



2013 Annual Report – Waste Water

2013 ANNUAL REPORT
IROQUOIS WASTE WATER TREATMENT PLANT

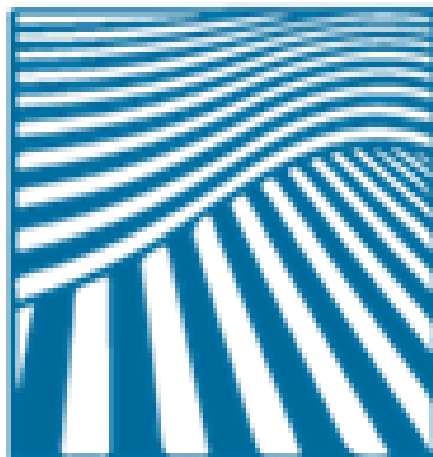
Reporting period - JAN 1st - DEC 31st 2013

IROQUOIS WASTE WATER TREATMENT PLANT
GOLF CLUB ROAD - IROQUOIS

Waste Water Treatment System Number : 62-A-864/ 3-0958-76-006 / 3-0128-76-006

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 62-A-864/ 3-0958-76-006 / 3-0128-76-006 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 62-A-864/ 3-0958-76-006 / 3-0128-76-006



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1. Summary and comments outlining the monitoring data and effluent limits' (Condition 7 of C of A # 62-A-864/ 3-0958-76-006 / 3-0128-76-006), including an overview of the success and adequacy of the Works

IROQUOIS	Total m³	Average Daily m³	Maximum Daily m³
Jan	94,137.00	3,036.00	8,504.00
Feb	85,426.00	3,051.00	5,968.00
March	131,694.00	4,248.00	8,699.00
April	125,568.00	4,186.00	6,528.00
May	77,900.00	2,513.00	3,707.00
June	116,681.00	3,889.00	8,250.00
July	72,180.00	2,328.00	3,981.00
August	56,488.00	1,822.00	2,719.00
September	70,002.00	2,333.00	4,598.00
October	60,271.00	1,944.00	2,314.00
November	68,027.00	2,225.00	2,813.00
December	66,123.00	2,133.00	3,276.00
Total Flow	1,024,497.00		
Ave Daily Flow		2,809.00	
Max Day			8,699.00



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IROQUOIS	Raw Influent						Final Effluent						
	BOD ₅ mg/L	TSS mg/L	TKN mg/l	TP mg/L	Nitrite (NO ₂) mg/L	Nitrate (NO ₃)mg/L	BOD ₅ mg/L	TSS mg/L	Ammonia + Ammonium	TKN mg/l	TP mg/L	Nitrite (NO ₂) mg/L	Nitrate (NO ₃)mg/L
Jan	12.00	24.00	2.43	0.30	0.05	2.30	8.00	40.00	1.58	3.20	0.47	0.20	2.30
Feb	72.00	64.00	19.80	2.20	0.30	0.60	13.00	16.00	3.41	5.07	0.55	0.05	0.80
March	24.00	32.00	7.53	0.80	0.40	1.60	9.00	7.00	3.18	4.87	0.51	0.20	1.60
April	22.00	176.00	8.13	0.90	0.10	1.60	6.00	14.00	3.33	5.15	0.53	0.10	1.50
May	110.00	264.00	7.33	1.20	0.10	0.60	13.00	12.00	4.19	7.16	0.84	0.10	1.00
June	27.00	29.00	7.73	0.90	0.30	1.30	8.00	8.00	3.98	5.40	0.52	0.30	1.60
July	78.00	84.00	18.30	2.10	0.10	0.20	11.00	11.00	4.98	6.62	0.72	0.30	0.20
August	69.00	68.00	23.80	2.60	0.10	0.10	26.00	20.00	6.47	9.14	0.96	0.30	0.20
September	13.00	9.00	9.18	0.90	0.60	0.20	14.00	14.00	6.18	7.88	0.83	0.30	0.60
October	33.00	40.00	22.40	2.30	0.20	0.30	13.00	15.00	6.32	7.99	0.88		
November	42.00	40.00	12.40	1.40	0.10	0.10	13.00	16.00	6.71	8.51	0.94	0.30	1.20
December	27.00	36.00	6.20	0.80	0.10	0.70	21.00	12.00	2.01	3.89	0.37	0.10	1.00
Average	44.08	72.17	12.10	1.37	0.20	0.80	12.92	15.42	4.36	6.24	0.68	0.20	1.09
Limits							25.0	25.0	10.0/15.0 ⁱⁱ		1.0		
Objectives							15.0	15.0	5.0/7.0 ⁱ				

- (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

The Iroquois plant is currently undergoing a major infrastructure upgrade. Alterations to the effluent outflow have been performed, and additional effluent monitoring was carried out during this period under the direction of the ministry of the environment inspectors.

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 Iroquois plant is currently undergoing a major infrastructure upgrade. Alterations to the effluent outflow have been performed, and additional effluent monitoring was carried out during this period under the direction of the ministry of the environment inspectors.

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

Calibration of all monitoring equipment was successfully carried out by V.Nowik Instrumentation and Control on June 25th 2013.

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

All effluent objectives were met, as can be seen from the table on page 5



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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 the locations to where the sludge was disposed

2013 reporting period –

Date	Total M ³	Final disposal site	Comments
10/29/13	200	Matilda Landfill Siebert Rd Iroquois	Taken From Clarifier
10/30/13	308	Matilda Landfill Siebert Rd Iroquois	Taken From Clarifier
10/31/13	115	Matilda Landfill Siebert Rd Iroquois	Taken From Digester
11/01/13	80	Matilda Landfill Siebert Rd Iroquois	Taken From Digester
11/02/13	28	Matilda Landfill Siebert Rd Iroquois	Taken From Digester
Total	731		

2014 reporting period - The Iroquois plant is currently undergoing a major infrastructure upgrade. Alterations to the effluent outflow have been performed, and effluent generation for the next reporting period is currently under review pending completion of commissioning; a full outline will be included in the summary of operational parameters for inclusion on the 2014 report.



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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