

# THE CORPORATION OF THE TOWN OF LASALLE WATER AND WASTEWATER COMMITTEE MEETING AGENDA

Tuesday, October 9, 2018, 6:15 PM Council Chambers, LaSalle Civic Centre, 5950 Malden Road

			Pages
A.	Call t	o Order	
В.	Discle	osures of Pecuniary Interest and the General Nature Thereof	
C.	Adop	tion of Minutes from Previous Meeting	3
	That	OMMENDATION the meeting of the Water and Wastewater Committee dated July 018 BE ADOPTED as presented.	
D.	Busir	ess Arising from the Minutes	
	None	•	
E.	New	Business	
	1.	MOE Inspection Report 2018	5
		RECOMMENDATION That the report of the Manager of Water and Wastewater dated October 3, 2018 (PW-WWC-07-18) regarding the 2018 MOE inspection report BE RECEIVED.	
	2.	DWQMS 2018 Management Review Meeting Minutes	39
		RECOMMENDATION That the report of the Manager of Water and Wastewater dated October 3, 2018 (PW-WWC-08-18) regarding the DWQMS 2018 Management Review Meeting Minutes BE RECEIVED.	
F.	Next	Meeting	

The next Water and Wastewater Committee meeting will be held on Tuesday

December 11, 2018.

G. Adjournment



#### The Corporation of the Town of LaSalle

#### Minutes of a meeting of the Water and Wastewater Committee Meeting

July 24, 2018, 5:00 p.m. Council Chambers, LaSalle Civic Centre, 5950 Malden Road

Present: Mayor Ken Antaya

Deputy Mayor Marc Bondy Councillor Terry Burns Councillor Crystal Meloche Councillor Michael Akpata Councillor Jeff Renaud

Regrets: Councillor Sue Desjarlais

Also Present: L. Petros, Manager of Water & Waste Water

P. Marra, Director of Public Works

Additional K. Miller, Chief Administrative Officer, J. Milicia, Deputy Administration Treasurer, D. Langlois, Director of Finance/Treasurer, Present: R. Mackie, Superintendent of Water/Wastewater

#### 1. Call to Order

Mayor Antaya calls the meeting to order at 5:00 p.m.

#### 2. Disclosures of Pecuniary Interest and the General Nature Thereof

None Disclosed.

#### 3. Adoption of Minutes from Previous Meeting

Moved By: Crystal Meloche

Seconded By: Jeff Renaud

That the minutes of the meeting of the Water and Wastewater Committee dated May 22, 2018 BE ADOPTED as presented.

Carried.

#### 4. Business Arising from the Minutes

None.

#### 5. New Business

#### 5.1 OCWA Agreement 2019-2023

Moved By: Marc Bondy

Seconded By: Crystal Meloche

That the report of the Manager of Water and Wastewater dated July 18, 2018 (PW-WWC-05-18) regarding the OCWA Agreement 2019-2023 BE RECEIVED and that OWCA continue to maintain the Town's sanitary sewer system and that the agreement be brought to Council for final approval and execution.

Carried.

#### 5.2 Long Range Water Supply for the Town of LaSalle

Moved By: Terry Burns
Seconded By: Jeff Renaud

That the report of the Director of Public Works dates July 16, 2018 (PW-WWC-06-18) regarding the phases, duration and budgets of the long range water supply for the Town BE RECEIVED and that Phase 1 contract BE AWARDED to Stantec Consulting for the approximate amount of \$200,000.

Carried.

#### 6. Next Meeting

The next Water and Wastewater Committee meeting will be held on Tuesday October 9, 2018.

#### 7. Adjournment

The meeting is adjourned at the call of the Chair at 5:14 p.m.

Chair: Mayor Ken Antaya
Deputy Clerk: Linda Jean



#### The Corporation of the Town of LaSalle

Date	October 3, 2018	Report No:	PW-WWC-07-18
Directed To:	Water/Wastewater Committee	Attachments:	~ MOE Water Distribution Inspection Report 2018
Department:	Public Works	Policy References:	
Prepared By:	Lena Petros, CET. Manager of Water and Wastewater		
Subject:	MOE Inspection Report 2018		

#### RECOMMENDATION:

That the committee receives the information on the enclosed MOE inspection report dated July 18, 2018.

#### REPORT:

The Ministry of the Environment (MOE) periodically conducts inspections on licensed drinking water systems. The MOE conducted an inspection of LaSalle's system on July 18, 2018 and the attached provides a summary of their findings, recommendations and our rating.

These findings and recommendations have been implemented.

Respectfully Submitted

Lena Petros, CET.

