

Application Story

PROJECT | FOX RIVER CLEAN UP
Product | Geotube® Dewatering Technology
Application | Marine Remediation

Location | Wisconsin
Installation | 2004-2006

The Challenge:

Removal of 750,000 to 1 million cubic yards of PCB contaminated river and lake sediments that were generated from a concentration of paper mills along the entire length of the lower Fox River.

The Solution:

In the initial trial, 60' circumference GT500 Geotube® Dewatering Containers were used to contain, dewater, and remove the first 20,000 cubic yards of contaminated sediments from Little Lake Butte des Morts. The Geotube® dewatering process was so effective in PCB removal and dewatering (achieving more than 50% solids) that it was selected for the full-scale project.

To date, we have successfully dewatered and treated 250,000 cubic yards of PCB contaminated material for removal. The Geotube® units kept pace with the dredge pumping more than 2,000 gpm, and the dewatered sediments have averaged 50% total solids. The project is generating considerable savings over traditional methods of dewatering (for example, \$100 less per cubic yard during the pilot phase.)

Projected Highlights:

- Lay down area is shown [photos 4 and 5] during the site preparation for the Geotube® units' installation.
- During the project operation, a special 8-inch swinging ladder cutter head

dredge without cables was used to dredge sediments. This allowed pleasure boat traffic to use the river. [Dredge is shown on the right in photo 6.]

- A HDPE lined dewatering cell with an 18" aggregate drainage layer was installed to collect all of the effluent water from the Geotube® containers. [See image 7.]
- Geotube® containers were stacked three and four layers high within the dewatering cell. [See photos 1 and 9.]



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