

PROJECT PROFILE



Project Basics

Project Name: Commerical Site Channel Dissipation
Installation Date: Fall 2020
Product Type: Western Green WattleFence
Project Location: Georgia

Project Overview

Ongoing construction on this Georgia project location, resulted in temporary, but erosive soil exposure. In many areas, the water concentrates and becomes a drainage area for the larger construction site during storm events. As fall set in, and construction continued, sediment control solutions were needed to help mitigate sediment migration from the project site onto neighboring lands. The solution needed to handle the heavy silt clay soils, allow for easy access around the site both for equipment and foot traffic, and be able to hold up under the winter rainy season until construction and final stabilization could finish in spring 2021.

Installation

The WattleFence was selected for the stabilization job. Needing little to no soil prep, and no trenching, the WattleFence was installed directly into the existing channelized area. The WattleFence utilizes a multi-layered fabric and coconut fleece unit with a splash apron to capture, filter, and dissipate water energies. The splash apron is installed with staples facing upstream, and helps to capture sediment and debris. A series of wood stakes are used on 3-4 ft spacing to support the final WattleFence Unit. A single unit of WattleFence is coiled into a 100 linear foot unit and is easy to handle and install.

Performance

The dual filtration design of the WattleFence, allows the tail and multiple layers of fabric on the lower portion to provide more restriction to flow, allowing more sediment to settle and increasing the filtration effect at low flows. As the flow rates rise, the upper section is less restrictive, increasing the unit flow rate to allow the greater flow to pass. The higher flows are handled without compromise of the system or significant reduction in overall performance. After 3 months in place, the WattleFence has provided the sediment capture and control needed on this active construction site.



Newly installed WattleFence requires no trenching (top), under heavy rain events the WattleFence did not overtop allowing filtration and sediment capture throughout the full unit height (middle), 3 months after installation, the unit continues to capture and filter sediment (middle).

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