

Application Story

PROJECT SEPTAGE RECEIVING STATION
Product Geotube® Dewatering Technology
Application Municipal

Location

Rio Das Ostras, Brazil

The Challenge:

Since this resort community triples in population during the holiday season, the town experienced an immediate 3-fold increase to handle septage dewatering at its local wastewater treatment facility. Aside from this emergency situation, the community needed a long-term solution for handling this waste volume.

The Solution:

A Geotube® dewatering operation was constructed at the wastewater treatment plant [photo 1]. In addition, a much larger septage receiving station was constructed at the county landfill, where Geotube® dewatering units were used to dewater septage and landfill leachate.

The dewatering of the septage materials involved a 3-step process. First, the septage material was collected into a homogenization cell, where it was combined with leachate from the landfill [photo 2]. Next, polymer was added to the waste mixture using an in-line mixing system between the waste cell and the Geotube® units [photo 3]. The final slurry mixture was then pumped into 60' circumference x 200' long Geotube® units for dewatering [photo 4].

The Results:

The effluent water from this dewatering effort was clean enough to discharge through a reed bed to native waterways

[photo 5]. The community achieved the water treatment capacity needed to handle population spikes during the holiday season.



Contact Information:

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