

ENVIROTUBES™

A Case Study by Industrial Fabrics, Inc.

CONNOR CREEK
LAKE ST. CLAIR, MICHIGAN

Scope of the JOB

Connor Creek is a small inlet to Lake St. Clair in Michigan. It had accumulated several feet of very polluted sediment from many years of discharge from the automotive industry and a large waste water treatment facility. The sediment was to be removed from the creek, treated and land filled. The water was also to be treated.

Chuck Gardner with Eco Marine got the sub contract to dredge the sediment into Envirotubes. A small amount of polymer was direct injected into the dredge pipeline to speed up the dewatering and clear up the decant water. There was some resistance to using polymer from regulators, but a 30 ppm limit in the decant water was established. The injection rate never hit the 30 ppm, no polymer was ever found in the run-off water.

The 45 ft. circumference x 200 ft. long 4x6 geotextile Envirotubes were laid out side by side on a large sheet of 60 mil polyethylene plastic, and connected with a manifold system with a valve for each tube.

A ditch system was dug around the lay down area inside the edge of the plastic sheet so the sheet became the ditch liner. All the decant water was collected in the ditch and returned to the creek through two 8 inch return pipes. No water was lost from the area and could be easily monitored. The water came out of the tubes so clean it did not have to be treated even though it was constantly monitored.

STRUCTURAL

Storm Event Protection

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Diversion Dykes

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