

Evaluating PAC and ClO₂ Usage for Disinfection By-product Reduction at CT Perry WTP

By Brian Shelton, P.E.

Montgomery Water Works and CH2M HILL developed a testing plan and began an evaluation of PAC and ClO₂ dosing strategies. The evaluation focused on modifying existing treatment processes to optimize removal of DBP precursors, primarily total organic carbon, and reduction of DBP formation in the finished water from the Perry WTP. The testing plan included a series of full-scale and bench-scale tests to evaluate TOC removal and DBP formation potential by varying the powdered activated carbon and chlorine dioxide feed rates and locations.

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