

**MUNICIPALITY OF CHATHAM-KENT
PUBLIC UTILITIES COMMISSION**

Mitchell's Bay Sewage Lagoon System

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 5 acres in size each.

Seasonal discharges of final effluent are to Rankin Creek if required in the spring and fall.

2007 Reporting Period

Lagoon System Rated Capacity (m³/day): 509

Average Daily Flow (m³/day): 136

% of System Capacity: 26.7%

Effluent Limits	
Effluent Parameter	Monthly Average Concentration in mg/L
Total BOD5	25
Total Suspended Solids	25
Total Phosphorus	1.0

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Parameter	Total Monthly Flow m3	Average Daily Flow m3/day	% of Rated Capacity	BOD5 mg/L	Total S.S. mg/L	Total P mg/L
JANUARY	4,946	160	31.4%	N/A	N/A	N/A
FEBURARY	3,154	113	22.2%	N/A	N/A	N/A
MARCH	5,786	187	36.7%	N/A	N/A	N/A
APRIL	4,054	131	25.7%	3.25	4.25	0.39
MAY	5,130	165	32.4%	N/A	N/A	N/A
JUNE	4,051	135	26.5%	N/A	N/A	N/A
JULY	4,091	132	25.9%	N/A	N/A	N/A
AUGUST	4,625	154	30.3%	N/A	N/A	N/A
SEPTEMBER	3,884	129	25.3%	N/A	N/A	N/A
OCTOBER	3,494	113	22.2%	N/A	N/A	N/A
NOVEMBER	2,722	91	17.9%	N/A	N/A	N/A
DECEMBER	3,712	120	23.6%	N/A	N/A	N/A
YEARLY TOTAL FLOW m3	49,649	YEARLY AVERAGES				
		136	26.7%	3.25	4.25	0.39