

Combined Sewage Overflows (CSOs)



Design Data

Owner

City of Paterson, NJ

■ **Location**

City of Paterson, NJ

■ **Total Project Cost**

45 million,
With an annual
CSO budget of
approximately
1.5 million



Professional Consulting Inc. are the engineers for the City of Paterson, and also provide licensed operator services to the City. The City of Paterson owns and operates a combined sewer system (CSS) that provides sanitary and storm water conveyance throughout the City. The City of Paterson has approximate CSS service area of 4,760 acres. Sewage is conveyed through the City's CSS, into combined sewer overflow (CSO) control chamber facilities that are owned and operated by the City. From the chamber facilities, the sewage flows to the PVSC's interceptor, which conveys the sewage to the PVSC Water Pollution Control Facility (WPCF) in Newark for treatment. The collection system controls reduce the CSO volume and the frequency of CSO events by either removing or diverting storm water from entering the CSS, by maximizing the volume of storm water stored within the CSS, or by maximizing the capacity of the CSS to convey flow to the domestic wastewater treatment facility. PCI functions as project manager overseeing the planning and design of required CSO abatement facilities. We are involved in permitting, funding, coordination with New Jersey Environmental Infrastructure Trust, and involved in the day to day operation and maintenance of thirty-two outfalls and twenty-four chambers. They control the solids and floatables and are on the forefront of pollution prevention.

PCI
Professional Consulting, Inc.

Consulting Engineers