

**MUNICIPALITY OF CHATHAM-KENT  
PUBLIC UTILITIES COMMISSION**

**Thamesville Water Pollution Control Plant**

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 m<sup>3</sup>/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.

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

**Thamesville Water Pollution Control Plant**

<b>Effluent Limits</b>	
<b>Effluent Parameter</b>	<b>Monthly Average Concentration in mg/L</b>
Total BOD5	15
Total Suspended Solids	15
Unionized Ammonia	0.2
Total Phosphorus	1.0
Total Cl2 Residual	0.5

**Thamesville Water Pollution Control Plant  
2006 Reporting Period**

**Plant Rated Capacity (m3/day): 818**

<b>Parameter</b>	<b>Average Daily Flow m3/day</b>	<b>% of Plant Capacity</b>	<b>BOD5 mg/L</b>	<b>Total S.S. mg/L</b>	<b>Unionized Ammonia mg/L</b>	<b>Total P mg/L</b>	<b>Total CL2 Residual mg/L</b>
JANUARY	236	28.9%	2.0	8.5	0.046500	0.37	0.41
FEBURARY	256	31.2%	2.0	3.3	0.011500	0.30	0.36
MARCH	285	34.8%	2.0	3.3	0.016686	0.29	0.39
APRIL	275	33.6%	9.0	4.3	0.005481	0.43	0.27
MAY	263	32.2%	3.0	3.5	0.005994	0.47	0.33
JUNE	249	30.4%	2.0	4.3	0.010400	0.34	0.39
JULY	243	29.7%	2.0	4.8	0.018600	0.33	0.37
AUGUST	235	28.7%	2.0	3.8	0.007700	0.66	0.32
SEPTEMBER	235	28.7%	<3.0	7.3	0.002775	0.70	0.31
OCTOBER	287	35.1%	<3.0	4.3	0.003627	0.53	0.37
NOVEMBER	301	37.2%	<2.0	5.5	0.035742	0.58	0.42
DECEMBER	291	35.6%	3.0	9.0	0.003658	0.55	0.43
<b>AVERAGE</b>	<b>263</b>	<b>32.2%</b>	<b>2.9</b>	<b>5.2</b>	<b>0.014055</b>	<b>0.46</b>	<b>0.36</b>