

BACKGROUND

The initial floating breakwater was installed for the Marina in 1981 and was a floating tire type design.

This was replaced in 1998 by the existing single steel tube floating breakwater.

It services a 219 slip marina operated by LaSalle Park Marina Association (LPMA) a non-profit community organization.

The existing floating breakwater has not provided full protection from larger storms and is structurally at the end of its useful life.

Environmental Assessment:

A Class Environmental Assessment (EA) Study to replace the floating breakwater was initiated in February 2011 and the Environmental Study Report (ESR) was completed in July 2013.

The EA was conducted in accordance with the Municipal Engineers Association “Municipal Class Environmental Assessment” as a Schedule C project.

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Preferred Marina/Breakwater Concept – July 2013:

A stone or rock fixed breakwater was recommended as the preferred solution.

The design of this proposal was comprised of a 17,300 square meter footprint, which would be approximately 2.5 meters wide with 1.5 meters visible during average summer water levels.

The recommended breakwater would have an expanded footprint to protect an expanded Marina layout to accommodate 320 permanent slips and an additional 20 transient slips.

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EA Process - Part II Order & Ministry Approval:

As part of the EA process, if concerns regarding the project cannot be resolved in discussions with the City and consultant, a person or party may request that the Minister of the Environment (MOE) make an order to comply with Part II of the Environmental Assessment Act.

Part II Order (Order) requests must be made in writing to the MOE by the end of the public review period.

Three (3) requests for an Order were received by MOE. The concerns raised included impact to water circulation and fish habitat from the proposed rock fill into the harbor and impacts to the wintering habitat of the trumpeter swans due to the potential for increased winter ice.

The Ministry of the Environment and Climate Change (MOECC) approved the 2013 Environmental Study Report in July 2015 recommending rock fill breakwater subject to conditions, including:

The Proponents will form a Stakeholder Advisory Committee for the purposes of disseminating and exchanging information and discussing issues and concerns raised by its members.

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Funding for Preferred Permanent Rock Breakwater:

Initial estimates for construction of a permanent Rock Breakwater for a larger marina ranged from \$8 – \$12 M.

A report to Council in 2016, (PR-01-16), identified a cost of \$12M to implement the permanent Breakwater .

Proposed Funding Source for Construction of Permanent Rock/Stone Breakwater:

Federal Government \$4M

Provincial Government \$4M

Infrastructure Ontario Loan/City \$4M

Total \$12M

To date no Federal or Provincial Funding has been secured for the project

Due to the deterioration and subsequent damage to the floating Breakwater at the marina, numerous repairs were undertaken by LPMA to ready the Breakwater for the 2018 season.

Given the condition of the current floating Breakwater it has reached the end of its useful life, and is in need of immediate replacement for Marina Operation to continue

COUNCIL DECISION JUNE 2018

- ✓ In June 2018 City Council approved replacing the existing floating Breakwater with a new floating Breakwater at an estimated cost of \$4M funded by the City.
- ✓ Slip capacity remains at 219 slips, with no expansion.
- ✓ The underlying assumption in the service delivery forecasts in Council's report was that the floating Breakwater is designed to stay in the water year around. If this is not a plausible solution, there may be additional costs for hauling in and out the Breakwater and docks for each season.
- ✓ Cost Estimate – Staff's preliminary estimates for the floating Breakwater project is approximately \$4 million, which includes the cost to hire a coastal engineering firm for performance design specifications, manufacture, and installation for floating Breakwater.

NEXT STEPS

- ✓ The City has retained Shoreplan Engineering Limited to assist with the development of Performance design Specification for a new floating breakwater and subsequent procurement, manufacture and installation.
- ✓ The intent is to replace the existing floating breakwater with a new floating breakwater in substantially the same configuration as the existing one, but that can be left in place over the winter.
- ✓ It is the City's intent to document this change by issuing an Addendum to the original 2013 ESR in the Fall of 2018

PROPOSED SCHEDULE

- ✓ Fall 2018 Preparation of Performance/Design Specifications and Addendum Report.
- ✓ Fall 2018 Pre-qualification of design-build consortiums to provide a new floating breakwater.
- ✓ Winter 2019 Procurement and Award of contract for a new floating breakwater.
- ✓ Spring/Summer 2019 – Manufacture and installation of a new floating breakwater.