

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

The Dresden Water Pollution Control Plant provides treatment of wastewater for approximately 2,500 residents of Dresden. Wastewater is collected and transported to the plant via sanitary sewer system by gravity. There are no sanitary pump stations located in Dresden.

The Dresden Water Pollution Control Plant is an Extended Aeration Plant with chemical phosphorus removal and final effluent disinfection. The plant was built in 1976 with a maximum design flow of 4,546 m³/day . The plant discharges its final effluent to the Sydenham River.

The existing treatment system uses the following processes:

- Raw sewage pumping
- Screening collection and removal
- Aerated Grit System
- Aeration Tanks
- Chemical phosphorus removal
- Settling Clarifiers
- Chlorine disinfection of final effluent
- Sludge collection and pumpage
- Sludge holding lagoons

Sludge from the holding lagoons is applied to agricultural land in the spring and fall each year.

Non-compliance issues for 2008:

Request an amendment to the Certificate of Approval to reflect that the filter press is no longer required.

This amendment has been requested.

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

Plant Rated Capacity (m3/day): 4,546

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	BOD5 mg/l	Total S.S. mg/l	Unionized Ammonia mg/l	Total P mg/l	Total CL2 mg/l
Limits: Freezing				25	25	0.2	1.0	0.5
Limits: Non Freezing				25	25	0.2	1.0	0.5
January	42,103	1,358	29.9%	<2.0	6.1	0.001599	0.66	0.36
February	44,045	1,519	33.4%	3.0	8.2	0.000640	0.53	0.30
March	49,215	1,588	34.9%	4.0	4.6	0.004050	0.48	0.31
April	45,844	1,528	33.6%	<2.0	5.9	0.000576	0.35	0.33
May	42,086	1,358	29.9%	3.0	5.2	0.001258	0.39	0.35
June	34,443	1,148	25.3%	2.0	3.4	0.002664	0.69	0.36
July	40,369	1,302	28.6%	<2.0	1.8	0.001765	0.59	0.34
August	34,783	1,122	24.7%	<2.0	1.0	0.001250	0.83	0.32
September	80,549	2,685	59.1%	2.0	3.4	0.001050	0.42	0.28
October	57,589	1,858	40.9%	<2.0	3.0	0.002110	0.38	0.29
November	49,251	1,642	36.1%	<2.0	3.9	0.000900	0.28	0.31
December	46,680	1,506	33.1%	<2.0	3.3	0.001070	0.51	0.32
	Yearly Total Flow m3	Yearly Averages						
	566,957	1,551	34.1%	2.3	4.3	0.001579	0.51	0.32

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