



2015 Annual Report – Waste Water

2015 ANNUAL REPORT

MORRISBURG WASTE WATER TREATMENT PLANT

Reporting period - JAN 1st - DEC 31st 2015

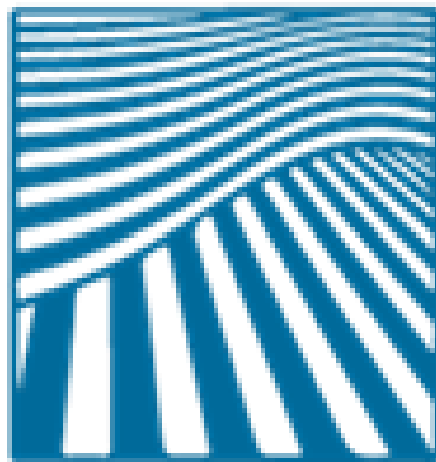
MORRISBURG WASTE WATER TREATMENT PLANT

5 ALLISON STREET - MORRISBURG

Waste Water Treatment System Number: 2147-734L2K

Waste Water Treatment System Owner : Municipality of South Dundas

Waste Water Treatment System Category : Large Municipal Residential





South Dundas Waste Water Treatment Plant
5 Allison Street, Morrisburg

Supervisor of Water & Wastewater
Ian Kemp

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Availability

Public Access via the web <http://www.southdundas.com>
Public Access via Public Request Municipal Offices, 34 Ottawa Street,
Morrisburg
Public Notice via Local Newspaper

Free copies of this report and the Summary report prepared as per requirements as per C of A number 2147-734L2K have been listed below. As per Condition 10, ss 6 of the C of A, a performance report shall be prepared and submitted 90 days following the end of the period being reported upon. The following is a list of the information to be included in this annual report as per C of A number 2147-734L2K



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1. Summary and comments outlining the monitoring data and effluent limits' (Condition 7 of C of A # 2147-734L2K), including an overview of the success and adequacy of the Works

MORRISBURG	Total m ³	Average Daily m ³	Maximum Daily m ³
Jan	44,094.00	1,422.39	2,236.00
Feb	23,542.00	840.79	1,043.00
March	55,135.00	1,788.55	3,376.00
April	107,860.00	3,595.33	7,073.00
May	55,665.00	1,795.65	2,161.00
June	78,268.00	2,608.93	4,560.00
July	44,094.00	1,422.39	2,236.00
August	82,478.00	2,660.58	6,377.00
September	66,240.00	2,208.00	7,889.00
October	55,313.00	1,784.29	3,250.00
November	65,222.00	2,174.07	3,390.00
December	71,419.00	2,303.84	4,391.00
Total Flow	749,330.00		
Ave Daily Flow		2,049.566	
Max Day			7,889.00



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Raw Influent

Final Effluent

MORRISBURG	Raw Influent					Final Effluent						
	Suspended Solids mg/L	TKN mg/l	Total Phosphorus mg/L	Nitrite (NO ₂) g/L	Nitrate (NO ₃) mg/L	CBOD ₅ mg/L	Suspended Solids mg/L	Ammonia + Ammonium	TKN mg/l	Total Phosphorus mg/L	Nitrite (NO ₂) mg/L	Nitrate (NO ₃)mg/L
Jan	76	13.9	1.69			3	5.75	0.0325		0.405	0.1	4.4
Feb	120	18.1	1.76	0.9	0.3	3	3	0.05		0.195	0.1	4
March	33	24.7	3			4	4.5	0.06		0.1675	0.1	4.6
April	20	20.2	2.35			3	5.2	0.044		0.23	0.1	4.6
May	160	15.5	2.58			3	3.2	0.036		0.172	0.1	3.9
June	148	13.5	3.08			3	3	0.015		0.1675	0.1	3.7
July	40	12.9	1.63			3	3.6	0.028		0.334	0.1	3.5
August	61.5	2.6	0.705			3	4.5	0.0675		0.3	0.1	4.3
September	160	29.9	3.96			3	3.25	0.045		0.3575	0.1	5.6
October	212	24.7	2.96			3	5	0.02		0.375	0.1	0.01
November	64	21.4	2.56			3	3.5	0.01		0.23	0.01	4.5
December	164	15.9	2.83			3	5.2	0.016		0.208	0.1	49
Average	104.7	17.3	2.43			3.08	4.14	0.035		0.261792	0.09	7.67
Limits						25	25			1		
Objective						15	15	5/7⁽ⁱ⁾		0.5		

(i) 5 mg/L June 1 to September 30 / 7 mg/L October 1 to May 31



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2. Description of any operating problems/corrective actions taken

None to report during this period.

3. Summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works

All maintenance work throughout this reporting period has been completed to the Manufacturer's specifications, as detailed in the maintenance manuals.

4. Summary of any effluent quality assurance or control measures undertaken in the reporting period

The Table on page 5 'Effluent Quality' demonstrates that all analytical samples taken have proven to be within acceptable limits. No other control measure were required to be undertaken within the annual reporting period covered by this report.

5. Summary of the calibration and maintenance carried out on all effluent monitoring equipment

Calibration of all monitoring equipment was successfully carried out by Capital Controls during July of 2015.

6. Description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6 of C of A number 62-A-864/3-0958-76-006/ 3-0128-76-006

As can be seen in the chart on page 5 all effluent objectives in condition 6 of the certificate of approval were met during this reporting period.



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7. Tabulation of the quantity of septage added to the works for co-treatment during the reporting period

No septage was received during this reporting period.

8. Tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of sludge disposal locations

During the period August 27th and September 3rd 2015 Third High Farms removed a total of 1,238 cubic meters of sludge from the Morrisburg Plant and was spread at licenced fields of Keyes Farms.

9. Summary of any complaints received during the reporting period and any steps taken to address the complaints

There were no complaints received relating to this plant, during this reporting period.

10. Summary of all By-pass, spill or abnormal discharge events

There were no events during this reporting period.