

CUSTOMER CASE STUDY

**SHOAL CREEK WRF PLANT  
REUSE SYSTEM**



**PROJECT OVERVIEW**

**PROJECT/CUSTOMER:**

Shoal Creek WRF Plant Reuse System

**LOCATION:**

Clayton County, GA

**PRODUCT / SOLUTIONS:**

Ferguson Process Solutions

**CHALLENGE:**

At the reuse application point, it is important to remove particulate matter so that various nozzles do not clog.

**SOLUTION:**

Source and deliver an Amiad in-line filter in the discharge line of the reuse water vertical turbine pumps.

**OUR ADVANTAGES:**

- Global reach, local support
- Strategic distribution network
- Ferguson Waterworks partners with regional manufacturer representatives to bring you the best-in-class process solutions.

## **PROJECT BACKGROUND:**

Clayton County Water Authority (CCWA) owns and operates an advanced conventional wastewater treatment plant in the Shoal Creek WRF. The CCWA has a history of operating all its plants with maximum efficiency and minimal waste. For example, they use the plant effluent as a reuse water supply to maximize efficiency by reducing operating costs.

The Shoal Creek plant has several locations where reuse water can be used effectively. These locations include influent screen spray wash water, yard hydrants, and various locations around the plant for process equipment wash down. At all these locations, a nozzle with a small diameter opening delivers the reuse water to the application point.

## **SOLUTION:**

CCWA has a reuse water storage tank and vertical turbine pumps to store and deliver the reuse water around the plant. In order to ensure that the reuse water has as much particulate matter removed from it so that the various nozzles do not clog, they installed an Amiad in-line filter in the discharge line of the reuse water vertical turbine pumps.

## **WHAT KEY FEATURES DOES THE AMIAD FILTER PROVIDE?**

The Amiad filter has a unique self-cleaning feature that minimizes operator interface. It allows the reuse water to flow forward continuously and uninterrupted—even when the filter is in the backwash mode. Furthermore, the filter is sized for a maximum 200 GPM flow and has a 200 micron mesh opening on the filter media.

The filter controls are designed so that the plant SCADA system can communicate with the filter and allow the operators to know when the filter is backwashing. Since CCWA has other Amiad filters at other plant locations, they were familiar with the filter and installed it themselves.

## **FERGUSON PROCESS SOLUTIONS OFFERS DEPENDABLE, INDUSTRY-LEADING BRANDS AND SOLUTIONS.**

At Ferguson Waterworks, we partner with regional experts to bring you the best-in-class process solutions. Our strategic partnerships, such as that with Templeton & Associates, and nationwide distribution centers ensure seamless delivery and fast turnarounds. Call your local expert today for support.