

2009 Compliance Report for the Ridgetown Sewage Treatment Lagoons Public Utilities Commission for the Municipality of Chatham-Kent

The Ridgetown Sewage Treatment Lagoons provide treatment of wastewater for the former Town of Ridgetown. Wastewater is collected by a separate sanitary sewer system and conveyed by one raw pump station to the Sewage Treatment Lagoons. The treated wastewater is subsequently discharged to the Gawne Drain.

Ontario Water Resources Commission Approval for the Ridgetown Sewage Treatment Lagoons was given in 1972. The system was subsequently converted to the New Hamburg Process with the addition of an aeration cell and sand filters in 2002.

According to the Certificate of Approval, average daily flow of sewage into the treatment plant should not exceed 1,537m³/day and peak flow should not exceed 2,990m³/day.

The present treatment system consists of:

- One raw pumping station
- One aeration cell
- Chemical phosphorous removal
- Three waste stabilisation cells
- One filter effluent pump station
- Four effluent sand filters

The underdrain pipes discharge to the outlet channel, and to the Gawne Drain.

Non-compliance issues in 2009:

Exceedances of the peak flow rate into the sewage treatment system occurred during the months of February and March.

Exceedances of the effluent limits for the geometric mean density of E. Coli occurred during the months of September and November.

Replacement of the current facility is being undertaken, to accommodate adequate hydraulic storage and system capacity.

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Plant Rated Capacity (m3/day): 1,537

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	CBOD 5 mg/l	Total S.S. mg/l	Total Ammonia mg/l	Total P mg/l	pH	E.Coli /100ml CFU
Limits: Freezing						5.0			
Limits: Non Freezing		1,537		10	10	2.0	0.5	6.0 - 9.5	200
January	43,806	1,413	92						
February	49,614	1,772	115						
March	63,735	2,056	134	10	8	4.70	0.38	7.5	17
April	55,628	1,854	121	2	2	4.60	0.21	7.8	10
May	48,477	1,564	102	2	1	0.05	0.23	7.4	20
June	38,782	1,293	84	2	2	0.21	0.28	7.5	25
July	36,438	1,175	76						
August	35,049	1,131	74						
September	31,666	1,056	69	2	1	0.11	0.30	8.2	660
October	33,907	1,094	71						
November	31,520	1,051	68	2	1	0.12	0.36	8.2	341
December	33,603	1,084	71						
	Yearly Total Flow m3	Yearly Averages							
	502,225	1,379	90	3	3	1.63	0.29	7.8	52

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