



# Township of Wellington North

P.O. Box 125 • 7490 Sideroad 7 W • Kenilworth • ON • N0G 2E0

## Regular Meeting of Council

Monday, January 28, 2013

Following Public Meeting

Municipal Office Council Chambers, Kenilworth

## A G E N D A

Page 1 of 4

AGENDA ITEM	PAGE NO.
<b><u>CALLING THE MEETING TO ORDER</u></b>	
- Mayor Tout	
<b><u>O' CANADA</u></b>	
<b><u>PASSING AND ACCEPTANCE OF AGENDA</u></b>	
<b><u>DECLARATION OF PECUNIARY INTEREST</u></b>	
<b><u>MINUTES</u></b>	
1. Mitchell Drainage Works Meeting, January 14, 2013	01
2. Regular Meeting of Council, January 14, 2013	04
<b><u>BUSINESS ARISING FROM MINUTES</u></b>	
1. County of Wellington, Planning and Land Division Committee Angela Alaimo Re: Comments for Consent Application B72/12 Sonia and Ricardo Aguirre (At the August 13, 2012 Regular Council Meeting Council requested deferral of the application pending information regarding the reduction in size of the outbuilding.)	23

AGENDA ITEM	PAGE NO.
<p><b><u>DELEGATIONS, DEPUTATIONS, PETITIONS, PRESENTATIONS</u></b></p>	
<p>1. Randy Pettapiece, MPP, Perth-Wellington                      Re: Presentation of Queen Elizabeth II Diamond Jubilee Medal to Lorraine Heinbuch, Chief Administrative Officer/Clerk                      Congratulations from Gary Schellenberger, MP, Perth-Wellington</p>	
<p><b><u>STANDING COMMITTEE, STAFF REPORTS, MINUTES AND RECOMMENDATIONS</u></b></p>	
<p>1. Report from April Marshall, Tourism, Marketing &amp; Promotion Manger and Dale Small, Business Economic Manager                      - Request for Approval to Enter into a Funding Agreement with the Province of Ontario in support of our application to the Creative Communities Prosperity Fund</p>	<p>26</p>
<p>2. Water/Sewer Committee                      - Minutes, January 22, 2013                      - Foreman's Report                      - Arthur Drinking Water System, DWS # 220000040                      - Drinking Water System Inspection Report                      - Mount Forest Drinking Water System, DWS # 220000068                      - Drinking Water System Inspection Report</p>	<p>29 31 32 64</p>
<p>3. Works Committee                      - Minutes, January 22, 2013</p>	<p>97</p>
<p>4. Recreation &amp; Culture Advisory Committee                      - Minutes, January 15, 2013                      - Arthur Walking Trail Sub Committee Minutes</p>	<p>100 103</p>

AGENDA ITEM	PAGE NO.
<b><u>STANDING COMMITTEE, STAFF REPORTS, MINUTES AND RECOMMENDATIONS</u></b> (continued)	
5. Building/Property Committee	
- Minutes, January 16, 2013	104
- CAO/Clerk's Report 11/12 Addendum	107
- Response regarding Former Sacred Heart School Property presently leased to OPP for Training Centre	
- Trustee's of Moorefield Mennonite Fellowship	109
- Zoning Amendment – 161 Eliza Street, Arthur	
- Federal Economic Development Agency for Southern Ontario	110
- CIIF Application – 146 George Street, Arthur	
- Kristen Weber, HR Accessibility Clerk, County of Wellington	111
- County of Wellington Accessibility Fund Incentive Programme – 146 George Street, Arthur	
- Legal Clinic of Guelph and Wellington County	112
- Changes to the Housing Investigation & Enforcement Unit's Mandate	
- Building Permit Monthly Review, November 30, 2012	113
- Building Permit Monthly Review, December 31, 2012	114
- Building Permit Yearly Review 2012	115
- Building Permit Yearly Review 2011	116
<b><u>CORRESPONDENCE FOR COUNCIL'S INFORMATION</u></b>	
1. Saugeen Conservation Re: 2013 Levy Assessment	117
<b><u>BY-LAWS</u></b>	
1. 6-13 Being a By-law to Amend Zoning By-law Number 66-01 being the Zoning By-law for the Township of Wellington North (Wellington North Housekeeping 2012)	119
2. 7-13 Being a By-law to Authorize the Execution of an Agreement between Her Majesty the Queen In Right Of Ontario as represented by the Minister of Tourism, Culture and Sport and the Corporation of the Township of Wellington North. (Creative Communities Prosperity Fund)	141

AGENDA ITEM	PAGE NO.
<b><u>OTHER/NEW BUSINESS</u></b>	
1. Conservation Authority Appointment - Grand River Conservation Authority, joint with Mapleton - Re-appointment of Pat Salter	
<b><u>ITEMS FOR COUNCIL'S INFORMATION</u></b>	
(copies available for review in Clerk's Office and at Council Meeting)	
Cheque Distribution Report dated January 23, 2013	165
<b><u>NOTICE OF MOTION</u></b>	
<b><u>ANNOUNCEMENTS</u></b>	
<b><u>CONFIRMING BY-LAW NO. 8-13 BEING A BY-LAW TO CONFIRM THE PROCEEDINGS OF COUNCIL</u></b>	178
<b><u>ADJOURNMENT</u></b>	
Lorraine Heinbuch, Chief Administrative Officer/Clerk	

# WATER/SEWER COMMITTEE MEETING

## January 22, 2012

**Members:** Sherry Burke, Councillor, Chair  
Andy Lennox, Councillor  
Barry Trood, Water & Sewer Superintendent  
Corey Schmidt, Water & Sewer Foreman

**Start:** 9:30 am

**End:** 10:45 am

### **Declarations of Pecuniary Interest**

Minutes from the November 27th Committee meeting were previously circulated and approved by Council

### **Business from May 15th meeting**

- Barry informed the committee that Mt. Forest Well #4 was rechecked again by IWS (International Water Supply) after serious vibration was occurring within the well house on start up and shut down. IWS determined that the pump shaft was still spinning after shutdown and installed a non-reverse ratchet to correct the problem. Operating Staff will be monitoring.

#### **1. Francis Street St., Arthur**

Barry updated committee in regards to water main and sanitary issues as it relates to possible 5 lot severances on Francis St. just south of Charles St in Arthur. Presently the Water Main is 4" Cast Iron and approx 80 years old and was looking to be replaced in the near future along with other street upgrades. If services were to be installed most of the street in front of these lots would require full re-construction given the sanitary is approx 9 feet deep and runs in the middle of the street while the water main runs on the north side of the street. If these services were to be installed there is the possibility that they would all come out again if the street is re-constructed in the near future.

