

MS 4 NPDES CARROLL COUNTY AIRPARK WATERSHED RESTORATION

Carroll County, MD



WBCM provided design for this stormwater management facility as a watershed retrofit to comply with a condition of the NPDES permit. WBCM designed an extended detention shallow wetland system to provide water quality treatment for a 206-acre watershed. The project goal is to improve water quality within the watershed that drains into the West Branch of the Patapsco River Watershed, which is a drinking water supply for Baltimore City, Maryland. Specific pollutants target were phosphorous and sediment. An existing concrete inflow channel to the pond will be removed and replaced with a meandering natural channel section to provide additional pre-treatment. WBCM also designed the erosion and sediment control measures, supervised plan preparation, prepared specifications and the construction cost-estimate.

In addition to water quality, the retrofitted pond was designed to provide channel protection and the ultimate conditions 10-year peak discharge. Furthermore, the embankment will be raised to safely pass the 100-year peak discharge to comply with MD Pond Code 378 criteria. WBCM also provided landscaping to enhance water quality and provide aesthetic and wildlife value.

Client: Carroll County Department of Planning
Total Construction Cost: \$500,000.00
Project Size: N/A

WBCM Services: NPDES, Stormwater
Management, Erosion and Sediment Control,
Permitting, and Landscape Architecture