

2009 Compliance Report for the Thamesville Water Pollution Control Plant Public Utilities Commission for the Municipality of Chatham-Kent

The Thamesville Water Pollution Control Plant provides treatment of wastewater for approximately 1,000 residents of Thamesville. Wastewater is collected and pumped to the plant by 2 sanitary pumps stations located in Thamesville.

The Thamesville Water Pollution Control Plant is an Extended Aeration Plant with chemical phosphorus removal and final effluent disinfection. The plant was built in 1979 with a maximum design flow of 818 m³/day. The plant discharges its final effluent to the Thames River.

The existing treatment system uses the following processes:

- Raw sewage pumping
- Screening collection and removal
- Aeration Tanks
- Chemical phosphorus removal
- Settling Clarifiers
- Chlorine disinfection of final effluent
- Sludge collection and pumpage
- Aerated sludge holding tank

Sludge from the holding tank is applied to agricultural land in the spring and fall each year.

Non-compliance issues for 2009:

There were no non compliance issues in 2009.

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

Plant Rated Capacity (m3/day): 818

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	BOD5 mg/l	Total S.S. mg/l	Unionized Ammonia mg/l	Total P mg/l	Total CL2 mg/l
Limits: Freezing				15	15	0.2	1.0	0.5
Limits: Non Freezing				15	15	0.2	1.0	0.5
January	11,480	371	45.4%	<2.0	10.5	0.031176	0.50	0.31
February	15,786	564	68.9%	<2.0	10.7	0.004400	0.55	0.30
March	13,730	443	54.2%	<2.0	13.1	0.010028	0.50	0.31
April	9,471	316	38.6%	<2.0	8.0	0.018368	0.36	0.36
May	8,469	273	33.4%	3.0	9.0	0.141660	0.37	0.33
June	7,446	248	30.3%	<2.0	4.0	0.040848	0.38	0.35
July	7,675	248	30.3%	<2.0	5.0	0.031790	0.43	0.38
August	7,537	243	29.7%	<2.0	7.5	0.032130	0.61	0.34
September	7,264	242	29.6%	<2.0	4.8	0.004508	0.8	0.30
October	7,163	231	28.2%	<2.0	4.2	0.002668	0.57	0.36
November	7,225	299	36.6%	<2.0	6.0	0.002948	0.57	0.43
December	9,158	295	36.1%	<2.0	7.3	0.010511	0.61	0.44
	Yearly Total Flow m3	Yearly Averages						
	112,406	310	37.9%	2.1	7.5	0.027586	0.52	0.35

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