#### **2. MOE 2012 Water Inspection Reports (attached)**

Barry reported that both Inspection reports came back at 100 % for both water systems for the second straight year along with no best management practices indicated. Barry extended thanks to his staff for their continued excellent work.

**3. Staff Reports (attached)**

**4. Permit to Take Water for Arthur**

Barry informed the committee that the PTTW for Arthur Well 8 A/B runs out in March of 2014 and the application will need to be done and sent in prior to the end of the year (2013). Given that Well 7B will need to be renewed the following year (2015) Barry informed the committee that he will also look to have that permit application done at the same time so both PTTW in Arthur line up on the same year as they do in Mt. Forest. Barry also noted that there will be cost savings if both permits are done at the same time as opposed to being done separately and there is a possibility that the MOE will not renew 7B at the same time.

**General information**

- BM Ross was given the go ahead to do survey work on Waterloo St. CMT given the go ahead for soil sample test results as well on Waterloo St. to get more information as to ground conditions for tendering and Fred Foster will do some vactor work to locate Sanitary Forcemain on Waterloo St. which has no tracer wire.
- OCWA reports for the Arthur and Mt. Forest Treatment Plants were received for the months of November and December with no compliance issues.
- Manhole inspections in Arthur were completed with most to be in good shape with the exception at the end of Wells St which appears to have a little infiltration and at Preston/Duke St. where it is 40 feet deep and there are some issues regarding a dropdown pipe from Duke St having broken off and possible damage to steps.
- Barry suggested if the Council members would like a tour of the wells he was willing to take them through. Councillor Lennox and Councillor Burke thought this would be a good idea and Council members wanting to have a tour could contact Barry to set a time that both could be available to do this.
- AWWA conference June 9-13 and Barry will be making arrangements for the Foreman and himself to attend.
  
- **Next Meeting: March 19, 2013 @ 8:30am**

# Water and Sewer Committee Meeting

January 22, 2013

## Foreman Report

- Ministry of the Environment Inspector Carola Serwatka completed unannounced inspections of Arthur and Mount Forest water systems
- Replaced batteries on well #3 generator
- Installed new flow control on chlorine pump #1 in well #8
- Corey and Barry completed Inflow and Infiltration course in Waterloo
- Corey and Barry completed Ponds and Lagoons course in Waterloo
- Water service leak at 180 Murphy Street found to be on private property
- Melissa's pregnancy/parental leave began December 17, 2012
- Vactored and repaired service box at 645 Queen Street West Mount Forest
- Completed Sanitary manhole inspections in Arthur (218 manholes)
- Completed SCADA compliance reports and backed up SCADA's for December
- Directional flushing completed in Arthur and Mount Forest
- Sent out letter and backflow lists to plumbers for 2013 backflow inspections
- Painted floors and piping in well houses
- Repaired ring break on 6" cast iron watermain on Eliza Street in Arthur
- Completed Schedule 23 and 24 samples at wells 3,4,5, and 6 as required
- Completed DWQMS Mock Drill Tabletop exercise with all staff (watermain break)
- Completed Health and Safety training with Water Department staff
- Replaced temperature probe on well #6 post chlorine analyzer
- Replaced flow sensor on well #7B pre chlorine analyzer
- IWS installed non reverse ratchet on motor clutch in well #4 to prevent shaft from spinning backwards

Ministry of  
the Environment

Ministère de  
l'Environnement



Safe Drinking Water  
Branch

Direction du contrôle la qualité de  
l'eau potable

Guelph District Office  
4<sup>th</sup> Floor  
1 Stone Road West  
Guelph, Ontario N1G 4Y2

Bureau du district de Guelph  
4<sup>e</sup> étage  
1, chemin Stone Ouest  
Guelph (Ontario) N1G 4Y2

December 20, 2012

The Township of Wellington North  
P.O. Box 125  
7490 Sideroad 7 West  
Kenilworth, Ontario N0G 2E0

Attention: Mr. Barry Trood  
Superintendent of Water & Sewer

Dear Barry,

**Re: Arthur and Mount Forest Drinking Water Systems  
Drinking Water System No. 220000040 & 220000068  
2012-13 Inspection Reports**

Enclosed are the reports based on the inspections of the Arthur and Mount Forest Drinking Water Systems conducted during November 20 - 28, 2012.

Both systems received an Inspection Summary Rating Record of 100%. In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation & Enforcement (II&E) Secretariat, and advice of internal/external risk experts. The Inspection Summary Rating Record (IRR), included as Appendix D of the inspection report, provides the Ministry, the system owner and the local Public Health Units with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance. IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspector's Annual Report. If you have any questions or concerns regarding the rating, please contact Lisa Williamson, Drinking Water Program Supervisor, at (519) 837-6386.

I would be pleased to answer any questions or provide additional clarification.

Sincerely,

Carola Serwotka  
Provincial Officer  
Drinking Water Inspection Program  
Guelph District Office  
Tel: (519) 826-4353  
E-mail: carola.serwotka@ontario.ca

Cc Melissa Irvine, Process Compliance Analyst  
Corey Schmidt, Foreman, Water & Sewer  
Scott Hutchison, Wellington-Dufferin-Guelph Health Unit  
Sandra Cooke, Grand River Conservation Authority  
Lisa Williamson, Acting Supervisor  
MOE Guelph District Office File





**Ministry of the Environment**

**ARTHUR DRINKING WATER SYSTEM  
Drinking Water System Inspection Report**

<b>DWS Number:</b>	220000040
<b>Inspection Number:</b>	1-9XGBJ
<b>Date of Inspection:</b>	Nov 20, 2012
<b>Inspected By:</b>	Carola Serwotka

---

**TABLE OF CONTENTS**

---

**COVER LETTER****OWNER & CONTACT INFORMATION 2****INSPECTION DETAILS & DRINKING WATER SYSTEM COMPONENTS  
DESCRIPTION 3****INSPECTION SUMMARY 6**

- Introduction
- Source
- Capacity Assessment
- Treatment Processes
- Distribution System
- Operations Manuals
- Logbooks
- Contingency/Emergency Planning
- Security
- Certification and Training
- Water Quality Monitoring
- Water Quality Assessment
- Reporting & Corrective Actions

**NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS  
REQUIRED 16****SUMMARY OF BEST PRACTICE ISSUES AND RECOMMENDATIONS 17****SIGNATURES 18****APPENDICES****APPENDIX A: STAKEHOLDER APPENDIX  
APPENDIX B: MINISTRY AUDIT SAMPLE RESULTS  
APPENDIX C: PROVINCIAL OFFICER'S REPORT & ORDER  
APPENDIX D: INSPECTION RATING RECORD**

