



Project Team Members

Owner:
Traverse City, MI

Engineer:
Traverse City Engineering

Contractor:
Team Elmer's, Traverse City, MI

Products used:
Helix

East Bay Park Stormwater Quality Improvement Project



**Treatment train
filtration process
reduces
bacterial
contamination**

The Challenge

East Bay Park located on East Grand Traverse Bay is a bacteria impaired water body and included in the Michigan's 303(d) list. East Grand Traverse Bay is the sole drinking water source for Traverse City and surrounding areas. Reducing pathogen levels in these receiving waters will improve the health of area beaches and protect the drinking water supply for over 15,000 people. Watershed Center Grand Traverse Bay, a local non-profit organization obtained funding to implement a multi-stage stormwater treatment system designed by city engineers and their consultants.



The Solution

Primary treatment of the stormwater runoff is accomplished using a proprietary hydrodynamic separator to remove sediment and neutrally buoyant material. The second phase of treatment consists of a large two chamber tank which will settle out additional solids. The final stage of treatment is specifically designed to remove the disease causing bacteria. The Fabco Helix a unique radial flow design that uses a dual helix filter provides high flow treatment of bacteria with minimal clogging risk. Following the three stages of treatment, the stormwater is then discharged to a retention system constructed of catch basins and elliptical pipe before discharge to a riprap channel and ultimately Lake Michigan

About Fabco

Fabco Industries designs and manufactures high performance storm water filter systems that are highly effective for various treatment applications including retrofits, new construction and green infrastructure. We offer sustainable simple-to-maintain filtration solutions to meet virtually any stormwater pollution control challenge.