

2008 Compliance Report for the Merlin Sewage Lagoons Public Utilities Commission for the Municipality of Chatham-Kent

The Merlin Sewage Lagoons provide treatment of wastewater for the former Police Village of Merlin. Wastewater is collected by a separate sanitary sewer system and conveyed by one raw pump station to the Sewage Lagoons. The treated wastewater is subsequently discharged to the Cameron Drain.

Approval was received from the Ministry of the Environment in 1975 for construction of sanitary sewers, a force main, a sewage pumping station, and two waste stabilisation ponds.

According to a capacity assessment prepared by R. V. Anderson Associates Limited for the Municipality of Chatham-Kent, average daily flow of sewage into the treatment plant should not exceed 464m³/day.

The present treatment system consists of:

- One raw pumping station
- Two waste stabilisation cells
- Two effluent chambers

The effluent chambers discharge to the Foxton Drain.

Non-compliance issues in 2008:

There were no non-compliance issues in 2008.

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Public Utilities Commission for the Municipality of Chatham-Kent**

The following Ministry Guidelines apply:

Guideline F-5-1: Minimum effluent limits BOD5, Susp Solids

Guideline F-8: Effluent limits Phosphorus

Guideline F-10-1: Minimum monitoring program

Table C-1: Monitoring, recording and reporting bypasses

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	BOD5 mg/l	Total S.S. mg/l	Total P mg/l
Limits: Freezing						
Limits: Non Freezing		464		30	40	1.0
January	8,590	277	60			
February	9,331	311	67			
March	10,197	329	71			
April	7,187	240	52	3	12	0.24
May	6,383	206	44			
June	6,383	213	46			
July	5,983	193	42			
August	5,291	171	37			
September	6,389	213	46			
October	6,016	194	42			
November	7,332	244	53			
December	9,990	322	69			
	Yearly Total Flow m3	Yearly Averages				
	89,072	243	52	3	12	0.24