**OWNER INFORMATION:**

**Company Name:** WELLINGTON NORTH, THE CORPORATION OF THE TOWNSHIP OF  
**Street Number:** 7490 **Unit Identifier:**  
**Street Name:** SIDEROAD 7 W  
**City:** KENILWORTH  
**Province:** ON **Postal Code:** N0G 2E0

**INSPECTION DETAILS:**

**DWS Name:** ARTHUR DRINKING WATER SYSTEM  
**DWS Address:** 109 WELLS ST ARTHUR ON N0G 1A0  
**County/District:** Wellington North  
**MOE District/Area Office:** Guelph District  
**Health Unit:** WELLINGTON-DUFFERIN-GUELPH HEALTH UNIT  
**Conservation Authority:** Grand River Conservation Authority  
**MNR Office:** Guelph Regional Office  
**DWS Category:** Large Municipal Residential  
**DWS Number:** 220000040  
**Inspection Type:** Unannounced  
**Inspection Number:** 1-9XGBJ  
**Date of Inspection:** Nov 20, 2012  
**Date of Previous Inspection:** Jan 23, 2012

**DRINKING WATER SYSTEM COMPONENTS DESCRIPTION**

**Site (Name):** WELLS 1, 2, 3, 5, 6 and 7A.  
**Type:** Source **Sub Type:** Ground

**Comments:**

Wells 1, 2, 3, 5 and 6 were decommissioned in 2005. Well 7A was decommissioned in 2006 after Wells 8A and 8B were commissioned.

**Site (Name):** WELL 7B RAW  
**Type:** Source **Sub Type:** Ground

**Comments:**

Well 7B is a 254 mm diameter, 46 m deep overburden well located behind the pumphouse at 109 Wells Street West drilled in 1998. It is equipped with a submersible pump rated at 22.7 L/s and driven by a 30 kW electric motor. A Sensus turbine flow meter measures the rate and amount of water pumped from the well.

**Site (Name):** WELL 7B TREATED  
**Type:** Treated Water POE **Sub Type:** Treatment Facility

**Comments:**

Pumphouse 7B is located at 109 Wells Street West, 25 m north of the Conestoga River. It houses supply, treatment and control facilities for Well 7B.

The disinfection system utilizes 12 percent sodium hypochlorite, and consists of a chemical solution tank and two chemical metering pumps (one duty, one spare), with a feed line connected to the well pump discharge piping. The chlorine contact facility consists of 40 m of 600 mm diameter PVC watermain, and includes one swab launching station and one swab retrieval station. Two chlorine residual analyzers measure the free chlorine residual into and out of the contact facility. All continuous analyzers are connected to the Township's SCADA system.

The iron treatment system utilizes iron sequestering chemicals, and consists of a chemical solution tank and two chemical metering pumps (one duty, one spare), with a feed line connected to the well pump discharge piping.

**Site (Name):** WELL 8A RAW**Type:** Source**Sub Type:** Ground Water**Comments:**

Well 8A is a 254 mm diameter, 61.9 m deep overburden well located outside the pumphouse at Part of Lots 20 and 21, Concession A, former Township of Peel. It is equipped with a submersible pump rated at 26.1 L/s at a total dynamic head of 70.7 m. A magnetic flow meter measures the rate and amount of water pumped from the well. Well 8A was commissioned in August 2005.

**Site (Name):** WELL 8B RAW**Type:** Source**Sub Type:** Ground Water**Comments:**

Well 8B is a 254 mm diameter, 62.2 m deep overburden well located outside the pumphouse at Part of Lots 20 and 21, Concession A, former Township of Peel. It is equipped with a submersible pump rated at 26.1 L/s at a total dynamic head of 70.7 m. A magnetic flow meter measures the rate and amount of water pumped from the well. Well 8B was commissioned on September 30, 2005.

**Site (Name):** WELL 8A/8B TREATED**Type:** Treated Water POE**Sub Type:** Treatment Facility**Comments:**

Pumphouse 8A/8B is located at Part of Lots 20 and 21, Concession A, former Township of Peel. It houses supply, treatment and control facilities for Wells 8A and 8B.

The disinfection system utilizes 12 percent sodium hypochlorite, and consists of a chemical solution tank and two chemical metering pumps (one duty, one standby with automatic switchover), with a feed line connected to the well pump discharge piping. The chemical metering pumps alternate on a regular basis to reduce wear and tear on the pumps. The chlorine contact facility consists of 68 m of 500 mm diameter PVC watermain, and includes one swab launching station and one swab retrieval station. Two chlorine residual analyzers measure the free chlorine residual into and out of the contact facility. There is flow and level monitoring for the sodium hypochlorite system. All continuous analyzers are connected to the Township's SCADA system.

The iron treatment system utilizes iron sequestering chemicals, and consists of a chemical solution tank and three chemical metering pumps (two dedicated duty, one standby), with a feed line connected to the well pump discharge piping.

Back up power is provided by a 100 kW standby diesel generator with 900 L fuel tank with containment (double wall) located in a separate room of the building.

**Site (Name):** DISTRIBUTION (WATER INSPECTION)

**Type:** Other

**Sub Type:**

**Comments:**

The distribution system serves approximately 2,770 consumers comprised of approximately of 810 residential premises and 140 industrial, commercial and institutional premises. There are two water storage towers (with volumes of 227 m<sup>3</sup> and 1,135 m<sup>3</sup>), approximately 18 km of watermains, 168 valves, 110 fire municipal hydrants and 7 private hydrants.

---

**Site (Name):** MOE DWS Mapping

**Type:** DWS Mapping Point

**Sub Type:**

**Comments:**

Not Applicable

---

## INSPECTION SUMMARY

### INTRODUCTION

- \* The primary focus of this inspection is to confirm compliance with Ministry of the Environment legislation and control documents, as well as conformance with Ministry drinking water related policies for the inspection period. The Ministry is implementing a rigorous and comprehensive approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as water system management practices.

This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O.Reg.170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.

This system (including Mount Forest) was inspected during November 20 and 28, 2012. The inspection period was from January 23 to November 20, 2012.

### SOURCE

- \* The owner was maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials.
- \* Measures were in place to protect the groundwater and/or GUDI source in accordance with a Permit and Licence or Approval issued under Part V of the SDWA.

### PERMIT TO TAKE WATER

- \* The owner had a valid PTTW for all of the production sources.
- \* The maximum water takings were in accordance with those allowed under the PTTW.
- \* The PTTW imposed additional monitoring or recording requirements and the owner had complied with the conditions of the PTTW.

