

## Closure Memo

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**Date:** November 11, 2014

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**Project:** Street Swale Infrastructure Initiative (NY)

**Number:** 1401.11.028716

**Grantee:** Regional Plan Association

**Project Description:** The project will prepare a plan required to install two bioretention basins to detain and filter 7,700 gallons of polluted stormwater runoff annually flowing into the Long Island Sound and detain runoff from 11,420 sq ft of impervious highway surfaces from a 1.2" under Long Island Expressway near the Van Wyck Expressway to illustrate the potential of "green infrastructure" to improve water quality.

### **Final Products:**

- Prepare a plan required to install two bioretention basins to detain and filter 7,700 gallons of polluted stormwater runoff annually flowing into the Long Island Sound and detain runoff from 11,420 sq ft of impervious highway surfaces under Long Island Expressway near the Van Wyck Expressway to illustrate the potential of "green infrastructure" to improve water quality.

Designed a bioretention system to detain stormwater from the project site sub-watershed for the average 1.2" New York City storm.

Constructed and the planted bioremediative plants and soil media at the site and monitored three years of performance of location.

Prepared a prospectus on the benefits of the bioretention system for use in approaching municipalities about opportunities for stormwater detention along the Long Island Sound shoreline, notably the renderings of the facility in Flushing Meadow Park.

Developed a GIS model and conducted a preliminary assessment of the bioretention system's applicability throughout the Long Island Sound shoreline, by considering publicly owned park lands with elevated highways and their proximity to impaired waterways, combined sewer outfalls, and priority ecological restoration sites. The GIS methodology identified priority 58 areas to target green infrastructure projects located on public parkland.

Contacted local partners in Bridgeport CT, Stamford CT, and NYC, as well as discussing the feasibility of the HOLD System at identified sites with representatives from ConnDOT and NYC Department of Parks and Recreation.

Visited seven potential sites in Connecticut and NYC with local partners, and summarized the GIS analysis and site visits in a final report.

Prepared EPA approved QAPP.

**LISFF award:** \$59,935

**LISFF funds spent:** \$59,935

**LISFF Match requirement:** \$176,110

**LISFF Match spent:** \$176,110

