

*** DRAFT – NOT FOR FILING ***

3745-512-650

Cap system protection layer.

(A) The cap system protection layer shall be constructed with soils meeting the following criteria:

- (1) Have a plasticity index between 5.0 and 25.0.
- (2) Have a maximum organic content of five per cent.
- (3) Have a maximum silt content of 65.0 per cent.
- (4) If the plasticity index is less than 15.0, the soil shall have less than 50.0 per cent dispersion.
- (5) Have sufficient fertility in the uppermost portion to support vegetation.
- (6) Be comprised of a soil that shall result in an erosion rate of not more than five tons per acre per year as calculated using the "Universal Soil Loss Equation," "Revised Universal Soil Loss Equation," or the "Water Erosion Prediction Project Model" as described in rule 3745-500-03 of the Administrative Code corresponding to the maximum slope length between ditches and assuming disturbed soils and that the soils are highly susceptible to rill erosion.

(B) Not later than seven days after construction, the owner or operator shall cover the cap system protection layer with mulch or other material. The mulch or other covering material shall result in an erosion rate of not more than five tons per acre per year as calculated using the "Universal Soil Loss Equation," "Revised Universal Soil Loss Equation," or the "Water Erosion Prediction Project Model" as described in rule 3745-500-03 of the Administrative Code corresponding to the maximum slope length between ditches and assuming the mulch or other material is a disturbed soil that is highly susceptible to rill erosion.

(C) Testing of material used for the cap system protection layer shall be performed by the owner or operator in conformance with the following:

- (1) Pre-construction testing on representative samples to determine shear strength in accordance with rule 3745-512-10 of the Administrative Code.
- (2) Pre-construction testing on representative samples in accordance with rule 3745-512-15 of the Administrative Code

(D) Certification of the cap system protection layer by the owner or operator shall include the following:

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- (1) Record drawings showing the location, including the run-out if applicable, and plan views with topographic representation of the basal and final elevations of the protection layer, as constructed.
- (2) The table of survey information described in rule 3745-512-50 of the Administrative Code and a comparison of the survey data of the final elevations to the elevations in the authorizing document.
- (3) Results of all testing and verification that the protection layer meets the standards in paragraphs (A) and (B) of this rule and the specifications in the authorizing document.