

Manitoba

Infrastructure and Transportation

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March 22, 2012

Ms. Holly Krysko
Chief Administrative Officer
Rural Municipality of Lakeview
Box 100
Langruth MB R0H 0N0

Dear Ms. Krysko:

RE: 2011 LAKE MANITOBA FLOOD PROTECTION LEVELS

The existing provincial policy utilized in assessing flood hazards is to evaluate the hazard based on the 100 year flood level, or the flood of record of the adjoining water body or water course, whichever is greater. The standard which had been used to date for Lake Manitoba was the 100 year flood level. However, extreme high water conditions combined with high winds were experienced on Lake Manitoba during the spring and summer of 2011, and the 2011 flood event on Lake Manitoba exceeded that of a 100 year flood. Therefore, the standard which will now be used on Lake Manitoba is the 2011 flood.

Manitoba Infrastructure and Transportation has re-evaluated the flood protection requirements for lands immediately adjacent to Lake Manitoba to reflect the 2011 conditions. A detailed analysis of 2011 flooding conditions around Lake Manitoba has been undertaken with consideration being given to the Wind Eliminated Elevation (WEE), wind setup, and wave effects which are dependent upon depth of water over land during design flood conditions. Flood Protection Levels, which incorporate all three elements, have been developed along the shoreline of the entire lake i.e. the south basin, the narrows and the north basin of Lake Manitoba.

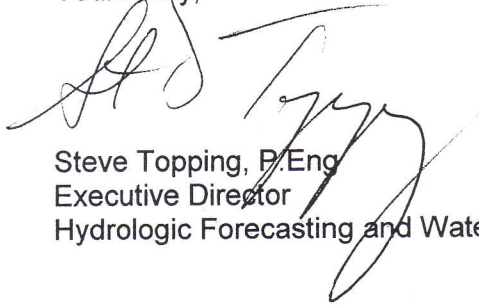
The Flood Protection Levels for individually flood protected sites at the shoreline of Lake Manitoba will be determined on a site specific basis and will reflect the full force of the design flood conditions acting upon those properties. Flood Protection Levels for individually flood protected sites upon backshore properties will also be determined on a site specific basis but will reflect the diminishing effects of waves inland of the shoreline.

The Flood Protection Levels for community-based flood protection systems such as a community dikes will be evaluated by Manitoba Infrastructure and Transportation on a project specific basis to account for the increased wave effects caused by such abrupt and contiguous barriers to water movement.

The Flood Protection Levels which will now be used in assessing flood hazard will be higher than those elevations which have been utilized to date and will afford permanent structures constructed upon lands around Lake Manitoba protection from flooding up to and including that which occurred in 2011.

We request your cooperation in implementing these new Flood Protection Levels for Lake Manitoba in order to provide a greater degree of flood protection for landowners adjacent, and near to the lake. Please do not hesitate to contact Brad Allum at 204-945-2121 if you or your council have any questions or concerns.

Yours truly,



Steve Topping, P.Eng
Executive Director
Hydrologic Forecasting and Water Management

- c: Eugene Kozera
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