



CARLETON PLACE WATER TREATMENT PLANT

2010 SUMMARY REPORT FOR MUNICIPALITIES
Schedule 22 of O. Reg. 170/03
&
Section 11 of O. Reg. 170/03
&
Annual Record of Water Taking of O. Reg. 387/04

Prepared by
Deborah Turner, Process & Compliance Technician
Ottawa Valley Hub



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Foreword

This document contains three different annual reports required for the Carleton Place Drinking Water System:

These reports are the:

- Section 11 Annual Report as per section 11 of Ontario Regulation 170/03
- Summary Report as per Schedule 22 of the Ontario Regulation 170/03
- Summary of the raw water taking that were submitted to the Ministry of the Environment under the Ontario Regulation 387/04 (Water Taking and Transfer)

Section 12 of O. Reg. 170/03 requires both the Summary Report and the Annual Report be made available for inspection by any member of the public during normal business hours, without charge. These reports are to be made available for inspection at the office of the municipality.

Section 11 Report

As per

O. Reg. 170/03

Drinking-Water Systems Regulation O. Reg. 170/03 Section 11 Annual Report

System Information

Drinking-Water System Name:	Carleton Place Drinking Water System
Drinking-Water System Number:	210000372
Drinking-Water System Owner:	Town of Carleton Place
Operating Authority:	Ontario Clean Water Agency
Drinking-Water System Category:	Large, municipal, residential
Period being reported:	January 01 – December 31, 2010

Summary Report (170/03 Schedule 22) will be available for inspection at:

**Town of Carleton Place
Town Hall
175 Bridge Street
Carleton Place, Ontario**

List all Drinking Water Systems which receive all of their drinking water from your system:

Name	Drinking Water System Number
No other system receives water from the Carleton Place Drinking Water System.	

Provide a brief description of the system:

The Carleton Place DWS water treatment consists of a surface water treatment plant utilizing an Actiflo[®] (coagulation /flocculation/sedimentation) treatment process. Filtration is provided by dual (sand/anthracite) media filters. Disinfection is accomplished through the use of chlorine gas. Fluoride is added to the treated water.

Does your Drinking-Water System serve more than 10,000 people?

YES NO

If yes, is your annual report available to the public at no charge on a web site on the internet?

YES NO

Indicate how you notified system users that your annual report is available, and is free of charge?

Public access/notice via the web

Public access/notice via Government Office

Public access/notice via a newspaper

Public access/notice via Public Request

Public access/notice via a Public Library

Public access/notice via other method: _____

Water Treatment Chemicals were used during the reporting year:

Chemical Name	Use	Supplier
Chlorine gas	Disinfection	Brenntag
PAS 8	Primary Coagulation	Kemira
Fluoride: Hydrofluosilicic Acid	Fluoridation helps to prevent tooth decay	Min-Chem
Polymer: LT27A	Coagulant aid.	Ciba

Summary of any reports made to the Ministry under subsection 18 (1) of the Act or section 16-4 of Schedule 16 and reported to Spills Action Centre:

Date 2010	AWQI #	Parameter	Results	Units of Measure	Corrective Action (CA)	Date of CA
Apr 07	94217	Loss of process chemical	N/A	N/A	Process restored	Apr 07

Regulatory Sample Results Summary

Microbiological Testing (170/03, Sch.10, Sch.11 or Sch.12):

	# of E-coli Samples Taken	E-Coli Results (min-max)	# of Total Coliform Samples Taken	Total Coliform Results (min-max)
Raw	52	0 - 11	52	0 - 212
Treated	58	0 - 0	58	0 - 0
Distribution	382	0 - 0	382	0 - 0

Microbiological Testing (170/03, Sch.10, Sch.11 or Sch.12) continued:

	# of HPC Samples Taken	HPC Results (min-max)
Treated	58	0 - 500
Distribution	121	0 - 75

E-Coli & Total Coliform results are reported in cfu/100 mL

HPC (Heterotrophic Plate Count) results are reported in cfu/1 mL

cfu = colony forming unit

Operational Testing (170/03, Sch.7, Sch.8 or Sch.9):

