

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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August 28, 2009

Leo W. Zipperer, Chairman
Town of Sevastopol
P.O. Box 135
Sturgeon Bay, WI 54235

Subject: Dam Inspection Report for Clarks Lake Dam, Field File No. 58.03, Dam Key Sequence No. 1189, Door County

Dear Mr. Zipperer:

This is the Department of Natural Resources' Dam Safety Report based on our inspection of the Clarks Lake Dam on 8/14/2009. The site inspection was performed based on a dam safety concern from the President of the lake association. This report identifies work that you are required to do on the dam and a schedule for when that work is to be completed. Please contact me if you have questions about the needed repairs or are uncertain how to proceed.

The dam consists of a poured-in place concrete spillway structure with a stop log section on the right side and a fixed crest section on the left side. The structure is flanked on each side by earthen embankments and reinforced with steel sheet piling. A metal bridge provides access to each side of the embankment. Photo 1 is view of the dam spillway structure from the right abutment.

Wisconsin has an excellent record of safety regarding dams. Our safety standards are meant to protect the public and reduce the likelihood of dam failures. However, I would like to caution you on one potential liability issue. Unfortunately, every year accidents are reported on or near code-compliant dams. My safety inspection does not address injury that could result from trespass or other inappropriate behavior on the dam site. Your insurance carrier may be able to assist you in protection from this type of liability.

Note: Right and left are referenced as you are standing on the dam looking downstream.

CONCRETE SPILLWAY REPAIRS

Complete by July 1, 2010

The concrete portions of dam appear in fair condition. However, the right side of the spillway abutment is experiencing undermining due to deteriorating concrete and the stream currents on the downstream side of the spillway. Please have your engineer inspect the right abutment of the spillway structure, review the overall condition of the existing concrete, and provide a recommendation for the repairs. Findings as a result of your engineer's investigation shall be submitted to the Department for our files.

Plans and specifications for the repairs shall be submitted to the Department for review and approval prior to repair or reconstruction. Photo 2 is a downstream view of the right abutment showing the undermining that has occurred and the concrete that has been lost.

EMBANKMENT REPAIRS

Complete by November 1, 2009

Trees and brush were noted growing on both the right and left embankments near the concrete abutments and steel sheet piling. Photo 1 shows the left side of the dam and the trees that need to be removed. Photo 3 shows a portion of the vegetation that needs to be removed along the right embankment.

Tree removals and removal limits were discussed with Mr. Dan Woelfer (Town of Sevastopol) during the inspection. All the trees and brush within 10 feet of the dam right and left side abutments are to be removed. Tree removal is to include the complete removal of the stumps and the roots, filling of the holes created with firmly compacted tight soils, adding topsoil and grass seed to establish grass growth. I have included our Fact Sheet on "Vegetation Control on Dams" for your information.

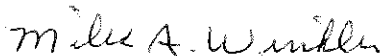
No seepage was observed during the inspection. However we recommend that you continue to monitor the dam for any seepage as part of your Operation and Maintenance procedures. If seepage begins to occur contact this office.

If you are unable to meet the schedule proposed above, submit your own schedule, in writing, for completing the required engineering work and structural repairs. In order for us to consider a schedule other than the one we have determined, you must submit your alternative schedule by October 1, 2009. If we do not hear from you by then, the schedule we have determined will be in effect.

If you have any questions concerning this report, please call me at (920) 662-5195, email me at miles.winkler@wisconsin.gov, or write to the address above.

Thank you for your continued cooperation in maintaining safe dams in Wisconsin.

Sincerely,



Miles A. Winkler, P.E.
Water Management Engineer
Northeast Region

Cc: Carrie Webb – WMS – NER, Green Bay
Linda Hyatt – Wautoma
Bill Sturtevant – Madison WT/3
Dan Woelfer – Town of Sevastopol

Landowner: Town of Seavastopol

Location: Clarks Lake Dam

SW 1/4, SW 1/4, of Section 3, T28N, R17E

Date: 8/14/2009 Photos taken by: Miles Winkler

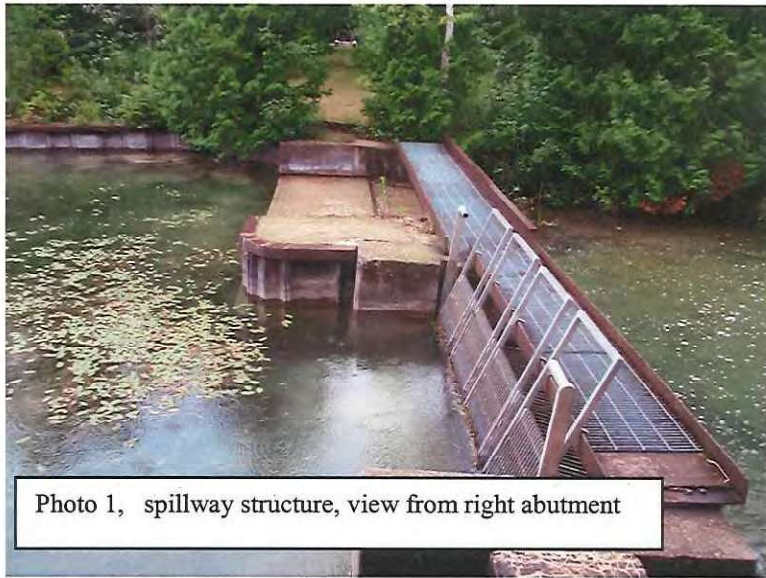


Photo 1, spillway structure, view from right abutment



Photo 2, right side downstream spillway abutment



Photo 3, right side upstream embankment



Photo 4, close-up view of right side spillway abutment