



To: Public Works and Transportation Committee

Date: July 2, 2010

From: John Irving, P.Eng. MPA
Director, Engineering

File: 10-6000-01/2010-Vol
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Re: Metro Vancouver Gilbert Trunk Sewer

Staff Recommendation

That Richmond support the inclusion of the Gilbert Trunk Sewer replacement project in the Metro Vancouver 10 year capital maintenance program.

for
[Signature]
John Irving, P.Eng. MPA
Director, Engineering
(604-276-4140)

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ROUTED TO:		CONCURRENCE		CONCURRENCE OF GENERAL MANAGER	
Sewerage & Drainage		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		<i>[Signature]</i>	
REVIEWED BY TAG		YES	NO	REVIEWED BY CAO	
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Staff Report

Origin

The aging condition of the Gilbert Trunk Sewer has been a key concern for the last few years. The staff report titled "Inspection and Cleaning of the Metro Vancouver Gilbert Road Trunk Sewer" presented at the Sept. 24, 2007 Regular Council Meeting, detailed an accelerated plan including financial commitment by Richmond for inspecting and cleaning the Metro Vancouver Gilbert Trunk Sewer. This staff report provides an update on plans for the renewal of this critical piece of infrastructure.

Analysis

Metro Vancouver (MV) owns and operates the Gilbert Trunk Sewer (GTS) that runs from Garden City Road and Bridgeport Rd to River Road and then south down the length of Gilbert Rd to the Lulu Island Wastewater Treatment Plant (LIWWTP). The GTS conveys all sewage generated in western Richmond to LIWWTP.

Since 2007, MV has attempted inspection and cleaning of the GTS given that capacity concerns have become more frequent. The continuous high flows in the GTS require the installation of bypass systems to enable work in the main, and MV has found these cost to be prohibitive.

MV has been working on feasibility studies for the replacement and/or twinning of the GTS over the last year, and as a result of cleaning work being prohibitively costly MV has placed the twinning project in their 10-year Capital Maintenance Program. Detailed design is planned for completion in 2012 and construction is planned for several phases over 5 years from 2012 to 2016. The total cost for design and construction is currently estimated by MV to be \$62 Million. Richmond staff will facilitate this project through Pump Station and Sewer operation staff with existing resources.

As this GTS twinning is a capital maintenance project, it is anticipated that MV costs will be recovered through regional rates and would not be directly recovered through Richmond rates.

Staff have worked with MV to ensure City interests are addressed in the planning for this project and will remain highly engaged throughout the design and construction phases.

Financial Impact

None at this time.

Conclusion

MV has placed the Gilbert Trunk Sewer twinning project in their 10-year Capital Maintenance Program. Detailed design is planned for completion in 2012 and construction is planned for several phases over 5 years from 2012 to 2016. The total cost for design and construction is currently estimated by MV to be \$62 Million.

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