMPOST

Compost shall be the result of the biological degradation of Type I or III Feedstocks, under controlled conditions designed to promote aerobic decomposition, per WAC 173-350-220, and meet the following physical criteria.

Approved products meeting the specification include Cedar Grove Compost.

1. Compost shall be certified in compliance with U.S. Composting Council Seal of Testing Assurance (STA) program "Fine" compost.
2. Compost shall have an organic matter content of 40% to 60% as determined by "loss on ignition" test method.
3. Carbon to nitrogen ratio shall be less than 25:1. May be up to 35:1 for plantings composed entirely of plants native to Puget Sound lowlands region.
4. Feedstocks shall originate from local recycling collection programs.



TOPSOIL

Topsoil shall be a mixture of compost meeting requirements above, and sand or sandy loam per USDA soil texture classification.

1. Topsoil for turf areas shall contain 4 to 5% organic matter. **Approved products meeting the specification include Cedar Grove Builders Topsoil Mix.**
2. Topsoil for planting beds shall contain 8 to 10% organic matter. **Approved products meeting the specification include Cedar Grove Two Way Topsoil Mix.**
3. Sand or sandy loam shall be free of weeds, rocks and deleterious materials.
4. 100% of topsoil shall pass through a 3/4" screen, less than 5% shall pass through a #200 sieve.

SCARIFICATION

Scarify compacted sub grades a minimum of 4 inches deep before placing topsoil, or to 4 inches deeper than required to mix amendments to 8-inch depth. Entire surface should be disturbed, except within drip line of trees to be retained.

MULCH

Planting beds shall be mulched with 2 inches of coarse compost or shredded bark.