

UV Pure® Case Study	
Application:	Municipal_Institutional Projects
Solution:	Hallett® 15xs and Hallett® 30 system
Location:	Vermont, USA



Pure, safe water.
Always.

UV Pure® Technologies Provides Peace of Mind for Vermont Residents

It was July 2010 and the State of Vermont had a perplexing problem that was proving to be a major challenge. Schools and daycare centers across their state were going to be starting up again in less than six short weeks and many schools were having problems with their drinking water systems. Two years earlier, the state had installed UV disinfection water systems (from two different UV disinfection suppliers) at approximately 30 schools and daycare facilities across Vermont. These systems were in place to provide compliance with the State of Vermont Water Supply Rules and to provide protection and peace of mind for the schools and daycare facilities.

One of the suppliers was UV Pure® Technologies, which had approximately fifteen UV disinfection units installed and operating. The specific UV systems were the Hallett® 15xs and the Hallett® 30. The UV disinfection systems supplied by UV Pure® Technologies were all performing extremely well and there weren't any problems.

In addition to the UV Pure® Technologies units, there were approximately fifteen units that were supplied by a different UV disinfection company (not UV Pure®). Both suppliers' UV disinfection systems were on line to provide critical barrier protection against bacterial contamination.

Problems Plague the Second Supplier's UV Treatment Equipment

Shortly after the UV disinfection systems were installed and started up (within the first 60-90 days), the schools and daycare facilities that had UV equipment from the second supplier (not UV Pure® Technologies) began experiencing operational problems.

Typical problems included:

The second supplier's UV disinfection units either went into alarm condition mode for no apparent reason. Or, in some cases, their system would simply shut down and cease operating, again for no apparent reason. Every time this occurred, the schools and daycare facilities would have to go through a rather protracted and tedious process for the second supplier's UV Disinfection equipment that included:

- Inspecting any units that were experiencing problems
- Disassembling the affected unit
- Cleaning the quartz tube inside the particular unit that was no longer operating
- Re-assembling the affected unit and restarting it

Frustrating Times Abound

These alarm and shut down problems continued to occur for over a year. While the second supplier was working cooperatively with the State of Vermont, and while there were no reports of diminished water quality as a result of their equipment failure, the situation itself became a major headache as well as a source of frustration for the approximately fifteen schools and daycare facilities that were using the second supplier's disinfection equipment.