

**IOWA DEPARTMENT OF NATURAL RESOURCES
NATURAL RESOURCE COMMISSION**

Telephonic Meeting Date: Friday, January 25, 2013
Meeting Location: Wallace Bldg – 4 East Conference Room
502 E. 9th Street, Des Moines, IA

MEETING AGENDA
Telephonic Meeting convenes at 2:30pm

1.	Approval of Agenda	Decision	Commission
2.	Engineering Construction Project - Black Hawk Lake, Cottonwood Point Shoreline Armoring	Decision	Gabe Lee

<p>Upcoming NRC Meeting Dates:</p> <ul style="list-style-type: none">• February 14, 2013 – Henry Wallace State Office Building, Des Moines, 9:30am• March 14, 2013 – Henry Wallace State Office Building, Des Moines, 9:30am• April 11, 2013 – Henry Wallace State Office Building, Des Moines, 9:30am
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For details on the NRC meeting schedule, visit:

<http://www.iowadnr.gov/InsideDNR/BoardsCommissions/NaturalResourceCommission.aspx>

Comments during the public participation period regarding proposed rules or notices of intended action are not included in the official comments for that rule package unless they are submitted as required in the Notice of Intended Action.

**Iowa Department of Natural Resources
Natural Resource Commission**

#2

Decision Item

**Engineering Construction Project - Black Hawk Lake, Cottonwood Point Shoreline
Armoring Project (Project # 13-01-81-03)**

Function of the Project: A shoreline assessment identified Cottonwood Point as an area in greatest need of protection. Placement of native field stone will help protect this unique natural feature from erosion as well as help improve water quality. Cottonwood Point is now only a few feet wide in some areas due to past erosion. The use of fieldstone will also provide a longer term solution versus limestone as it does not break down over time under freeze thaw conditions.

The Lake Restoration Program will fund this contract as one of the significant public lakes prioritized for restoration. Lake Restoration Program guidelines recommend the Department give priority for funding to active lake projects so long as progress toward completion of the project remains consistent with the goals of the program. The project was designed and bid by the engineering bureau in collaboration with the Lakes Restoration program staff.

Project Summary and Project Phasing: Research has indicated financial and resource benefits to proceeding with this project in two phases. We are recommending focusing on the priority area, indicated as Phase I in the attached figure, which is the portion of shoreline that is most dependent on low water and frozen ground conditions to facilitate construction. The Department is requesting approval to contract the installation of class “B” fieldstone revetment (rip-rap) along 1,100 feet of shoreline in Black Hawk Lake commonly known as Cottonwood Point.

The area identified for protection can best be reached during periods of low water due to the narrow nature of the point. The current historic low water levels, along with frozen ground during the winter allowing support for construction vehicles, provide ideal working conditions.

Phase I is estimated at approximately \$90,000. This is less than half of the initial estimated total project cost (\$237,000) for both phases due to the availability of local rock, which lowers the price per ton, along with being able to take advantage of the drought (low water) and frozen ground conditions.

Phase II will address the remaining 1,200 feet of shoreline just west of the main point. This section provides an option to access the area from land if necessary. If we bid the two phases together, however, we expect that the rock price per ton would increase significantly as the local rock supplies cannot meet the need at this time and, to complete Phase II, material may need to be brought in from stockpiles farther away. By bidding Phase II at a later date, we expect to reduce the cost of the stone by letting the local suppliers replenish their stockpiles. We estimate the cost for Phase II to be approximately \$120,000. By bidding out the project in two phases, there is an anticipated approximate savings of \$30,000 or more compared to trying to bid the two phases together.

Construction Needed: Work under this project includes a small amount of clearing to gain access to the shoreline. Contractors will then place a 4 to 6 feet wide revetment stone barrier along the existing eroded shoreline. A total of 1,000 ton of class “B” stone will installed as a part of this project.

DNR Project Manager: Jeff Felts, PE; Engineering Bureau
Designer: Jeff Felts, PE; Engineering Bureau
DNR Inspector: Jeff Felts, PE; Engineering Bureau
Operating Bureau: Fisheries
Funding Source: 100% Lakes Restoration; Capital Link #88
Cost Estimate: \$90,000.00
Plans Issue Date: 01/09/13
Bid Letting Date: 01/24/13
Plan Holders: 6
Number of Bids Received: TBD

Bidders

Not available at the time of agenda setting. The Department will select a contractor by the competitive bid process. Bids are scheduled to be opened January 24, 2013, and will be provided to the Commission at the January 25, 2013, meeting.

Gabe Lee, PE
Engineering Bureau Chief
Conservation and Recreation Division
January 25, 2013



Cottonwood Point Shoreline Armoring



- █ Proposed construction access
- █ Priority armoring (Phase I)
- █ Future armoring (Phase II)

