

Dakota Heights Water Treatment Plant City of Lakeville

Progressive Consulting Engineers, Inc. was part of the team selected by the City of Lakeville to provide engineering services for the Dakota Heights Water Treatment Plant and adjoining Public Works Facility.

This project involved the design of a 10 million gallon per day (MGD) plant for removal of iron and manganese in the Lakeville well water. The design allows for future expansion to 30 MGD.

Extensive pilot plant studies were completed to develop criteria for the design of the new plant. The pilot plant study concluded that chemical oxidation of iron with chlorine, and manganese with potassium permanganate, was desirable. The anthrasand and manganese greensand filter media will produce water meeting all secondary standards for iron and manganese.

Filter runs are over 24 hours.

PCE's involvement included the design of the gravity filters, yard piping, and site engineering. The filters are equipped with an air-wash system for effective cleaning of the filter media.

The water plant was bid in late 1996 and was put into service in early 1998. The plant dedication ceremony was held on May 2, 1998.



The water plant was the recipient of the **1998 Crown Communities Award** from *American City and County* magazine.

Client: City of Lakeville
Client Contact: Keith Nelson, City Engineer
Year Completed: 1998
Fee: \$150,000



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