

EAST RIVER AND OPEN WATERS

Total Watershed Drainage Area: **90,966 acres**
 Combined Sewer Contributory Area: **50,774 acres**
 Combined Sewer Contributory Impervious Area: **41,127 acres**
 Opportunity Area for Source Controls: **30,607 acres**

The goal is to manage stormwater from **10%** of the impervious surfaces in the combined sewer contributory area. There are opportunities in **53%** of the combined sewer contributory area.

Opportunities in Combined Sewer Contributory Area	Acres	% of Watershed
New development/redevelopment	3,124	5%
Vacant lots	1,259	2%
Right-of-way	14,590	25%
Planned ROW Projects	506	1%
Commercial corridors	683	1%
Other streets	9,292	16%
Other sidewalks	4,201	7%
Multi-family residential complexes	1,833	3%
Commercial development with parking lots	183	0.3%
Schools	1,030	2%
Parks	8,589	15%
TOTAL	30,607	53%

Wastewater Treatment Plant(s): **Red Hook, Newtown Creek, Bowery Bay, Wards Island, Hunts Point, Tallman Island, North River, Port Richmond, Owls Head**

NYSDEC Classification(s): **Class I – Secondary Contact, Boating and Fishing (East River, Harlem River, Hudson River and Upper bay)**
Class SA – Primary and Secondary Contact, Shellfishing (Lower Bay and Raritan Bay)
Class SB – Primary and Secondary Contact, Fishing and Bathing (East River, Hudson River, Lower Bay and Raritan Bay)
Class SD – Fish Survival (Arthur Kill and Kill Van Kull)

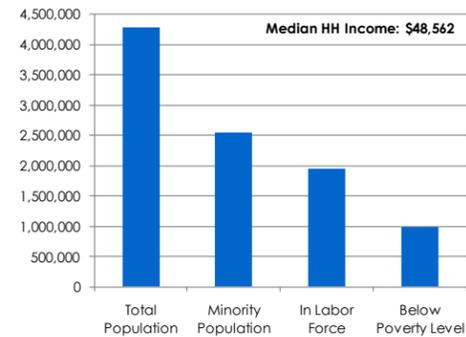
Ecological Classification(s): **Special Natural Waterfront Area (DCP, East River) Significant Coastal Fish and Wildlife Habitats (NYSDOS, Arthur Kill, East River, Hudson River, Kill Van Kull and Lower Bay)**

Existing Water Uses: **Commercial and Municipal Shipping and Barging, Recreational Boating, Fishing and Swimming, Shellfishing**

Shoreline Uses: **Residential, Commercial, Municipal, Industrial, Recreational, Institutional, Military, Swimming, Private Beach Clubs, Parks and Open Space**

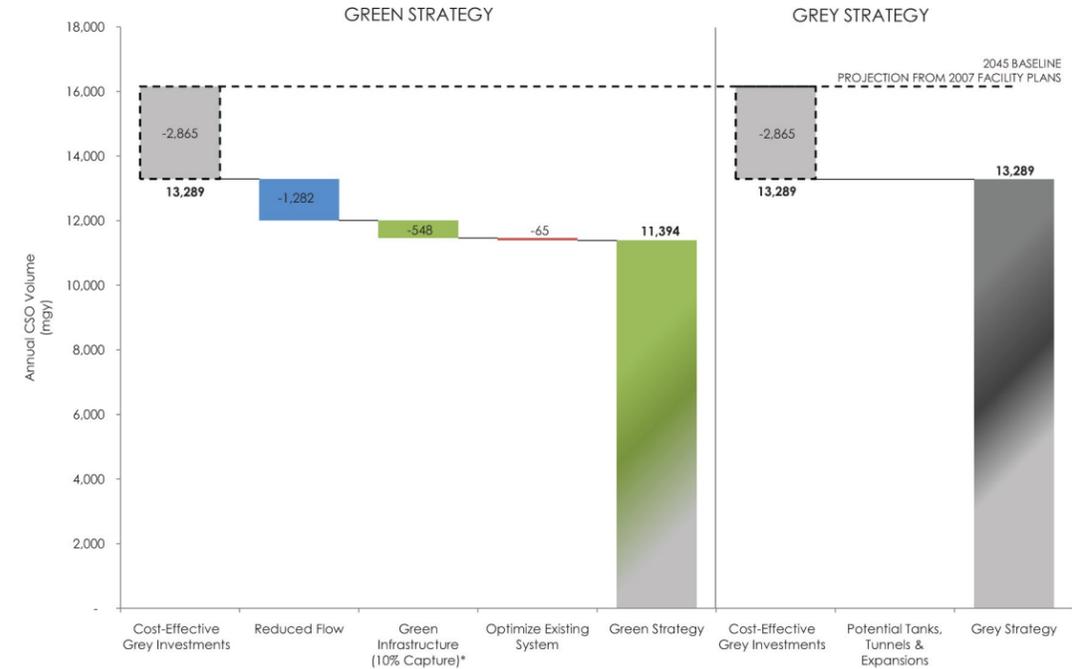
Borough(s): **all**

Community District(s):
Manhattan (1-12)
Bronx (1-5, 7, 8, 10)
Brooklyn (1-3, 7-12)
Queens (1, 2, 7)
Staten Island (1)

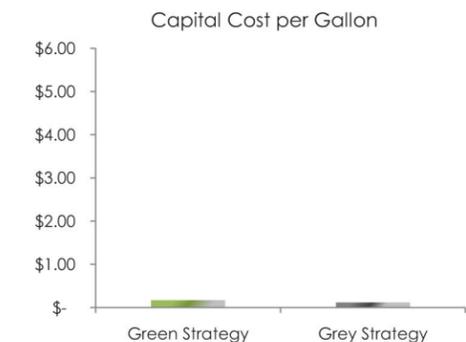
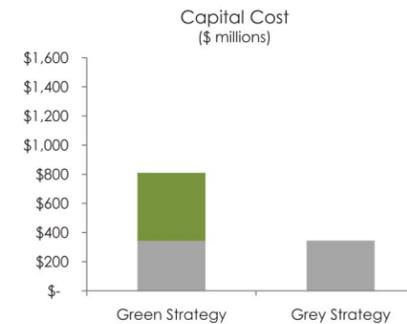


GREEN INFRASTRUCTURE PLAN

PERFORMANCE AND COSTS



* East River Green Infrastructure numbers only include private investment.



	CSO Volume Reduction (MG/yr)	Capital Cost (\$M)	Capital Cost per Gallon
Cost-Effective Grey Infrastructure Investments —Bowery Bay WWTP Headworks Improvements, Regulator Automation, Port Richmond Throttling Facility, In-Line Storage, East River Plan Regulator Improvements, Wards Island WWTP Flow Maximization, Gravity Diversion at Hannah Street Pump Station, Divert Low-Lying Sewers, Raise Weir at Regulator, Tallman Island WWTP Flow Maximization	2,865	\$345	\$0.12
PLUS Reduced Flow	1,282	-	-
PLUS Green Infrastructure (10% Capture)	548	\$463	\$0.84
PLUS Tide Gate Repair and Interceptor Cleaning	65	\$1	\$0.02
Green Strategy Total	4,760	\$808	\$0.17
Cost-Effective Grey Infrastructure Investments	2,865	\$345	\$0.12
PLUS Potential Tanks, Tunnels & Expansions	NA	NA	NA
Grey Strategy Total	2,865	\$345	\$0.12

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