Parameter	Number of Grab Samples	Range of Results (min #)-(max #)	Average
Turbidity: Filter 1 (Jan – Jun)	8760	0.04 – 0.77 NTU	0.093 NTU
Turbidity: Filter 2 (Jan – Jun)	8760	0.04 – 2.0 NTU	0.103 NTU
Turbidity: Filter 3 (Jan – Jun)	8760	0.05 – 1.99 NTU	0.10 NTU
Turbidity: Filter 1A (Jun – Dec)	8760	0.06 – 0.29 NTU	0.129 NTU
Turbidity: Filter 1B (Jun – Dec)	8760	0.05 – 0.27 NTU	0.112 NTU
Turbidity: Filter 2A (Jun – Dec)	8760	0.05 – 0.29 NTU	0.115 NTU
Turbidity: Filter 2B (Jun – Dec)	8760	0.05 – 0.3 NTU	0.117 NTU
Turbidity: Filter 3A (Jun – Dec)	8760	0.04 – 0.29 NTU	0.126 NTU
Turbidity: Filter 3B (Jun – Dec)	8760	0.04 – 0.36 NTU	0.126 NTU
Chlorine: Treated Water (free chlorine residual)	8760	0.85 – 3.37 mg/L	1.76 mg/L
Chlorine: Distribution (free chlorine residual)	8760	0.33 – 2.13 mg/L	1.10 mg/L
	379 grab samples	0.58 – 2.04 mg/L	1.16 mg/L

In June 2010, upgrades to the drinking water system allowed each individual filter to be monitored.

8760 denotes results from continuous monitors

NTU: Nephelometric Turbidity Units

Parameter	Month	Month Average	Unit of Measure	Annual Average
Fluoride As monitored by continuous on-line analyzer	January	0.58	mg/L	0.55 mg/L
	February	0.54	mg/L	
	March	0.63	mg/L	
	April	0.54	mg/L	
	May	0.56	mg/L	
	June	0.56	mg/L	
	July	0.48	mg/L	
	August	0.44	mg/L	
	September	0.55	mg/L	
	October	0.62	mg/L	
	November	0.63	mg/L	
	December	0.45	mg/L	

Summary of Inorganic parameters sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Exceedance	Exceedance of ½ MAC
Antimony: Sb (ug/L)	12 Jan 2010	< 0.10	No	No
Arsenic: As (ug/L)	12 Jan 2010	< 1.00	No	No
Barium: Ba (ug/L)	12 Jan 2010	40.00	No	No
Boron: B (ug/L)	12 Jan 2010	< 10.00	No	No
Cadmium: Cd (ug/L)	12 Jan 2010	< 0.10	No	No
Chromium: Cr (ug/L)	12 Jan 2010	1.00	No	No
Mercury: Hg (ug/L)	12 Jan 2010	< 0.10	No	No
Selenium: Se (ug/L)	12 Jan 2010	< 1.00	No	No
Uranium: U (ug/L)	12 Jan 2010	1.00	No	No
*Sodium: Na (mg/L)	02 Feb 2010	6.0	No	No
Nitrite (mg/L)	12 Jan 2010	< 0.10	No	Not applicable
Nitrite (mg/L)	13 Apr 2010	< 0.10	No	Not applicable
Nitrite (mg/L)	13 Jul 2010	< 0.10	No	Not applicable
Nitrite (mg/L)	12 Oct 2010	< 0.10	No	Not applicable
Nitrate (mg/L)	12 Jan 2010	< 0.10	No	Not applicable
Nitrate (mg/L)	13 Apr 2010	< 0.10	No	Not applicable
Nitrate (mg/L)	13 Jul 2010	< 0.10	No	Not applicable
Nitrate (mg/L)	12 Oct 2010	< 0.10	No	Not applicable

* Sampling required every 60 months

Summary of Organic parameters sampled during this reporting period:

