

SPECIAL SPECIFICATION

5049

Biodegradable Erosion Control Logs

1. **Description.** Furnish, install, maintain, and remove biodegradable erosion control logs as shown on the plans or as directed.
2. **Materials.**
 - A. **Core Material.** Furnish core material that is biodegradable or recyclable. Except where specifically called out in plans, material may be compost, mulch, aspen excelsior wood fibers, chipped site vegetation, agricultural rice or wheat straw, coconut fiber, 100% recyclable fibers, or any other acceptable material. No more than 5% of the material is permitted to escape from the containment mesh. Furnish compost, meeting the requirements of Item 161, "Compost."
 - B. **Containment Mesh.** Furnish containment mesh that is 100% biodegradable, photodegradable or recyclable such as burlap, twine, UV photodegradable plastic, polyester, or any other acceptable material.
 - i. Furnish biodegradable or photodegradable containment mesh when log will remain in place as part of a vegetative system.
 - ii. Furnish recyclable containment mesh for temporary installations.
 - C. **Size.** Furnish biodegradable erosion control logs with diameters shown on the plans or as directed. Stuff containment mesh densely so logs do not deform.
3. **Construction.** Install biodegradable erosion control logs near the downstream perimeter of a disturbed area to intercept sediment from sheet flow. Incorporate the biodegradable erosion control logs into the erosion control measures used to control sediment in areas of higher flow. Install, align, and locate the biodegradable erosion control logs as specified below, as shown on the plans, or as directed.
 - A. **Anchoring.** Secure biodegradable erosion control logs in a method adequate to prevent displacement as a result of normal rain events and to the satisfaction of the Engineer and such that flow is not allowed under the logs.
 - B. **Maintenance.** Inspect and maintain the biodegradable erosion control logs in good condition (including staking, anchoring, etc.). Maintain the integrity of the control, including keeping the biodegradable erosion control logs free of accumulated silt, debris, etc., until permanent erosion control features are in place, or the disturbed area has been adequately stabilized. Perform in accordance with Section 506.4.C, "Installation, Maintenance and Removal Work." Stabilize the areas damaged by the removal process using appropriate methods as approved.

Repair or replace damaged biodegradable erosion control logs as required and as directed. Temporarily remove and replace biodegradable erosion control logs as required to facilitate work. Remove sediment and debris when accumulation affects the performance of the devices, after a rain, and when directed. Dispose of sediment and debris at an approved site in a manner that will not contribute to additional siltation.

C. Removal. Remove biodegradable erosion control logs when directed.

- 4. Measurement.** This Item will be measured by the linear foot along the centerline of the top of the control logs.
- 5. Payment.** The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Biodegradable Erosion Control Logs,” of the size specified. This price is full compensation for furnishing, placing, maintaining, temporarily removing and replacing as required to facilitate construction operations, and removing of the biodegradable erosion control logs and for all other materials, labor, tools, equipment, and incidentals.

Removing accumulated sediment deposits, as described under “Maintenance,” will be measured and paid for under Item 506, “Temporary Erosion, Sedimentation, and Environmental Controls.”

Stabilization (as described under “Maintenance”) will be measured and paid for under the various pertinent bid items.