Additional monitoring requires an annual report based on well information collected and prepared by R.J Burnside. The last report was prepared and submitted to the ministry on May 25, 2012.

### CAPACITY ASSESSMENT

- \* There was sufficient monitoring of flow as required by the Permit and Licence or Approval issued under Part V of the SDWA
- \* Flow measuring devices were calibrated or verified in accordance with the requirements of a Permit and Licence or Approval issued under Part V of the SDWA.

Flow measuring devices are calibrated every year.

### CAPACITY ASSESSMENT

- \* The owner was in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the Permit and Licence or Approval issued under Part V of the SDWA.

During the data review from January to December, 2012, the average and maximum flowrates were compared to the treatment capacity limits as a percent.

The following flow data was summarized by well:

- Well 7b - Average - 20 %, Maximum - 48 %
- Well 8a - Average - 16 %, Maximum - 40 %
- Well 8b - Average - 10 %, Maximum - 31 %
- \* Records of flows and any capacity exceedances were made in accordance with the Permit and Licence or Approval issued under Part V of the SDWA.

### TREATMENT PROCESSES

- \* The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.
- \* The owner/operating authority was in compliance with the requirement to prepare Form 1 documents as required by their Drinking Water Works Permit during the inspection period.
- \* The owner/operating authority was in compliance with the requirement to prepare Form 2 documents as required by their Drinking Water Works Permit during the inspection period.  
A Form 2 was prepared as required for the removal of iron/manganese filters for the old chlorine analyzers as the new chlorine analyzers did not need them.
- \* The owner/operating authority was in compliance with the requirement to prepare Form 3 and associated documents as required by their Drinking Water Works Permit during the inspection period.
- \* Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a Permit, Licence or Approval issued under Part V of the SDWA at all times that water was being supplied to consumers.
- \* Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined.

Distribution chlorine residual data was reviewed and there were no values found below 0.05 mg/L.

### TREATMENT PROCESSES

- \* The owner had evidence indicating that all chemicals and materials that come in contact with water within the drinking water system met the AWWA and ANSI standards in accordance with the Permit and Licence issued under Part V of the SDWA.
- \* Up-to-date plans for the drinking-water system were available in accordance with the Permit and Licence issued under Part V of the SDWA.

- \* The facility and equipment appeared to be maintained and in a fit state of repair.

All pumphouses and buildings were found to be clean and well maintained.

- \* The Operator-in-Charge had ensured that all equipment used in the processes was monitored, inspected, and evaluated.

Each operator acts as a operator in charge, and ensures that all equipment is monitored, inspected and evaluated.

- \* Where a potential bypass of primary or secondary treatment equipment existed, measures were taken to ensure that raw or partially treated water was not directed to the distribution system.

During maintenance of treatment equipment, the pumphouses are taken off-line to ensure no untreated water enters the distribution system.

- \* Based on information provided by the owner/operator, it was not likely that contaminants entering the floor drains would have come in contact with the source water or treated water.

Chlorine analyzer wastewater is the only process wastewater from the pumphouses and when discharged it either is directed to a soak-away pit or it is directed to the sanitary sewer.

- \* Measures were taken to ensure that pesticides were not applied, stored, or mixed in the immediate vicinity of source(s), treatment, and storage facilities.

The Township of North Wellington does not use pesticides and signs are posted on all pumphouses to alert the public to not use pesticides in the area.

### TREATMENT PROCESS MONITORING

- \* Primary disinfection chlorine monitoring was being conducted at a location approved by Permit, Licence or Approval issued under Part V of the SDWA, or at/near a location where the intended CT had just been achieved.

Free chlorine monitoring occurs prior to the chlorine contact chambers and after the chlorine contact chambers.

- \* Operators were aware of the operational criteria necessary to achieve primary disinfection within the drinking water system.

All operators are trained on CT calculations and within each pumphouse there are sample CT calculations posted on the wall.

- \* The secondary disinfectant residual was measured as required for the distribution system.

Free chlorine residuals are measured at least daily, 7 days a week, as well as during distribution sampling and during flushing activities.

- \* Records confirmed that the maximum free chlorine residual in the distribution system was less than 4.0 mg/L or that the combined chlorine residual was less than 3.0 mg/L.



### TREATMENT PROCESS MONITORING

- \* Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.

Operators examine continuous monitoring data daily, 7 days a week.

- \* Samples for chlorine residual analysis were tested using an acceptable portable device.

All operators have a HACH portable chlorine monitor.

- \* All continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or approval or order, were equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6.

- \* Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was performing tests for the parameters with at least the minimum frequency specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format.

- \* All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation.

The calibration of continuous analyzers are verified weekly at a minimum to a handheld portable colorimeter which are verified monthly. Handheld portable colorimeters are factory calibrated annually.

### DISTRIBUTION SYSTEM

- \* The owner had up-to-date documents describing the distribution components as required.

- \* There is a backflow prevention program, policy and/or bylaw in place.

All backflow devices must be inspected annually and a report provided to the Township as required by ByLaw No. 55-09 (Consolidated Services Water-Sewer).

- \* The owner had a program or maintained a schedule for routine cleanout, inspection and maintenance of reservoirs and elevated storage tanks within the distribution system.

Storage towers are inspected on a 3 year cycle by a third party as there are 3 storage towers for Arthur and Mount Forest. A report of the inspection is provided to the Township with recommendations regarding cleaning, painting and repairs. The Township undertakes the recommendations if it affects the water quality or integrity of the storage tower.

- \* Existing parts of the distribution system that were taken out of service for inspection, repair or other activities that may lead to contamination, and all new parts of the distribution system that came in contact with drinking water, were disinfected in accordance with Schedule B, Condition 2.3 of the Drinking Water Works Permit.

- \* The owner had implemented a program for the flushing of water mains as per industry standards.

Flushing is performed on a weekly basis.

- \* Records confirmed that disinfectant residuals were routinely checked at the extremities and "dead ends" of the distribution system.

## DISTRIBUTION SYSTEM

- \* A program was in place for inspecting and exercising valves.

Valves are exercised every year in the spring/summer.

- \* There was a program in place for inspecting and operating hydrants.

Hydrants are inspected every year.

- \* There was a by-law or policy in place limiting access to hydrants.

ByLaw No. 55.09 (page 12 of 25) does not allow anyone but the Manager of Public Works to permit the opening or closing of a hydrant, valve, water meter, structure, watermain, water service pipe or water service valve.

- \* The owner has undertaken efforts to identify, quantify and reduce sources of apparent water loss.