Manager of Water and Wastewater

CAO	Treasury	Clerks	Public Works	Planning	Cult. & Rec.	Building	Fire



## Ministry of the Environment, Conservation and Parks

## TOWN OF LASALLE DISTRIBUTION SYSTEM Inspection Report

Site Number: Inspection Number:

Date of Inspection:

Inspected By:

220004402

1-ICTQR Jul 18, 2018

Paul Tersteege

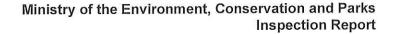


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- Appendix 5 Memo re Haloacetic Acid Sampling





#### OWNER INFORMATION:

**Company Name:** 

LASALLE, THE CORPORATION OF THE TOWN OF

Street Number:

5950

Street Name:

MALDEN Rd LASALLE

City: Province:

ON

Postal Code:

N9H 1S4

#### CONTACT INFORMATION

#### INSPECTION DETAILS:

Site Name:

TOWN OF LASALLE DISTRIBUTION SYSTEM

Site Address:

2170 JUDY RECKER CRT LASALLE N9J 0C3

County/District:

Lasalle

MECP District/Area Office:

Windsor Area Office

**Health Unit:** 

WINDSOR-ESSEX COUNTY HEALTH UNIT

Category:

Large Municipal Residential

Site Number: Inspection Type: 220004402 Announced

Inspection Number:

1-ICTQR

Date of Inspection:

Jul 18, 2018 Aug 30, 2017

Date of Previous Inspection:

#### COMPONENTS DESCRIPTION

Site (Name):

DISTRIBUTION (WATER INSPECTION)

Type:

Other

The Town is the owner and operating authority of a Class 1 water distribution system serving approximately 30,200 residents. The system, which consists of over 200 km of watermains, operates as a single pressure zone.

The Town's system is supplied by the City of Windsor Drinking Water System (DWS No. 220003421) via seven metered and valved interconnections along their northern boundary. Windsor's water treatment plant, which draws its water from the Detroit River, provides primary disinfection using conventional filtration and ozonation. Windsor also uses chlorination to provide secondary disinfection at both their plant and at their J.F. Cook Reservoir and Booster Station.

The Town's system does not include any chlorination facilities. Rather, the Town uses a combination of manual and automated flushing to ensure adequate secondary disinfection is maintained within their distribution system.

Lastly, there are three valved interconnections along their southern boundary with the Town of Amherstburg



#### Ministry of the Environment, Conservation and Parks Inspection Report

Distribution System (DWS No. 210000149). These connections are normally closed. As there has been no occasion to use or test these connections in recent years, the Town wishes to examine them in 2018 to assess their capacity to supply water in an emergency.



#### INSPECTION SUMMARY:

#### Introduction

 The primary focus of this inspection is to confirm compliance with Ministry of the Environment and Climate Change (MOECC) legislation as well as evaluating conformance with ministry drinking water policies and guidelines during the inspection period.

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 report is based on an inspection of a "stand alone connected distribution system". This type of system receives treated water from a separately owned "donor" system. This report contains the elements required to assess key compliance and conformance issues associated with a "receiver" system. This report does not contain items associated with the inspection of the donor system, such as source waters, intakes/wells and treatment facilities.

This report is based on a "focused" inspection of the system. Although the inspection involved fewer activities than those normally undertaken in a detailed inspection, it contained critical elements required to assess key compliance issues. This system was chosen for a focused inspection because the system's performance met the ministry's criteria, most importantly that there were no deficiencies as identified in O.Reg. 172/03 over the past 3 years. The undertaking of a focused inspection at this drinking water system does not ensure that a similar type of inspection will be conducted at any point in the future.

This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

The Officer met with both the Town's Manager and Superintendent of Water on July 18, 2010, to inspect the drinking water system. The inspection had regard for events since the date of the last inspection; however, within that review period, the scope and depth of the Officer's review varied based upon subject matter, and upon whether he identified indicators suggesting a need for a more detailed review.

#### **Treatment Processes**

 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.

While not specific to treatment processes, the Ministry directs Officers to use this opportunity to discuss any alterations to the distribution system. Section 3.0 in Schedule B of Drinking Water Works Permits allows for watermain additions, modifications, replacements and extensions providing owners retain a completed "Form 1 – Record of Watermains Authorized as a Future Alteration" verifying each project has met the requirements listed in Conditions 3.1.1 through 3.1.6.

The Town provided forms documents identifying work completed in the following subdivisions:

- Seven Lakes Estates (Phase 3C)
- Oakdale Trails
- 6th Street
- Donato (Phase 1 & 2)
- Forest Trail Estates (Phase 3)



#### **Treatment Processes**

The work included new services, valves and fire hydrants, as described in the forms, and as depicted in the drawings that accompanied them. Each of the forms, signed off between October 4, 2017 and March 15, 2018, included the requisite verifications by both a Professional Engineer and a representative of the Town.

 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.

Regardless of whether owners provide secondary disinfection themselves, Section 1-5 in O. Reg. 170/03 requires them to ensure the provision of treatment capable of providing a free chlorine residual of 0.2 mg/L at all locations within the distribution system. Further, Section 1-2 requires the free chlorine residual to be maintained at or above 0.05 mg/L. Results below 0.05mg/L must be reported per Subsection 16-3 (1) of O. Reg. 170/03.