Parameter	Sample Date	Result Value	Exceedance	Exceedance of ½ MAC
Alachlor (ug/L)	12 Jan 2010	< 0.50	No	No
Aldicarb (ug/L)	12 Jan 2010	< 5.00	No	No
Aldrin + Dieldrin (ug/L)	12 Jan 2010	< 0.010	No	No
Atrazine + N-dealkylated metabolites (ug/L)	12 Jan 2010	< 0.20	No	No
Azinphos-methyl (ug/L)	12 Jan 2010	< 2.00	No	No
Bendiocarb (ug/L)	12 Jan 2010	< 2.00	No	No
Benzene (ug/L)	12 Jan 2010	< 0.50	No	No
Benzo(a)pyrene (ug/L)	12 Jan 2010	< 0.010	No	No
Bromoxynil (ug/L)	12 Jan 2010	< 0.50	No	No
Carbaryl (ug/L)	12 Jan 2010	< 5.00	No	No
Carbofuran (ug/L)	12 Jan 2010	< 5.00	No	No
Carbon Tetrachloride (ug/L)	12 Jan 2010	< 0.50	No	No
Chlordane: Total (ug/L)	12 Jan 2010	< 0.020	No	No
Chlorpyrifos (ug/L)	12 Jan 2010	< 1.00	No	No
Cyanazine (ug/L)	12 Jan 2010	< 1.00	No	No
Diazinon (ug/L)	12 Jan 2010	< 1.00	No	No
Dicamba (ug/L)	12 Jan 2010	< 1.00	No	No
1,2-Dichlorobenzene (ug/L)	12 Jan 2010	< 0.40	No	No
1,4-Dichlorobenzene (ug/L)	12 Jan 2010	< 0.40	No	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L)	12 Jan 2010	< 0.020	No	No
1,2-Dichloroethane (ug/L)	12 Jan 2010	< 0.50	No	No
1,1-Dichloroethylene (ug/L)	12 Jan 2010	< 0.50	No	No
Dichloromethane (ug/L)	12 Jan 2010	< 4.00	No	No
2,4-Dichlorophenol (ug/L)	12 Jan 2010	< 0.50	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)	12 Jan 2010	< 1.00	No	No
Diclofop-methyl (ug/L)	12 Jan 2010	< 0.90	No	No
Dimethoate (ug/L)	12 Jan 2010	< 2.50	No	No
Dinoseb (ug/L)	12 Jan 2010	< 1.00	No	No
Diquat (ug/L)	12 Jan 2010	< 7.00	No	No
Diuron (ug/L)	12 Jan 2010	< 10.00	No	No
Glyphosate (ug/L)	12 Jan 2010	< 10.00	No	No
Heptachlor+Hepachlor Epoxide (ug/L)	12 Jan 2010	< 0.010	No	No
Lindane: (ug/L)	12 Jan 2010	< 0.010	No	No
Malathion (ug/L)	12 Jan 2010	< 5.00	No	No
Methoxychlor (ug/L)	12 Jan 2010	< 0.020	No	No
Metolachlor (ug/L)	12 Jan 2010	< 0.50	No	No
Metribuzin (ug/L)	12 Jan 2010	< 5.00	No	No
Monochlorobenzene (ug/L)	12 Jan 2010	< 0.20	No	No
Paraquat (ug/L)	12 Jan 2010	< 1.00	No	No
Parathion (ug/L)	12 Jan 2010	< 1.00	No	No

Parameter	Sample Date	Result Value	Exceedance	Exceedance of ½ MAC
Pentachlorophenol (ug/L)	12 Jan 2010	< 0.50	No	No
Phorate (ug/L)	12 Jan 2010	< 0.50	No	No
Picloram (ug/L)	12 Jan 2010	< 5.00	No	No
Polychlorinated Biphenyl(PCB) (ug/L)	12 Jan 2010	< 0.10	No	No
Prometryne (ug/L)	12 Jan 2010	< 0.25	No	No
Simazine (ug/L)	12 Jan 2010	< 1.00	No	No
Temephos (ug/L)	12 Jan 2010	< 10.00	No	No
Terbufos (ug/L)	12 Jan 2010	< 0.40	No	No
Tetrachloroethylene (ug/L)	12 Jan 2010	< 0.30	No	No
2,3,4,6-Tetrachlorophenol (ug/L)	12 Jan 2010	< 0.50	No	No
Triallate (ug/L)	12 Jan 2010	< 1.00	No	No
Trichloroethylene (ug/L)	12 Jan 2010	< 0.30	No	No
2,4,6-Trichlorophenol (ug/L)	12 Jan 2010	< 0.50	No	No
2,4,5-Trichlorophenoxy acetic acid (ug/L)	12 Jan 2010	< 1.00	No	No
Trifluralin (ug/L)	12 Jan 2010	< 0.40	No	No
Vinyl Chloride (ug/L)	12 Jan 2010	< 0.20	No	No

MAC: Maximum Allowable Concentration.

MDL: Method Detection Limit. The method used to detect this parameter is higher than the ½ MAC.

Distribution System					
Parameter	Date of Sample	Result Value (ug/L)	*RAA	Exceedance	Exceedance of ½ MAC
THM	12 Jan 2010	44.7	80.7	no	Not applicable
	13 Apr 2010	71.5	85.3		
	13 Jul 2010	97.3	71.6		
	12 Oct 2010	77.1	72.7		

*RAA: Running Annual Average

Lead: Samples were collected between (Dec 15, 2009 - Apr15, 2010 and Jun 15, 2010 - Oct 15, 2010). The results are summarized below:

Location	# of samples collected	Lead Results (mg/L)		pH Results (min. - max)	Alkalinity (mg/L) (min. - max)
		(min. - max)	Exceedance		
Residential Plumbing	33	< 0.001 – 0.003	No	6.50 – 7.26	Not applicable
Non-Residential Plumbing	8	< 0.001 – 0.003	No	6.99 – 7.17	Not applicable
Distribution Water	16	< 0.001 – 0.001	No	6.90 – 7.10	61 - 62

Thank You to all those residents who volunteered for the lead sampling program. The Carleton Place Drinking Water System now meets the requirements for the reduced sampling program and plumbing sampling exemption.