On an annual basis, on a 3 year cycle, between Arthur, and each half of the Mount Forest distribution system, a water leak detection study is performed by a third party. A leak detection report provides an estimate of the water leaks and an estimate of the water savings realized once the repairs have been made. Repairs in the distribution system are undertaken as the leaks are found.

- \* The distribution system pressure was monitored to alert the operator of conditions which may have lead to loss of pressure below the value under which the system is designed to operate.

Pressure is measured daily at the pumping stations and at the water storage towers.

- \* Based on the records available the owner was able to maintain proper pressures in the distribution system.

## OPERATIONS MANUALS

- \* Operators and maintenance personnel had ready access to operations and maintenance manuals.

Each Pump house has a copy of an up to date O&M manual and there is one copy at the Arthur WPCP (main office).

- \* The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.

- \* The operations and maintenance manuals did meet the requirements of the Permit and Licence or Approval issued under Part V of the SDWA.

The O&M manual and the operational plan provide:

- standard operating procedures for operation of treatment and monitoring equipment including critical control points
- contingency plans and emergency procedures
- complaints procedure
- procedures for well maintenance and inspection
- procedures for dealing with inspection non-compliance issues for well inspections.

## OPERATIONS MANUALS

It was recommended to update Appendix 12.02 of the Operational Plan to include a statement regarding following up with drinking water system inspection non-compliance issues.

Update: The updated Appendix 12.02 was provided before this inspection report was completed.

## LOGBOOKS

- \* **Logs for the drinking water subsystem(s) contained the required information.**
  
- \* **Logbook entries were made in chronological order.**
  
- \* **The record system allowed the reader to unambiguously identify the person who made the logbook entry.**
  
- \* **Entries in the logbook were made only by appropriate and authorized personnel.**
  
- \* **Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was being done by a certified operator, water quality analyst, or person who suffices the requirements of O. Reg. 170/03 7-5.**
  
- \* **For every required operational test and every required sample, a record was made of the date, time, location, name of the person conducting the test and result of the test.**
  
- \* **The operator-in-charge ensured that records were maintained of all adjustments made to the processes within his or her responsibility.**
  
- \* **The owner had evidence that all required Director Notifications under Condition 2.4 of Schedule B of the Permit were made during the inspection period.**
  
- \* **Logs or other record keeping mechanisms were available for at least five (5) years.**

## CONTINGENCY/EMERGENCY PLANNING

- \* **Spill containment was provided for process chemicals and/or standby power generator fuel.**
  
- \* **Clean-up equipment and materials were in place for the clean up of spills.**
  
- \* **Standby power generators were tested under normal load conditions.**

### SECURITY

- \* All storage facilities were completely covered and secure.
  
- \* Air vents and overflows associated with reservoirs and elevated storage structures were equipped with screens.
  
- \* The owner had provided security measures to protect components of the drinking-water system.

### CONSUMER RELATIONS

- \* Water conservation was being practiced by the owner or operating authority.
  
- \* Required documents were available free-of-charge during normal business hours at a location accessible to the public.
  
- \* The owner did take effective steps to advise users of the water system of the availability of Annual Reports, including posting a copy on a web site, if applicable.

### CERTIFICATION AND TRAINING

- \* The overall responsible operator had been designated for each subsystem.
  
- \* Operators in charge had been designated for all subsystems which comprised the drinking-water system.
  
- \* All activities that were undertaken by uncertified persons in the DW subsystems were overseen by persons having the prescribed qualifications.  
It is recommended to ensure all well contractors and well technicians have up to date licenses.
  
- \* All operators possessed the required certification.  
The system is a WDSS Class 2 and all operators have a WDSS Class 2 license.
  
- \* Only certified operators made adjustments to the treatment equipment.
  
- \* Operator certificates or water quality analyst certificates were displayed in a conspicuous location at the workplace or at the premises from which the subsystem was managed.  
All certificates are located in a binder in the front office room beside the drinking water system.
  
- \* The classification certificates of the subsystems were conspicuously displayed at the workplace or at premises from which the subsystem was managed.

### CERTIFICATION AND TRAINING

- \* An adequately licenced operator was designated to act in place of the overall responsible operator when the overall responsible operator was unable to act.
- \* The owner/operating authority was aware of the operator training and record keeping requirements, and they were taking reasonable steps to ensure that all operators receive the required training.

Training records are maintained by the Process Compliance Analyst.

### WATER QUALITY MONITORING

- \* All microbiological water quality monitoring requirements for raw water samples were being met.

During the inspection period, there were two exceedences for total coliform in the raw water for well #8b. There were no adverse results in the treated or distribution system samples taken at the same time.

- September 4, 2012 - 4 coliform counts/100mL.

- October 1, 2012 - 2 coliform counts/100mL

These exceedences were the first since this new well was put in service about 7 years ago. It is recommended to monitor the raw water quality for this well as well as ensure sampling techniques and sample handling directions are reviewed regularly.

- \* All microbiological water quality monitoring requirements for distribution samples were being met.
- \* All microbiological water quality monitoring requirements for treated samples were being met.
- \* All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.  
The next set of inorganics to be sampled and tested are required to be done in August 2013.
- \* All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.  
The next set of organics to be sampled and tested are required to be done in November, 2014.
- \* All trihalomethanes water quality monitoring requirements prescribed by legislation were conducted within the required frequency.

THMs were sampled and tested on:

- February 14, 2012 - 10 ug/L

- May 7, 2012 - 12 ug/L

WATER QUALITY MONITORING

- August 13, 2012 - 16 ug/L
- November 6, 2012 - 11 ug/L

The annual running average for THMs for 2012 is 12.25 ug/L, well below the limit of 100 ug/L.

- \* **Trihalomethane samples were being collected from a point in the distribution system or connected plumbing system that was likely to have an elevated potential for the formation of trihalomethanes.**

- \* **All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency for the DWS.**

Nitrate/nitrites were sampled and tested on February 14, May 7, August 13, and November 6, 2012 - all values were not detected and therefore, well below the limit of 10 mg/L.

- \* **All sodium water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

Sodium was last sampled and tested on September 11, 2008 and the value reported was 31.8 mg/L which is below the aesthetic value of 200mg/L.

- \* **All fluoride water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

The most recent sample for fluoride was taken on September, 2008 and the value was 1.45mg/L which is just below the limit of 1.5mg/L.

