

FINANCE AND CIVIC DEVELOPMENT COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

SUBJECT: EAGLE CREEK ISMP

RECOMMENDATION:

1. THAT Council approve an allocation of \$170,000 (exclusive of 12% HST) from the Gaming Funds Reserves to finance the Eagle Creek Integrated Stormwater Management Plan (ISMP).

REPORT

The Finance and Civic Development Committee, at its meeting held on 2012 January 25, received and adopted the *attached* report seeking Council approval to fund an integrated stormwater management plan (ISMP) for the Eagle Creek watershed from the Gaming Funds. The project will set out how watershed resources will be better managed to balance land development with environmental protection, preservation and enhancement. Green space, stream corridors and economic considerations will be integrated into the study to provide a holistic and integrated outlook to ensure the long term health of this watershed is preserved.

Total project cost is estimated at \$170,000 (exclusive of 12% HST), and sufficient Gaming Funds Reserves are available.

Respectfully submitted,

Councillor D. Johnston
Chair

Councillor C. Jordan
Vice Chair

Councillor P. McDonell
Member

Copied to:	City Manager Director Engineering Director Finance Director Planning & Building
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TO: CHAIR AND MEMBERS
FINANCE AND CIVIC DEVELOPMENT
COMMITTEE

DATE: 2012 January 06

FROM: DIRECTOR ENGINEERING

FILE: 31000 40

SUBJECT: EAGLE CREEK ISMP

PURPOSE: To obtain approval from the Committee and Council to fund an integrated stormwater management plan (ISMP) for the Eagle Creek watershed from the Gaming Funds.

RECOMMENDATION:

1. **THAT** the Committee recommend Council to allocate \$170,000 (exclusive of 12% HST) from the Gaming Funds Reserves to finance the Eagle Creek Integrated Stormwater Management Plan (ISMP).

REPORT**1.0 INTRODUCTION**

As part of the municipal commitment under the Metro Vancouver's Integrated Liquid Waste and Resource Management Plan, municipalities within the Greater Vancouver region are required to develop and implement integrated stormwater management plans (ISMP) at the watershed scale that integrate with land use to manage rainwater runoff. Staff has reviewed the stormwater management conditions in the City and identified the need to conduct an ISMP for the Eagle Creek watershed.

In recent years, the City has completed the Kaymar Creek ISMP and updated the Byrne Creek ISMP. Recommendations identified in these studies are being used to guide rainwater best management practices in new developments and future capital improvement priorities in these watersheds.

2.0 DISCUSSION

The Eagle Creek watershed is located in the northeast region of Burnaby and is approximately 585 ha in size (Figure 1 – Site Plan). It is bounded by Simon Fraser University (SFU) to the north, Burnaby Lake to the south, the Shell Tank Farm to the east

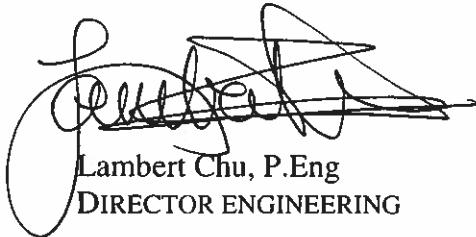
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From: Director Engineering
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and extends beyond Phillips Avenue to the west. The land use in the watershed consists of single family and industrial development, and green space. Valuable environmental resources are present in the watershed especially along the Eagle Creek corridor. Pressures on these resources are increasing with ongoing redevelopment activity, surface area changes and erosion/sedimentation concerns in Eagle Creek.

In 2012, it is recommended that an ISMP project be undertaken for the Eagle Creek watershed. The recommended ISMP project will set out how watershed resources will be better managed to balance land development with environmental protection, preservation and enhancement. Green space, stream corridors and economic considerations will be integrated into the study to provide a holistic and integrated outlook to ensure the long term health of this watershed is preserved.

As Eagle Creek discharges directly to Burnaby Lake, the study will include investigating some core issues including minimizing upland erosion and lowland/Burnaby Lake sedimentation problems; providing enhancement opportunities for aquatic and wildlife habitats; reducing pollutant loadings including inappropriate discharges; and improving stream flow water quality. The latest developments in stormwater best management practices will be assessed for application in this watershed. A feasibility study will be conducted to investigate the opportunity of implementing low impact development initiatives and source control measures incorporating sustainability principles. As Metro Vancouver is responsible for maintaining Eagle Creek between Broadway and Burnaby Lake, staff will work with Metro Vancouver to evaluate the erosion/sedimentation issue in Eagle Creek with the view to minimize sediment deposits in Burnaby Lake.

Total project cost is estimated at \$170,000 (exclusive of 12% HST). Sufficient Gaming Funds Reserves are available and these expenditures will be included in the Storm Sewer component of the 2012 Annual Financial Plan. The 2012 Provisional Financial Plan includes a \$150,000 funding allocation for an ISMP for the Deer Lake watershed. The Deer Lake project will be deferred to a later year and it is recommended that the Eagle Creek ISMP be advanced to 2012 for implementation.



Lambert Chu, P.Eng
DIRECTOR ENGINEERING

LSC/AAS/br

Attachment
Copied to: City Manager
Director Finance
Director Planning & Building

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Figure 1: Watershed Map

