



# Water Bulletin



Civil • Water Supply • Municipal

September 2005

## Water and Sewer Rate Study Brooklyn Center, MN

The City of Brooklyn Center is a fully developed first tier suburb of Minneapolis and is presently in the process of reconstructing the aging roads and utilities throughout the City. The Brooklyn Center Public Utilities retained PCE to complete a water and sewer rate study to finance the reconstruction of the sanitary sewer and water systems and to develop new equitable rates for customers. The study will be based on the American Water Works Association M1 Water Rate Manual. Revenue requirements will be based on the "Cash-needs" approach for Brooklyn Center customers. Recommended future rates will ensure that the City can implement their Capital Improvement Plan.

## 3 MGD Water Treatment Plant Awarded Blaine, MN

The City of Blaine Water Treatment Plant No. 1 was awarded to Municipal Builders, Inc. for \$3,340,600 at the September 1, 2005 council meeting. The project received seven bids at the August 26, 2005 bid opening. The plant will be constructed near the water tower at Central Avenue and US Highway 10.

The high-rate pressure filtration plant is designed to remove iron and manganese from 2,000 gallons per minute (gpm), or approximately 3 MGD, of raw water from Blaine Well Nos. 3 and 4. The filtration system utilizes the "Filtronics" process, which consists of a chlorine contactor, sulfur dioxide contactor, and filters containing "Electromedia". The process reduces iron and manganese to below EPA secondary standard levels of 0.3 mg/L for iron and 0.05 mg/L for manganese. The plant also contains a packed column air stripper tower to reduce elevated levels of 1,2 Dichloroethane (1,2-DCA) from Well Nos. 3 and 4. These wells have been out of service for several years. The new plant will be put into operation next summer.

## 2005/2006 Well Rehabilitation Coon Rapids, MN

The City of Coon Rapids retained PCE to provide design and construction services for the fifth phase of the City's \$3.2 million Well Rehabilitation program. The fifth phase is expected to cost about \$950,000. PCE successfully completed work for the first, second, third, and fourth phases of the program. The project includes maintenance on wells, pumps and motors, upgrading interior and exterior wellhouse facilities, and standardizing wellhouse equipment throughout the City. Other work under these projects is the result of the City's installation of two water treatment plants in the early 1990's. The existing well pumps require throttling to meet the lower head requirements at the treatment plant. The rehabilitation projects include installing variable frequency drives at the wellhouses to eliminate the need to throttle the well pumps and in some cases installing new well pumps and motors.

### Eric Maki, P.E.

Eric Maki, Project Engineer, recently obtained his Professional Engineering License.

Mr. Maki has been with PCE for nearly three years and has worked on various water supply projects.



### Jeff Yeschick, P.E.

Jeff Yeschick, Project Engineer, recently obtained his Professional Engineering License.

Mr. Yeschick has been with PCE for over five years and has worked on various water supply projects. He is presently working toward obtaining an MBA degree from the University of St. Thomas.



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