

2017 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.

Treatment at this facility was discontinued on December 26, with flow directed by a new Sewage Pump Station via a new forcemain to Ridgetown WPCP for treatment.

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

Non-compliance issues in 2017:

There were no non-compliance issues.

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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	5,798	187			6.0	0.50	4.0	0.36	0.001
Feb	5,613	200			2.0	0.22	4.0	0.30	0.001
Mar	6,113	197			2.0	0.16	5.0	0.31	0.001
Apr	7,498	250			2.0	0.26	3.0	0.38	0.001
May	7,261	234			2.0	0.60	4.0	0.31	0.008
Jun	6,452	215			2.5	0.94	8.0	0.37	0.009
Jul	6,532	211			3.0	0.41	7.0	0.27	0.015
Aug	6,132	198			2.0	0.18	1.0	0.35	0.001
Sep	4,822	172			16.2	0.70	25.0	0.35	0.145
Oct	5,720	185			2.0	0.19	5.0	0.39	0.002
Nov	5,762	192			2.0	0.17	5.0	0.35	0.005
Dec	645	129			2.0	0.13	5.0	0.43	0.001
Year			203	25					
	Yearly Total Flow m³	Yearly Maximum			Yearly Average				
	68,348	250			3.6	0.37	6.3	0.35	0.016