

TO: CITY MANAGER 1996 JULY 30

FROM: CHIEF ENVIRONMENTAL HEALTH OFFICER

SUBJECT: EAGLE CREEK - LOWER REACHES,
SOUTH OF WINSTON STREET

PURPOSE: To inform Council on mitigation and restoration measures to be undertaken in the lower reaches of Eagle Creek

RECOMMENDATION:

1. **THAT** this report be received for information purposes.

REPORT

1.0 INTRODUCTION

At the regular Council Meeting held on 1996 February 19, Council adopted a motion directing staff to prepare a report on measures that could feasibly be undertaken for the restoration of Eagle Creek, particularly the lower reaches. After visits to the site and consultation with other agencies, issues of immediate concern were identified and measures are underway presently for restoration.

2.0 RESTORATION WORKS

During a site visit, three areas requiring restoration were identified, namely:

- a) Culvert upgrade at Piper Avenue to allow for fish passage at all flow levels.
- b) Removal of bank armouring and riparian revegetation at Warner Loat Park (see Attachment 1).
- c) Removal of bank armouring and riparian revegetation at 4990 Piper Avenue.

These same works have also been identified in a letter to Coast River Environmental Services from the Department of Fisheries and Oceans. The letter specifically mentions the following:

- a) The Piper Street culvert is being replaced and made more fish passable by the City of Burnaby this summer.
- b) This department would like to see the concrete/rock walls removed and replaced with natural banks.
- c) Planting riparian vegetation on residential properties would be a good project for a stream stewardship group.

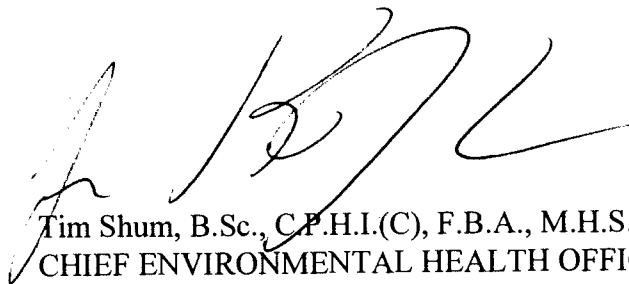
In conjunction with the Burnaby Engineering Department, the Greater Vancouver Regional District, the Department of Fisheries and Oceans, and the Sapperton Fish and Game Club, the following restoration measures were proposed:

- a) Provision of upstream fish passage at the Piper Culvert:
A new culvert, allowing the passage of fish upstream, has been designed for Piper Avenue. It is estimated that work on the new culvert will be completed before the end of 1996.
- b) Removal of bank armoring and riparian revegetation at Warner Loat Park:
As a temporary measure, the Burnaby Engineering Department will grout a large crack that has formed in the armour at this location. The G.V.R.D. is presently evaluating the project of bank armour removal and revegetation.
- c) Removal of bank armour and riparian revegetation at 4490 Piper Avenue:
The G.V.R.D. will be removing the majority of the existing armour bank along a fifty foot stretch on the west side of the creek downstream from the existing fish ladder. The bank will then be planted with riparian vegetation. This work commenced on 1996 July 15 and has been completed.

It is to be noted that works within a watercourse can only be conducted during the window period as allowed by the Department of Fisheries and Oceans. This window period extends from July 15 - September 15.

3. **CONCLUSION**

In response to Council's concerns regarding the lower reaches of Eagle Creek, staff identified three issues in particular that require addressing. Measures are currently underway to restore and enhance areas of Eagle Creek at the lower reaches.



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CHIEF ENVIRONMENTAL HEALTH OFFICER

TS/KS:ld
Attachment

cc: () Medical Health Officer
() Director Engineering



Bank Armouring at Warner Loat Park

Existing Piper Culvert

