

WATER QUALITY IMPROVEMENT PROGRAM

Nature Based Shoreline—Irondequoit Bay Park West

Irondequoit Bay Park West has provided recreation, primarily fishing and boating, for many years. In 2017, the shoreline and adjacent Bay Front South roadway were damaged from flooding due to predominant shoreline erosion, which settled onto the road, as before this project there was little to no wetland vegetation protecting the road and shoreline.



Debris and sediment on the road after 2017 flooding. Notice how close the water is to the road, with little soil left.

This \$315,000 project was funded through NYS Water Quality Improvement Program, Monroe County DES, Monroe County Parks, NYS Part C Performance Measures Financial Assistance, and Finger Lakes-Lake Ontario Watershed Protection Alliance (FOLLOWPA).



Partnering with Monroe County Parks Department and Monroe County Department of Environmental Services (DES), construction occurred from November 2019 until June 2020, splitting the project into four stabilization sections. The project involved several bioengineering and nature-based stabilization techniques to achieve goals including use of turbidity curtains, basic excavation and fill, placing rocks, coir logs, and goose and carp barriers, establishing anchored habitats (e.g. logs), top soiling, establishing large trees, and establishing native wetland vegetation.



Various stages of construction including excavation (top), native planting (bottom left), and stabilization (bottom right)



Note how far the road is from water on new shoreline

Approximately 450 feet of shoreline was restored and stabilized, enhancing wetland and buffer ecosystems. Shoreline stability, flood resilience, water quality, and fishing access were all enhanced.



New shoreline, including newly planted native wetland vegetation and trees