

ALABAMA DEPARTMENT OF TRANSPORTATION

DATE: September 10, 2019

Special Provision No. 18-0700

EFFECTIVE DATE: January 1, 2020

SUBJECT: Stormwater Turbidity Control.

Alabama Standard Specifications, 2018 Edition, SECTION 672 shall be revised as follows:

SECTION 672 STORMWATER TURBIDITY CONTROL

672.02 Materials.

Article 672.02 shall be replaced with the following:

672.02 Materials.

(a) Active Treatment System.

The Active Treatment System shall be designed to treat and reduce the turbidity level of construction stormwater discharges to meet state water quality standards and the requirements of the NPDES Construction General Permit at the flowrate required in the plans. The Active Treatment System flowrate specified is designed to dewater the basin within 10 hours. Typical equipment and materials may include pumps, manifolds, flocculants, filter bags, sand media filters and other items designed to remove suspended materials from construction stormwater. The Contractor shall submit to the Engineer the proposed Active Treatment System for review as part of the Contractor's Stormwater Management Plan that is described in Subarticle 108.04(b).

(b) Flocculant.

Flocculant shall be of the type that is manufactured for use in reducing turbidity caused by soil erosion and sediment transport. All forms of Flocculant utilized on a project shall be compatible and shall be provided from a single manufacturer. Flocculant may be in the form of blocks, powder, sock sets or other non-liquid forms. Liquid forms of Flocculant may only be utilized in a monitored active treatment system. The Contractor shall be responsible for the testing of the project soil and potential sediment and for the proper selection of those Flocculants that have a soil specific chemical makeup. Flocculant application rates shall be per the manufacturer's recommendations.

A list of acceptable Flocculants (LIST II-24 "TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRODUCTS") is given in the ALDOT manual titled "Materials, Sources, and Devices with Special Acceptance Requirements". For Flocculants without prior acceptance, Contractor shall submit to the Engineer three copies of documentation of the effectiveness of the Flocculant, Material Safety Data Sheets, and the manufacturer's 7-day Chronic Ceriodaphnia Reproduction Testing for review and approval by the State Construction Engineer prior to use on the project.

(c) Contractor Retained Turbidimeters.

Turbidimeters shall be devices capable of measuring the nephelometric turbidity units (NTU) of construction stormwater that meets the following requirements:

- Portable waterproof device that meets USEPA Method 180.1 with a 0-1000 NTU range;
- Sample Tubes, Calibration Kit, and Protective Carrying Case;
- Rechargeable Battery, USB Interface, Cable, and Computer Software.

A list of equipment acceptable for use in this application (List II-24 "TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRODUCTS") is given in the ALDOT manual titled "Materials, Sources, and Devices with Special Acceptance Requirements". Information concerning this list is given in Subarticle 106.01(f).