

## **2008 Compliance Report for the Wallaceburg Water Pollution Control Plant Public Utilities Commission for the Municipality of Chatham-Kent**

The Wallaceburg Water Pollution Control Plant provides treatment of wastewater for approximately 11,000 residents of the Town of Wallaceburg. Wastewater is collected and pumped to the plant by 10 sanitary pump stations located throughout the town.

The Wallaceburg Water Pollution Control Plant is a Conventional Activated Sludge Plant with the plant final effluent passing through an Ultra Violet Light Disinfection System. The processed final effluent is then discharged to the Sydenham River. The plant was first built in the late 1960's with a major expansion and upgrading of the facility in 1991.

The rated capacity of the plant for primary and secondary treatment is 16,200 m<sup>3</sup>/day.

Maximum hydraulic capacity for primary treatment and disinfection facilities is 35,000 m<sup>3</sup>/day.

The existing treatment system uses the following processes:

- Raw sewage pumping
- Screening collection and removal
- Aerated grit tank
- Primary treatment of raw sewage with sludge collection.
- Chemical phosphorus removal
- Biological treatment using Conventional Activated Sludge for secondary treatment.
- Final Settling
- Disinfection of final effluent using Ultra Violet Light
- Two-stage anaerobic digestion of sludge
- Sludge Dewatering

### **Non-compliance issues in 2008:**

There have been no issues for 2008 to date.

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**Plant Rated Capacity ( m3/day): 16,200**

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	BOD5 mg/l	Total S.S. mg/l	Total Ammonia mg/l	Total P mg/l	E.Coli /100ml CFU
Limits: Freezing				25	25	3.0	1.5	200
Limits: Non Freezing				25	25	1.5	1.5	200
<b>January</b>	206,630	6,665	41.1%	6.40	10.2	1.00	0.62	77.23
<b>February</b>	207,820	7,422	45.8%	4.25	9.8	0.51	0.58	49.49
<b>March</b>	235,430	7,595	46.9%	5.00	5.2	0.30	0.28	27.11
<b>April</b>	195,930	6,531	40.3%	3.50	4.5	0.25	0.27	48.60
<b>May</b>	175,440	5,659	34.9%	4.50	5.5	0.07	0.42	12.73
<b>June</b>	169,380	5,646	34.9%	5.00	5.8	0.09	0.52	9.59
<b>July</b>	174,390	5,625	34.3%	3.00	6.4	0.08	0.38	9.74
<b>August</b>	146,960	4,741	29.3%	3.25	3.25	0.07	0.56	9.24
<b>September</b>	157,660	5,255	32.4%	2.80	4.8	0.05	0.38	16.44
<b>October</b>	152,790	4,929	30.4%	3.50	3.5	0.49	0.18	47.91
<b>November</b>	174,570	5,819	35.9%	3.25	3.75	0.16	0.32	10.78
<b>December</b>	233,010	7,516	46.4%	3.75	6.75	0.06	0.39	15.82
	<b>Yearly Total Flow m3</b>	<b>Yearly Averages</b>						
	2,230,010	6,117	37.8%	4.02	5.80	0.26	0.41	27.89

**C of A #3-2435-89-918 & S-0207-30**