



Headworks Inc. Supplies the World's Largest Wastewater Screens

Background

The Village Creek Wastewater Treatment Plant, owned and operated by the Jefferson County Environmental Services Department (JCESD), is located in Birmingham, Alabama.

In 2014, JCESD began working with Hazen and Sawyer on a project to replace several existing climber-type bar screens used for wet weather events.

These existing climber-type screens were installed in 85-foot deep channels. In such deep channels, the cycle time for the single rake of the climber-type screen to travel from its parked position, to the channel invert and back to the operating floor level to discharge screenings takes several minutes. During wet weather events, the climber-type screens cleaning cycle time was not efficiently removing enough wastewater screenings and during heavier wet weather events could become blinded and overwhelmed.

Customer: Jefferson County
Environmental Services
Department

Industry: Municipal

Design

During the planning phase for replacing these climber-type screens, JCESD and Hazen selected the Headworks MS Series Multi Rake Bar Screen as the basis of design for the project. With the Headworks MS Series design of having a rake bar enter the screenfield at significantly more frequent intervals, it was the obvious choice for the application.

In August 2016, the project was advertised for bid and Max Foote Construction Company was awarded the project for purchasing and installing the Headworks MS Series Bar Screens. Headworks provided three screens in total, two (2) screens that measure approximately 4'-5" wide, an overall length of 102 feet and sized for 75 MGD each, and one screen that measures approximately 10'-6" wide, an overall length of approximately 102 feet and sized for 225 MGD.

Go to YouTube Video: <https://youtu.be/4ARwK7ltXWE> to see the screens in our shop being tested in preparation for delivery to Alabama as well as installed in Village Creek WWTP.



*Headworks MS Series Multi Rake Bar Screens
installed at Village Creek WWTP in
Birmingham, Alabama*

The screens were placed into service in November of 2018 and we know that Village Creek Plant personnel are excited to see the screens be online. Look for an update on these Headworks Bar Screens in an upcoming issue of HeadsUp! Headworks is the market leader in Deep Channel Screen applications and wants to help you with your application, big or small.

