

Georgia Department of Transportation ESPCP General Notes
Updated: August 26, 2008

DISCHARGES INTO, OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

READY MIX CHUTE WASH-DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of portland cement concrete is prohibited on this site. In accordance with standard Specification 107 - Legal Regulations and Responsibility to the Public, only the discharge "chute" utilized in portland cement concrete delivery may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travel way, including shoulders, for a wash/pit area. The pit shall be large enough to store all wash-down water without overlapping the pit. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above shall be graded to match the elevation of the surrounding areas smoothed out. Alternate wash down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down water pit location that includes the following: (1) the pit is located away from a storm drain, stream or river, (2) the pit is accessible to the vehicle being used for wash-down, (3) the pit has enough volume for wash-down water, and (4) make sure you have permission to use the area for wash-down. On some sites, you may not have permission or access to a location which allows for a wash-down pit. In those cases, the Contractor may have to wash-down into a wheelbarrow or other container and carry the container for transport to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

STREAM BUFFER ENCROACHMENT

Stream Buffers are impacted by this project.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

| Name (name or number of feature) | Location of Buffered Streams and State Waters ** | | | Stream Type (Warm/Cold Water) * | Buffer Impacted (Yes/No) | Buffer Variance Required? |
|----------------------------------|--|----------------------|-----------------------|---------------------------------|--------------------------|---------------------------|
| | Alignment | Begin Sta (Lt or Rt) | Ending Sta (Lt or Rt) | | | |
| Wetland #1 | S.R. 204 Spur | 277+73, LT | 314+00, LT | Warm | Yes | Yes |
| Stream #2 | S.R. 204 Spur | 298+62, CL | 307+73, CL | Warm | Yes | Yes |
| Wetland #3 | S.R. 204 Spur | 321+08, LT | 328+00, LT | Warm | Yes | Yes |
| Pond #4 | S.R. 204 Spur | 323+86, RT | 325+66, RT | Warm | Yes | No |
| Wetland #5 | S.R. 204 Spur | 323+50, RT | 325+20, RT | Warm | Yes | Yes |

Construction activities within the stream buffers consist of re-alignment of SR 204 Spur and relocation of the Boat Ramp Driveway, grading and drainage, shoulder and ditch construction, new pavement, and bridge construction are the major construction activities.

*Warm water streams have a 25-foot minimum buffer as measured from the wretted vegetation. Cold Water streams have a 50-foot buffer as measured from the wretted vegetation.

** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.

| EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV |
| INSTALLATION OF CONSTRUCTION EXIT, PERIMETER SILT FENCE & ORANGE BARRIER FENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRIDGE SUBSTRUCTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEARING & GRUBBING | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRELIMINARY GRADING | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION OF STORM DRAIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INSTALL GRADING PHASE EROSION MEASURES | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PAVEMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINE GRADING | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINAL GRASSING | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REMOVE TEMPORARY EROSION MEASURES AND ORANGE BARRIER FENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VEGETATION AND PLANTING SCHEDULE

ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES INCLUDING PLANT SPECIES, PLANTING DATES, SEEDING FERTILIZER, LIME AND MULCHING RATES FOR THIS PROJECT CAN BE FOUND IN SECTION 700 OF THE CURRENT EDITION OF THE DEPARTMENT'S SPECIFICATIONS AND OTHER APPLICABLE CONTRACT DOCUMENTS, SPECIAL PROVISIONS, OR LANDSCAPING PLANS.

THE SEEDING TABLE BELOW SHOULD BE USED IN DETERMINING GRASS SPECIES DEPENDENT ON PLANTING DATES. CHATHAM COUNTY IS IN PLANTING ZONE 4.

APPLY FERTILIZER AS FOLLOWS:

AGRICULTURAL LIME-UNIFORMLY SPREAD AGRICULTURAL LIME ON THE GROUND AT APPROXIMATE RATE DETERMINED BY THE LABORATORY SOIL TEST.

FERTILIZER MIXED GRADE-UNIFORMLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1200 LBS/ACRE. IF USING HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME RATE PER ACRE AS THE STANDARD FERTILIZER.

