

Water Treatment Plant Disinfection System City of Cooper, Texas



Hayter Engineering provided a new CT-Study (disinfectant contact time analysis) for the City of Cooper. The study was needed to address the necessity of converting the water treatment plant disinfection system to the use of chloramines to help achieve TCEQ compliance with new disinfection by-product regulations. To accomplish this goal Liquid Ammonium Sulfate (LAS) was introduced into the water just after filters to bind with the chlorine ion to form chloramines.

Improvements included the conversion of an existing alum bulk storage tank into a new bulk storage LAS tank, new LAS day tank, new Hach LC-17 chlorine monitors (free and total), piping, booster sample pump, injection point quill, chlorine flow splitter.

This project was unique because there were a limited number of actual locations that could be used as “supply” points and also a limited number of actual “injection” points. The flow coming into the plant was hydraulically “split” between the two clarifiers. That flow had to be equally split for the chlorine flow as well.

Services provided by Hayter Engineering are listed at right.

This project was financed using City funds, and it was completed in 2004.

CLIENT

City of Cooper, Texas

CONTACT

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CONSTRUCTION COST

\$16,500.00

SERVICES PROVIDED

Design Plans & Specifications

Construction Bid & Award

Construction Review