Summary of additional samples:

Date of legal instrument issued	Parameter	Month	Result	Unit of Measure	Limit
Certificate of Approval # 1150-69XLVM Issued: 01 April 2005	Suspended Solids	January	8	mg/L	Not applicable
		February	9	mg/L	Not applicable
		March	19	mg/L	Not applicable
		April	15	mg/L	Not applicable
		May	6	mg/L	Not applicable
		June	5	mg/L	Not applicable
		July	4	mg/L	Not applicable
		August	5	mg/L	Not applicable
		September	2	mg/L	Not applicable
		October	6	mg/L	Not applicable
		November	3	mg/L	Not applicable
		December	12	mg/L	Not applicable
		Annual Average	7.8	mg/L	Annual Average of 25 mg/L

Treated Water Parameter	Result Value Range (min – max)	Unit of Measure
Alkalinity	56 - 75	mg/L
pH	7.13 – 7.59	Not applicable
Colour	2.0 – 4.0	TCU
Total Hardness	86 - 109	mg/L
Total Dissolved Solids	130 - 157	mg/L
Conductivity	200 - 242	uS/cm
Dissolved Organic Carbon	2.7 – 4.6	mg/L
Aluminum: dissolved	0.024 – 0.12	mg/L
Total Organic Carbon	2.7 – 4.6	mg/L

Maintenance Summary

During 2010 a total of 1467 Work Orders were completed at the Carleton Place Drinking Water System. A breakdown of this total is listed below;

Corrective	27
Preventative	469
Weekly PM	900
Capital	19
Operational	52

Highlights of the some of the capital expenditures during the year are summarized below;

- Detailed underwater camera inspection of the water storage tower,
- Overhaul of the backwash sludge pumps including stator replacements,
- Various chemical feed/monitoring systems repairs including; chlorinator parts, fluoride analyzer probes, and alum feed pump parts,
- Repairs to the eccentric discharge valve on High-lift Pump #2
- Repair/upgrades to the SCADA/PLC,
- Purchase of miscellaneous items including repair kits for the backflow prevention devices and gen-set coolant piping
- Replacement of fire rated glass in the fluoride and chlorinator rooms,
- Replacement of the raw and treated water flow meters
- Repairs to the compressor air-dryer unit

Major upgrades currently being completed at the facility include:

- Replacement of the filter media
- Installation of an additional chemical storage tank
- Modifications to the air handling units in the Actiflo and High-lift pump rooms
- Installation of secondary containment for process chemicals
- Modification to the filters to allow for filter-to-waste (MOE requirement)
- Installation of a residuals pump station with associated piping and forcemain
- Installation of a de-humidification unit in the basement

END

Schedule 22
Summary Report

For

Municipalities

as per

O. Reg. 170/03

CARLETON PLACE DRINKING WATER SYSTEM
2010 SUMMARY REPORTS FOR MUNICIPALITIES

Report

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

This report was prepared by the Ontario Clean Water Agency for the Town of Carleton Place.

Who gets a copy of the Report:

- in the case of a drinking-water system owned by a municipality, the members of the municipal council;

What must the 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 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)
O. Reg. 170/03	Loss of process polymer AWQI #: 94217 07 Apr 2010	Not applicable	Pump repair and treatment process restored within a few hours.	Complete
Permit to Take Water	Rate of water taking is limited to 8333 L/min. On April 29 the system reached 8950 L/min for 0.03 second.	0.03 second	SCADA system programmed to prevent two low-lift pumps from starting at the same time.	Complete

The following items were identified by the Sep 2010 Ministry of the Environment Inspection Report:

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)
O. Reg. 170/03	<p>All water quality monitoring requirements imposed by the Permit, Licence or Approval issued under Part V of the SDWA were not being met.</p> <p>Conditions 5.6 and 5.7 of Certificate of Approval No. 1150-69XLVM prescribe that a monthly composite sample from the point of discharge to the Mississippi River, consisting of three samples taken during the discharge event, with at least one sample taken immediately following the commencement of the discharge, one sample taken approximately at the mid-point of the discharge event and one sample taken immediately before the discharge ceases, be taken and tested for suspended solids.</p> <p>A review of the records provided by OCWA on behalf of the Town of Carleton Place for the inspection period found that monthly composite samples were taken from the process wastewater treatment system discharge stream and analyzed for TSS. However, the composite samples were not taken in accordance with Conditions 5.6 and 5.7 of C of A No. 1150-69XLVM. It was reported that the operator uses a 500 mL sample container to collect 3 grab samples from the process wastewater; and that when the supernatant pump starts, the operator opens the sample tap and waits until the</p>	Not applicable	Sampling procedure was immediately changed.	Complete

