



## 2009 EnviroGuard Company Profile

### Micron Technology Inc. Cool Water Project

Micron Technology is one of the world's largest manufacturers of memory-based solutions for computers and electronic devices. The company takes a proactive approach to environmental protection with an intensive pollution prevention program that saved the company more than \$5.6 million in 2008. Micron's pollution prevention program includes electrolytic metals recovery, reuse of sulfuric and phosphoric acids, recycling, and water and energy conservation efforts.

The Cool Water Project, designed and constructed with the assistance of Idaho Power, has reduced Micron's energy consumption by 18.6 million kilowatt-hours (kWh)/year, reduced water consumption by 11.9 million gallons/year, and diminished greenhouse gases, specifically carbon dioxide (CO<sub>2</sub>), by 4,690 tons/year.

The Cool Water Project uses cold Boise River water to cool on-site process waters through a system of heat exchangers. This technique uses considerably less energy and improves the performance of the on-site filtration and purification system. The resulting warmer river water is re-injected into the aquifer at temperatures that are similar to the groundwater in this area.

The Cool Water Project was a voluntary effort and a \$1 million investment by Micron. Modifications for the project were completed in 2007 with immediate efficiencies gained. Micron will realize a 100% return on this investment within the first year of operation.