

**2016 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 5,434m<sup>3</sup>/day with a Peak Flow Rate of 13,700m<sup>3</sup>/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 2016:**

An exceedance of the average monthly concentration effluent limit for Total Phosphorus occurred for the months of January, February, July, August and September.



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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 m3	Avg Daily Flow /Month 1000 m3/day	Avg Daily Flow/Year 1000m3/ 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
									Min	Max	
<b>Limits: Nov 1 - Apr 30</b>	None	None	5.434	100	10	10	4	0.5	6.0-9.5		150
<b>Limits: May 1 - Oct 31</b>	None	None	5.434	100	10	10	2	0.5	6.0-9.5		150
Jan	67.05	2.16			2.0	3.0	0.09	0.78	7.1	7.5	28
Feb	69.64	2.40			2.2	3.0	0.78	0.63	6.9	7.5	15
Mar	91.27	2.94			2.0	3.0	0.86	0.35	6.8	7.4	32
Apr	76.86	2.56			2.0	3.0	0.18	0.37	6.6	7.3	72
May	76.83	2.48			2.0	2.0	0.06	0.32	6.3	7.1	10
Jun	74.58	2.49			2.0	2.0	0.07	0.43	6.2	6.6	10
Jul	61.22	1.97			2.0	2.0	0.07	0.69	6.2	6.9	10
Aug	69.98	2.26			2.0	2.0	0.26	0.56	6.1	7.0	10
Sept	68.30	2.28			2.0	2.0	0.07	0.52	6.4	7.6	11
Oct	64.28	2.07			2.0	2.0	0.05	0.36	6.8	7.4	27
Nov	58.29	1.94			2.0	3.0	0.19	0.29	6.9	7.3	10
Dec	58.77	1.90			2.0	3.0	0.05	0.25	7.0	7.9	10
YEAR			2.29	42							
	<b>Yearly Total Flow 1000m3</b>	<b>Yearly Maximums</b>									
	837.07	2.94			2.2	3.0	0.86	0.78	6.1	7.9	72