



LAKE ONTARIO SHORELINE FLOOD WARNING MESSAGE #1

Credit Valley Conservation

1255 Old Derry Road, Mississauga, ON, L5N 6R4

Telephone: (905) 670-1615

Issued to: Municipalities, Police, Emergency Services, School Boards, Media, Local Conservation Authorities, CVC Staff and Board Members

Date: May 29, 2019

Time: 12:00 PM

Local flooding and disruptions to public assets, businesses and private properties close to the Lake Ontario shoreline have been reported. High Lake Ontario levels along with storm surge and/or onshore waves may result in additional disruptions due to shoreline flooding and erosion.

The provisional Lake Ontario elevation for yesterday (May-28-2019) was at 75.87 metres (m) above International Great Lakes Datum (IGLD) as reported by the International Lake Ontario St-Lawrence River Board (LOSLR). This elevation is one centimeter (cm) below the all-time high record of 75.88 m IGLD set in 2017. The record is expected to be matched then exceeded within the next few days. Based on normal climatic conditions, lake levels are forecasted to increase around one centimeter per day over the next week or so then a slow decline is expected in June.

The Surface Water Monitoring Centre (SWMC) of the Ministry of Natural Resources and Forestry (MNR) along with the LOSLR is reporting that Ottawa River flows are declining. Flooding continues in the Montreal area, along the shores of the St Lawrence River, Lake St. Louis, Lake Erie and Lake Ontario. The major flooding experienced in Eastern Ontario and Quebec during the past month is due to a combination of high flows in the St Lawrence and Ottawa River.



Lake Erie levels continue to set new record highs but have recently stabilized. Flows discharging from Lake Erie via the Niagara River, over The Falls, into Lake Ontario are uncontrolled. Flows discharging out of Lake Ontario into the St Lawrence River are controlled at the Moses-Saunders (MS) Dam. The MS Dam is operated in accordance to Plan 2014 from the International Joint Commission (IJC) which takes into consideration, and balances, the impacts of downstream flooding with higher Lake Ontario levels. As flooding subsides downstream of Lake Ontario along the Ottawa and St Lawrence River shorelines, discharge out of Lake Ontario through the Moses-Saunders Dam will increase to alleviate the high lake levels and flooding.

For more information on the Lake-Ontario-St-Lawrence-River-Board and Plan-2014 please visit:

<https://ijc.org/en/loslrb>

Onshore winds, especially those associated with storm systems, can generate waves resulting in shoreline erosion, flooding and damages. Wind and wave conditions are provided by Environment Canada via the following website:

https://weather.gc.ca/marine/region_e.html?mapID=11

Wind gusts at Cawthra Park in south Mississauga are available through the CVC monitoring network:

<https://cvc.ca/watershed-science/watershed-monitoring/real-time-monitoring/cawthra-park/>

Current Lake Ontario level is available from (add 74.2m for IGLD):

<https://waterlevels.gc.ca/eng/find/region/6>

CVC will continue to monitor weather and lake conditions. This Flood Warning will be updated by Fri-Jun-21-2019.

Watercourses discharging directly into Lake Ontario may be impacted by backwater from the lake. Residents and visitors to the Lake Ontario shoreline areas should use extreme caution and obey all closure notices for trails and pathways. As lake levels increase, certain areas may be cut off or isolated.

Alex Pluchik
Flood Duty Officer

NOTE: A Lake Ontario Shoreline Flood Warning is issued when flooding is imminent or occurring along the Lake Ontario shoreline. Municipalities, emergency services and individual landowners in flood prone areas should prepare.



CVC's role during a flooding event is to monitor watershed conditions and weather forecasts, predict river and Lake Ontario conditions, and communicate our findings to the public, municipalities and media. Based on our watershed knowledge, CVC also provides technical advice to municipalities in support of their flood response efforts.

Note to Public: For more information about this message please call CVC between 8:30 and 4:30 (Monday to Friday) at 905-670-1615 and ask for the Flood Duty Officer. If you are concerned about high water levels in your area outside of office hours, please contact your municipality. **For emergencies requiring police, fire or ambulance, call 9-1-1.**

Note to Municipal, MNR, MECP and CA staff: For after-hours inquiries, please phone our answering service at 1-800-215-8505 who will forward your message to CVC's Flood Duty Officer.

Note to media: For more information about this message please call CVC between 8:30 and 4:30 (Monday to Friday) at 905-670-1615 and ask for the Media Contact. For after-hours inquiries, please phone our answering service at 1-800-215-8505 who will forward your message to the Media Contact.