

COMMISSION REPORT

TO: CHAIR AND MEMBERS
PARKS, RECREATION AND CULTURE
COMMISSION

FROM: DIRECTOR PARKS, RECREATION AND
CULTURAL SERVICES

FILE: 61100-20
*Reference: Burnaby Fraser
Foreshore Park*

**SUBJECT: BURNABY FRASER FORESHORE PARK - FRASER RIVER DYKE
UPGRADE PROJECT ENVIRONMENTAL COMPENSATION SITE FOR
REACH 8 WORKS**

PURPOSE: To obtain approval for use of a site within Burnaby Fraser Foreshore Park for the proposed environmental compensation works related to the implementation of the Fraser River Dyke Upgrade Project Reach 8 works.

RECOMMENDATIONS:

1. **THAT** approval be given for use of a site within Burnaby Fraser Foreshore Park for aquatic and riparian habitat compensation works required for the City's Fraser River North Arm Dyke rehabilitation and upgrade project works being undertaken in Reach 8 of the Fraser River North Arm dyke as outlined in this report.
2. **THAT** a copy of this report be sent to the Sustainable City Advisory Committee for information.

REPORT**INTRODUCTION**

The City is undertaking an ongoing program to upgrade flood protection works along nine reaches of the foreshore of the Fraser River North Arm in Burnaby. Reaches 5-9 are primarily located within Burnaby Fraser Foreshore Park. At its meeting of 2016 July 20, Commission approved an alignment for the dyke upgrade works in Reach 8, including a new retained section of dyke which will connect the foreshore dyke works at Glenlyon Creek to the inland dyke works alongside Glenlyon Parkway. The location and alignment of the Reach 8 dyke works is illustrated in the attached sketch plan (Attachment #1).

To: *Parks, Recreation & Culture Commission*
From: *Director - Parks, Recreation & Cultural Services*
Re: *Burnaby Fraser Foreshore Park - Fraser River
Dyke Upgrade Project Environmental
Compensation Site for Reach 8 Works*

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The detailed design for the Reach 8 upgrade works is completed. However, before construction preloading for the new section of dyke can commence, Department of Fisheries and Oceans (DFO) approval for the dyke work is required, and is contingent on provision of an approved site and concept for the DFO implementation of the associated aquatic, riparian and terrestrial habitat compensation works for the project. Therefore, the Director Engineering is now requesting approval for the use of a small area within the Burnaby Fraser Foreshore Park for the installation of aquatic, riparian and terrestrial habitat compensation works for the Reach 8 dyke upgrade project works.

The City's Burnaby Fraser Foreshore Park, a narrow linear band of river foreshore with three inland fingers, extends over half of Burnaby's Fraser River foreshore. The compensation site is proposed to be located on the river foreshore within Reach 8, between Glenlyon and Sussex Creeks, as illustrated in the attached park map. This area of the park is located on the river side of the dyke and is intended to function as part of the flood plain. The proposed compensation works involve installation of a tidal channel and fish habitat area with enhanced riparian planting, and installation of a foot bridge to maintain connectivity on the popular foreshore trail.

Engineering Department staff have discussed the conceptual plan for the proposed aquatic and riparian habitat compensation works with DFO, and upon approval to use the requested site, will prepare a detailed plan for the compensation works which meets the DFO's requirements and is acceptable to Parks staff. Preservation of trees will be considered in the alignment and design for the tidal channel, but selected removal of some trees may be required. Habitat complexing and riparian area planting will enhance the habitat value of this conservation zone within the park, to support aquatic and terrestrial wildlife species, including the Stickleback and Chinook salmon found along this reach of the Fraser River North Arm and nearby creeks.

The construction contract will include a five-year monitoring and maintenance period for the compensatory works.

Signs will be posted in the park notifying the public of any temporary disruptions and trail detours during construction of the compensatory works.

POLICY SECTION

Goal

- A Safe Community
 - Emergency preparedness –
Enhance plans, procedures and services so that we are better prepared to respond to emergencies and are able to maintain City services
 - Emergency services –
Provide responsive emergency services

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- **A Connected Community**
 - **Partnership –**
Work collaboratively with businesses, educational institutions, associations, other communities and governments
 - **Geographic connection –**
Ensure that people can move easily through all areas of Burnaby, using any form of transportation
- **An Inclusive Community**
 - **Serve a diverse community –**
Ensure City services fully meet the needs of our dynamic community
- **A Healthy Community**
 - **Healthy life –**
Encourages opportunities for healthy living and well-being
 - **Healthy environment –**
Enhance our environmental health, resilience and sustainability
- **A Dynamic Community**
 - **Economic opportunity –**
Foster an environment that attracts new and supports existing jobs, businesses and industries
 - **Community development –**
Manage change by balancing economic development with environmental protection and maintaining a sense of belonging
 - **City facilities and infrastructure –**
Build and maintain infrastructure that meets the needs of our growing community
- **A Thriving Organization**
 - **Organizational culture –**
Ensure that our core values are reflected in our policies, programs and service delivery
 - **Financial viability –**
Maintain a financially sustainable City for the provision, renewal and enhancement of City services, facilities and assets
 - **Communication –**
Practice open and transparent communication among staff, Council and the community
 - **Reliable services, technology and information –**
Protect the integrity and security of City information, services and assets

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RECOMMENDATION

In order to meet the construction timeline for the Fraser River North Arm Dyke Upgrade Project Reach 8 works, a number of approvals are required in sequence commencing with Commission approval for use of the proposed compensation site within Burnaby Fraser Foreshore Park. The concept for the proposed compensation works and the compensation site location within the park are in-line with environmental enhancement goals for this area of Burnaby Fraser Foreshore Park and complement similar off-channel tidal habitat works installed further east in the park. It is therefore recommended that Commission approve use of this site within Burnaby Fraser Foreshore Park for the proposed Reach 8 dyke upgrade compensation works.



Dave Ellenwood
DIRECTOR PARKS, RECREATION & CULTURAL SERVICES

ATS:ats:tc

Attachment

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Copied to: Director Engineering
Director Planning and Building



FRASER RIVER FORESHORE REACH 8 DYKE



Reach 8 Dyke - Recommended Alignment

LEGEND

- Reach 8 Dyke - Recommended Alignment
- Creeks
- Existing Dyke
- Floodbar

DATE: 2018-10-12

SCALE: 1:7,500

CLIENT



Attachment #1