

## **2009 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 m<sup>3</sup>/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 2009:**

The Certificate of Approval was amended to reflect that the filter press is no longer required.

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**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	0.02	1.0	
Limits: Non Freezing				25	25	0.02	1.0	
<b>January</b>	39,005	1,258	27.7%	<2.0	2.3	0.000200	0.45	0.30
<b>February</b>	59,528	2,126	46.8%	<2.0	5.7	0.000264	0.40	0.30
<b>March</b>	54,606	1,761	38.7%	<2.0	4.8	0.001001	0.43	0.30
<b>April</b>	50,315	1,677	36.9%	<2.0	6.2	0.001200	0.39	0.30
<b>May</b>	44,475	1,435	31.6%	2.0	3.3	0.001365	0.37	0.30
<b>June</b>	35,843	1,195	26.4%	<2.0	3.8	0.002880	0.47	0.30
<b>July</b>	40,962	1,321	29.1%	<2.0	3.3	0.001680	0.64	0.30
<b>August</b>	47,071	1,518	33.4%	<2.0	3.4	0.003500	0.55	0.40
<b>September</b>	79,028	2,634	57.9%	<2.0	3.3	0.002420	0.46	0.30
<b>October</b>	81,624	2,633	57.9%	<2.0	3.1	0.001890	0.55	0.46
<b>November</b>	44,151	1,471	32.4%	<2.0	5.4	0.001440	0.52	0.57
<b>December</b>	44,229	1,426	31.4%	<2.0	7.6	0.000364	0.20	0.61
	<b>Yearly Total Flow m3</b>	<b>Yearly Averages</b>						
	620,837	1,705	37.5%	<2.0	4.4	0.00152	0.45	0.38

**C of A # 8101-7QHKYR & #A-021308**