

Illinois American Water – Morris, IL



Removal of radium from the public drinking water supply.

In October 2003, Siemens Water Technologies, formerly USFilter, commenced a short-term contract with Illinois American Water for the city of Morris, IL, to remove radium in the small community well.

In Illinois, the presence of radium is naturally occurring in granite bedrock that surrounds the aquifers. All public water supply wells are required to test for radium on a regular basis. The US EPA has established a maximum contaminate level (MCL) of 5 picoCuries per liter (pCi/l).

Ion exchange, lime softening and reverse osmosis are the most common treatment options for radium. These processes can remove up to 90% of radium present.

Siemens provided Illinois American Water with three mobile FlexTrex® deionization units to treat approximately 50 gpm. These skid-mounted ion exchange units are designed to treat flows ranging from 20 to 250 gpm. They have convenient disconnects and can be installed and placed into service quickly. Each unit was filled with cation resin in sodium form to treat the water.

The customer removed the exhausted resin from the vessels and stored it to be reused once the new permanent system was installed. At that point, the resin would be transferred into the softeners and regenerated on site.

Significant Accomplishments

Within one week of the signed contract, Siemens equipment was on-site and operational. Siemens Water Technologies’ mobile solution allowed the customer to provide safe drinking water to the community while the new permanent system was built and installed without violating the drinking water standards.

Siemens Water Technologies’ FlexTrex® 42” deionization units are ideally suited for short- or long-term condensate polishing applications.



Facility	Municipal drinking water
Application	Radium removal
Scope of Services	Installation, start-up
Technology	Temporary deionization units
Start Date	September 2003
Duration of Project	Eight months



Siemens Water Technologies North America Service Network

North America Service Network

Our North America service network is backed by more than 80 offices staffed with certified technicians and applications experts who can solve your problems. In addition, Siemens Water Technologies provides response flexibility through either a lease or capital purchase option, and the company offers assured liability protection through environmentally safe waste destruction.

Services Available

- Activated carbon supply, removal and reactivation services
- Filter media supply and removal
- Ion exchange resin supply
- Membrane supply and cleaning programs
- Parts and expendables
- Service contracts
- Temporary/emergency water systems

Technologies Available

- Reverse Osmosis (RO) membrane filtration
- Conventional clarification and filtration
- Oil/Water separation
- Granular activated carbon adsorption
- Demineralization
- Inorganic metals removal
- Chemical addition

Siemens Water Technologies delivers cost-effective, reliable systems guaranteed for quality, safety, and compliance. Our trained service staff is available to make sure your systems is running at peak performance and to your specification. For your water treatment system, choose the partner that is committed to taking care of the world's water...and yours.

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract. FlexTrex is a trademark of Siemens its subsidiaries or affiliates.

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