

# Sara Lee Corporation

Sara Lee Corporation, an industrial manufacturer in Woolwine, Virginia, relies on ground water from wells for both potable and process water. The primary water supply well is an open rock well approximately 350 feet deep. The well's water-bearing zone consists of fractured metamorphic rock.

## PROJECT RESULTS

*After completing two rehabilitation phases with the Hydropuls® tool, the well's specific capacity increased by 50%, and water turbidity cleared.*

*The well owner was able to continue use of the well and put off the need and expense for a new well.*



## DECLINING CONDITIONS, DIMINISHING BUDGETS

In recent years, the well's pumping capacity had declined, and the water's turbidity had increased. Iron-stained pipes and bathroom fixtures indicated that biological fouling had also taken place. Previous attempts to improve the well's performance proved unsuccessful, leaving the well owner with a limited budget.

## TIME-SAVING TECHNOLOGY

Under the limited budget, Kleinfelder developed an abbreviated rehabilitation plan using the Hydropuls® impulse generation technology. This plan significantly shortened the time needed to complete the work, allowing the redevelopment process to be completed in just two phases. Each phase consisted of 30-minute pumping tests to evaluate specific capacity, use of Hydropuls® to open plugged fractures, isolation pumping and surging through the fracture interval, and removal of sediment in the bottom well.

### Location:

Woolwine, Virginia

### Owner:

Golder Associates

