



Comprehensive Evaluation of Alternative Strategies for Combined Sewer Overflow Reduction

New York City, New York

Horsley Witten Group is currently working with a Joint Venture (JV) team consisting of Hazen and Sawyer, Biohabitats and HydroQual under contract with the New York City Department of Environmental Protection, Bureau of Environmental Planning, on a major project in New York City to evaluate and implement a series of low impact design stormwater management measures to address reduction of combined sewer overflows (CSOs) and other discharges to the city's waterways.

The project involves the identification, design, construction, and monitoring of a set of pilot stormwater best management practices (BMPs) across a range of properties and in different applications including City owned and operated housing projects, City roads and highways, City Department of Public Works yards, and City owned and operated parks. A major objective of the project is to evaluate and test these low impact runoff reduction strategies as possible cost effective alternatives to big tanks/tunnel storage for CSO abatement. HW and the JV Team are also preparing a comprehensive BMP design manual for future project applicants to use for design and installation of these measures, and developing watershed management plans across Brooklyn and Queens to identify implementation locations.

Practices being considered include:

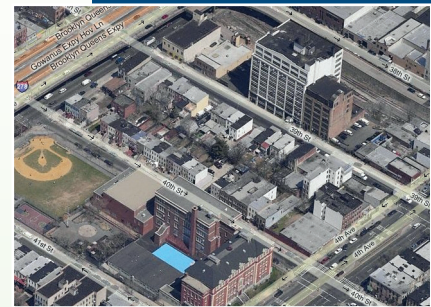
- Stormwater bioretention facilities and raingardens;
- Stormwater planters;
- Stormwater cisterns and rain barrels;
- Stormwater rooftop storage alternatives (green and blue roofs);
- Infiltration practices;
- Permeable pavement; and
- Alternative on-site wastewater treatment and disposal systems.

Client: William M. Leo, P.E.
HydroQual
201-529-5151 ext 7166

HW Contact:
Richard Claytor, Jr., P.E.

www.horsleywitten.com

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Sandwich, MA

90 Route 6A
Sandwich, MA 02563
tel: 508-833-6600

Newburyport, MA

30 Green Street
Newburyport, MA 01950
tel: 978-499-0601

Providence, RI

370 Ives Street
Providence, RI 02906
tel: 401-272-1717