



# Water Works Systems

## Radium Compliance Improvements & Water Works System Expansion Yorkville, Illinois



**Construction Cost:**

- \$20,889,000

**Project Features:**

- Funding Assistance
- Water Works System Needs Assessment & Project Plan
- Three (3) 1,000 GPM Wells
- Three (3) Cation Exchange Water Treatment Plants
- Three (3) Elevated Water Storage Tanks
- Booster Pumping/Pressure Reducing (BP/PRV) Stations
- Raw and Finished Water main Improvements with River Crossing
- SCADA System



Cation Exchange Units

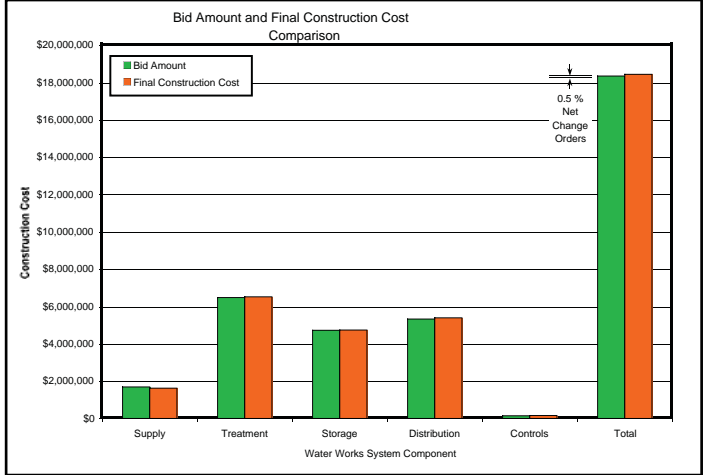


More than doubling the size of a water system is not a feat accomplished everyday. However, the United City of Yorkville did just that. With an increasing population and a backlog of development, the City was faced with the daunting task of meeting new radium compliance regulations and providing safe drinking water to meet current and future demands. With the help of Engineering Enterprises, Inc. (EEL), the City completed the necessary water system improvements, a total of 18 separate projects, within five years.

The water system improvements ensures radium compliance and enables the City to provide softened water. In addition, the \$20,000,000 of improvements were provided without increasing water rates.

Improvements included integrating additional water supply, taking the system from 2.74 MGD to 7.06 MGD; adding three water treatment plants with a total capacity of 7.56 MGD; increasing water storage from 0.80 MG to 4.55 MG; constructing approximately 8 miles of water main, two booster pump and pressure reducing valve stations and two pressure reducing valve stations; and installing a state of the art supervisory control and data acquisition (SCADA) system.

EEL performed planning, design, bidding and construction services; provided start-up assistance; and helped establish and manage the project budget.



Bid Amount and Final Construction Cost Comparison