



KERR WOOD LEIDAL
consulting engineers

Section 12

Summary and Recommendations



12. Summary and Recommendations

12.1 Summary

This Sewer Master Plan provides a summary of the existing system and guidance for making decisions regarding the future system. As part of this project an InfoSewer sanitary sewer model has been supplied to the City. This model includes existing and future scenarios. The InfoSewer model has been calibrated and validated for both wastewater flows and I&I. I&I rates for the City's sewers are within reasonable limits for a sewer of its age, however the I&I rates for the DND properties appear very high.

The City appears poised for significant growth including major project sites at Royal Bay, Olympic View Golf Course, and Colwood Corners. Plans have been developed to service the entire City with a sanitary sewer system. These plans provide the guidance for future designs of the proposed sanitary sewer infrastructure.

The existing sanitary sewer system does not have any current capacity issues. Some of the existing sanitary sewers will not have adequate capacity for the future development scenario. The capacity deficiencies will likely not occur for many years in the future and there is no urgency at this time to undertake upgrades.

A CRD wastewater treatment plant in the Western Communities is likely to be developed within the next 20-years. If located at Colwood City Hall or in South Colwood, this WWTP could eliminate many of the identified upgrades.

A sewage heat recovery opportunity as part of the Colwood Corners redevelopment has the highest potential to move forward. Another promising opportunity is if a WWTP is located at Royal Bay, this would allow the Royal Bay development to access treated effluent as a heat source.

12.2 Recommendations

KWL recommends the following:

1. The City use this SMP as a guide for locating, sizing, and operating existing and future sewers.
2. The City update and maintain the infrastructure and population layers in the InfoSewer model. This will provide an indication of when components the City's sewer system are approaching capacity. The model results should be compared periodically with the CRD's measure flows as development proceeds.
3. The City should work with the DND and the CRD to develop a program to reduce I&I rates from the DND properties.
4. Prior to proceeding with sewer servicing of the northwest portion of the City, the City should work with the CRD to relocate the existing Meaford flow meter (Langford flow meter) and the details for connecting to the NWT near the Langford boundary.
5. Consider lowering the future gravity main on Dressler Road near Wishart Road so that this flow can be intercepted and diverted to a Royal Bay WWTP in the future. Consider increasing the size of the future gravity main on Painter Road to accept to divert flows to a Royal Bay WWTP from the Ocean Blvd Pump Station and potential pump station at Wishart and Metchosin Road.



6. The City should continue to discuss with the CRD regarding a WWTP within Colwood. The location of this plant could impact the requirements for upgrades. Discussions with property owners could follow.
7. The City engage with the CRD and the Capital City Centre developer to facilitate a heat recovery opportunity at Colwood Corners.

12.3 Report Submission

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Revision History

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