

**Blanchard Beach Water Quality Improvement Project**  
**Project Summary Brief**  
**November 27, 2012**

Design Team

- ✓ Lakeside Environmental Group, LLC (lead)
- ✓ Watershed Consulting Associates, LLC
- ✓ SMM Environmental Engineering, Inc.
- ✓ Oakledge Environmental Services, Inc.

Project Goals

- ✓ Restoration of degraded lakeshore wetland.
- ✓ Stabilization of stream course within wetland and swale/parking area within Oakledge Park.
- ✓ Installation of stormwater treatment for a portion of Oakledge Park and Lower Flynn Avenue.
- ✓ Assessment of additional stormwater management options within the larger Blanchard Beach watershed.

Project Timeline

- ✓ June 2011: Contract issued from City.
- ✓ June 2011 – September 2012: Design & permitting.
- ✓ October 2012 – Final report submittal & project construction.

Stormwater Treatment System Components

- ✓ *HYDRO-Brand "Downstream Defender" hydrodynamic separation system (DD).* The DD was installed in the ground on Lower Flynn Avenue. It is designed to remove sediment/oils/debris from stormwater originating from Lower Flynn Avenue and Oakledge Park.
- ✓ *Water quality wetland treatment cell.* A sequestered treatment area was developed in the wetland. This area consists of a series of shallow micropools that encourage particle settling and nutrient uptake.
- ✓ *Stabilized stream channel.* The main channel through the wetland was stabilized in order to prevent erosion during high flows.
- ✓ *Stabilized swale along Oakledge Park access.* The previously eroded swale was stabilized with a turf-reinforced mat and vegetation to prevent further erosion and sediment mobilization.