

2015 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 the reporting period:

There were no non-compliance issues.

**2015 Compliance Report for the Dresden Water Pollution Control Plant
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 Inf. 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	Unionized Ammonia mg/L
Limits	none	none	4,546	100	25	6.0 - 9.5	1	25		200	0.02
Jan	39,555	1,276			2.0	7.70	0.12	1.5	0.61	10.00	0.001
Feb	34,910	1,247			2.0	7.81	0.07	1.5	0.60	10.00	0.001
Mar	42,982	1,387			2.0	7.79	0.06	1.6	0.58	10.00	0.002
Apr	40,926	1,364			2.0	7.54	0.14	2.3	0.57	10.00	0.001
May	39,507	1,274			2.0	7.71	0.17	3.0	0.64	10.00	0.011
Jun	43,173	1,439			2.2	7.48	0.25	2.4	0.58	10.00	0.003
Jul	39,247	1,266			2.0	7.28	0.28	2.3	0.63	10.00	0.006
Aug	44,151	1,424			2.0	7.23	0.14	2.2	0.65	10.00	0.008
Sep	84,188	2,806			2.0	7.52	0.38	3.6	0.58	16.55	0.001
Oct	67,071	2,164			2.0	7.44	0.36	2.5	0.67	10.00	0.002
Nov	37,809	1,260			2.0	7.14	0.07	1.8	0.61	10.00	0.001
Dec	35,693	1,151			2.0	7.07	0.04	1.5	0.58	14.95	0.001
Year			1,505	33%							
	Yearly Total Flow m ³	Yearly Maximums									
	549,212	2,806			2.2	7.81	0.38	3.6	0.67	16.55	0.011