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)
	<p>sample line clears before taking a grab sample at the beginning to fill 1/3 of the sample container, then the operator waits about 5 minutes and grabs another sample to fill another 1/3 of the sample container, and then the operator waits another 5 minutes before grabbing the remaining 1/3 of the sample container to completely fill the 500 mL sample container. The 500 mL sample container is then sent to the licenced laboratory for analysis of TSS. This method of collecting composite samples does not reflect the requirement of the C of A. The composite samples shall consist of 3 samples taken during the discharge event, with at least one sample taken immediately following the commencement of the discharge, one sample taken approximately at the mid-point of the discharge event and one sample taken immediately before the discharge ceases. The owner and operating authority must time a discharge event.</p> <p>Action(s) Required:</p> <ol style="list-style-type: none"> 1. By no later than October 12, 2010, provide to the undersigned Provincial Officer for her review and acceptance, a written action for ensuring that the monthly composite samples taken from the point of discharge to the Mississippi River and tested for suspended solids, consist of three samples taken during the discharge event, with at least one sample taken immediately following the commencement of the discharge, one sample taken approximately at the mid-point of the discharge event and one sample taken immediately before the discharge ceases in accordance with Conditions 5.6 and 5.7 of Certificate of Approval Number 1150-69XLVM. 2. Upon receipt of the Provincial Officer's acceptance, implement the accepted action plan. 			

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)
O. Reg. 170/03	<p>All continuous monitoring equipment utilized for sampling and testing required by O.Reg.170/03, or approval or order, were not equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6.</p> <p>The low level alarm setting on the free chlorine residual analyzer monitoring the treated water downstream of the clear well does not meet the requirements of Schedule 6 to O. Reg. 170/03. The general SOP identifies that a minimum free chlorine residual of 0.66 mg/L is required under limiting conditions to achieve the required CT value. The alarm set point must not be less than 0.1 mg/L below minimum levels for worst case conditions, so the low level alarm set point must be set at 0.56 mg/L with zero time delay. A compliance (regulatory) alarm of 0.56 mg/L with zero time delay is required to comply with subsection 6-5 (1) of Schedule 6, and then the operational alarms with time delays can be set at 1.1 mg/L and 3.0 mg/L. Following the inspection, it was advised that the high level alarm set point of 0.3 NTU now has a delay of 0 seconds for the filter effluent turbidities. It was noted that the low and high level alarms have a delay of 120 seconds for the free chlorine residual in the treated water; the low and high level alarms have a delay of 240 seconds and 120 seconds for the free chlorine residual in the water tower; and the low and high level alarms (0 and 1.4 mg/L) have a delay of 840 seconds for fluoride in the treated water. It was reported that there is no time delay on the low level alarm set point for the free chlorine residual measured at the Carleton Place WPCP. A compliance alarm of 1 NTU with zero time delay is required to be set on the filter effluent turbidimeters, and a regulatory alarm of 0.05 mg/L with zero time delay is required to be set on the free chlorine residual analyzer at</p>	Not applicable	Compliance alarm set points were added and all alarm delays were removed on compliance alarms.	Complete

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)
	<p>the Carleton Place WPCP in accordance with Section 6-5 of Schedule 6. It was observed on March 6/10 that the filter (no. 2) effluent turbidity exceeded 2 NTU for 92 seconds with no alarm, as there was a time delay of 14 minutes.</p> <p>Action(s) Required:</p> <p>1. (a) By no later than October 12, 2010, provide to the undersigned Provincial Officer for her review and acceptance, a written action plan for ensuring that the minimum alarm standard for free chlorine residual is to be set at 0.1 mg/L less than the concentration of free chlorine residual that is required to achieve primary disinfection with zero time delay; that the maximum alarm standard for filter effluent turbidity is to be set at 1.0 NTU with zero time delay; and that the minimum alarm standard for free chlorine residual in the distribution system is to be set at 0.05 mg/L with zero time delay, all in accordance with subsection 6-5 (1) of Schedule 6 to O. Reg. 170/03.</p> <p>1. (b) By no later than October 12, 2010, provide to the undersigned Provincial Officer for her review and acceptance, a written action plan for programming a "regulatory" high level alarm set point of 1.5 mg/L with zero time delay for the continuous fluoride residual analyzer.</p> <p>The action plans shall include, but not be limited to providing the undersigned Provincial Officer with a copy of the "Alarm Setpoints" and alarm delays printed from the Carleton Place WTP SCADA system.</p> <p>2. (a) By no later than October 12, 2010, provide to the undersigned Provincial Officer for her review and acceptance, a written action plan for ensuring that operators provide reasons for exceedances of the rated capacity and prescribed standards, and reasons for false spikes in water quality parameters in the log book, on the SCADA Daily Reports and in the "Comments" section of</p>			

