

2015 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 816m³/day. The plant discharges final effluent to the Thames River.

The existing treatment system includes 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.

C of A 1-670-79-006, 1-677-80-006 & 3-1751-95-966

Non compliance issues during the reporting period:

There were no non compliance issues for the reporting period.

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

Plant Rated Capacity: 816m³/day

Total sewage flow to the works during a calendar year divided by the number of days during which sewage was flowing to the works that year

Month	Total Monthly Effluent Flow m ³	Avg Daily Effluent Flow /Month m ³ /day	Avg Daily Effluent Flow/Year m ³ /day	% of Plant Capacity	BOD5 mg/L	Total P mg/L	Total S.S. mg/L	Total Cl ₂ mg/L	Unionized Ammonia mg/L
Limits	none	none	816	100	15.0	1.0	15.0	0.5	0.2
Jan	4,896	158			2.0	0.26	3.0	0.24	0.001
Feb	5,310	190			2.0	0.34	2.0	0.28	0.001
Mar	5,931	191			2.0	0.49	1.0	0.36	0.001
Apr	5,113	170			2.0	0.31	2.0	0.27	0.001
May	5,192	167			2.0	0.14	3.0	0.39	0.002
Jun	5,500	183			2.0	0.10	3.0	0.27	0.006
Jul	5,336	172			2.0	0.16	2.0	0.36	0.001
Aug	5,005	161			2.0	0.30	4.0	0.31	0.001
Sep	5,162	172			2.0	0.23	4.0	0.33	0.002
Oct	5,710	184			2.0	0.26	5.0	0.37	0.001
Nov	4,801	160			2.0	0.23	3.0	0.25	0.004
Dec	5,131	166			2.0	0.29	5.0	0.30	0.001
	Yearly Total Flow m ³	YEARLY AVERAGE							
	63,086	Max 191	173	21%	2.0	0.3	3.1	0.3	0.0