

NO: **R232** COUNCIL DATE: **December 16, 2019**

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **December 11, 2019**
FROM: **General Manager, Engineering** FILE: **6019-005**
SUBJECT: **Award of Contract No. 6019-005
Environmental Assessment Services for Disaster Mitigation and Adaptation
Fund Works**

RECOMMENDATION

The Engineering Department recommends that Council:

1. Award Consultant Agreement No. 6019-005 to Hatfield Consultants in the amount of \$630,000.00 (including GST) for the Environmental Assessment Services for Coastal Climate Adaptation Works;
2. Set the expenditure authorization limit for Consultant Agreement No. 6019-005 at \$693,000 (including GST and contingency); and
3. Authorize the General Manager, Engineering to execute Consultant Agreement No. 6019-005.

INTENT

The intent of this report is to obtain approval to award an agreement for Environmental Assessment Services for the Coastal Climate Adaptation works as part of the Disaster Mitigation and Adaptation Fund (“DMAF”) Program, as illustrated on the map attached to this report as Appendix “I”.

SCOPE OF WORK

At its Regular Council Meeting on July 22, 2019 as part of Corporate Report No. R158; 2019 (attached as Appendix “II”), Council approved the execution of a Contribution Agreement with the Government of Canada to support the 13 projects included in the DMAF Program. The scope of work related to this Consultant Agreement involves providing environmental assessment services for major projects administered by the City, which require consultation with the BC Environmental Assessment Office (“BCEAO”) as part of the DMAF Program. These services will entail a comprehensive environmental assessment and related work to be completed concurrently with detailed design and prior to construction of four DMAF major projects.

The DMAF Program consist of 13 projects focused on reducing Surrey's vulnerability to coastal flooding and sea level rise. The projects range from dyke and road upgrades, sea dam and bridge replacements, to storm sewer upgrades, nature-based solutions and other infrastructure investments. Four of the 13 projects have been identified as "major projects" and require permitting per the *BC Environmental Assessment Act* [SBC 2002, c. 43] ("BCEAA"). All four projects will form a single submission to the BCEAO. For these projects, the City will file for a Certificate Exemption Order from the Province.

The four major projects (as illustrated in the attached Appendix "1") that will form the submission are as follows:

- **Serpentine Sea Dam Replacement (DMAF Project #3):** Construction of a new sea dam (a flood-control and irrigation structure) on the Serpentine River near Highway 99, which will be downstream from its current location at King George Boulevard, thus expanding the freshwater/brackish habitat 2.9 km to the west (downstream). The new structure must incorporate fish passage.
- **Nicomekl Riverfront Park (DMAF Project #5):** Establishment of a new, 3 km long park on the south bank of the Nicomekl River from Elgin Road to 40 Avenue, which will feature innovative nature-based flood mitigation approaches. Only the section between the current Nicomekl sea dam and the Highway 99 Nicomekl Bridge is expected to be included as part of the environmental assessment.
- **King George Boulevard Bridge and Nicomekl Sea Dam Replacement (DMAF Project #6):** Replacement and potential integration of three aged structures (a sea dam and two bridges) into a resilient structure(s) consisting of a sea dam and four-lane bridge, which will effectively move the existing sea dam located on the Elgin Road bridge, up the Nicomekl River (approximately 175m west), thus expanding the brackish/estuarine habitat. The new structure will incorporate fish passage.
- **Foreshore Enhancements in Mud Bay (DMAF Project #13 and part of Project #1):** An innovative, nature-based solution of enhancing natural processes by providing sediment in front of legislated dykes to mitigate impacts of sea level rise on marsh habitat and to provide flood-attenuation.

EVALUATION

The City advertised the project on the City's website and on the BC Bid website. A total of four companies were pre-qualified, as listed below:

- AECOM Canada Ltd.;
- Golder Associates;
- Hatfield Consultants; and
- Hemmera Envirochem Inc.

The proposals were evaluated using the following criteria:

- Understanding of the assignment;
- Experience relative to the assignment;
- Strength of the project manager and team;
- Work plan and schedule; and

- Financial considerations.

All four submissions were carefully reviewed for accuracy and completeness by a panel of three staff members, following a structured and standard evaluation process. Staff from the two best proposals were then interviewed and asked to make a presentation to the review panel on their proposals and course of action.

Hatfield Consultants demonstrated a thorough understanding of the scope of work and a strong proposed work plan. Hatfield Consultants have significant experience with BC Environmental Assessments and are also on the Ministry's advisory panel. Furthermore, Hatfield Consultants have put forth a team with considerable experience related to very similar work throughout Surrey and neighboring municipalities. Their fee is also very competitive to the submitted proposals. It is therefore recommended that this assignment be awarded to Hatfield Consultants.

FUNDING

40% of the Environmental Assessment project cost is eligible for funding contributions received from the DMAF Program. Funding for the remaining costs in the first year of this Contract are available in the 2020 Drainage Capital Budget. Funding for the remaining costs in subsequent years have been included in the Drainage Five-Year Capital Program.

SUSTAINABILITY CONSIDERATIONS

The work of this contract supports the objectives of the City's Sustainability Charter 2.0. In particular, this work relates to Sustainability Charter 2.0 theme of Infrastructure. Specifically, this project supports the following Desired Outcomes ("DO") and Strategic Direction ("SD"):

- All Infrastructure Do1: City facilities and infrastructure systems are well managed, adaptable and long lasting, and are effectively integrated into regional systems;
- All Infrastructure Do3: Infrastructure systems are designed to protect human health, preserve environmental integrity, and be adaptable to climate change impacts; and
- All Infrastructure SD1: Proactively manage community assets to maintain them over the long-term in a state of good repair.

