

## Application Story

PROJECT | PORT PERRY  
Product | Geotube® Dewatering Technology  
Application | Municipal

Location

Port Perry, Ontario

### The Challenge:

The Nonquon River Water Pollution Control Plant needed to remove 26,000 cubic meters of biosolids from its municipal lagoon [photo 1].

### The Solution:

Geotube® dewatering technology was selected over land application. A series of 45' circumference x 200' long Geotube® containers were used for this project [photo 2].

As the project began, a pre-screening unit was used to remove reeds from the lagoon prior to pumping the sludge [photo 3]. Next solids were bladed to one end of the lagoon where they were agitated and pumped to the Geotube® units [photo 4]. A polymer solution storage tank was brought on site [photo 5]. An intermediate equalization tank was used to produce more homogenized sludge which improved the effectiveness and efficiency of the chemical conditioning for better water release [photo 6]. In addition, a splitter box was designed to manage the flow of conditioned sludge to multiple Geotube® units [photo 7].

### The Results:

The Geotube® dewatering process worked very well. Solids dewatered to 44% within 60 days [photo 8]. The resulting cost savings was \$15 per cubic meter, when compared to land application. And the project received an Award of Excellence from the Water Environment Association of Ontario.



### Contact Information:

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