



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Annual Summary Report**

**March 13, 2007**

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 2006 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 31<sup>st</sup> of each year for the preceding calendar year. This report covers the period of January 1, 2006 to December 31, 2006.

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 2006 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.

Sincerely,  
Hui Zhao

Hui Zhao  
Process & Compliance Technician  
Ontario Clean Water Agency

cc Harvey Stright, Operations Manager, OCWA

## SUMMARY REPORTS FOR MUNICIPALITIES

### Report

This report is a summary of water quality information for the Amherstburg WTF, published in accordance with Schedule 22 of Ontario’s Drinking-Water Systems Regulation for the reporting period of January 1, 2006 to December 31, 2006. The Amherstburg WTF 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 (eg. O.Reg 170/03, O.Reg 435/93, O.Reg 903	<u>O.Reg.170/03</u> Schedule 7-2(3): <i>“...a distribution sample is taken at least once every day and is tested immediately for free chlorine residual...”</i>	4 days: January 21, 22, 28, 29. Two weekends did not have samples taken.	(i) A recorder has been installed at the water tower for daily distribution free chlorine monitoring and recording. (ii) A schedule for downloading recorder data and data review has been implemented.	Completed February 6, 2006
System Certificate of Approval #8120-53VMF5	None to report	_____	_____	_____
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 WTF during 2006.

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 requirement.

Flow	Requirement	Maximum Daily Flow	Requirement	Maximum Flow Rate
2006	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 (#02-P-1254)	18,057,000 L/d	15,903 L/min Permit to Take Water (#02-P-1254)	14,526 L/min
Treated Flow	18,184 m <sup>3</sup> /d Cof A (#8120-53VMF5)	15,958 m <sup>3</sup> /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

Printed on: 3/13/2007  
d\_monthlyprocessrep

Municipality: Town of Amherstburg formerly ( Twp of Malden, Twp of Anderdon, 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: 01/01/2006 to 12/31/2006  
 Serviced Population: 20,599  
 Total Design Capacity(m<sup>3</sup>/day): 18,184.0

	Jan/2006	Feb/2006	Mar/2006	Apr/2006	May/2006	Jun/2006	Jul/2006	Aug/2006	Sep/2006	Oct/2006	Nov/2006	Dec/2006	<-- Summary -->
Raw WaterFlows - Raw Water													
Raw Flow: Sum (m3/d)													
Avg	9,571.161	9,612.429	11,097.903	9,511.033	11,197.129	13,082.933	13,545.548	13,400.161	10,813.3	10,240.194	10,108.2	9,858.097	11,015.967
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	365.0
Max	10,144.0	11,230.0	13,393.0	15,643.0	15,723.0	18,057.0	16,317.0	16,504.0	13,170.0	10,915.0	10,676.0	10,816.0	18,057.0
Raw Flow: Peak (L/min)													
Avg	6,989.742	6,919.643	8,188.161	7,334.267	8,221.323	10,048.133	10,714.871	10,293.935	8,463.633	7,532.419	7,273.967	7,219.29	8,277.54
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	365.0
Max	8,252.0	8,020.0	10,732.0	10,921.0	11,041.0	14,526.0	13,988.0	11,989.0	13,612.0	11,641.0	7,591.0	8,197.0	14,526.0
Treated WaterFlows - Treated Water													
Treated Flow (m3/d)													
Avg	8,157.323	8,403.75	9,665.387	8,474.7	10,075.677	12,031.867	12,430.677	12,203.323	9,834.567	9,139.839	8,725.533	8,578.581	9,822.137
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	365.0
Max	9,091.0	10,161.0	10,460.0	9,542.0	14,482.0	15,958.0	14,719.0	15,136.0	12,004.0	9,761.0	9,142.0	9,330.0	15,958.0

Note: ? Calculation not verifiable. At least one result reported as < and at least one result reported >.  
 -1 Analysis result less than detectable limit



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

Printed on: 3/13/2007  
d\_par\_swt

Municipality: Town of Amherstburg formerly ( Twp of Malden, Twp of Anderdon, 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: 01/01/2006 to 12/31/2006  
 Serviced Population: 20,599  
 Total Design Capacity(m<sup>3</sup>/day): 18,184.0  
 Raw Group Selected: RW  
 Effluent Group Selected: TW

