

Section I – Items for Authority Action

TO: Chair and Members of the Authority
Meeting #5/18, Friday, June 22, 2018

FROM: Nick Saccone, Senior Director, Restoration and Infrastructure

RE: **BLUFFER’S PARK SOUTHWEST HEADLAND AND BEACH MAJOR MAINTENANCE PROJECT**
Supply, Delivery and Placement of 100 – 300 Millimetre Cobblestone for Repair of an Engineered Cobble Beach

KEY ISSUE

Award of Contract #10008142 for supply, delivery and placement of 100 – 300 millimetre cobblestone.

RECOMMENDATION

THAT Contract #1008142 for the supply, delivery and placement of approximately 20,000 tonnes of 100 – 300 millimetre cobblestone to the Bluffer’s Park Southwest Headland and Beach Major Maintenance Project be awarded to Galcon Marine Ltd. for a total cost not to exceed \$1,516,125.00, plus a contingency of 10% to be expended as authorized by Toronto and Region Conservation Authority (TRCA) staff, plus HST, it being the lowest bidder meeting TRCA specifications;

THAT should staff be unable to achieve an acceptable contract with the awarded supplier, staff be authorized to enter into and conclude contract negotiations with the other suppliers that submitted quotations, beginning with the next lowest bidder meeting TRCA specifications;

AND FURTHER THAT authorized TRCA officials be directed to take all necessary actions to implement the foregoing, including the signing and execution of any documents.

BACKGROUND

Bluffer’s Park was built in the 1970’s and opened to the public as a waterfront park in 1981. Erosion control structures along the shoreline of the park include a series of headlands, beaches and revetments. These structures have been monitored annually by TRCA’s Erosion Risk Management Program since 2006. Based on TRCA monitoring records, the southwest headland and adjacent beach within Bluffer’s Park have been in poor condition and recommended for major maintenance since 2009.

A Shoreline Conditions Review undertaken by Shoreplan Engineering in 2010 stated that the instability of the headland was likely caused by a combination of toe instability, lack of consistent double layer placement of armourstone in various areas, lack of sufficient filter layering below the primary armourstone, an over steepened structure slope, and wave overtopping. Preliminary solutions identified were modification of the existing structure or a complete rebuild utilizing existing material when possible and supplementing with new material as required. In 2016, TRCA undertook interim maintenance works to improve headland stability until a permanent solution could be implemented.

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During the same Shoreline Conditions Review, it was determined that erosion of sand material along the over-steepened portion of the bank is resulting from a lack of coarse material to provide stability and an appropriate beach width to dissipate waves before reaching the back portion of the bank.

Shoreplan Engineering was retained in 2017 under Contract #10002436 to provide detailed design solutions for the headland and beach. Detailed designs for repair of the headland and the construction of a cobble beach were completed. The design solution for the headland involves filling in existing voids and adding a second layer of armourstone protection. The design solution for the beach involves a slight realignment and the addition of cobble material to provide a wider beach profile.

Maintenance of the beach is scheduled for July 2018 as all permits and approvals have been obtained. Repair of the headland was originally scheduled for July 2019, but was recently deferred to 2024 following a storm in April 2018 that caused significant damage to another location within Bluffers Park that will require repair first due to the loss of land and risk to public safety. Interim repairs to the headland were completed in 2016 and staff will continue to monitor the structure condition annually and prioritize works accordingly.

RATIONALE

Request for Tender (RFT) #10008142 was publicly advertised on www.biddingo.com on May 16, 2018 and a mandatory site meeting was held on May 24, 2018. The following contractors attended this meeting:

- Atlantis Marine Construction Canada Incorporated;
- Bronte Construction;
- Dean Construction Company Limited;
- Doornekamp Construction Limited; and
- Galcon Marine Limited.

The Procurement Opening Committee opened the Tenders on June 1, 2018 at 12:00 pm with the following results:

RFT # 10008142
Bluffers Park Southwest Headland and Beach Major Maintenance Project –
Construction of a Cobblestone Beach

BIDDERS	TOTAL TENDER AMOUNT (Plus HST)
Galcon Marine Ltd.	\$1,516,125.00
Doornekamp Construction Ltd.	\$1,684,000.00
Dean Construction Company Limited	\$2,857,400.00

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TRCA staff reviewed the bid received from Galcon Marine Ltd. against its own cost estimate and has determined that the bid is of reasonable value and also meets the requirements as outlined in the contract documents. Further assessment by TRCA staff of Galcon Marine Ltd.'s experience and ability to undertake similar projects was conducted through reference checks which resulted in positive feedback that Galcon Marine Ltd. is capable of undertaking the scope of work.

TRCA staff recommends that Contract #10008142 be awarded to Galcon Marine Ltd. for a total cost not to exceed \$1,516,125.00, plus a 10% contract contingency, plus HST as they are the lowest bidder meeting TRCA's specifications.

This project is aligned with leadership strategy number two "Manage our Regional Water Resources for Current and Future Generations", as the shoreline erosion control measures will prevent a breach of the land base into the marina from future erosion.

Additionally, this project aligns with enabling strategy number seven "Build Partnerships and New Business Models." Although TRCA is responsible for the monitoring and maintenance of the erosion control structures at Bluffers Park, staff was able to facilitate discussions with City of Toronto Parks, Forestry and Recreation (PF&R) staff to obtain special funding for this project in 2018. This additional funding helped to mitigate a budget shortfall within TRCA's capital budget for waterfront major maintenance stemming from extensive shoreline damage in spring 2017 due to historic high water levels.

FINANCIAL DETAILS

The total cost to repair the beach is estimated at \$1,766,000. The work is being co-funded by City of Toronto PF&R and TRCA at a share of 65% and 35% of the total cost, respectively. Expenditures are being tracked within account 241-23, with TRCA's portion of the funding to be provided from its 2018 enhanced waterfront major maintenance capital budget within account 241-01.

DETAILS OF WORK TO BE DONE

Implementation of the cobble beach is scheduled for July 2018. The impact to the public is anticipated to be minimal as material will be delivered by barge and the work area is currently restricted to the public and is utilized only by Bluffer's Park Marina staff and patrons (barge).

Project updates, including construction start date, duration and any delays will be communicated to primary stakeholders, such as the City Councillor, Parks Supervisor, marina staff and patrons, and the Toronto Float Home Association through on-going email correspondence, and to a broader audience through project signage, notices in local newspapers and on TRCA's website.

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