



Annual Summary Report

March 10, 2011

Lou Zarlenga
Manager of Public Services
Corporation of the Town of Amherstburg
P.O. Box 159
271 Sandwich St. S,
Amherstburg, Ontario
Canada N9V 2Z3

Dear Mr. Zarlenga:

Re: Safe Drinking Water Act, O. Reg. 170/03 Schedule 22 Summary Report

Attached is the 2010 Summary Report for the Amherstburg Water Treatment Plant. This report has been completed based on the information obtained from the water treatment plant records and in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act, which requires a Summary Report to be prepared not later than March 31st of each year for the preceding calendar year. This report covers the period of January 1, 2010 to December 31, 2010.

Please remember that any Orders that you have received directly from the MOE should be reviewed. Where non-compliance with the Order is evident and it is not included in the attached 2010 Summary Report, then we recommend that this information be added to the Summary Report. Note: Schedule 22-2 (a) specifies that the summary report is given to, in the case of a drinking water system owned by a municipality, the members of the municipal council for the Town of Amherstburg, and is not intended for distribution to the Ministry of the Environment.

After your review and inclusion of any additional information, these Summary Reports are to be provided to the members of the municipal council. Please ensure this distribution.

Section 12 of O. Reg. 170/03, requires the Summary Reports be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the municipality, or at a location that is reasonably convenient to the users of the water system.

Please find enclosed reports. If you have any questions, please feel free to contact Acting Operations Manager, Brian Labute, at (519) 736-5447.

Sincerely,

Dan Mitchell

Dan Mitchell
Process & Compliance Technician
Ontario Clean Water Agency

SUMMARY REPORTS FOR MUNICIPALITIES

Report

This report is a summary of water quality information for the Amherstburg WTP, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1, 2010 to December 31, 2010. The Amherstburg WTP is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by The Ontario Clean Water Agency on behalf of The Corporation of the Town of Amherstburg.

Who gets a copy of the Summary Report?

- in the case of a drinking-water system owned by a municipality, the members of the municipal council;
- in the case of a drinking-water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- in the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

What must the Summary Report contain?

The report must,

- (a) list the requirements of the Act, the regulations, the system's approval and any order that the system **failed to meet** at any time during the period covered by the report and specify the duration of the failure; and
- (b) for each failure referred to in clause (a), describe the measures that were taken to correct the failure.

The following table 1 lists the requirements that the system failed to meet and the measures taken to correct the failure:

Drinking Water Legislation	List the requirement(s) the system failed to meet	Specify the duration of the failure (i.e. date(s))	Describe the measures taken to correct the failure	Status (complete or outstanding)
Safe Drinking Water Act	None to report	-----	-----	-----
Ontario Regulations (e.g. O.Reg 170/03, O.Reg 435/93, O.Reg 903)	95% Turbidity Rule	01/2010 - 08/ 2010	Created a monthly form to review and sign off on the sampling schedule.	Complete
	72 hour filter turbidity review	09/08/ 2010	Staff meeting addressing non-compliance, staff to follow SOP OCWA-C6-09.	Complete
System Certificate of Approval #0896-7JHHW8 System Certificate of Approval #1001-7ZDRCJ System Municipal Drinking Water License #026-101 System Drinking Water Works Permit #026-201	Monthly Composite Backwash & Free Chlorine Residual Missed	10/2010	Staff meeting addressing non-compliance, staff to follow sampling schedule.	Complete
	Free Chlorine Residual Missed	01/2010 03/2010 04/2010 07/2010	Adjusted sampling schedule to reflect sampling requirements since previous sampling schedule did not.	Complete
Provincial Officer's Order	None to report	-----	-----	-----

Table 1

What else must the Summary Report contain?

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows and daily instantaneous peak flow rates.

Attached please find a copy of the quantities and flow rates report of the water supplied for Amherstburg WTP during 2010.

2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system’s approval.

By comparison, the rated capacity and flow rates for raw flow and treated water did not exceed the legislative requirement. No max day treated flows exceeded 80% of the rated treated capacity for the reporting period.

Flow	Requirement	Maximum Daily Flow	Requirement	Maximum Flow Rate
2010	Maximum Allowable (per day)	Maximum Achieved (per day)	Maximum Allowable (per minute)	Maximum Achieved (per minute)
Raw Flow	22,900,000 L/d Permit to Take Water (#3750-7FAHRN)	15,816,000 L/d	15,903 L/min Permit to Take Water (#3750-7FAHRN)	15,571 L/min
Treated Flow	18,184 m ³ /d C of A (#0896-7JHHW8) (#1001-7ZDRCJ) Municipal Drinking Water License #026-101 System Drinking Water Works Permit #026-201	14,084 m ³ /d	_____	_____

Table 2

When Does the Summary Report Get Submitted?

