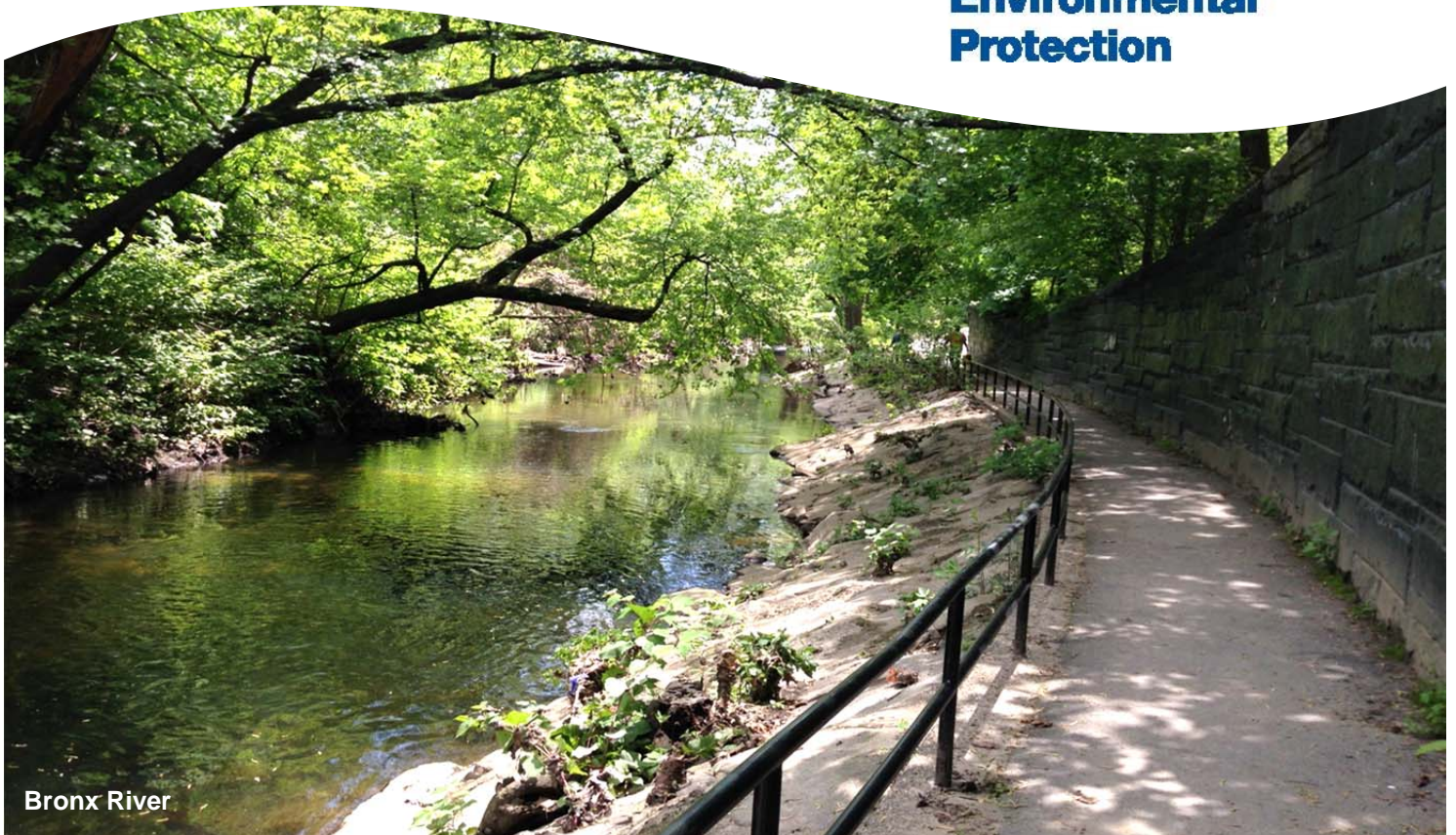# Bronx River
Combined Sewer Overflows Long Term Control Plan

