

2016 Compliance Report for the Mitchell's Bay Sewage Lagoon System Public Utilities Commission for the Municipality of Chatham-Kent

The Mitchell's Bay Sewage Lagoon System provides treatment of wastewater for approximately 500 residents of the Mitchell's Bay community. Wastewater is collected and pumped to the sewage lagoon system from one sanitary pump station.

The Mitchell's Bay Sewage Lagoon System was built in 1977 with a maximum design flow of 509 m³/day. This sewage treatment facility consists of 3 treatment cells each 5 acres in size.

Final effluent is discharged to Rankin Creek in the spring and fall if required.

C of A #1-502-77-006

The following Ministry Procedures / Guidelines apply:

Procedure F-5-1: Minimum effluent limits BOD₅, Suspended Solids

Guideline F-8: Effluent limits Phosphorus

Procedure F-10-1: Minimum monitoring program

Table C-1: Monitoring, recording and reporting bypasses

Non-compliance issues for 2016:

There were no non-compliance issues.

**2016 Compliance Report for the Mitchell's Bay Sewage Lagoon System
Public Utilities Commission for the Municipality of Chatham-Kent**

Plant Rated Capacity: 509m³/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 m³	Avg Daily Influent Flow /Month m³/day	Avg Daily Influent Flow/Year m³/day	% of Rated Capacity	BOD5 mg/L	Total S.S mg/L	Total P mg/L
Limits	None	None	509	100	25	25	1.0
January	3,613	117			NA	NA	NA
February	3,820	141			NA	NA	NA
March	3,531	114			NA	NA	NA
April	1,962	65			NA	NA	NA
May	1,887	61			2.67	10.67	0.62
June	1,634	54			NA	NA	NA
July	3,939	127			NA	NA	NA
August	4,060	131			NA	NA	NA
September	3,117	104			NA	NA	NA
October	3,088	100			NA	NA	NA
November	2,378	79			NA	NA	NA
December	2,790	90			NA	NA	NA
Year			99	19%			
	Yearly Total Flow m³	Yearly Maximums					
	35,819	141			2.67	10.67	0.62