If a report is prepared for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

End



Ontario Clean Water Agency
Monthly Process Data Report

Municipality: Town of Amherstburg formerly (Town of Malden, Town of Anderton, Town of Amherstburg)
Facility: [5819] - Amherstburg Water Treatment Plant & Distribution System
Works: [210000149] - Amherstburg Water Treatment Plant & Distribution System
Classification: Class 2 Water Distribution, Class 3 Water Treatment
Water Source: Detroit River

Period: 01/01/2010 to 12/31/2010
Served Population: 20,599
Total Design Capacity(m3/day): 18,184.0

	Jan/2010	Feb/2010	Mar/2010	Apr/2010	May/2010	Jun/2010	Jul/2010	Aug/2010	Sep/2010	Oct/2010	Nov/2010	Dec/2010	← Summary →
Raw Water/Flows - Raw Water													
Raw Flow: Sum (m3/d)													
Avg	8,575.387	8,845.071	8,528.418	8,990.687	10,117.097	10,948.457	12,384.418	11,887.228	9,982.5	10,918.871	8,482.087	7,483.845	9,718.798
Max	9,880.0	9,370.0	9,518.0	10,148.0	14,450.0	12,385.0	15,818.0	13,804.0	11,735.0	12,425.0	12,858.0	8,024.0	15,818.0
Min	7,520.0	8,011.0	7,731.0	8,350.0	7,876.0	7,880.0	9,056.0	9,056.0	8,573.0	8,190.0	8,348.0	8,856.0	8,190.0
Sum	265,837.0	242,080.0	264,381.0	289,720.0	313,630.0	318,454.0	383,297.0	368,504.0	298,875.0	338,423.0	254,762.0	231,373.0	3,547,346.0
Raw Flow: Peak (L/min)													
Avg	6,235.548	6,184.538	6,248.742	6,541.533	7,778.28	8,080.9	9,482.848	9,217.129	7,486.833	8,380.581	6,340.7	6,455.835	7,294.838
Max	7,341.0	6,867.0	7,292.0	7,502.0	12,111.0	13,856.0	11,906.0	15,571.0	9,505.0	11,343.0	8,785.0	7,586.0	15,571.0
Min	5,541.0	6,382.0	6,865.0	6,987.0	5,802.0	7,127.0	8,983.0	7,171.0	6,254.0	6,282.0	6,073.0	4,895.0	4,895.0
Sum	193,302.0	173,447.0	193,742.0	196,246.0	241,127.0	241,827.0	294,269.0	265,731.0	223,889.0	259,798.0	190,221.0	189,134.0	2,682,543.0
Treated Water/Flows - Treated Water													
Treated Flow (m3/d)													
Avg	7,083.387	7,241.429	7,217.28	7,745.8	8,978.28	9,818.4	11,118.339	10,793.839	8,881.8	7,405.484	6,894.8	7,050.845	8,381.888
Max	7,884.0	7,880.0	7,702.0	8,582.0	12,500.0	11,307.0	14,084.0	12,129.0	11,530.0	8,383.0	7,842.0	7,735.0	14,084.0
Min	6,744.0	6,780.0	6,864.0	7,126.0	7,378.0	8,194.0	9,150.0	9,337.0	7,238.0	6,704.0	6,477.0	6,478.0	6,477.0
Sum	218,565.0	202,780.0	223,738.0	232,374.0	278,285.0	288,882.0	344,884.0	334,809.0	285,887.0	229,870.0	209,847.0	218,870.0	3,048,438.0



**Ontario Clean Water Agency
Performance Assessment Report - Ground Water/Surface Water Supply**

Printed on: 3/7/2011

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Municipality: Town of Amherstburg formerly (Twp of Malden, Twp of Anderdon, Town of Amherstburg)
 Facility: [5519] - Amherstburg Water Treatment Plant & Distribution System
 Works: [210000149] - Amherstburg Water Treatment Plant & Distribution System
 Classification: Class 2 Water Distribution, Class 3 Water Treatment
 Water Source: Detroit River

Period: 01/01/2010 to 12/31/2010
 Serviced Population: 20,599
 Total Design Capacity(m3/day): 18,184.0