The Bronx River is a tributary of the East River and flows generally from north to south through Westchester County and central Bronx County. The headwaters of the Bronx River are at Davis Brook and the Kensico Dam. The river extends south to its mouth, which is located between Hunts Point and Clason Point, where it empties into the East River. The northern portion of Bronx River, upstream of East Tremont Avenue, is freshwater. South of this point, the river is tidally influenced and brackish. Urban modifications over the last century led to the filling and paving of some parts of the river, its tributaries, and their attendant wetlands. The New York City Department of Environmental Protection (DEP) has committed more than $52 million to reduce pollution and improve water quality in Bronx River through floatable controls projects: in-line netting facilities at CSO outfalls HP-004 and HP-009 and mechanical screens at regulators CSO 27 and 27A (HP-007). Additionally, DEP has made green infrastructure investments on streets, sidewalks, and City-owned property. Some of these investments were recommendations of the July 2010 Waterbody Watershed Facility Plan, the first step in the development of a Long Term Control Plan (LTCP) for Bronx River.

For the Bronx River combined sewer overflow (CSO) LTCP, DEP has started to evaluate additional improvements to reduce CSO impacts on water quality and related recreational uses within this waterbody, and will continue to work with the New York State Department of Environmental Conservation. The goal of the CSO LTCP is to identify appropriate controls necessary to achieve waterbody-specific water quality standards, consistent with Federal CSO Policy and the water quality goals of the Clean Water Act.

Bronx River

Floatables Control

In 1995, as part of the Interim Floatables Containment Program (IFCP), a boom was placed across the Bronx River to retain floatables. The boom is located downstream of outfalls HP-004 and HP-007 in the area between Watson and Westchester Avenues. DEP regularly removes floatable debris from the boom with a skimmer boat. The skimmer boat collected a volume of about 1,245 cubed yards of floatables in 2008. The material collected from the boom is offloaded at the Bowery Bay WPCP for disposal.

Floatables Boom at Concrete Plant Park

Green Infrastructure

New York City's Green Infrastructure Program is a multiagency effort led by DEP. DEP and agency partners design, construct, and maintain a variety of sustainable green infrastructure (GI) practices such as bioswales, stormwater greenstreets, rain gardens and green roofs. GI practices collect and manage stormwater runoff from impervious surfaces such as streets, sidewalks, and rooftops. DEP has committed $1.5 billion in public funding for green infrastructure installations to manage one inch of stormwater runoff from 10% of the impervious area of the combined sewer areas of the City by 2030.

In the Bronx River watershed, DEP has launched Areawide contracts for bioswale and stormwater greenstreet construction in Bronx neighborhoods that are tributary to CSO outfalls HP008, HP009, HP004, and HP007.

Stormwater Greenstreet near Soundview Park

The 2030 target for the Bronx River waterbody is to manage 322 acres or 14% of the combined sewer impervious area through a combination of projects, such as the bioswale and stormwater greenstreet construction, and retrofits at New York City Housing Authority, the Department of Education and other City agency properties. To date, DEP has completed construction of rain gardens and subsurface detention systems at the Bronx River Houses and is currently constructing multiple GI types at Community School 300.

Bronx River NYSDEC Classification:

> Westchester County – **Class C** (Fishing)

> Between Westchester County and E. Tremont Ave – **Class B** (Bathing/Fishing)

> Downstream of E. Tremont Ave – **Class I** (Boating/Fishing)

Bronx River Watershed Statistics:

> Total Drainage Area: 27,338 acres

> NYC Drainage Area: 4,318 acres

> NYC Combined Sewer Contributory Area: 2,760 acres (64%)

> Wastewater Treatment Plant: Hunts Point

Legend
- ▲ CSO Outfall
- Bronx River
- Westchester County Watershed Boundary

Sewer System Type
- Combined
- Separate/Direct

WESTCHESTER COUNTY

BRONX

Freshwater/Saline Boundary

HP-007
HP-004
HP-008
HP-009
HP-010