

Case Study: Chicopee Tube Park

Background:

Chicopee Tube Park is a winter recreation facility that hosts over 48,000 guests per season and uses over 15,000 m³ of water each year for snow-making.

Water Savings Solution:

A stormwater pond was made to replace the potable water used for snow-making on the hills.

Total annual water savings of 14,000 m³ were achieved with the project almost entirely eliminating the need for potable water to be used in their operations.

The 3,785 m³ pond was filled 4.5 times over two measured seasons, demonstrating the success of the stormwater collecting abilities of the installation.



Economic Benefits:

The project will pay for itself over a 5-year period, with a WET Program incentive of \$31,549. The project cost was \$290,000, including bore hole drilling, pond excavation, pumps, approvals, etc. As a result, Chicopee will save approximately \$325 per day through the water savings alone.

Water Savings:

Chicopee Tube now saves 78.9 m³ of water per day or 14,197 m³ per year. This represents a reduction in their water bill of over 56% and enough water for the daily needs of 70 households.

Water Reducing Measures	Cost of Implementation	Cost Savings (Rebate)	Water Savings (m ³ /year)	Annual Savings
Stormwater re-use system	\$290,000	\$31,549	14,197	\$55,000