TagGrpTag	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Min -->	Criteria-->
Raw: Flows																	
RW Raw: Total Flow (m3/mth)	265,837.0	242,090.0	264,381.0	269,720.0	313,630.0	316,454.0	363,297.0	368,504.0	298,875.0	336,423.0	254,762.0	231,373.0	3,547,346.0				
RW Raw: Avg Day Flow(m3/day)	8,575.39	8,646.07	8,528.42	8,990.67	10,117.1	10,548.47	12,364.42	11,887.23	9,962.5	10,916.87	8,492.07	7,463.65		9,718.76			
RW Raw: Max Day Flow(m3/day)	9,860.0	9,370.0	9,516.0	10,146.0	14,450.0	12,395.0	15,816.0	13,804.0	11,735.0	12,425.0	12,808.0	8,024.0		15,816.0			22,900.0
Treated: Flows																	
TW Treated: Total Flow (m3/mth)	219,585.0	202,760.0	223,736.0	232,374.0	278,265.0	288,582.0	344,684.0	334,609.0	265,887.0	229,570.0	209,847.0	218,570.0	3,048,439.0				
TW Treated: Avg Day Flows (m3/day)	7,083.39	7,241.43	7,217.29	7,745.8	8,976.29	9,619.4	11,118.84	10,793.84	8,861.9	7,405.48	6,994.9	7,050.65		8,351.89			
TW Treated: Max. Day Flow (m3/day)	7,684.0	7,690.0	7,702.0	8,562.0	12,500.0	11,307.0	14,084.0	12,129.0	11,530.0	8,363.0	7,642.0	7,735.0		14,084.0			16,184.0
Turbidity																	
RW Raw: Max. Turbidity (NTU)	99.0	59.9	80.9	90.0	88.3	151.0	79.9	49.7	44.3	96.0	96.0	106.0			151.0		
TW Treated: Min. Turbidity (NTU)	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02					0.02
TW Treated: Max. Turbidity (NTU)	0.04	0.05	0.06	0.06	0.07	0.07	0.03	0.08	0.04	0.22	0.13	0.08			0.22		
Filter Eff.: Min Turbidity (NTU)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03					0.02
FT1 Filter Eff.: Min Turbidity (NTU)	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03					0.02
FT2 Filter Eff.: Min Turbidity (NTU)	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03					0.02
FT3 Filter Eff.: Min Turbidity (NTU)	0.02	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03					0.02
FT4 Filter Eff.: Min Turbidity (NTU)	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03					0.02
Filter Eff.: Max Turbidity (NTU)	0.07	0.2	0.22	0.11	0.12	0.24	0.07	0.19	0.34	0.46	0.72	0.19			0.72		1.0
FT1 Filter Eff.: Max Turbidity (NTU)	0.07	0.2	0.09	0.09	0.08	0.08	0.04	0.19	0.05	0.2	0.72	0.08			0.72		1.0
FT2 Filter Eff.: Max Turbidity (NTU)	0.07	0.07	0.1	0.1	0.08	0.12	0.07	0.13	0.09	0.21	0.29	0.19			0.29		1.0
FT3 Filter Eff.: Max Turbidity (NTU)	0.06	0.06	0.18	0.11	0.12	0.24	0.06	0.08	0.05	0.41	0.58	0.11			0.58		1.0
FT4 Filter Eff.: Max Turbidity (NTU)	0.05	0.06	0.22	0.08	0.06	0.07	0.05	0.05	0.04	0.31	0.12	0.08			0.31		1.0
Chemical Parameters																	
TW Treated: Max Nitrite (ug/L)	0.01			0.01			0.37		0.01	0.01					0.37		1.0
TW Treated: Max Nitrate (ug/L)	0.43			0.94			0.01		0.29	0.24					0.94		10.0
DW Dist.: Max Lead (ug/L)							2.06								2.06		10.0
DW Dist.: Max THM (ug/L)	9.8			23.0			30.0		29.0	48.0	37.0				48.0		100.0
Chlorine Residuals																	
RV Treated: Min Free Cl2 Resid. (mg/L)	1.0	0.94	0.91	0.96	0.98	0.99	0.93	0.98	0.98	0.93	0.93	0.99			0.91		0.8
TW Treated: Min Free Cl2 Resid. (mg/L)	0.98	0.93	0.91	0.94	0.98	0.9	0.59	0.94	0.97	0.79	0.93	0.98			0.59		0.8
RV Treated: Max Free Cl2 Resid. (mg/L)	1.26	1.26	1.26	1.25	1.24	1.26	1.31	1.2	1.21	3.38	4.01	1.29			4.01		4.0
TW Treated: Max Free Cl2 Resid. (mg/L)	1.25	1.26	1.25	1.22	1.23	1.24	1.28	1.2	1.18	3.99	1.73	1.43			3.99		4.0
DW Dist.: Min Free Cl2 Resid. (mg/L)	0.59	0.6	0.58	0.59	0.64	0.65	0.56	0.53	0.68	0.78	0.58	0.5			0.5		0.05
DW Dist.: Max Free Cl2 Resid. (mg/L)	1.19	1.2	1.1	1.14	1.18	1.02	0.96	1.02	0.97	1.6	1.2	1.21			1.6		4.0
Bacti Samples Collected:																	
Raw Bacti (# samples)	4.0	4.0	5.0	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	4.0	52.0				
Treated Bacti (# samples)	4.0	4.0	5.0	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	4.0	52.0				
Distribution Bacti (# samples)	32.0	32.0	40.0	32.0	32.0	40.0	32.0	40.0	32.0	32.0	40.0	32.0	416.0				
Distribution HPC (# samples)	16.0	16.0	20.0	16.0	16.0	20.0	16.0	20.0	16.0	16.0	20.0	16.0	208.0				
Treated Adverse (# samples)	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution Adverse (# samples)	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution Max. HPC	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0			10.0		

Report Submitted By: Brian Labute,
Acting Operations Manager,
Essex West Hub,
Ontario Clean Water Agency

Signature _____ **Date** _____

Received By: _____

Signature _____ **Date** _____

Confirmed By Resolution of Council:

Signature _____ **Date** _____