

## Arsenic Water Technology Partnership and Pilot Demonstration Project

### HIGHLIGHTS

Reviewer for new arsenic treatment systems.

Technical panel for arsenic technology selection.

Partnership with other participants on arsenic issues.



*One of Carollo's experts on arsenic treatment has served as a member of the technology selection panel since the beginning of the program.*

In 2003, the Sandia National Lab launched a national Arsenic Water Technology Partnership and Pilot Demonstration Project with a \$4 million congressional appropriation through the Department of Energy, Office of Science. The purpose of this program is to fund promising arsenic technologies to perform field pilot validation tests. The Awwa Research Foundation (AwwaRF) as well as WERC (A Consortium for Environmental Education and Technology Development) are also participating in additional phases of the project.

During this multi-year effort, technologies that are successfully demonstrated at the bench-scale level will be selected and scaled up to pilot level at participating utilities who are planning to implement arsenic treatment systems. One of Carollo's experts on arsenic has served as a member of the technology selection panel to review new arsenic treatment systems and recommend promising systems for further field demonstration. The majority of impacted utilities by the new arsenic rule are small and rural systems, and the technology selection during this project will focus on such disadvantaged communities as the priority.

Sandia Lab's Arsenic Partnership has three objectives according to the program guideline:

- ▶ Conduct research and develop innovative arsenic removal technologies with a focus on reducing energy costs and minimizing operating costs and quantities of waste.
- ▶ Demonstrate the applicability of these technologies to a range of water chemistries, geographic locales, and system sizes.
- ▶ Evaluate the cost effectiveness of these technologies and provide education, training, and technology transfer assistance to the user communities.