



## Staff Report

**Report Title: Bruce Beach Municipal Drain Phase I Update (10), Bruce Beach Municipal Drain Phase II Update (7) Bruce Beach Municipal Drain Extension Branch 'A' (4).**

**Prepared By: Ken McCallum, Drainage Superintendent**

**Department: DRAIN**

**Date: Oct. 3, 2022**

**Report Number: DRAIN-2022-10-18  
BBD Ph II**

**File Number: D09 BBD Ph 1 D09**

**Attachments: NONE**

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### **Recommendation:**

That the Township of Huron-Kinloss Committee of the Whole hereby receives for information Report DRAIN-2022-10-18 prepared by Ken McCallum, Drainage Superintendent.

### **Background:**

#### Construction – Bruce Beach Municipal Drain – Phase I

Phase I report includes the construction of the Pond Detention facility, ravine work between Lake Range Drive and Bruce Beach Road.

#### Bruce Beach Municipal Drain – Phase II

Phase II will finalize the outlet to the lake for the watercourse.

#### Bruce Beach Municipal Drain Extension (Branch 'A')

Branch 'A' will be included with Phase II work.

### **Discussion:**

#### Phase I

The detention facility has been constructed with topsoil grading and hydroseeding completed. On August 26, 2022 a construction meeting was held with the Contractor, Headway Eng., Geotechnical Engineer (CMT), and representatives of the Township to discuss the deficiencies and repairs to the slope on Lake Range Drive. It

was agreed that the fill material shall be removed on the slope exposing the old roadbed granular material. Sub drains are to be installed to receive any excess water seeping out of the road which is to be directly connected into the catch basin at the bottom of the Slope. 2-3 layers of Geogrid placed at intervals specified by the Geotech at the time of construction have been proposed to help stabilize the slope and prevent future failure.

Repairs to the slope on Lake Range Drive was scheduled to start on September 2<sup>nd</sup>, 2022. Contractor delays to repair the slope pushed the start date to September 21, 2022. The Geotechnical Engineer will be on-site to oversee the work and make any on-site adjustments deemed necessary to properly address issues with the slope. Deficiency repairs to the ravine will commence after the slope is repaired.

Upcoming construction activities:

- Repair of erosion and sediment control measures
- Completion of the Lake Range Drive slope repair
- Ravine deficiencies, and fine grading
- End treatment on the guiderail at Lake Range Road
- Lake Range Drive asphalt patch (tentative September 28, 2022)

## Phase II

On September 15, 2022, Headway Eng. sent revised draft report drawings to SVCA in response to comments made during a virtual meeting on September 2<sup>nd</sup>. SVCA had requested additional information to compare the existing flooding during Hurricane Hazel to the proposed flooding at several additional locations in the affected areas.

We are a prosperous community that continues to grow in a sustainable manner while being environmentally conscious and good stewards of our natural environment.

True Consulting the new Coastal Engineer is still working on his component to address SVCA's concerns. The dynamic beach study report will be presented to SVCA in the near future.

## Bruce Beach Municipal Drain Branch 'A'

Headway Engineering has received additional comments from landowners regarding the branch 'A' drain and is finishing the proposed design. Headway will present the design to landowners at the next information meeting.

## **Financial Impacts:**

The Municipality is responsible for any assessments to all Municipal lands and roads as specified by the Engineer.

## **Strategic Alignment / Link:**

We are a prosperous community that continues to grow in a sustainable manner while being environmentally conscious and good stewards of our natural environment.

**Respectfully Submitted By:**

Ken McCallum, Drainage Superintendent

**Report Approved By:**

Mary Rose Walden, Chief Administrative Officer