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)
	<p>OCWA's PDC system; and that the operating authority review and validate the water quality data presented in the Daily Process Data Reports.</p> <p>3. Upon receipt of the Provincial Officer's acceptance, implement the accepted action plans.</p>			
O. Reg. 170/03	<p>The following instances of non-compliances were also noted during the inspection:</p> <p>Section 2 (B) - Notice of Issue Resolution for AWQI No. 91333 was not submitted to the ministry within 7 days of the issue being resolved. Section 2 (B) - Notice of Issue Resolution for AWQI No. 91333 was submitted to the ministry on October 5, 2009, when it was required to have been submitted to the ministry by October 2, 2009.</p> <p>2. It was observed on several occasions during the collection of plumbing samples for lead testing, that after flushing for a minimum of 5 minutes, the operator waited more than 35 minutes before taking the first sample for lead. For example, on September 11, 2009 at 11 Rochester St., flushing started at 10:03 and ended at 10:09 and sample #1 was collected at 10:49; and at 290 Bridge Street, flushing started at 9:04 and stopped at 9:09, and sample #1 was collected at 9:45.</p> <p>3. The rated capacity for the maximum flow rate into the treatment system of 8,333 L/min was exceeded on two occasions on August 6, 2009 and April 29, 2010 (due to 2 low lift pumps starting at the same time). The duration of the flow rate exceedances was 83 seconds (Aug. 6, 2009) and 0.03 seconds (Apr. 29, 2010). It was later reported that the Aug. 6, 2009 exceedance was caused by an operational activity being performed to confirm proper corrective actions were taken to an alarm situation which seconds later was followed by an automatic pump cycle; and that as soon as the issue was identified, the pump</p>	<p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p>	<p>Operation forms were updated to ensure this type of event would not re-occur.</p> <p>Lead plumbing sampling procedure was reviewed with operators.</p> <p>SCADA programming changed to prevent two pump starting at the same time.</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>

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)
	<p>was turned off and the SOP was followed with CT calculations performed and documented. It was later reported that the Apr. 29, 2010 exceedance was a trending error as the only pump running at the time was low lift pump #3, which typically pumps at 5,359 L/min, well below the rated capacity of 8,333 L/min. It was advised that an SOP has been prepared and placed in the SOP Manual and that the operational staff will be trained on the SOP during the week of Aug. 23, 2010. It cannot be said that the flow rate exceedances were necessary for the maintenance of the system.</p> <p>Action(s) Required:</p> <p>1. (a) By no later than October 12, 2010, provide to the undersigned Provincial Officer for her review and acceptance, a written action plan for ensuring that the required written notifications for the adverse water quality incidents are made to the Ministry's Spills Action Centre and the Medical Officer of Health for the Leeds, Grenville and Lanark District Health Unit in the manner and within the required time frame prescribed by section 18 of the Safe Drinking Water Act, 2002 and Schedule 16 of O. Reg. 170/03.</p> <p>) Upon receipt of the Provincial Officer's acceptance, implement the accepted action plan.</p> <p>(a) By no later than October 12, 2010, provide to the undersigned Provincial Officer for her review and acceptance, a written action plan for ensuring that the first sample for lead from plumbing is taken immediately after a period of not less than 30 minutes, but not more than 35 minutes, during which the plumbing is not used and must include the first water that comes out when the tap is turned on to take the sample in accordance with paragraph 9 (i) of subsection 15.1-7 (1) to Schedule 15.1 of O. Reg. 170/03.</p>			

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)
	<p>(b) Upon receipt of the Provincial Officer's acceptance, implement the accepted action plan.</p> <p>(a) By no later than October 12, 2010, provide to the undersigned Provincial Officer for her review and acceptance, a copy of the SOP developed for not starting two (2) low lift pumps at the same time to prevent the exceedance of the rated capacity for the maximum flow rate into the treatment system; and copies of the operator training records demonstrating that the operators were trained on said SOP.</p> <p>Please ensure that the operators record the reasons for the flow rate exceedances in OCWA's Comments Summary for PDC and in the WTP log book; and please ensure that flow rate exceedances only occur where necessary for fighting a large fire or the maintenance of the drinking-water system, provided the drinking-water supplied meets all other applicable standards and legal requirements in accordance with Certificate of Approval Number 1150-69XLVM. Please consider discussing this matter with the Ministry of the Environment's Approvals and Licensing Section of the Safe Drinking Water Branch prior to the issuance of the Municipal Drinking Water Licence and Drinking Water Works Permit for the Town of Carleton Place.</p>			

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

Attached please find a copy of the Annual Record of Water Taking for the Carleton Place Drinking Water System.

