Project Summary

Hydroelectric Facility

Northeastern, New York

Well Re-Development

An initial evaluation of each of the three relief wells was performed which consisted of video logging the wells, conducting step drawdown tests and collecting groundwater samples for geochemical analyses. Following a review of the acquired data the wells were re-developed using a combination of surging and pumping via an air-lift pump. Chemical additives were utilized to enhance the re-development activities. Subsequent to the re-development activities a video log and step drawdown test was performed at each well to document the improvement to well conditions. Special equipment and an attention to safety were paramount.

Project Overview:

Three relief wells had been installed at this hydroelectric facility to control the hydrostatic head along a steep slope at the site. The relief wells were constructed with 8-inch diameter stainless steel well materials with multiple screened zones. Artesian conditions exist and the wells flow naturally to a common discharge point. Bio-fouling of the screens had reduced the flows from the wells such that they were not effectively controlling the hydrostatic head.

- **Project Cost:**
  $51,355
- **Project Duration:**
  20 days
- **Project Completion Date:**
  May 2011
- **Project Reference:**
  Confidential