

East Coast Aerospace Manufacturer

Perchlorate Contamination in a Potable Drinking Water Supply.

In October 2003, Siemens Water Technologies, formerly USFilter, initiated a 3-year service contract to treat perchlorate contamination in a public drinking water supply for facility personnel.

In response to upcoming drinking water standards to be established by the EPA, the customer sought a treatment solution to bring the perchlorate levels below its detection limit of 4 ppb.

To assist in the customer's decision, Siemens used its proprietary ion exchange computer modeling program to simulate the exchange capacity of the resins and provide the customer with operating cost estimates. Siemens also acted on behalf of the customer in securing necessary operating permits from the Maryland regulatory authorities.

Siemens' solution provided a complete service contract which included installation and design of a complete system including four (4) 14" diameter service ion exchange vessels in a lead/lag configuration, periodic monitoring of the system's operation, spent resin replacement and destruction through waste-to-energy disposal. The resins are removed from the vessels by Siemens' OSHA-trained service technicians utilizing Siemens' specialized sluicing equipment.

Significant Accomplishments

From issuance of the purchase order, Siemens completed installation at the customer's site within two weeks. Operating permits were issued six weeks thereafter.

The installed system operates at 20 gpm, bringing influent perchlorate levels of 400 ppb down to less than 4 ppb, and most often below 1 ppb.

Facility	Potable water treatment
Application	Perchlorate contamination
Technology	Ion exchange
Scope of Services	Design Resin Removal and Disposal Permit assistance
Start Date	October 2003

Service Ion Exchange vessels in a lead/lag configuration





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.

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