



**INDUSTRIAL
FLOW
SOLUTIONS™**

CASE STUDY
STANCOR®
Tarryville, NY USA

Reliability Under Pressure: Stancor® Pumps Meet Demands of Massive Bridge Project



Problem

The New NY Bridge project, a \$3.98 billion initiative to replace the aging Tappan Zee Bridge, presented a unique combination of engineering and environmental challenges. The 3.1-mile span over the Hudson River carried over 138,000 vehicles daily, necessitating that the replacement be built quickly, safely, and without disrupting existing traffic patterns.

In addition to tight time and budget constraints, construction required the controlled movement of large volumes of river water to support proper curing of massive concrete pylons, without compromising structural integrity.

At the same time, strict environmental regulations mandated that the surrounding river ecosystem remain protected throughout the process. This included preventing harm to fish, larvae, and aquatic habitats, and ensuring minimal impact on water temperature and quality.

Solution

Stancor® P-70-HH Series pumps were selected for their ability to deliver consistent high-pressure flow—up to 430 GPM and 165 psi—critical for curing concrete in the tower pylons.

To meet environmental requirements, each pump was equipped with 5mm wedge wire screens to prevent the intake of fish and larvae. Temperature controls were also implemented to ensure that water used in the operation did not raise the river's temperature by more than three degrees.

More than 50 pumps were deployed across the site, performing reliably without failures. Stancor's engineering team provided ongoing technical support, helping to optimize pump performance, ensure regulatory compliance, and keep the project on time and within budget.



Intelligent Pumping Solutions



Stancor® Pumps & Controls, part of the Industrial Flow Solutions™ family, provides reliable dewatering and solids handling solutions for industries such as utilities, mining, and oil & gas. Known for exceptional performance, Stancor® pumps are built to thrive in the toughest environments, ensuring your operations stay up and running.

Why Choose Stancor®?

- **Innovative & Reliable Solutions:** Engineered for extreme environments, ensuring maximum reliability and minimal disruption.
- **Customizable Designs:** Pumps built to fit your unique needs, from existing models to custom designs.
- **Cost-Effective Performance:** Maximizes efficiency, reduces maintenance, & lowers total cost of ownership.

Key Features & Offerings:

- **Electric Submersible Dewatering Pumps:** Ideal for mining, utilities, and oil & gas industries, built to handle demanding applications.
- **Customized Pump Solutions:** Tailored designs to meet specific needs in the toughest environments.

Available Approvals:

- CSA / CTUV
- FM
- MSHA

Available Materials:

- Stainless Steel
- Cast Iron
- Aluminum Alloy

Pump Types:

- Corrosion-Resistant
- Explosion Proof
- High Temperature
- Sand, Sludge & Slurry
- Solids Handling
- Dewatering

Industries



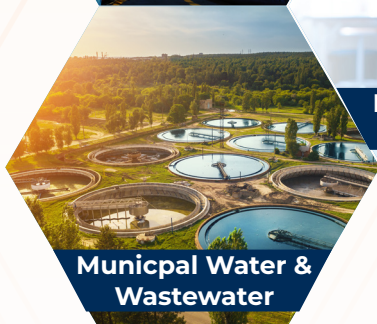
Industrial



Pharmaceutical



Power Generation
& Utilities



Municipal Water &
Wastewater



Mining



Construction



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Buildings

