Coastal Restoration: Lessons Learned

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Restoration

Goals and Objectives

Community Outreach and Internal Communication

Planning, Permitting and Implementation

Monitoring and Data Analysis
State of Sam Meyers Park

- Invasive species predominate, few natives
  - (Phragmites)
- Stagnant water adjacent to breakwater
- Boat launch a significant distance from water’s edge
- Algal blooms
- Direct stormwater runoff impacts water quality
Mission Statement

Reasonable Stakeholder Concerns

Technical Feasibility

Financial Feasibility

Goals
Goals at Sam Meyers Park

- Improve water quality, access, habitat and aesthetics.
Technical Side

- Goals
- Monitoring and Analysis
- Planning Process
Monitoring

Fecal Pollution

Coastal Dynamics

Nutrients and Other Concerns

Vegetation and Invasive species

Analysis
Water Quality (2010-13)

![Box plot showing water quality data for three transects (SM-1, SM-2, SM-3). The x-axis represents Transect, and the y-axis represents Log [E. coli (MPN/100ml)]. The advisory limits are indicated by a dashed line.](image_url)
Influence of precipitation on water quality

$p=0.002$
Stakeholder Support

- Goals
- Community feedback, stakeholder support
- Planning
Examples

• Friends Group
• Neighborhood Meetings
• Identifying user groups
Internal Communication

• Make sure all departments involved are on the same page.

• Clearly define – use common verbiage
Planning
Engineering Plans Completed 8-2013
Permitting
William Rudolf
Funding

Watershed Initiative Network
Root-Pike

Kiwanis International

Great Lakes Restoration

Fund for Lake Michigan
Clearly making a deep impact.

Wisconsin Coastal Management Program
Implementation
Eastern Constructed Wetland and Dune
Western Constructed Wetland and Dune

Maintenance

• Create a Maintenance plan.
  – Give those maintaining the site tools succeed.
  – Evaluate capacity to conduct maintenance.
Questions?