

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

Dresden Water Pollution Control Plant

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.

**Municipality of Chatham-Kent
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Dresden Water Pollution Control Plant

Effluent Limits	
Effluent Parameter	Monthly Average Concentration in mg/L
Total BOD5	25
Total Suspended Solids	25
Unionized Ammonia	0.2
Total Phosphorus	1.0
Total Cl2 Residual	0.5

**Water Pollution Control Plant
2006 Reporting Period**

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

Parameter	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 Residual mg/L
JANUARY	1,490	32.7%	3.0	3.6	0.0006	0.10	0.26
FEBURARY	1,592	35.0%	2.0	2.0	0.0013	0.23	0.31
MARCH	1,499	32.9%	2.0	2.0	0.0010	0.06	0.30
APRIL	1,337	29.4%	3.0	7.7	0.0089	0.31	0.31
MAY	1,395	30.7%	2.0	7.2	0.0022	0.29	0.29
JUNE	1,743	38.3%	3.0	4.0	0.0063	0.30	0.30
JULY	1,405	30.9%	2.0	6.2	0.0022	0.33	0.26
AUGUST	1,622	35.7%	2.0	8.2	0.0066	0.73	0.33
SEPTEMBER	3,165	69.6%	7.0	6.1	0.00432	0.52	0.30
OCTOBER	2,747	60.4%	2.0	6.3	0.00378	0.52	0.31
NOVEMBER	1,658	36.5%	5.0	4.8	0.00968	0.36	0.33
DECEMBER	1,654	36.4%	2.0	5.3	0.00088	0.32	0.35
AVERAGE	1,780	39.2%	2.8	5.7	0.00399	0.34	0.30