

Wastewater Reuse

TRIBECA GREEN



AMERICAN WATER

NEW YORK, NEW YORK

Green solution for luxury high-rise creates efficient water use

Project: On-site Wastewater Treatment and Recycling Facility

Project Type: Design, Procure, Construction Oversight, Operations

Project Timeline: Contract awarded in 2004, Construction completed in 2006

Project Details

Battery Park City is an area adjacent to the main financial district on the south end of New York City where many high-rise apartment buildings are currently being built. The Applied Water Management Group project provides wastewater treatment and recycling to a new 270-unit apartment building. This is the second building in Battery Park City to provide reuse water in an urban environment. The treatment plant utilizes an advanced membrane bioreactor system to separate water from the waste providing a high quality effluent. This is reused to flush toilets, make up cooling tower water and for landscape irrigation. Tribeca Green received a Gold LEED rating (Leadership in Energy & Environmental Development).

The recycling plant process comprises anoxic and aerobic treatment to remove both biological oxygen demand (BOD) and nitrogen to New York direct reuse standards; submerged, hollow fiber micro-filtration membranes to remove suspended solids;



treatment with ultra-violet light to kill pathogenic bacteria; and ozone for removal of color. Return pipe work recycles water to toilet facilities, a cooling tower and landscape irrigation system.

Applied Water Management Group operates the facility to ensure continued efficient operation that meets New York direct reuse standards. The facility serves 270 units and is serviced bi-weekly.

Population Served:

270 residential units

Technology Applied:

The treatment plant utilizes an advanced membrane bioreactor system to separate water from the waste providing a high quality effluent.

Operations:

Applied Water Management Group operates the facility to ensure continued efficient operation that meets New York direct reuse standards. The facility is serviced bi-weekly.

CONTACT

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To learn more about American Water, visit www.amwater.com



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