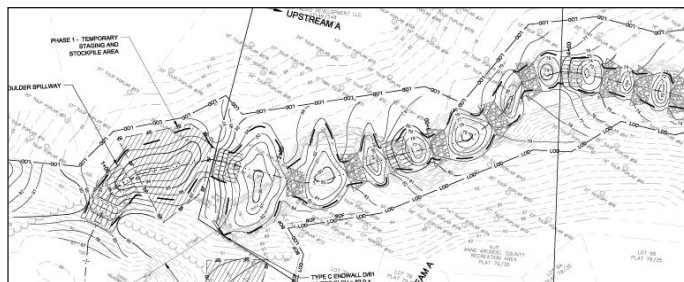


Barrensdale Outfall Restoration

Anne Arundel County, Maryland



top: Biohabitats' restoration plan; middle and bottom: Initial conditions

Decommissioning a stormwater management pond and restoring an eroded outfall channel and tributary using sand seepage wetlands and regenerative stormwater conveyance will significantly reduce the nutrient and sediment loads to the Cypress Creek subwatershed.

Biohabitats, along with subconsultant Century Engineering, provided the Anne Arundel County Department of Public Works with design and construction phase services associated with the decommissioning of a Natural Resources Conservation Services Maryland 378 pond.

The project involved embankment modification, crest weir design, pipe slip-lining, demonstration and achievement of credit for stormwater quality management, and safe conveyance of the 100-year storm along an unnamed tributary

of Dividing Creek through a sand seepage wetland and Step Pool Storm Conveyance System complex. The project also reconnected the tributary to its floodplain, further enhanced nutrient uptake along the stream, stabilized the channel and banks, and improved the system's ecological functions.

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