TOWNSHIP OF NORTH HURON
REPORT

REPORT TO: Reeve Bailey and Members of Council
PREPARED BY: Sean McGhee, Director of Public Works
DATE: 12/08/2019
SUBJECT: Flood Plain Mapping
ATTACHMENTS: Click here to enter text.

RECOMMENDATION:
THAT the Council of the Township of North Huron hereby receive the report of the Director of Public Works, dated August 12, 2019 regarding Flood Plain Mapping for information;

AND FURTHER, THAT staff be directed to provide written instruction to MVCA regarding the headwater levels to be used for floodplain mapping

AND FURTHER, THAT staff be directed to provide a copy of this report to the Howson Bridge/Dam Committee for information.

EXECUTIVE SUMMARY
The Township of North Huron partnered with Morris-Turnberry and successfully secured funding through the National Disaster Mitigation Program to collect data and secure updated floodplain mapping. Information surrounding this project can be found in Staff Report OPS 2018-33 which is appended to this report.

The LiDAR was flown in early June of this year at which time raw data was collected. Due to high water conditions at the time, some additional survey work is required and will be completed this fall. Once all of the data is collected and compiled, MVCA will input the data into modeling software to develop revised floodplain mapping. The revised floodplain mapping will then be presented to the public for comment and ultimately will be approved and endorsed by the MVCA Board before being provided for adoption into the Official Plan.

The floodplain mapping will have a direct influence on future development properties that are under the influence of the Maitland River.

DISCUSSION
In order for the floodplain mapping to be completed, the operating levels of the Howson Dam must be considered. It has been suggested that the current operating level with all seven stop logs in place is the appropriate condition for the purposes of completing this floodplain mapping exercise.

Additional data can be run for information purposes which would reflect both historic high level and fully open status. This would assist Council in understanding the impact on the operation of the Dam on development properties. The additional data will be provided for information purposes only and may assist Committee and Council in future decisions surrounding the Howson Dam.
It is important to note that only the floodplain mapping generated under current operating conditions with all stop logs in will be presented to the MVCA Board for consideration and adoption.

**FINANCIAL IMPACT**
None at this time.

**FUTURE CONSIDERATIONS**
Should the operating status of the Howson be permanently changed through a decision of Council, the floodplain mapping can be updated. The cost associated with updating the mapping is estimated at approximately $5,000.00 and would take several months to complete.

**RELATIONSHIP TO STRATEGIC PLAN**
This project relates to **Goal No. 3** of the existing Strategic Plan in that the Township is healthy and safe, and **Goal No. 4**, that the administration is fiscally responsible and strives for operational excellence.

Sean McGhee, Director of Public Works

Dwayne Evans, CAO