	Jan/2006	Feb/2006	Mar/2006	Apr/2006	May/2006	Jun/2006	Jul/2006	Aug/2006	Sep/2006	Oct/2006	Nov/2006	Dec/2006	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->	
<b>Flow</b>																	
Raw: Total Flow(m3/mth)	296,706.0	269,148.0	344,035.0	285,331.0	347,111.0	392,488.0	419,912.0	415,405.0	324,399.0	317,446.0	303,246.0	305,601.0	4,020,828.0				
Raw: Avg. Day Flow(m3/day)	9,571.2	9,612.4	11,097.9	9,511.0	11,197.1	13,082.9	13,545.5	13,400.2	10,813.3	10,240.2	10,108.2	9,858.1		11,016.0			
Raw: Max. Day Flow(m3/day)	10,144.0	11,230.0	13,393.0	15,643.0	15,723.0	18,057.0	16,317.0	16,504.0	13,170.0	10,915.0	10,676.0	10,816.0			18,057.0		
Treat: Total Flow(m3/mth)	252,877.0	235,305.0	299,627.0	254,241.0	312,346.0	360,956.0	385,351.0	378,303.0	295,037.0	283,335.0	261,766.0	265,936.0	3,585,080.0			18,184.0	
Treat: Avg. Day Flow(m3/day)	8,157.3	8,403.8	9,665.4	8,474.7	10,075.7	12,031.9	12,430.7	12,203.3	9,834.6	9,139.8	8,725.5	8,578.6		9,822.1			
Treat: Max. Day Flow(m3/day)	9,091.0	10,161.0	10,460.0	9,542.0	14,482.0	15,958.0	14,719.0	15,136.0	12,004.0	9,761.0	9,142.0	9,330.0			15,958.0		
<b>Physical/Chemical Parameters</b>																	
Treat: Min. Turbidity(NTU)	0.03	0.04	0.03	0.04	0.03	0.02	0.03	0.02	0.03	0.03	0.03	0.03		0.05		0	
Treat: Max. Turbidity(NTU)	0.1	0.1	0.13	0.14	0.09	0.14	0.04	0.07	0.09	0.08	0.27	0.11		0.05	0.27	1.0	
Treat: Min. Filter Turb.(NTU) [ ]	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03		0.03		0	
Treat: Max. Filter Turb (NTU) [ ]	0.28	0.34	0.17	1.03	0.25	0.07	0.11	0.29	0.4	0.27	0.44	0.75		0.09	1.03	1.0	
Treat: Max. Nitrite(mg/L)	<	0.01		<	0.01		<	0.01		<	0.01			<	0.01	0.01	1.0
Treat: Max. Nitrate(mg/L)	1.37			0.83			0.33			0.25				0.7	1.37	10.0	
Dist.: Max. Lead(ug/L)							0.46							0.46	0.46	10.0	
Dist.: Avg. THM(ug/L)	24.0			16.0			28.0			23.0				22.8		100.0	
<b>Disinfection</b>																	
Treat: Min. Free CL2 Resid.(mg/L)	0.69	0.69	0.68	0.94	0.95	0.97	0.89	0.95	0.88	0.77	0.94	0.91		1.1		0.6	
Treat: Max. Free CL2 Resid.(mg/L)	1.71	2.0	1.59	1.77	1.61	1.49	1.33	1.48	1.47	1.69	1.6	1.51		1.29	2.0	4.0	
Dist.: Min. Free CL2 Resid.(mg/L)	0.64	0.47	0.57	0.4	0.6	0.79	0.63	0.65	0.65	0.55	0.18	0.94		0.97		0.05	
Dist.: Max. Free CL2 Resid.(mg/L)	1.27	1.37	1.22	1.27	1.28	1.12	1.14	1.08	1.11	1.24	1.3	1.2		1.1	1.37	4.0	
<b>No. Of Bacti Sample Collected</b>																	
Raw	5.0	4.0	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	52.0	1.0	5.0		
Treated	5.0	4.0	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	52.0	1.0	5.0		
Treat: Adverse													0	0	0	0	
Dist.: Adverse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Legend:  
 Raw Group Selected: RW - Raw Water  
 Effluent Group Selected: TW - Treated Water  
 Filter Group Selected: -

Note: ? Calculation not verifiable. At least one result reported as < and at least one result reported >.  
 -1 Analysis result less than detectable limit

**Report Submitted By:** Harvey Stright,  
Operations Manager,  
Essex West Hub, Ontario Clean Water Agency

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

**Received By:** \_\_\_\_\_

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

**Confirmed By Resolution of Council:**

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_