

2016 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 by gravity through the sanitary sewer system. As such, 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 4,546m³/day. The plant discharges final effluent to the Sydenham River.

The existing treatment system includes 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.

C of A # 8101-7QHKYR

Non-compliance issues during 2016:

There were no non-compliance issues.

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Public Utilities Commission for the Municipality of Chatham-Kent
Plant Rated Capacity: 4,546 m³/day

Total sewage flow to the works during a calendar year divided by the number of days during which sewage was flowing to the works that year

Month	Total Monthly Influent Flow m ³	Avg Daily Influent Flow /Month m ³ /day	Avg Daily Influent Flow/Year m ³ /day	% of Plant Capacity	CBOD5 mg/L	pH	Total P mg/L	Total S.S. mg/L	Total Cl ₂ mg/L	E.Coli
Limits	none	none	4,546	100	25	6.0 - 9.5	1	25		200
Jan	36,121	1,165			2.0	7.30	0.07	1.3	0.59	10.00
Feb	38,003	1,310			2.0	7.37	0.13	2.0	0.57	10.00
Mar	48,683	1,570			2.3	7.35	0.33	3.5	0.61	11.07
Apr	44,406	1,480			2.0	7.46	0.26	2.5	0.58	17.56
May	34,951	1,127			2.2	7.47	0.20	2.0	0.56	10.00
Jun	34,248	1,142			2.0	7.74	0.17	1.8	0.55	10.00
Jul	40,191	1,296			2.0	7.71	0.08	2.0	0.58	10.00
Aug	40,624	1,310			2.2	7.37	0.17	2.6	0.59	10.00
Sep	101,955	3,399			2.0	8.03	0.39	2.0	0.54	20.00
Oct	81,833	2,640			2.0	7.87	0.23	5.0	0.57	10.00
Nov	39,565	1,319			2.0	7.21	0.09	2.5	0.70	25.12
Dec	37,217	1,201			2.0	7.35	0.08	4.3	0.62	10.00
Year			1,580	35%						
	Yearly Total Flow m ³	Yearly Maximums								
	577,797	3,399			2.3	8.03	0.39	5.0	0.70	25.12