TSURUMI PUMP™

CUSTOMER
SUCCESS STORY
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Tsurumi Cutter Pumps Upgrade Wastewater System at Historic Castle Clinton National Monument

At Castle Clinton National Monument in New York City, reliable wastewater handling is essential to maintaining restroom facilities for the thousands of visitors passing through the historic site on their way to the Statue of Liberty and Ellis Island. When the monument's aging ejector pumps failed, Tsurumi's C Series submersible cutter pumps provided a practical replacement solution.



The upgraded duplex pumping station with two Tsurumi cutter pumps, utilizing the existing guide rail arrangement and new floats to maintain automatic level control.

The existing wastewater system relied on two 1 HP pumps that had been manually operated for more than 15 years due to faulty controls. With the pumps reaching the end of their service life, the facility needed replacements that could integrate with the existing infrastructure while improving overall system operation.

Two Tsurumi 80C21.5 2 HP submersible cutter pumps were selected for the upgrade. Designed for wastewater applications containing solids and fibrous materials, the C Series features a cutting mechanism that helps reduce clogging and maintain reliable pumping performance. By cutting fibrous materials before they pass through the pump, the design helps minimize the risk of blockages that can interrupt wastewater handling and require maintenance.



Ritz Pump Service technicians remove one of the original pumps using a tripod and chain hoist.

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Castle Clinton National Monument in Lower Manhattan, gateway to the Statue of Liberty and Ellis Island. (Photo: Historic Districts Council)



The original 1 HP pump (left) compared with a smaller, lighter 2 HP Tsurumi 80C21.5 cutter pump.

Despite offering twice the horsepower of the original pumps, the Tsurumi units were smaller and lighter, making them well suited for the existing installation. Their compact design also helped simplify handling and installation within the confined wastewater pit.

To accommodate the existing guide rails and base elbows, Ritz Pump Service, a pump service and installation contractor located in Brooklyn, NY, fabricated custom discharge flange adapters. This approach allowed the Tsurumi pumps to be integrated into the original assembly without replacing the entire guide rail and discharge system.

The pumps were readily available through Air Flow Pump Corporation, a Brooklyn, NY-based authorized Tsurumi distributor, allowing the project to proceed without waiting for a factory order.

The upgrade also included new floats, a submersible junction box, and contactors to restore automatic operation to the duplex system. With these improvements, the pumps can respond to changing wastewater levels without requiring park personnel to operate them manually.

The Castle Clinton installation is another example of Tsurumi's proven reputation for reliable pumping solutions, with the C Series cutter pumps providing an effective replacement for aging wastewater equipment. By combining reliable solids handling, compact construction, ease of retrofit, and proven wastewater performance, the pumps helped modernize the system while minimizing modifications to the existing infrastructure.

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ABOUT TSURUMI

Founded in 1979, Tsurumi (America), Inc. is a subsidiary of Tsurumi Manufacturing Co., Ltd., a global leader in pumping technology since 1924. Headquartered in Glendale Heights, Illinois, Tsurumi serves customers throughout North America with reliable pumping and water management solutions for construction, mining, industrial, municipal wastewater, sewage treatment, flood control, and water feature applications. Backed by a global presence spanning more than 45 countries, Tsurumi is recognized for product reliability, engineering expertise, and a strong distribution network.