

2009 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 m³/day.

Maximum hydraulic capacity for primary treatment and disinfection facilities is 35,000 m³/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 for 2009:

There were no non compliance issues in 2009.

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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
January	175,340	5,656	34.9%	9.5	5.8	0.51	0.53	33.1
February	237,060	8,466	52.3%	4.3	7.3	1.55	0.47	33.4
March	250,210	8,071	49.8%	6.2	14.0	0.56	0.58	34.5
April	239,100	7,970	49.2%	3.8	5.0	0.23	0.55	13.8
May	194,320	6,268	38.7%	4.0	5.4	0.06	0.32	9.0
June	162,760	5,425	33.5%	3.5	5.0	0.06	0.39	9.0
July	156,000	5,042	31.1%	4.0	6.5	0.10	0.62	10.2
August	152,950	4,934	30.5%	3.8	5.8	0.10	0.59	12.4
September	138,760	4,625	28.5%	2.5	6.0	0.08	0.42	9.0
October	151,290	4,880	30.1%	2.8	3.5	0.26	0.31	9.5
November	137,730	4,749	29.3%	2.8	5.0	0.19	0.32	9.4
December	143,730	4,636	28.6%	2.3	4.3	0.12	0.30	13.4
	Yearly Total Flow m3	Yearly Averages						
	2,139,550	5,894	36.4%	4.0	6.1	0.32	0.44	16.4

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