

**New York City Department of Environmental Protection
Bureau of Water Supply**

**Report on Stormwater Remediation Projects for
East of Hudson NPS Program**

December 2016

*Prepared in accordance with Section 4.9 of the NYSDOH
Revised 2007 Filtration Avoidance Determination*



Prepared by: DEP, Bureau of Water Supply

Report on Stormwater Remediation Projects for East of Hudson NPS Program.

The following provides a summary and status update of the two Stormwater Remediation Projects for October 1, 2016 – December 31, 2016. Both projects are in the design phase.

Maple Avenue, Town of Bedford, Westchester County

The Maple Avenue site consists of two roadside ditches located in the Cross River Reservoir watershed. To prevent the continued buildup of sediment along the hillside and water's edge, a sediment and gravel collection system was designed to concentrate deposition at a location where it can be easily accessed and periodically cleaned. The deposition control system includes a hydrodynamic device and filter practice. DEP will also install improvements to the swales consisting of installation of new catch basins with concrete headwalls, and widen and line a portion of the swales with rip-rap. These measures will ensure that a majority of the stormwater runoff is captured. The system is designed to handle the combined flow, with an engineered overflow controlling the flow of clean water over a weir and to the reservoir. From 2011 to 2015, DEP worked to complete design and secure the necessary permits from the Town of Bedford. The project will be bid with the Drewville Road project.

Drewville Road, Town of Carmel, Putnam County

The drainage area for the project includes asphalt paving on Drewville Road and Drew Lane, impervious roof tops, asphalt paved parking lots, and wooded and grassy areas. Runoff from the drainage area is collected in a roadside drainage ditch on Drewville Road and drains to Croton Falls Reservoir. The primary objectives of the project are to repair the drainage ditch to prevent erosion within the ditch, prevent undermining of the rock wall adjacent to the ditch, and reduce the amount of sediment deposition in the woods and along the shoreline of the Croton Falls Reservoir. The stormwater measures consist of a forebay and a micropool which will extend the detention time of the stormwater, allowing solid material to drop out.

Since 2011 DEP has been working to satisfy the requirements of the Town of Carmel in their review of the project. On July 21, 2016 the Town of Carmel tree cutting permit was renewed for 1 year and the wetland permit was renewed for 2 years. On September 14, 2016 the Town of Carmel Planning Board granted final site plan approval. During the reporting period, DEP has been working to resolve an additional permitting requirement with the Town of Carmel. This setback results from the Town of Carmel's requirement that DEP pay for an engineering inspection fee for the removal of trees within the limits of disturbance. DEP is currently in the process of providing the Town with the \$47,150 for the engineering fee. No construction is allowed on the site until the engineering fee is paid to the Town and the drawings are approved. In November, DEP received the permit for stormwater discharges from construction activities under SPDES General Permit. The project will be bid with the Maple Avenue project.