Municipal Wastewater Fine Screen:

Municipal wastewater screening with Parabolic or Side-hill technology.

Stuart Ward of *Process Engineered Water Equipment, LLC* explains water screen design...

Case Study

In late August 2018 PEWE received a call from Jordan Mannix of Charley Toppino & Son's in Key West FL. Founded in the 1930's the family firm arrived in the Keys and began working on projects from large to small. They have completed projects for the Florida Department of Transportation (FDOT), the Navy, the Army, the Coast Guard, Monroe County, the City of Key West.

Charley Toppino & Sons

Jordan's story was straight forward. The firm needed a municipal headworks fine screen to complete an upgrade on critical Key West wastewater infrastructure, the Boca Chica facility. Additionally the screen was needed on site prior to an October 31st, 2018 deadline….with no Halloween tricks allowed.

Unfortunately the original screen supplier could not meet the delivery deadline. In fact not by days or weeks, but by months.

PEWE was not daunted and accepted the challenge as PEWE offers multiple models of screening systems. The requested screen was for a hydraulic flow capacity of 0.3mgd or 850gpm.

Boca Chica Facility

Selected Screen System

The key, pardon the pun, to the ***SuperSkreen$_{TM}$ SSP*** design is the finely radiused parabolic arch described by the screen. This is a non-mechanical filter system suitable for remote locations.

SuperSkreen SSP

With no moving parts the headworks screen has minimal maintenance needs and low wear. The 316 stainless steel headworks fine screen will last for years in the harsh salt air environment it is exposed to, from sultry summers to hurricanes.

SuperSkreen$_{TM}$ SSP in-house engineered technology relies on the finish craftsmanship of the PEWE shop fabrication and welding personnel. Careful attention to work yields quality screens. The fine screen features stainless steel gas assist lift shocks, have non-slip spark free lift handles and is completely manufactured in the U.S.A.

Parabolic Results

PEWE shipped the municipal headworks screen for its literal cross continent delivery with 1 week to spare. Charley Toppino & Son's crew had the Boca Chica wastewater facility up and running as soon as the screen was on-site. At start-up the fine screen system readily filters the sanitary wastewater through the wedgewire. The filtrate then flows directly to the basin below. Solids slide off the wedgewire, pushed by the flow into a waiting chute. The solids are then carried over the rim to a receptacle.

Wedgewire Satisfaction

At the end of the day Charley Toppino & Son's Project Manager Michael Labrada and the Boca Chica facility inspector Andy are very satisfied with the new ***SuperSkreen$_{TM}$ SSP*** parabolic or side-hill fine screen.

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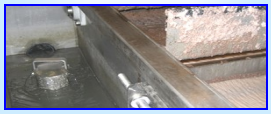

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