- \* **The owner ensured that water samples were taken at the prescribed location.**
- \* **The owner was required to increase frequency of monitoring as a result of having exceeded half the value of an applicable ODWQS of a Schedule 13-2 or 13-4 parameter(s) and that increased monitoring was conducted.**
- \* **All water quality monitoring requirements imposed by the Permit and Licence or Approval issued under Part V of the SDWA were being met.**
- \* **All sampling requirements for lead prescribed by schedule 15.1 of O. Reg. 170/03 were being met.**  
The Township is on a reduced lead sampling schedule as less than 10% of samples taken previously are below 10 ug/L.
- \* **Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.**
- \* **Turbidity was being tested at least once every month from each well that is supplying water to the system.**

Turbidity is tested on a weekly basis.

### WATER QUALITY MONITORING

- \* The drinking water system owner had submitted written notices to the Director that identified the laboratories that were conducting tests for parameters required by legislation, Order Certificate of Approval (OWRA) or a Permit, Licence or Approval issued under Part V of the SDWA.

The Township uses certified laboratories.

- \* Based on information provided by the owner/operator, samples were being taken and handled in accordance with instructions provided by the drinking-water system's laboratories.
- \* The owner indicated that the required records are kept and will be kept for the required time period.

### WATER QUALITY ASSESSMENT

- \* The audit samples collected by the inspector met the applicable Ontario Drinking Water Quality Standards and/or the aesthetic objectives or operation guidelines. The results of the audit sampling are summarized as follows:

Audit samples were taken on November 27, 2012 in the distribution system and all samples were found to be clear of microbiological parameters and free chlorine residuals were well above the limit of 0.05 mg/L.

- \* Records show that all water sample results taken during the review period met the Ontario Drinking Water Quality Standards (O. Reg. 169/03).

There were no exceedences for all treated and distribution samples over the inspection period.

### REPORTING & CORRECTIVE ACTIONS

- \* Corrective actions (as per Schedule 17) had been taken to address adverse conditions, including any other steps that were directed by the Medical Officer of Health.
- \* Corrective actions as directed by the Medical Officer of Health had been taken by the owner and operating authority to address exceedences of the lead standard.
- \* All required notifications of adverse water quality incidents were immediately provided as per O. Reg. 170/03 16-6.
- \* All required written notices of adverse water quality incidents were provided as per O. Reg. 170/03 16-7.
- \* In instances where written notice of issue resolution was required by regulation, the notice was provided as per O. Reg. 170/03 16-9.
- \* All reporting requirements for lead sampling were complied with as per schedule 15.1-9 of O. Reg. 170/03.

**REPORTING & CORRECTIVE ACTIONS**

- \* Where required continuous monitoring equipment used for the monitoring of chlorine residual and/or turbidity triggered an alarm or an automatic shut-off, a qualified person responded in a timely manner and took appropriate actions.

All alarms that were triggered by the SCADA system were reviewed during the inspection. Almost all alarms were due to calibrating alarms or monthly alarm testing to ensure the pumphouses shutdown when chlorine monitors were set to below the chlorine alarms levels. Other alarms were due to maintenance of the SCADA system or brief power outages.

- \* When the primary disinfection equipment, other than that used for chlorination or chloramination, has failed causing an alarm to sound or an automatic shut-off to occur, a certified operator responded in a timely manner and took appropriate actions.

Alarms that triggered an automatic shutdown were activated on purpose, on a monthly basis, to ensure that the system was working as it was programmed. There were no automatic shutdowns/alarms during the inspection period that required an operator to respond.

- \* The Annual Report containing the required information was prepared by February 28th of the following year.
- \* Summary Reports for municipal council were completed on time, included the required content, and were distributed in accordance with the regulatory requirements.  
The summary report was submitted and accepted by the Regular Meeting of Council on March 19, 2012.
- \* All changes to the system registration information were provided within ten (10) days of the change.
- \* The owner had evidence that all required notifications to all legal owners associated with the Drinking Water System had been made during the inspection period.



**NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS REQUIRED**

This section provides a summary of all non-compliance with regulatory requirements identified during the inspection period, as well as actions required to address these issues. Further details pertaining to these items can be found in the body of the inspection report.

Not Applicable

**SUMMARY OF BEST PRACTICE ISSUES AND RECOMMENDATIONS**

This section provides a summary of all best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. Best Management Practices are recommendations and not mandatory requirements, but may lead to safe drinking water for the consumer.

In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following practices and consider measures to implement them so that all drinking water systems continuously improve their processes.

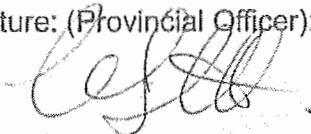
Not Applicable

**SIGNATURES**

Inspected By:

Carola Serwotka

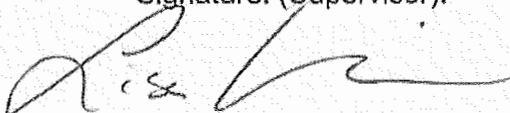
Signature: (Provincial Officer):



Reviewed &amp; Approved By:

Lisa Williamson

Signature: (Supervisor):



Review &amp; Approval Date:

19 DEC 2012

Note: This inspection does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they apply or may apply to this facility. It is, and remains, the responsibility of the owner and/or operating authority to ensure compliance with all applicable legislative and regulatory requirements.

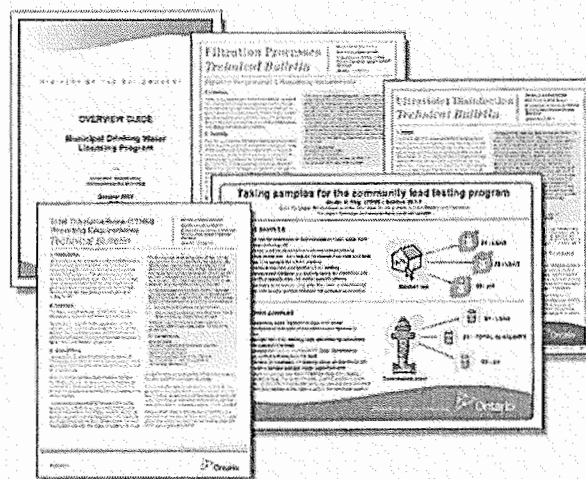
**APPENDIX A  
STAKEHOLDER APPENDIX**

## Key Reference and Guidance Material for Municipal Residential Drinking Water Systems

Many useful materials are posted on the Ministry of the Environment's Drinking Water Ontario website at [www.ontario.ca/drinkingwater](http://www.ontario.ca/drinkingwater) to help in the operation of your drinking water system.

Below is a list of key materials frequently used by owners and operators of municipal drinking water systems. To read or download these materials, go to Drinking Water Ontario and search in the **Resources** section by **Publication Number**.

