



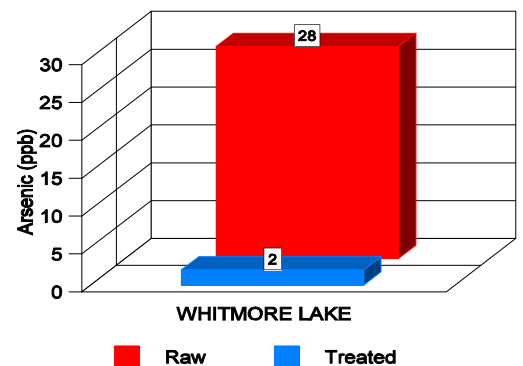
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## ARSENIC REMOVAL Whitmore Lake, Michigan

### Project Description

The water supply for a 139-unit apartment complex in Whitmore Lake contains 28 ppb arsenic. Facility management was faced with the prospect of paying a huge cost to connect to the nearest municipal water supply. However, after hearing of MEDIA G2<sup>®</sup> technology, water samples were sent to ADI for bench-scale testing. Results were very positive, and the cost of installing a full-scale plant was so far below the cost of importing water that management quickly gave the go-ahead for the project.

The plant consists of four 63" diameter fiberglass filter vessels containing MEDIA G2 adsorptive media. It treats 250 gpm, with the flow split equally among the filters. No pre-treatment is required; water simply flows downward through the filters, and the arsenic is adsorbed onto the surface of the media particles. Operation is simple; no chemicals are required, and backwashing is carried out automatically (10 minutes every few weeks) through the use of timer-actuated automatic valves.



Installation was completed in late 2002, and the filters continue to reduce arsenic to less than 2 ppb. It is anticipated that the media will last at least five years before becoming saturated with arsenic, at which time it can either be regenerated on-site or simply replaced.