The Corporation of the Township of Huron-Kinloss

Staff Report

Report Title: Bruce Beach Municipal Drain Phase I Update (7), Bruce Beach Municipal Drain – Phase II (4)

Prepared By: Emily Dance, Clerk

Department: DRAIN

Date: Jun. 6, 2022

Report Number: DRAIN-2022-06-10 **File Number: E09-BRU Ph1 E09 BRU Ph2**

Attachments:

Recommendation:

THAT the Township of Huron-Kinloss Committee of the Whole hereby receives for information Report DRAIN-2022-06-10 prepared by Emily Dance, Clerk.

Background:

Construction - Bruce Beach Municipal Drain – Phase I
Bruce Beach Municipal Drain – Ph 1 report includes the pond, ravine work of the Bruce Beach Municipal Drain Project.

Bruce Beach Municipal Drain – Phase II
The Phase II report will finalize a legal outlet to the lake for this water course.

Discussion:

The Township was made aware by local residents of concerns of silty muddy water entering the lake. The Township investigated both on May 5, 2022, and May 10, 2022 as well Headway Engineering, the Engineer appointed to the drain was on site on Thursday May 12, 2022 to further investigate the cause.

We understand that the silty water was coming from the north road ditch along Lake Range Drive on the west side of the road. There was a small flow of water coming from the road side ditch, and it was flowing over the silty material that has slipped over the last several weeks. It was picking up the silt and bringing it into the Bruce Beach Drain.

The contractor was on-site Wednesday May 18, 2022 and Thursday May 19, 2022 and installed silt fencing and straw bales where the north road ditch enters the ravine. A

temporary pipe conveying flows from the north road ditch has been installed to convey road ditch waters directly to the downstream catch basin (instead of over the surface) Silt fencing and straw bales have been installed around the ditch inlet catch basin on the west side of Lake Range Drive as well geotextile filter material is installed around the ditch inlet catch basin grate to further filter runoff. On Friday May 20, 2022 the flow coming out of the pipe at Bruce Beach Road was running clear, as was the flow to the beach (see attached photos).

We have been in contact with the Ministry of Environment Conservation and Parks, and they are well aware of the situation and the measures taken to remediate.

A more permanent solution will be constructed once the ground conditions allow.

Construction Bruce Beach Municipal Drain – Phase I

The Contractor has configured a new temporary condition for the North Road Ditch on Lake Range Drive to manage erosion and sediment control, and to accelerate drying of the soil material on the slope.

Bruce Beach Municipal Drain – Phase II

Daylighting of utilities in Bruce Beach Road is complete, and actual utility locations and elevations have been drafted.

The proposed alignment of the drain in Bruce Beach Road has been optimized to accommodate the existing utilities in the road.

The design of the outlet structure has been modified per public feedback.

Hydrologic and hydraulic models for Hurricane Hazel are complete (existing and proposed). The results are being analyzed and discussion points are being prepared to address SVCA comments.

Headway Engineering has reached out to four costal engineering firms for review of the outlet structure. Matrix-Solutions (formerly Ecosystems Recovery) has been selected. Design drawings and SVCA requirements have been forwarded to the coastal engineer for their review.

Preliminary revisions to Branch 'A' have been made.

Financial Impacts:

Associated costs for the drain are indicated in the assessments.

Strategic Alignment / Link:

We are an accessible community by being open and transparent.

Respectfully Submitted By:
Emily Dance, Clerk
Approved By:
Mary Rose Walden, Chief Administrative Officer