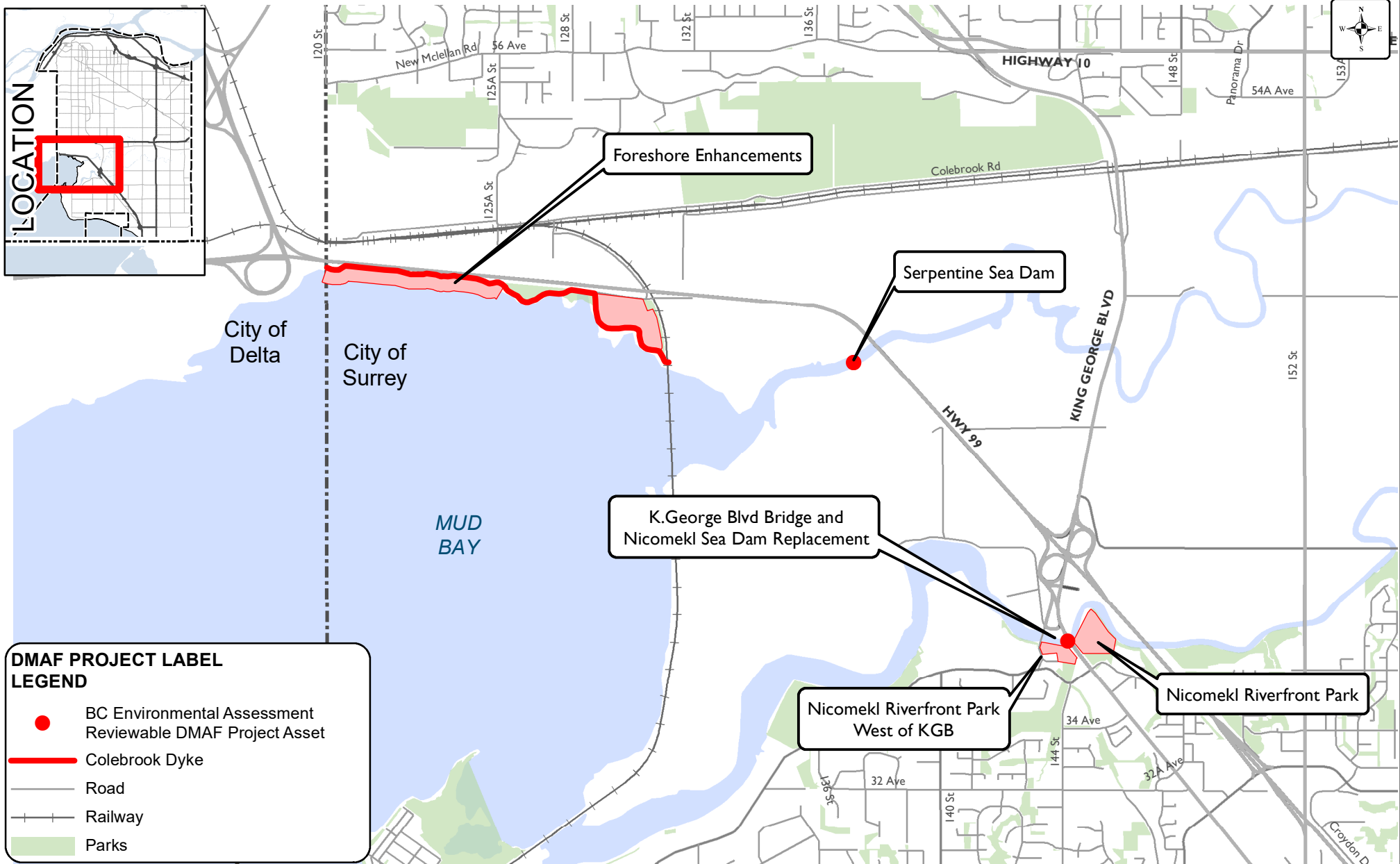
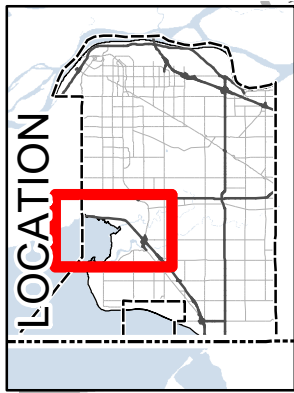
CONCLUSION

An Environmental Assessment is required for the four major projects that are being undertaken in DMAF. Hatfield Consultants demonstrated a thorough understanding of the scope of work and has a strong proposed work plan. Retaining Hatfield Consultants will enable to the City to complete a consolidated Environmental Assessment for these projects to fulfill the Province's requirements.

Scott Neuman, P.Eng.
General Manager, Engineering

YY/CAB/cc

Appendix "I" – Map of Locations – Contract No. 6019-005



DMAF PROJECT LABEL LEGEND

- BC Environmental Assessment Reviewable DMAF Project Asset
- Colebrook Dyke
- Road
- Railway
- Parks

Produced by GIS Section: 10-Dec-2019, P206025

Scale: 1:35,000



Map of Reviewable DMAF Projects

ENGINEERING DEPARTMENT

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, Legal descriptions and encumbrances must be confirmed at the Land Title Office.