

**2015 Compliance Report for the Tilbury Water Pollution Control Plant
Public Utilities Commission for the Municipality of Chatham-Kent**

The Tilbury Wastewater Treatment Plant is located north of Highway 401 in the Town of Lakeshore and treats domestic and industrial wastewater generated by the Town of Tilbury. Wastewater is collected by 8 sanitary pump stations with the Lyon Street Pump Station supplying the facility. This mechanical treatment plant replaced the existing lagoon system. The final effluent is discharged into Tremblay Creek.

The Tilbury Wastewater Treatment Plant upgrade was completed in late December of 2004. The design capacity of the plant is 5,434m³/day with a Peak Flow Rate of 13,700m³/day.

A portion of the lagoon system was turned into a wildlife wetland.

The treatment system includes the following processes:

- Headworks building
- Orbal oxidation ditch
- Two secondary clarifiers
- Tertiary Treatment building
- Ultra Violet Light Disinfection

C of A # 6980-6B LJ9R

Non-compliance issues for 2015:

February: Total Phosphorus exceedance. Limit is 0.5mg/L as a monthly average: February average was 0.67mg/L.

May: Total Phosphorus exceedance. Limit is 0.5mg/L as a monthly average: May average was 1.88mg/L.

May: Total Ammonia exceedance. Limit is 2.0mg/L as a monthly average: May average was 2.02mg/L.

May: Total Phosphorus Average Waste Loading exceedance. Limit is 2.7.kg/d as a monthly average: May average was 4.75kg/d.

August: Total Phosphorus exceedance. Limit is 0.5mg/L as a monthly average: August average was 0.59mg/L.

September: Total Phosphorus exceedance. Limit is 0.5mg/L as a monthly average: September average was 0.72mg/L.

October: Total Phosphorus exceedance. Limit is 0.5mg/L as a monthly average: October average was 0.99mg/L.

November: Total Phosphorus exceedance. Limit is 0.5mg/L as a monthly average: November average was 1.23mg/L.

November: Total Phosphorus Average Waste Loading exceedance. Limit is 2.7.kg/d as a monthly average: November average was 3.20kg/d.

December: Total Phosphorus exceedance. Limit is 0.5mg/L as a monthly average: December average was 0.58mg/L.

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Plant rated capacity of 5,434m³/day
The 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 Flow 1000 m ³	Avg Daily Flow /Month 1000 m ³ /day	Avg Daily Flow/Year 1000m ³ / day	% of Plant Capacity	CBOD5 mg/L	Total S.S. mg/L	Total Ammonia mg/L	Total P mg/L	pH	E.Coli/100 mL CFU GeoMean
Limits: Freezing	None	None	5.434	100	10	10	2	0.5	6.0-9.5	150
Jan	56.51	1.82			2.3	2.0	0.45	0.38	7.4	13
Feb	43.63	1.56			2.8	4.0	0.16	0.67	7.6	15
Mar	80.27	2.59			2.4	3.0	0.09	0.45	7.7	21
Apr	66.12	2.20			2.0	3.0	0.49	0.39	7.6	10
May	77.96	2.51			2.0	1.0	2.02	1.88	7.1	48
Jun	104.38	3.48			2.0	1.0	0.11	0.18	6.9	10
Jul	78.22	2.52			2.0	1.0	0.06	0.26	6.8	10
Aug	78.56	2.53			2.0	1.0	0.06	0.59	6.7	10
Sept	78.22	2.61			3.8	2.0	0.61	0.72	6.6	31
Oct	70.81	2.28			2.0	1.0	0.21	0.99	6.8	10
Nov	77.97	2.60			2.0	6.0	0.10	1.23	6.9	10
Dec	66.87	2.16			2.0	2.0	0.15	0.58	6.9	21
AVG	73.29		2.41	44.3	2.3	2.3	0.38	0.69	7.1	17
Yearly Total Flow 1000m³	Yearly Maximums									
	879.52	3.48			3.8	6.0	2.02	1.88	7.7	48