

CASE STUDY

Greer Commission of Public Works (CPW)

Polyblend® system reduced polymer by 47% while maintaining the same or better dewatering performance

cleanwater1



*Polyblend® M-Series
Pilot Unit at the Maple Creek WWTF*

OVERVIEW

Greer Commission of Public Works (CPW) has been providing water, wastewater and electric services to the City since 1914 with natural gas service added in 1957. CPW has been treating wastewater at the Maple Creek WWTF since 1955 and has subsequently won many awards (most recently, the National Association of Clean Water Agencies Peak Performance Gold Award). The Maple Creek plant is anchored by a 5 MGD Activated Sludge and Sequencing Batch Reactor with 2 MGD average flow that provides treatment for 12,000 connections in the Greer area.

Ever vigilant for improvement ideas, Ronnie Turner, the plant operations manager attended "The Science of Polymer Activation" seminar by Dr. Yong Kim of Cleanwater1, formerly UGSI Solutions at the South Carolina Environmental Conference in order to learn more about optimizing polymer use in his dewatering process. Afterward, Ronnie visited the Cleanwater1 formerly UGSI tradeshow booth to hear more about the unique two-stage tapered energy mixing profile of the Polyblend® polymer activation system which improves polymer dewatering efficiency.

Satisfied with his current system, Ronnie was looking for the best equipment to include with his upcoming new belt-filter press expansion. The Cleanwater1 formerly UGSI demonstration plan offered a risk-free opportunity to evaluate the high efficiency claims of the Polyblend® M-Series unit for emulsion polymer.

A Polyblend® M120-2.5AA system was installed for the demonstration and after the thirty-day trial period, the decision was made to purchase that unit based on the demonstrated 47% reduction in polymer use while maintaining the same or better dewatering performance. A second Polyblend® unit was specified and ultimately added as part of the belt filter press expansion.

"At first, I didn't believe the apparent reduction in polymer use, but after a thirty-day trial the results were confirmed. We reduced our polymer use by 47%. Our savings have been consistent over the past year of continuous operation."

Ronnie Turner – Water & Sewer Operations
Manager

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