

Pinckney School District, Pinckney, Michigan

New Drinking Water Regulation Prompts School District to Seek Compliance and Arsenic Removal Solution

In January 2006, The Environmental Protection Agency (EPA) reduced the Maximum Contaminant Level (MCL) for arsenic presence in drinking water from 50 ppb to 10 ppb. The Pinckney School District sought a solution for treatment of arsenic, tested at 20-25 ppb and to be compliant with the new requirements.

Siemens Water Technologies, formerly USFilter, ran an on-site pilot system to demonstrate to the State Department of Environmental Quality (DEQ) that the proposed solution would perform as stated. During a 90-day period, Siemens pilot tested with GFH® granular ferric hydroxide media. Using the results gathered, Siemens technical staff evaluated the same process using ADSORBSIA™ GTO™ media. A determination was made that the DOW product offered a superior cost value and operational advantage for this customer's process needs.

The Siemens solution features duplex 24" diameter fiberglass media vessels which contain 10 cubic feet of the ADSORBSIA™ GTO™ media and treat 50 gpm of process water. This solution provided the customer with an easy-to-operate solution that was cost effective and allowed the Pinckney School District to achieve compliance before the new regulation was implemented.

Significant Accomplishments

Siemens relationship with the leading manufacturers of ion exchange medias allows an unbiased selection of the best media for the process. We determine which media will provide the customer with the advantages of cost value versus operating results.

Use of the ADSORBSIA™ GTO™ media allowed a lower Empty Bed Contact Time (EBCT) by comparison with other tested medias, which translated to smaller diameter vessel requirement and cost saving for the customer.

Siemens Water Technologies assisted this customer in the permit application process to the State DEQ.

| | |
|-------------------|--|
| Facility | Institutional |
| Application | Arsenic contamination |
| Technology | Ion Exchange |
| Scope of Services | System Evaluation Pilot testing Equipment Design Installation Start-up Service |
| Start Date | April 2006 |

24" diameter duplex vessels treating 50 gpm





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.

Siemens
Water Technologies
2430 Rose Place
Roseville, MN 55113
800.525.0658 phone

© 2009 Siemens Water Technologies Corp.
ES-PINCKNEYdr-PP-0809
Subject to change without prior notice.

ADSORBSIA™ and GTO™ are trademarks of The Dow Chemical Company. GFH is a trademark of Siemens its affiliates or subsidiaries.

The information provided in this literature 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.