

South Dundas Waste Water Treatment Plant
Golf Club Road, Iroquois



Supervisor of Water & Wastewater
Ian Kemp

2015 Annual Report – Waste Water

2015 ANNUAL REPORT

IROQUOIS WASTE WATER TREATMENT PLANT

Reporting period - JAN 1st - DEC 31st 2015

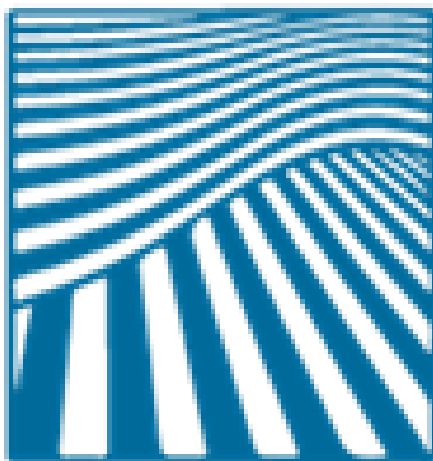
IROQUOIS WASTE WATER TREATMENT PLANT

GOLF CLUB ROAD - IROQUOIS

Waste Water Treatment System Number: 9689-8MQHMK

Waste Water Treatment System Owner: Municipality of South Dundas

Waste Water Treatment System Category : Large Municipal Residential





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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 9689-8MQHMK 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 9689-8MQHMK



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1. Summary and comments outlining the monitoring data and effluent limits' (Condition 7 of C of A # 9689-8MQHMK), including an overview of the success and adequacy of the Works

IROQUOIS	Total m ³	Average Daily m ³	Maximum Daily m ³
Jan	56,000.00	1,806.45	2,536.00
Feb	36,202.00	1,167.80	1,401.00
March	55,584.00	1,793.03	2,536.00
April	119,486.00	3,854.39	7,527.00
May	50,229.00	1,622.55	2,045.00
June	66,429.00	2,214.3	3,627.00
July	54,544.00	1,759.48	2,802.00
August	56,877.00	1,834.74	5,023.00
September	59,438.00	1,917.36	8,151.00
October	52,273.00	1,686.23	3,076.00
November	58,324.00	1,944.13	2,545.00
December	65,298.00	2,106.39	3,431.00
Total Flow	730,754.00		
Ave Daily Flow		1,975.57	
Max Day			8,151.00



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Final Effluent

IROQUOIS	BOD ₅ mg/L	TSS mg/L	TKN mg/l	T. Phos mg/L	BOD ₅ mg/L	TSS mg/L	Ammonia + Ammonium	TKN mg/l	TP mg/L
Jan	53.00	40.00	16.00	1.47	3.00	3.00	0.01		0.21
Feb	40.00	44.00	14.30	1.59	3.25	3.00	0.01		0.32
March	129.00	108.00	28.00	2.46	3.00	7.25	0.013		0.313
April	22.00	33.00	10.60	1.10	3.00	4.40	0.03	0.85	0.1008
May	20.00	32.00	10.10	1.05	3.25	3.50	0.04	0.68	0.213
June	23.00	64.00	13.80	1.48	3.00	3.25	0.292		0.29
July	5.00	24.00	13.30	1.35	3.20	3.00	0.014		0.186
August	6.00	21.00	3.80	0.50	3.50	3.25	0.015		0.237
September	8.00	11.00	5.82	0.69	3.00	3.00	0.01		0.235
October	24.00	26.00	8.88	0.89	3.00	3.00	0.028		0.268
November	36.00	48.00	20.40	2.031	3.00	3.00	0.01		0.2175
December	38.00	52.00	14.70	1.74	3.00	5.20	0.01		0.238
Average Limits	33.67	41.92	13.31	1.36	3.1	3.74	0.0402	0.765	0.236
Objectives					25.0	25.0	10.0/15.0 ⁱⁱ		1.0
					15.0	15.0	5.0/7.0 ⁱ		0.6

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

(ii) 10 mg/L June 1 to September 30 / 15 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 Manufacturers' 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 9689-8MQHNK

After extensive modernisation at the Iroquois Wastewater Treatment Plant, it can be seen from the table on page 5 all effluent objectives were met and exceeded.



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

There is no septage receiving station at this facility.

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 the locations to where the sludge was disposed

2015 reporting period – a total of 525m³ of treated sludge was removed and disposed of at a licenced disposal site by Third High farms

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

None to report during this period.

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

None to report during this period.