



# Memorandum

**To:** Brian Christianson  
**From:** Rob Montgomery  
**Date:** May 5, 2011  
**Re:** Developing a permit application for the jetty and dredging at the Bingham Point "Oxbow"

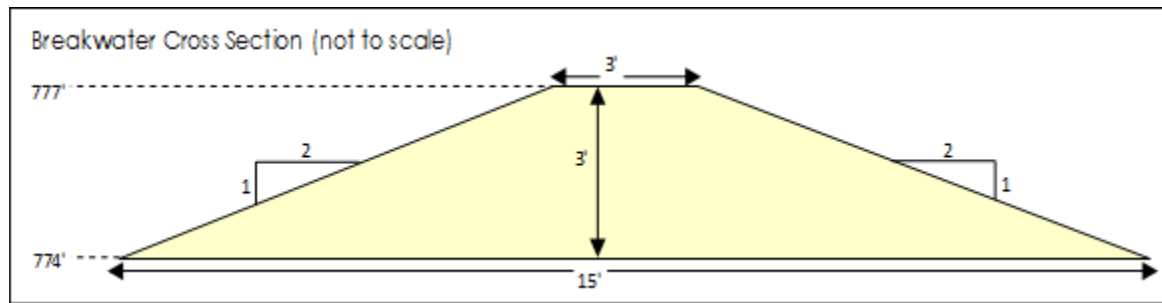
One of the projects that is included in the Lake Koshkonong PAS project descriptions is the dredging and entrance protection jetty (or breakwater) at the entrance of the Bingham Point "Oxbow". The descriptions that we have in the current draft of the PAS environmental assessment are fairly general and describe a project that intended to substantially improve the navigation access to the Oxbow. This project is larger than the relatively modest dredging project that would be required simply to remove the most obvious sand deposits that currently exist in the entrance.

Here is a summary of the information that is currently in the draft PAS Environmental Assessment:

**Description:** Navigation Access and Improvement at Bingham Bay

**Location-** Bingham Bay – see figures





### Objectives

- Construct jetty to limit migration of Sandy sediment southward which currently accumulates in the Oxbow channel entrance
- dredge area offshore of the channel entrance as well as the Oxbow channel itself to produce easily navigated water depths
- Monitor access channel sediment accumulation for documenting the efficiency of selected navigation improvements

### Construction elements

- Access and shoreline arrangements
- Construct breakwater
- Dredge oxbow channel and Lake in front of the channel in Bingham -- need dredge disposal location

### Monitoring

- monitor sediment accumulation on Lake side and in channel using surveys, periodic sediment samples, and observation of wave attenuation and sediment movement
- Frequency: yearly for five years

### Regulatory Issues

- Permits: chapter 30
- private property owner access
- dredge material disposal

### Construction cost elements

- Survey, design, permitting
- Riprap jetty extending into Lake Koshkonong: approximately \$20,000r foot
- Dredging in Lake near entrance and approximately 500 feet up the Oxbow channel
- As built documentation for permit closure
- Monitoring
- Planning-level costs currently estimated at \$100,000-\$150,000

In order to move this project forward to be defined as a "experimental project, which could be constructed in 2011 or 2012 we would have to quickly accomplish the following:

- Work with all of the neighborhood to confirm the range of the project extent, length of jetty, depth of dredging, extent of dredge limits, etc., that would provide the highest value to the shoreline residents.
- Conduct bathymetric and topographic surveys to complete the project design, and also complete a limited property survey to confirm construction access easements and permanent maintenance easements for the project
- Conduct detailed discussion/negotiation with the private property owner on the north shore of the Oxbow entrance regarding construction access, maintenance access and restoration of any landscape features on the property that may be disrupted by the jetty construction and the dredging.
- Confirm the construction cost estimates for the project and confirm where the funding would come from.
- Prepare and submit permit applications to the Corps of Engineers and Wisconsin DNR, including coordination of issues with other review agencies.
- Complete the design plans and specifications

It is likely the permit for this project would take from 3 to 5 months to obtain after application, so we would need to move quite quickly allow this project to be completed in late 2011.

We would be happy to discuss this process with RKLD and the neighborhood representatives, as you direct.