

# CASE STUDY

## Water and Wastewater



### Project Specs

**Location:** Bowery Bay Water Pollution Control Plant - Astoria, New York  
**Application:** Hypochlorite Spray Hoods with Walkways  
**Product:** Fibergrate Molded Grating, Dynaform® Structural Shapes, Dynarail® Handrail

### Overview

The Bowery Bay Water Treatment Facility is located in Astoria, New York. The facility is just off the shore of Manhattan on Ward's Island. The facility was originally constructed in the 1930s to house wastewater treatment operations and currently processes millions of gallons of sewage each day. Bowery Bay is operated by New York City's Department of Environmental Protection.



### Problem

The Bowery Bay facility was due for some renovations including the construction of several new structures as well as upgrades to existing buildings. Completion of this facility upgrade is set for fall of 2006.



### Solution

Fibergrate Composite Structures designed and fabricated FRP sodium hypochlorite hoods for the facility. This unique design integrated walkways to adjoin with the spray hoods for stabilization and resistance of coastal winds at the plant. Dynaform® structural shapes were used in the design of the hood and were used to support the pedestrian walkways. The walkways were constructed of Fibergrate molded grating to provide slip resistance for workers, with Dynarail® handrail on one side of each walkway for additional safety. The customer was pleased with the functionality in the design of these hypochlorite hoods and walkways that will require little maintenance for years to come.



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