



Making a difference...together

**GANGES SEWER LOCAL SERVICE COMMISSION
ANNUAL REPORT ON OPERATIONS
29 OCTOBER 2010**

The following is provided for information to residents and users of the Ganges sewer local service.

GENERAL

The Village of Ganges continues to see the addition of new properties into the sewer area, adding to the loading of the wastewater plant. The creation of a draft development cost charge bylaw in 2010 will aid staff and the Ganges Sewer Local Service Committee (GSLSC) in the planning and funding of long-term upgrades of the service area infrastructure necessary for continued growth. 2010 upgrade works to the plant includes the replacement of aged underground air supply piping, Ultra Violet (UV) reactors and controls, Supervisory Control and Data Acquisition (SCADA) system and the installation of an electrical surge suppressor.

GANGES WASTEWATER TREATMENT PLANT OPERATIONS

Flows through the waste water treatment plant have remained relatively consistent over the years. 2009 flows totalling 172,200 m³ is approximately 2% less than 2008 however, 2010 flows to date appear to have rebounded to that of previous years.

2010 saw a marked increase of nitrogen and ammonia levels in the discharge at the Ganges plant due to leaking underground air pipes transporting air to the aeration tanks and membrane bio reactors. No daily flow exceeded the Ministry of Environment Waste Discharge permit requirements. UV system failures resulted in two effluent quality readings exceeding the permit requirements of 200 CFU/100mL. The air supply piping was replaced in August resulting in a compliant effluent discharge.

Solid material from the solids removal screen is washed and compacted to reduce the cost of disposal to Hartland land fill. The sludge or end waste solid product of the treatment process is trucked to the Burgoyne septage receiving facility for further treatment and disposal. The Ganges plant is still in need of further upgrades which will be planned over the next five years to include Zenon membrane cartridge replacement, reinforcement of the Roto-Screen head works and removal of the obsolete Rotating Biological Contactor (RBC).

2010 CAPITAL WORKS UPDATE

The 2010 capital plan, approved by the Ganges Sewer Local Service Commission (GSLSC) in November 2009, includes an asset condition evaluation, a development cost charge (DCC) study, replacement of underground air supply system piping, replacement of failed Ultra Violet system controls, upgrading of the Supervisory Control and Data Acquisition (SCADA) system and the supply and installation of a sludge thickener cover. The revised 2010 capital budget of \$228,000 is estimated to be sufficient to complete all identified works. The works are in varying stages of completion.

INFLOW AND INFILTRATION

Total flows to the plant continues to increase during rainfall events however the peak inflows seen to date this year were not as evident as experienced with the 2007-2008 early winter snow melt. It is agreed that Ganges Village needs a more comprehensive storm water management plan to address the inflow of superfluous storm water into the sewer system. Storm water conveyance is not within the jurisdiction of the CRD and lies with the Ministry of Transportation.

LOCAL SERVICE AREA GROWTH

The Commission continues to review options to better coordinate sewer servicing and land development both inside and outside of the sewer area boundary. In 2009, a sewer model was completed by Stantec Engineering which provides an evaluation of available sewer capacity within the system. The sewer model can be used as a valuable tool to determine whether additional lands taken into the area need to fund downstream upsizing works.

2010 applications for inclusion were considered for two properties, one on Rainbow Road and the other on Fulford-Ganges Road. Results from the sewer capacity study have provided staff and the committee a comfortable level of confidence in approving the two inclusion requests into the system.

REGIONAL SOURCE CONTROL PROGRAM

The Capital Regional District's (CRD) Regional Source Control Program regulates the quality of sewage entering the system through industry specific Codes of Practice. Particular to restaurants is the mandatory installation and maintenance of a grease trap, installed in each restaurant's internal sewer plumbing specifically to avoid private side plugging and operational problems with the sewer system. Source control staff carried out increased inspections in Ganges in 2010 to determine compliance levels regarding dental establishments, automotive businesses and restaurants. Ganges Village has an overall 94% compliancy rating for all sectors covered under the Codes of Practice.

FINANCIAL STATEMENT

At year-end 2009, the expenditures for the utility operations amounted to \$494,930, up approximately 5% over 2008. Total revenues were \$516,210, up approximately 3% over 2008 resulted in a surplus carry forward of \$21,280 which was transferred to the sewer capital fund. The Ganges sewer 2009 year-end Capital Reserve Fund was \$57,527.

A copy of the Statement of Financial Activities to 31 December 2009, as prepared by the CRD Finance and Corporate Services Department is attached for information (Attachment 1).



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GP:ls
Attachments: 1

CAPITAL REGIONAL DISTRICT

Sewer Revenue Fund Statement of Financial Activities (Unaudited) For the Year Ended December 31, 2009

		Ganges Sewerage System
Revenue		
Transfers from government	\$	42,505
Sale of services		468,160
Other revenue from own sources:		
Building permits		-
Interest earnings		139
Other revenue		5,240
Grants in lieu of taxes		166
		<hr/> 516,210
Expenditure		
General government services		22,270
Other		471,804
Salaries and wages		-
Other fiscal services		856
Recovery		-
		<hr/> 494,930
Net revenue (expenditure)		21,280
Transfers to own funds:		
Sewer Capital Fund		-
Reserve Funds		-
Equipment Replacement Fund		-
Transfers from own funds:		
Sewer Capital Fund		-
Reserve Funds		-
Change in fund balance		21,280
Opening balance		-
Closing balance	\$	<hr/> 21,280