

Wooddale Plant Upgrades Exceed Standards and Simplify Operations

The City of Edina has four (4) Water Treatment Plants (WTPs) that are over 30 years old.



Newly Automated Filters

The City selected PCE to inspect and provide design and construction services for upgrading the Wooddale WTP. Ultrasonic thickness testing and an evaluation of the tanks' structural integrity revealed that re-constructing the filters would be more cost effective than replacing them.

As part of the upgrade, PCE added controls, valves, a duplex air compressor, and an air dryer to automate the backwashing process. During the inspection phase, PCE observed excessive deposits on the filter media, which were contributing to channeling of iron and

manganese through the filter. To address this, an air blower and airwash piping were added to include airwashing of the media as part of the automated backwash process.

Upgrades also included sandblasting and painting the interior and exterior of each filter, constructing a new underdrain, adding new filter media, and electrical and mechanical upgrades.

The plant produces water, which consistently meets the secondary standards for iron and manganese.



New PLC, Air Blower, and Air Compressor

Client: City of Edina
Client Contact: Wayne Houle
Construction Year: 1998
Project Cost: \$285,000



Progressive Consulting Engineers, Inc.
6120 Earle Brown Dr. Suite 629 Minneapolis, MN 55430
Phone (763) 560-9133 Fax (763) 560-0333
www.pce.com e-mail: pce@pce.com