The table below is a summary of the rated capacity flow rates and flow rates approved in the system's approval.

	Peak Day Flow (m ³ /d)	Rated Capacity (m ³ /d)	Percent Rated Capacity (%)
January	5181.0	12000	43.2
February	5071.5	12000	42.3
March	5129.5	12000	42.7
April	5005.3	12000	41.7
May	7334.0	12000	61.1
June	6001.7	12000	50.0
July	7388.5	12000	61.6
August	6464.5	12000	53.9
September	6152.8	12000	51.3
October	5199.7	12000	43.3
November	5656.5	12000	47.1
December	5376.02	12000	44.8

When Does the 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

Personal information contained on this form is collected under the authority of the Ontario Water Resources Act, Section 20. The Purpose of the form is to record details and information about the taking of water annually. Questions should be directed to the respective hub office in your area.

Les renseignements personnels qui figurent dans le présent formulaire sont recueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. Ce formulaire sert à dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toutes questions au personnel du bureau régional de votre secteur.

Year(Année): 2010 Permit No.(N° de permis): 6882-686R5M Source: Mississippi River
 Location: RW - Raw Water

Name of Permittee: Town of Carleton Place Mailing Address: 175 Bridge Street, Carleton Place ON K7C 2V8
Nom du titulaire du permis Adresse postale

Location Of Taking: Twp. or Municipality: Concession: Lot:
Lieu de la prise d'eau Canton ou municipalité
 199 John Street Carleton Place

	Jan/2010	Feb/2010	Mar/2010	Apr/2010	May/2010	Jun/2010	Jul/2010	Aug/2010	Sep/2010	Oct/2010	Nov/2010	Dec/2010	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->
Avg Daily Taking(m3)	4,635.28	4,629.67	4,537.64	4,496.38	5,559.81	5,153.22	5,824.58	5,251.95	4,931.38	4,536.02	4,922.88	5,073.7		4,962.71		12,000.0
Total Amt of Taking(m3)	143,693.6	129,630.7	140,666.7	134,891.3	172,354.1	154,596.7	180,562.1	162,810.4	147,941.5	140,616.6	147,686.5	157,284.8	1,812,735.0			
Max Daily Flow(m3)	5,181.0	5,071.5	5,129.5	5,005.3	7,334.0	6,001.7	7,388.5	6,464.5	6,152.8	5,199.7	5,656.5	5,376.2			7,388.5	12,000.0
Peak Daily Rate of Taking(L/min)	7,402.08	7,420.14	7,924.31	8,950.0	7,616.67	7,061.81	7,068.75	7,043.06	7,462.5	7,118.06	7,231.94	6,768.26			8,950.0	8,333.0

Annual Record of Water Taking

(Permit to Take Water)

of

O. Reg. 387/04



Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 6882-686R5M

Permit Holder: THE CORPORATION OF THE TOWN OF CARLETON PLACE.

Received on: Feb 15, 2011 9:42 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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TOWN2 CARLETON PLACE2 | 2011/02/15

version: v3.3.0

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Annual Water Taking Report

For the Year 2010

Raw Flow: Sum (m3/d)

Municipality: Town of Carleton Place	Year: 2010
Facility Name: [5684] - Carleton Place Water Treatment Plant	Water Source: Mississippi River
Works: [210000372] - Carleton Place Water Treatment Plant	Total Design Capacity (m3/day): 12,000.00
Classification: Class 3 Water Treatment	Population Served: 9,500

January	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	4,111.700	4,568.100	4,981.300	4,836.200	4,471.900	4,673.500	4,636.400	4,553.400	4,387.800	4,820.900	4,970.000	4,524.600	4,433.600	4,825.500	4,450.500	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	4,592.700	4,781.200	4,844.900	4,228.800	4,848.300	4,699.700	4,717.700	4,571.900	4,838.600	4,351.200	4,568.300	4,648.100	4,595.200	4,396.200	5,181.000	4,584.400
February	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	4,323.900	5,071.500	4,371.500	4,629.600	4,478.400	4,702.300	4,772.100	4,434.600	4,682.900	4,727.700	4,672.300	4,780.400	4,773.600	4,687.700	4,548.800	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	4,617.300	4,799.700	4,903.800	4,445.500	4,490.600	4,772.200	4,738.600	4,508.600	4,615.000	4,484.000	4,410.800	4,461.400	4,725.900			