Visit Drinking Water Ontario for more useful materials. Contact the Public Information Centre if you need assistance or have questions at 1-800-565-4923/416-325-4000 or [picemail.moe@ontario.ca](mailto:picemail.moe@ontario.ca).



PUBLICATION NUMBER	PUBLICATION TITLE
4448e01	Procedure for Disinfection of Drinking Water in Ontario
7152e	Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids
7467	Filtration Processes Technical Bulletin
7685	Ultraviolet Disinfection Technical Bulletin
8215	Total Trihalomethane (TTHM) Reporting Requirements Technical Bulletin (February 2011)
2601e	Overview Guide: Municipal Drinking Water Licensing Program
0000	Municipal Drinking Water Licensing Program Bulletin, Issue 1, January 2011
0000	Certification Guide for Operators and Water Quality Analysts
6560e	Taking Samples for the Community Lead Testing Program
7423e	Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption
7128e	Drinking Water System Contact List
4449e01	Technical Support Document for Ontario Drinking Water Quality Standards

[ontario.ca/drinkingwater](http://ontario.ca/drinkingwater)

**APPENDIX B  
MOE AUDIT SAMPLE RESULTS**

Ontario Ministry of Environment  
Laboratory Services Branch - 125 Resources Road  
Etobicoke, Ontario M9P 3V6

FINAL REPORT(manager)

Login: C191955

Print Date: Feb. 23, 2012 06:12 PM By REPORTADMIN

\*\*\*\* REPRINTED \*\*\*\*

Program Code 130073201  
Program: MOE OPERATIONS DIVISION  
Study: WATER, COMMUNAL  
Project: WEST CENTRAL REG. - CAMBRIDGE  
Activity: WTP MUNIC INSPECT/ADVERS NOTIF  
Organization: District Manager - Cambridge

Org. Id: 4421

Mail this copy to :

SERWOTKA, CAROLA  
MOE - GUELPH DISTRICT OFFICE  
1 STONE ROAD WEST  
GUELPH,ONT  
N1G 4Y2

Final reports to : LUBERTI, CATERINA  
SERWOTKA, CAROLA

Approved for release by : DAVE MORSE Supervisor, Physical Chemistry and Litigation Section

Approved date : Feb. 23, 2012

Inquires to : RUSTY MOODY  
PETER DROUIN

Telephone : 416-235-5863  
Telephone : 416-235-5850

LOGIN DESCRIPTION: 220000040 ARTHUR WS CAROLA SERWOTKA 519-826-4353

The results relate only to items tested.

To provide customer service feedback on this report and/or other services provided by LaSB, please contact the LaSB HelpDesk at 416-235-6030 or the Customer Service Manager at 416-235-5831

This report contains confidential information intended only for the person(s) to whom it is addressed. Any unauthorized disclosure, copying, other distribution of this report, or taking any action on its content is strictly prohibited. If you have received this report in error, please contact the LaSB HelpDesk at 416-235-6030 or the Customer Service Manager at 416-235-5831

Ontario Ministry of Environment  
 Laboratory Services Branch - 125 Resources Road  
 Etobicoke, Ontario M9P 3V6

FINAL REPORT(manager)

Login: C191955

Print Date: Feb. 23, 2012 06:12 PM By REPORTADMIN

\*\*\*\* REPRINTED \*\*\*\*

Field Id	Station ID	Sample Location Description	Sampling Date	Time	Zone	Sampler Information
CFS-AR-04	2200000408002	MUSASHI MTRS. DISTRIBUTION	06 FEB 2012	09:15	5	
	Sample ID C191955-0001	Sample Comment Description				

MOE\*LIMS Products Requested:

WD E3226A PA3226

UTM:

Zone	Easting	Northing	Collection Method	Map Datum	Accuracy (metres)
17	566509	4830478	GPS	NAD83	11-20M

Field Id	Station ID	Sample Location Description	Sampling Date	Time	Zone	Sampler Information
CFS-AR-05	2200000408002	FIRE HALL DISTRIBUTION	06 FEB 2012	09:30	5	
	Sample ID C191955-0002	Sample Comment Description				

MOE\*LIMS Products Requested:

WD E3226A PA3226

UTM:

Zone	Easting	Northing	Collection Method	Map Datum	Accuracy (metres)
17	537093	4853350	GPS	NAD83	11-20M

Field Id	Station ID	Sample Location Description	Sampling Date	Time	Zone	Sampler Information
CFS-AR-06	2200000408002	PARKS DEPT. DISTRIBUTION	06 FEB 2012	09:45	5	
	Sample ID C191955-0003	Sample Comment Description				

MOE\*LIMS Products Requested:

WD E3144B VOL3144

WD E3226A PA3226

WD E3473 PB3473

UTM:

Zone	Easting	Northing	Collection Method	Map Datum	Accuracy (metres)
17	537453	4854232	GPS	NAD83	2-5M



Ontario Ministry of Environment  
 Laboratory Services Branch - 125 Resources Road  
 Etobicoke, Ontario M9P 3V6  
 FINAL REPORT(manager)

Login: C191955

Print Date: Feb. 23, 2012 06:12 PM By REPORTADMIN

\*\*\*\* REPRINTED \*\*\*\*

Field ID:	CFS-AR-04	CFS-AR-05	CFS-AR-06
Sample ID:	C191955-0001	C191955-0002	C191955-0003
MOE*LIMS ID:	2012WD6-00021	2012WD6-00022	2012WD6-00023
Station ID:	2200000408002	2200000408002	2200000408002
Collect Date:	06 FEB 2012	06 FEB 2012	06 FEB 2012
Sample Location Description:	MUSASHI MTRS. DISTRIBUTION	FIRE HALL DISTRIBUTION	PARKS DEPT. DISTRIBUTION

Sample Comments Description:

