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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING OF FEBRUARY 2, 2016</b>
<b>FROM:</b>	<b>JOHN LUCAS, P.ENG. DIRECTOR - WATER AND WASTEWATER</b>
<b>SUBJECT:</b>	<b>2015 MINISTRY OF THE ENVIRONMENT AND CLIMATE CHANGE INSPECTION REPORT FOR THE CITY OF LONDON WATER DISTRIBUTION SYSTEM</b>

### RECOMMENDATION

That on the recommendation of the Director - Water and Wastewater, this report regarding the findings of the 2015 Ministry of the Environment and Climate Change Inspection of the City of London Water Distribution System **BE RECEIVED** for information.

### PREVIOUS REPORTS PERTINENT TO THIS MATTER

[“Ministry of the Environment Inspection Report for the City of London Water Distribution System – 2013”](#), Civic Works Committee, December 9, 2013, Agenda item #7.

[“Ministry of the Environment and Climate Change Inspection Report for the City of London Water Distribution System – 2014”](#), Civic Works Committee, February 3, 2015, Agenda item #7.

### 2015-19 STRATEGIC PLAN

The 2015–2019 Strategic Plan identifies this objective under *Strengthening Our Community: 5(J) – Help Londoners understand how we provide safe drinking water.*

### BACKGROUND

Municipal drinking water systems in Ontario are held to very high standards. The Ontario Ministry of the Environment and Climate Change (MOECC) ensures that these standards are being met through two separate mechanisms.

For water system management, the MOECC developed a Drinking Water Quality Management Standard (DWQMS) which combined elements of existing ISO 9001 and HACCP standards. Municipalities are required to maintain Quality Management Systems (QMSs) that meet the requirements of this standard. Conformance to the DWQMS is monitored through annual internal and external audits of the QMS. The 2015 audit results were reported to the Civic Works Committee on November 3, 2015.

Water system operations are governed by provincial regulations, and by the conditions prescribed in MOECC-issued Drinking Water Works Permits and Municipal Drinking Water Licences. The MOECC performs annual inspections to ensure that municipalities are operating their water systems in compliance with all applicable legal requirements.

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This report outlines the results of the 2015 MOECC inspection, which was conducted in November, 2015.

## DISCUSSION

MOECC inspections can be in the form of rigorous “detailed” inspections, or less stringent “focused” inspections. For the past several years, the MOECC reported that London’s Water Distribution System was chosen for focused inspections because:

*“...inspection findings over the past three years were such that the number of violations were minimal or non-existent, there were few or no orders issued to you that were of significance in the maintenance of water potability and there were no deficiencies as defined in O. Reg. 172/03.”*

In November, 2015, the MOECC selected London for a detailed inspection.

The MOECC inspection included staff interviews and facility inspections, as well as a review of operating procedures, water analysis reports, operational records, and staff certification and training records.

On December 22, 2015, the MOECC issued the *City of London Distribution System Inspection Report*. The report summarizes the inspection findings, and lists any incidents of non-compliance with regulatory requirements.

Only one incident of non-compliance was identified, which the MOECC reported as follows:

***“Well #5 of the Fanshawe Well Field is not being used or maintained for future use as a well.*”**

***Action(s) Required:***

*The City of London shall either maintain the well, or abandon the well in accordance with O. Reg. 904.*

*Compliance will be verified in the next annual inspection.”*

The City of London maintains seven emergency back-up wells in the event of an extended interruption of the water supply from the Primary Water Supply Systems. Six of these wells comprise the Fanshawe Well Field, with the seventh being a stand-alone well in the Hyde Park area.

At the time of the 2015 inspection, the City of London reported to the MOECC Inspector that the discharge pipe from Fanshawe Well #5 had broken, and therefore Well #5 was not in service. This incident of non-compliance does not reflect a drinking water quality hazard, as the broken section of pipe is isolated from the remainder of the well-field, and the well-field is isolated from the water distribution mains. Plans have been made to excavate and repair the broken pipe in the early spring of 2016.

In addition to the incident of non-compliance, the MOECC inspector provided a recommendation that the City of London consider the implementation of a system-wide watermain flushing program to avoid potential water quality problems.

The results of the annual MOECC Inspections are used to generate *Ministry of the Environment Drinking Water System Inspection Rating Records*. Each year, these rating

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records (or “report cards”) for Ontario drinking water systems are compiled and made available to the public. Given the minor nature of the single incident of non-compliance, the City of London received a Final Inspection Rating of 100.00% for 2015.

The following summarizes London’s recent Final Inspection Ratings:

- 2013 – 100.00%
- 2014 – 98.98%
- 2015 – 100.00%

The full 2015 *City of London Distribution System Inspection Report* can be found at:

<http://www.london.ca/residents/Water/Water-System/Pages/Summary-and-Annual-Reports.aspx>

<b>SUMMARY</b>
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The Ontario Ministry of the Environment and Climate Change (MOECC) performs rigorous annual inspections to ensure that municipalities are operating their water systems in compliance with all applicable legal requirements.

The MOECC recently completed the 2015 inspection of London’s drinking water system, and outlined the findings in the *City of London Distribution System Inspection Report*.

London received a Final Inspection Rating of 100.00% for the 2015 MOECC inspection.

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