



# Stabilization on Construction Sites in SC

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# Erosion And Sediment Control



- **EROSION**—Processes that moves soil from one location to another.
- **SEDIMENT**—Material that is moved and deposited by erosion
- **SEDIMENTATION** – The deposition of the material.

# Requirements

- Provide stabilization to graded areas within 14 days of stopping grading in that area, both permanent and temporary.
- Preserve Topsoil
- Properly document stabilization on SWPPP.
- Permanent stabilization is required prior to filing a Notice of Termination.
- 70% Coverage is required to be considered permanently stabilized.

# Stabilization

- Provided within 14 days of stopping grading in that area.
- Can consist of matting, temporary seeding, some mulching, and some hydroseeding.
  - Any seeding needs proper amendments and water.
- Documented on the SWPPP



# Tracking of slopes



# Soil Amendments

- Obtain a soil analysis
- Provide all fertilizers and lime as necessary to grow grass
- Preserve topsoil and use on site
  - Stockpile and stabilize!



# Improper Stabilization



# Matting

- Used in...
  - Areas of concentrated flow, such as a ditchline.
    - Should be shown on the plans and engineered.
  - Along slopes that are over 8 feet in height
    - Should be shown on the plans and specified which matting is acceptable.
  - May be needed in other places as determined by the site needs.

# Types of Matting



# Hydroseeding

- Soil is to be properly prepared.
- An adequate cover of hydromulch is needed.
- Is not instant stabilization.
- Some work better than others.



# Temporary Seeding

- Cannot be substituted for Permanent seeding.
- Typically only lasts for about 6 months.
- Typically is a majority of annual grasses, such as:

## Browntop Millet



## Rye Grain



# Permanent Stabilization

## Tall Fescue



## Bahia Grass



## White Clover





**TABLE 1: PERRENIALS** \* Months shaded in gray represent applicable planting dates.

COMMON NAME <sup>5</sup>	BOTANICAL NAME	APPROVED SITE(S)	PLANTING RATE (lbs/acre)	PLANTING LOCATION	Planting Dates*											
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>TURF-TYPE GRASSES (SELECT ONE)</b>																
Bahia <sup>1</sup>	Paspalumnotatum	Slopes	30	UpperState												
				LowerState												
Common Bermudagrass <sup>2</sup> (hulled = hull absent)	Cynodondactylon	Shoulders, Slopes, or Medians	25	UpperState												
				LowerState												
Common Bermudagrass <sup>2</sup> (unhulled = hull present)	Cynodondactylon	Shoulders, Slopes, or Medians	30	UpperState												
				LowerState												
Carpet Grass	Axonopusaffinis	Shoulders, Slopes or Medians	15	UpperState												
				LowerState												
Tall Fescue	Festucaaruninacea	Shoulders, Slopes, or Medians	50	UpperState												
				LowerState												
Centipede <sup>3</sup>	Eremochloaophiuroides	Shoulders, Medians	10	UpperState												
				LowerState												
<b>GRASSES</b>																
Weeping Lovegrass	Erograstiscurvula	Slopes	5	UpperState												
				LowerState												
Indiangrass	Sorghastrumnutans	Slopes	10	UpperState												
				LowerState												
Little Bluestem	Andropogonscoparius	Slopes	10	UpperState												
				LowerState												
Coastal Panicgrass	Panicumamarum	Slopes	20	UpperState												
				LowerState												
Switchgrass	Panicumvirgatum	Slopes	10	UpperState												
				LowerState												
Perennial Rye Grass <sup>3</sup>	Loliumperrene	Shoulders, Slopes, or Medians	15	UpperState												
				LowerState												
Virginia Wild Rye	Elymusvirginicus	Shoulders, Slopes, or Medians	6	UpperState												
				LowerState												
<b>LEGUMES<sup>4</sup></b>																
White Clover	Trifoliumrepens	Shoulders, Slopes	5	UpperState												
				LowerState												
Sericea Lespedeza (Scarified seed)	Lespedeza cuneta	Slopes	50	UpperState												
				LowerState												
Sericea Lespedeza (Unscarified seed)	Lespedeza cuneta	Slopes	80	UpperState												
				LowerState												

<sup>1</sup>Bahia<sup>1</sup>:Bahia<sup>1</sup> may be used as an optional turf-type permanent cover at the discretion of the RCE. \* Months shaded in gray represent applicable planting dates.

<sup>2</sup>Common Bermudagrass: *Do not use Giant Bermudagrass(NK-37).*

<sup>3</sup>Perennial Rye Grass: *Do not use Annual Italian Rye grass (Loliummultiflorum).*

<sup>4</sup>Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.

<sup>5</sup>If the Common Name of the seed listed in Table 1 is not available, use seed with the listed Botanical Name.



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