



Paerdegat Basin Dredging

BROOKLYN, NEW YORK

Paerdegat Basin is one of ten sites in the *New York City Green Infrastructure Program*, a multiagency effort to meet New York State Department of Environmental Conservation (NYSDEC) requirements to reduce combined sewer overflow (CSO) and improve overall water quality in the NYC Harbor.

PROJECT HIGHLIGHTS

- Dredged 24,000 cubic yards (CY) of sediment from two areas of the Basin: 5,500 CY of sand at the Mouth End for navigation that was shipped and reused for brownfield redevelopment, and 18,500 CY of CSO sediment from the Head End, which was classified as Class C-contaminated material and required extensive environmental protection measures during / after dredging.
- Processed CSO sediment in Elizabeth, NJ and then shipped it to be reused for a mine reclamation project.
- Installed articulated concrete mats for scour protection adjacent to outfall structures and a sand cap along the Head End.
- Utilized engineering controls for mitigating emissions and noise.
- Employed bucket positioning technology to specify cut depth, minimize overdredging, & reduce disposal costs.
- Used bucket positioning technology for accurate, precise sand cap installation.
- Used shallow-draft dredges & barges to optimize dredging precision, which was a unique approach in the area.
- Utilized the same dredge for both dredging activities and sand cap installation, reducing costs.

Location:	Brooklyn, NY
Contractor:	Cashman Dredging & Marine Contracting Company, LLC
Contract Dates:	Jan. 2013 – July 2014
Dollar Value:	\$6.6 Million
Awarding Authority / Owner:	New York City Dept. of Environmental Protection (NYCDEP)
Project Engineers/Managers:	AECOM