SELECT FERTILIZER MIXED GRADE SUCH AS 10-10-10, 6-12-12, 5-10-15, OR OTHER ANALYSIS WITHIN THE FOLLOWING LIMITS:

NITROGEN 5 TO 10 PERCENT
PHOSPHORUS 10 TO 15 PERCENT
POTASSIUM 10 TO 15 PERCENT
IF USING MIXED GRADE FERTILIZER FOR HYDROSEEDING, ENSURE IT HAS THE FOLLOWING ANALYSIS:
NITROGEN 5 TO 19 PERCENT
PHOSPHORUS 10 TO 19 PERCENT
POTASSIUM 10 TO 19 PERCENT

MONITORING GENERAL NOTES:

Representative sampling may be utilized on this project. The characteristics of the individual watersheds along the project corridor have been carefully evaluated and compared on the basis of drainage characteristics, watershed size, land disturbance and earth work. After evaluation of these items as presented in the projects drainage area maps, hydrology and hydraulic studies, construction plans and erosion sedimentation and pollution control plans, it has been determined that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site. Approved primary and alternate representative monitoring sites are identified in the table:

| Monitoring site | Primary or Alternate Site | Location (Sta. and Side) | Name of Receiving water | Applicable construction stage for monitoring | Sampling Type (Outfall or Receiving Water) | Drainage Area | Site Size | Warm or Cold water Stream | Appendix B NTU value (outfall Monitoring Only) | Allowable NTU Increase (For Receiving Water) | Location Description |
|-----------------|---------------------------|--------------------------|-------------------------|--|--|---------------|-----------|---------------------------|--|--|----------------------|
| 1. | Primary | 284+50, LT | Skidaway Narrows | Stage 1,2,3 | Outfall | 0.36 Ac | 20.7 Ac | Warm | 50 | | Temp. Cross Drain |
| 2. | Alternate | 286+80, LT | Skidaway Narrows | Stage 1,2,3 | Outfall | 1.52 Ac | 20.7 Ac | Warm | 50 | | Temp. Cross Drain |
| 3. | | | | | | | | | | | |

The primary site specified should be used as the initial sampling location. The alternate sampling sites may be used if additional sampling is required and/or if the primary sampling site is no longer located within the active phase of construction.

MULCHING SCHEDULE

| MULCHING MATERIAL | RATE/ACRE |
|-------------------|----------------|
| DRY STRAW OR HAY | 2.5 TONS |
| WOOD WASTE, CHIPS | 6 TO 9 TONS |
| SAWDUST, OR BARK | (2 TO 3" DEEP) |

| PLANTING ZONES | PLANTING DATES | POUNDS (KG) OF SEED PER ACRE (HECTARE) | | | | | | | | REQUIRED PERMANENT PLANTING | |
|----------------|---------------------------|--|-------------------------------|---------------------------------|-------------|--------------------|-------------------------|--------------|--------------------------------|-----------------------------|----------------------------------|
| | | RYE GRASS WILLET CEREAL GRASS (GATS) | COMMON BERMUDA GRASS (HULLED) | COMMON BERMUDA GRASS (UNHULLED) | TALL FESCUE | WEeping LOVE GRASS | WHITE OR CRIMSON CLOVER | COMMON VETCH | SCARIFIED INTERSTATE LESPEDEZA | | UNSCARIFIED INTERSTATE LESPEDEZA |
| 1 | MARCH 1 - MAY 15 | 10 (11) | 10 (11) | 50 (56) | | | | | | | |
| 1 | MAY 1 - JULY 31 | 10 (11) | 10 (11) | | | | | | | | |
| 1 | AUGUST 1 - FEBRUARY 28 | 15 (17) | | | | | | | | | COMMON BERMUDA GRASS |
| 1 | NOVEMBER 15 - JANUARY 31 | | | | | 6 (7) | | | | | |
| 2, 3, 4 | FEBRUARY 25 - AUGUST 31 | 10 (11) | 10 (11) | | | | | | | | |
| 2, 3, 4 | SEPTEMBER 1 - FEBRUARY 14 | 15 (17) | | | | | | | | | COMMON BERMUDA GRASS |
| 2, 3, 4 | NOVEMBER 15 - JANUARY 31 | | | | | 6 (7) | | | | | |

| PLANT THESE COMBINATIONS ON BACK SLOPES. FILL SLOPES AND AREAS WHICH WILL NOT BE SUBJECT TO FREQUENT MOWING | | | | | | | | | | | |
|---|---------------------------|--|--|---------|---------|-------|--|---------|---------|---------|-------------------------------------|
| 1, 2 | MARCH 1 - JULY 31 | | | | | 4 (5) | | | 50 (56) | | INTERSTATE LESPEDEZA OF CROWN VETCH |
| 1, 2 | AUGUST 1 - FEBRUARY 28 | | | | 30 (34) | | | 15 (17) | | 75 (84) | |
| 3, 4 | AUGUST 15 - AUGUST 31 | | | | | 4 (5) | | | 50 (56) | | INTERSTATE LESPEDEZA |
| 3, 4 | SEPTEMBER 1 - FEBRUARY 14 | | | 50 (56) | | | | | | 75 (84) | |

REVISION DATES
REVISED 7/19/10

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
ESPC GENERAL NOTES

