

Coldwater Water Treatment Plant

Client: Township of Severn

Year: 2008



SERVICES PROVIDED

Trichloroethylene (TCE) has historically been detected in the Coldwater municipal groundwater supply at low levels. In 2004, The Township of Severn retained CCTA to conduct a TCE treatment feasibility study. The study concluded that the implementation of carbon adsorption to remove TCE was the best solution.

In 2006, CCTA was retained to undertake preliminary and final designs, secure approvals, and provide contract administration and inspection services for the upgrades. The upgrades comprised a 63 m² addition to the water treatment plant to house a duplex granular activated carbon adsorption system and related process piping, valves, electrical, instrumentation, and control components, backwash water supply pumps installed in the existing clearwells, and an adsorption system backwash wastewater holding tank with disposal to a municipal drain. Construction of this \$600,000 upgrade was substantially performed in November 2008. Ongoing water quality analysis shows the concentration of TCE following the upgrades is consistently below the new drinking water standard.

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