Listid	Paramname	Value	Units	Qual	Rmk1	Value	Units	Qual	Rmk1	Value	Units	Qual	Rmk1
3144L1	Chloroethene					.05	ug/L					<=W	
	1,1-dichloroethene					.05	ug/L					<=W	
	Dichloromethane					.2	ug/L					<=W	
	Tert-butyl methyl ether					.05	ug/L					<=W	
	trans-1,2-dichloroethene					.05	ug/L					<=W	
	Diisopropylether					.05	ug/L					<=W	
	1,1-dichloroethane					.05	ug/L					<=W	
	cis-1,2-dichloroethane					.05	ug/L					<=W	
	Chloroform					2.5	ug/L					<=W	
	1,1,1-trichloroethane					.05	ug/L					<=W	
	Carbon tetrachloride					.2	ug/L					<=W	
	1,2-dichloroethane					.05	ug/L					<=W	
	Benzene					.05	ug/L					<=W	
	Trichloroethene					.05	ug/L					<=W	
	1,2-dichloropropane					.05	ug/L					<=W	
	Bromodichloromethane					2.0	ug/L					<=W	
	Dichloroacetonitrile					.5	ug/L					<=W	
	Toluene					.05	ug/L					<=W	
	1,1,2-trichloroethane					.1	ug/L					<=W	
	Tetrachloroethene					.05	ug/L					<=W	
	Dibromochloromethane					2.0	ug/L					<=W	
	1,2-dibromoethane					.1	ug/L					<=W	
	Chlorobenzene					.05	ug/L					<=W	
	Ethylbenzene					.05	ug/L					<=W	
	m- and p-xylene					.05	ug/L					<=W	
	o-xylene					.05	ug/L					<=W	
	Styrene					.05	ug/L					<=W	
	Bromoform					0.5	ug/L					<T	
	1,1,2,2-tetrachloroethane					.2	ug/L					<=W	
	1,3-dichlorobenzene					.05	ug/L					<=W	
	1,4-dichlorobenzene					.05	ug/L					<=W	
	1,2-dichlorobenzene					.05	ug/L					<=W	
	Trihalomethanes; total					7.0	ug/L					<=W	
3226L1	NT: Total Coliforms	See Non-Target Textual result				See Non-Target Textual result				See Non-Target Textual result			
3473L3	Lead					.3	ug/L					+/-0,16	SIP

Ontario Ministry of Environment  
 Laboratory Services Branch - 125 Resources Road  
 Etobicoke, Ontario M9P 3V6  
 FINAL REPORT(manager)

Login: C191955

Print Date: Feb. 23, 2012 06:12 PM By REPORTADMIN

\*\*\*\* REPRINTED \*\*\*\*

CODE	DESCRIPTION
NDAT	NO DATA: ABSENT NT: TOTAL COLIFORMS
NDDN	NO DATA: NOT DETECTED NT: DETERIORATION INDICATORS
<T	A MEASURABLE TRACE AMOUNT: INTERPRET WITH CAUTION
SIP	SAMPLE IMPROPERLY PRESERVED
<=W	NO MEASURABLE RESPONSE (ZERO): <REPORTED VALUE
NDAE	NO DATA: ABSENT NT: ESCHERICHIA COLI

NON-TARGET TEXTUAL RESULT

Sample ID: C191955-0001	Listid : 3226L1	Parmname : NT: Total Coliforms	Value:	Units: c/100mL	Qual: NDAT	Remarks:
Absent						
Sample ID: C191955-0001	Listid : 3226L1	Parmname : NT: Escherichia coli	Value:	Units: c/100mL	Qual: NDAE	Remarks:
Absent						
Sample ID: C191955-0001	Listid : 3226L1	Parmname : NT: Deterioration Indicators	Value:	Units: c/100mL	Qual: NDDN	Remarks:
Not Detected						
Sample ID: C191955-0002	Listid : 3226L1	Parmname : NT: Total Coliforms	Value:	Units: c/100mL	Qual: NDAT	Remarks:
Absent						
Sample ID: C191955-0002	Listid : 3226L1	Parmname : NT: Escherichia coli	Value:	Units: c/100mL	Qual: NDAE	Remarks:
Absent						
Sample ID: C191955-0002	Listid : 3226L1	Parmname : NT: Deterioration Indicators	Value:	Units: c/100mL	Qual: NDDN	Remarks:
Not Detected						
Sample ID: C191955-0003	Listid : 3226L1	Parmname : NT: Total Coliforms	Value:	Units: c/100mL	Qual: NDAT	Remarks:
Absent						
Sample ID: C191955-0003	Listid : 3226L1	Parmname : NT: Escherichia coli	Value:	Units: c/100mL	Qual: NDAE	Remarks:
Absent						
Sample ID: C191955-0003	Listid : 3226L1	Parmname : NT: Deterioration Indicators	Value:	Units: c/100mL	Qual: NDDN	Remarks:
Not Detected						

Login: C191955

\*\*\*\* REPRINTED \*\*\*\*

NON-TARGET TEXTUAL RESULT

TEXT COMMENT

Product Completion

Sample ID	Matrix	Method	Product	Analytical Department	Completion Date
C191955-0001	WD	E3226A	PA3226	6510	09-FEB-12
C191955-0002	WD	E3226A	PA3226	6510	09-FEB-12
C191955-0003	WD	E3144B	VOL3144	4410	16-FEB-12
C191955-0003	WD	E3226A	PA3226	6510	09-FEB-12
C191955-0003	WD	E3473	PB3473	6410	13-FEB-12

\*\*\* End of Report \*\*\*

**APPENDIX C  
PROVINCIAL OFFICER'S REPORT & ORDER**

**APPENDIX D  
INSPECTION RATING RECORD**

Ministry of the Environment - Inspection Summary Rating Record (Reporting Year - 2012-2013)

**DWS Name:** ARTHUR DRINKING WATER SYSTEM  
**DWS Number:** 220000040  
**DWS Owner:** Wellington North, The Corporation Of The Township Of  
**Municipal Location:** Wellington North

**Regulation:** O.REG 170/03  
**Category:** Large Municipal Residential System  
**Type Of Inspection:** Detailed  
**Inspection Date:** November 20, 2012  
**Ministry Office:** Guelph District

Maximum Question Rating: 832

Inspection Module	Non-Compliance Rating
Source	0 / 28
Permit To Take Water	0 / 30
Capacity Assessment	0 / 42
Treatment Processes	0 / 115
Distribution System	0 / 25
Operations Manuals	0 / 42
Logbooks	0 / 46
Consumer Relations	0 / 8
Certification and Training	0 / 65
Water Quality Monitoring	0 / 176
Reporting & Corrective Actions	0 / 135
Treatment Process Monitoring	0 / 120
<b>TOTAL</b>	<b>0 / 832</b>

Inspection Risk Rating 0.00%

**FINAL INSPECTION RATING: 100.00%**

Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2012-2013)

**DWS Name:** ARTHUR DRINKING WATER SYSTEM  
**DWS Number:** 220000040  
**DWS Owner:** Wellington North, The Corporation Of The Township Of  
**Municipal Location:** Wellington North

**Regulation:** O.REG 170/03  
**Category:** Large Municipal Residential System  
**Type Of Inspection:** Detailed  
**Inspection Date:** November 20, 2012  
**Ministry Office:** Guelph District

Maximum Question Rating: 832

Inspection Risk Rating 0.00%

**FINAL INSPECTION RATING: 100.00%**