

CASE STUDY:

Port Saint Lucie, Florida Case Study

The City of Port Saint Lucie, Florida has four wastewater treatment plants. The Southport plant is one of their older facilities and processes 4.5 MGD. The screen there was old and virtually held together by the various weld patches added over the years. It needed replacing. Officials from the City visited a nearby Headworks® installation of its MS™ Bar Screen and were impressed by its sturdy design. The all stainless steel construction and low profile requiring less than 8 feet of headspace made it the perfect fit for the existing facility.

The MS™ Bar Screen is the centerpiece of all Headworks® products. It encompasses unique proprietary features such as the automatic reversing rake to remove obstructions. Its high hydraulic capacity, 2 MGD per square foot of screen area, gives the customer the flexibility to design a screen to fit their flow requirements, whether it's 4.5 MGD or over 100 MGD. The stationary screenfield can be specified with openings ranging from 3/16" to 1" or wider, depending on customer preference. Because of its robust design, one screen can replace both the fine and the coarse screens previously needed in treatment plants.

In the case of Port St. Lucie, the screen was custom built with ¼-inch bar spacing. This allowed the City to install a



Customer: City of Port St. Lucie

small opening than in their previous screen without flooding the channels. The new MS™ Bar Screen is 13 feet in overall length fitting a channel 6.5 feet deep and 3 feet wide.

The specially engineered design of the Headworks® MS™ Bar Screen makes it work powerfully, effectively and worry free. Mr. Mark Arlington, Site Superintendent of the Port St. Lucie WWTP recently spoke about his experience with the screen, "The MS™ Bar Screen does a great job! It's virtually maintenance free. Once in a while we grease it and hose it down, but that's about it."