Annual Water Taking Report For the Year 2010

March	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water																
	4,630.400	4,637.600	4,660.000	3,777.300	5,011.700	4,279.000	4,742.100	5,129.500	4,569.800	4,557.000	4,036.700	5,030.200	4,458.400	4,545.200	4,362.300	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
	4,545.200	4,526.300	4,828.800	4,296.500	4,486.000	4,554.700	3,682.400	4,419.100	5,052.100	4,522.200	4,428.900	4,339.600	4,641.800	4,823.900	4,811.600	4,280.400
April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water																
	4,394.200	4,778.300	4,389.000	4,094.300	4,867.100	4,445.600	4,541.600	4,361.700	4,543.600	3,709.900	4,533.900	4,784.800	4,654.900	4,657.200	4,271.900	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
	4,526.900	4,318.700	4,647.600	5,005.300	4,872.500	4,121.900	4,637.200	3,915.800	4,597.700	4,834.200	4,930.600	3,945.200	4,719.400	4,787.300	4,003.000	
May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water																
	4,724.300	4,693.000	3,977.600	4,510.200	4,758.300	4,789.900	5,080.200	4,619.400	4,797.000	4,793.200	6,135.800	4,664.000	4,979.800	4,808.000	4,798.900	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
	5,581.500	6,122.300	4,772.600	6,091.700	5,959.900	5,911.600	6,172.900	6,201.200	6,481.700	7,334.000	7,145.000	6,862.700	6,454.100	6,505.600	6,102.300	6,525.400
June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water																
	6,001.700	5,420.600	4,903.100	5,520.800	5,048.300	4,755.600	5,328.400	5,567.500	4,814.900	5,509.200	4,969.700	4,079.100	5,027.000	5,715.700	5,183.800	

Annual Water Taking Report For the Year 2010

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	5,104.900	5,096.800	5,015.700	5,545.400	5,464.300	5,998.200	5,969.600	5,088.600	4,540.000	5,146.800	4,449.800	4,686.000	5,179.100	4,553.400	4,912.700	
July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	4,807.400	4,927.300	5,436.100	5,896.200	6,195.100	5,500.000	7,224.000	7,388.500	5,106.100	5,718.400	5,955.600	6,120.600	4,731.600	5,438.000	5,996.700	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	5,653.200	6,427.800	6,057.200	5,434.100	5,442.700	5,538.500	5,605.800	5,175.700	5,395.800	5,475.400	6,971.700	6,570.100	6,039.300	5,954.600	6,276.500	6,102.100
August	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	6,295.900	6,464.500	5,379.900	4,577.700	5,432.900	5,367.300	4,980.300	4,900.000	4,634.800	5,763.600	5,189.700	5,135.900	5,868.200	4,518.200	5,346.200	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	4,396.400	5,448.000	5,599.200	5,157.500	5,177.300	4,811.800	4,572.700	4,838.000	5,328.800	4,413.100	4,888.700	5,568.200	5,134.400	6,103.300	5,509.500	6,008.400
September	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	6,152.800	5,369.400	4,798.100	5,242.100	4,862.800	5,055.500	4,913.500	4,740.800	4,651.600	4,462.100	5,459.200	5,074.800	4,855.300	4,676.500	5,110.800	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	5,172.800	4,450.800	5,095.000	5,191.200	4,585.300	4,435.000	4,991.800	4,818.100	4,741.100	5,095.600	5,230.800	4,404.900	5,280.500	4,590.600	4,432.700	

Annual Water Taking Report For the Year 2010

October	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water																
	4,926.700	4,445.700	4,736.200	4,889.600	4,969.000	4,040.500	5,004.100	4,423.700	4,463.000	4,290.600	4,421.600	4,456.900	4,335.200	4,498.500	4,358.300	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
	4,056.400	4,069.400	4,434.800	4,807.200	3,926.000	4,838.900	4,072.500	3,453.100	4,899.300	4,914.700	5,032.800	4,505.600	4,056.200	5,199.700	5,109.900	4,980.500
November	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water																
	4,276.700	5,441.600	5,161.000	4,145.500	5,502.800	4,396.800	5,656.500	5,100.200	4,534.000	5,423.000	4,534.000	5,583.300	5,208.300	5,289.900	4,371.400	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
	4,393.600	4,993.100	4,805.500	4,739.900	5,283.400	4,973.100	4,745.800	4,277.300	5,488.100	4,845.900	4,967.300	4,848.900	4,827.600	4,872.800	4,999.200	
December	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water																
	4,884.200	4,932.000	4,934.100	4,950.700	5,103.200	5,288.700	4,937.700	4,786.500	5,376.200	5,145.200	5,122.100	5,017.900	5,170.800	5,056.700	4,900.500	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
	5,153.900	5,307.700	5,124.800	5,175.300	5,323.000	5,369.100	4,949.200	5,116.900	5,223.800	4,989.100	4,763.300	4,975.700	5,149.800	5,196.100	4,689.400	5,171.200