The Town provided copies of "Form 3s", the documents operators use to record daily checks from one of a number of extremities in their distribution system. The results indicated the residuals are lowest in the least populated areas in the southwestern and southeastern extremities of the system. However, no results were low enough to be of concern.

The Town also provided copies of "Form 4s", the documents operators use to record pre and post checks when performing hydrant flushing. The results indicated a lone adverse result was detected on March 28, 2018 in a sample collected near the intersection of Bouffard Road and Meloche Street. The starting residual at 8:45am was 0.02 mg/L. After flushing, the residual rose to 1.07 mg/L.

Given the isolated natured of the lone adverse result, the Officer is inclined to believe no further action is required at this time. The Town appears to have an effective flushing program in place. Between the replacement of mains and the existing flushing program, the Town appears to be able to maintain a residual above 0.20 mg/L throughout its distribution system. Further, the Town appears to have successfully identified points requiring additional flushing (e.g., 169 Victory Street) despite the fact that such points would not be intuitively obvious from a casual survey of the distribution system.

#### **Treatment Process Monitoring**

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

To satisfy Section 7-2(3) of O. Reg. 170/03, which requirements regular monitoring of the disinfectant residual in the distribution system, the Town relies upon daily testing of grab samples.

#### **Distribution System**

Existing parts of the distribution system that are taken out of service for inspection, repair or other activities that may lead to contamination, and all new parts of the distribution system that come in contact with drinking water, were disinfected in accordance with Schedule B, Condition 2.3 of the Drinking Water Works Permit, or an equivalent procedure (i.e. the Watermain Disinfection Procedure).

Condition 2.3 in Schedule B of the Municipality's Drinking Water Works Permit requires all new and/or altered equipment to be disinfected using an approved procedure before being put into service. Consequently, the Overall Responsible Operator should ensure records prepared by operators and contractors are detailed enough to allow them to confirm compliance.

With respect to work on distribution systems, Sections 3.0 and 4.0 of the Ministry's Watermain Disinfection Procedure outline the minimum notification and record keeping requirements. The Officer noted most of these requirements were satisfied by the Town's "Watermain Break Repair" form. (All of the breaks he randomly selected for review were Category 1 breaks.)



#### **Distribution System**

Note: Additional information is required for Category 2 breaks, e.g., details regarding any additional disinfection and flushing procedures that were used, etc. That is not to say, all of the additional details need to be documented on one form. E.g., the forms the Ministry requires owners and operators to use for documenting "adverse water quality incidents" should suffice for documenting most notifications. Similarly, sample submission sheets prepared by operators should suffice for documenting the date, time and location of sampling activities.

One possible omission noted by the Officer was related to the requirement to document whether an air gap was maintained until repairs were completed. In contrast, the Town's form asks operators to document whether flow was maintained until an air gap was created. (The requirement for operators to maintain an air gap appears to be understood.)

In addition to documenting the creation of an air gap, the Town's form asks operators to include additional details regarding whether the repair was completed under full, reduced or no water pressure.

The Town indicated it would review its form to determine whether any minor refinements were required to satisfy the Disinfection Procedure and/or their own requirements.

#### **Operations Manuals**

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

Section 28 of O. Reg. 128/04 requires that the operations and maintenance manuals available to operators include plans, drawings and process descriptions sufficient for the safe and efficient operation of the drinking water system. As this drinking water system lacks any treatment facilities, this requirement is limited to the distribution system.

The Town provided a hard copy of their Standard Operating Procedures (SOPs) and Contingency Plans. (Additional print material was also available at the Town's offices.)

The Town advised that copies of their SOPs, etc. are stored on Google Drive, and are available to operators via their tablets. Similarly, "infoLaSalle", the Town's online geographical information system (GIS) is accessible to operators. In addition to the information available to the public via the Internet, additional layers of information are available to operators. This includes a map of the entire distribution system depicting the location and sizes of their watermains, the location of valves (including interconnections with neighbouring drinking water systems), and the locations of their hydrants (colour coded to indicate flow capacity).

The Town indicated a number of as-built drawings have recently been added for their operators' reference. Further, they noted that additional details (e.g., watermain materials) have been loaded on to the Town's GIS, but are not current available to operators.

 The operations and maintenance manuals met the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.

O. Reg. 128/04 focuses on the provision of plans, drawings and process descriptions whereas Municipal Drinking Water Licences impose requirements related to the provision of procedures. As a number of the required elements are addressed within other sections of this report, the Officer's scope was limited to ensuring the availability of procedures prescribing sampling, flushing, valve exercising, hydrant maintenance and responses to complaint and emergencies. The Town's various procedures and contingencies encompassed all of these elements.

#### Logbooks

Logbooks were properly maintained and contained the required information.



#### **Logbooks**

Section 27 of O. Reg. 128/04 requires the provision of logs and/or other record-keeping mechanisms to permit operators to document the operation of drinking water systems. In addition to requiring these records to be retained for a minimum of 5 years, Section 27 addresses content requirements.

The Town advised they and their operators do not maintain a traditional logbook for their distribution system. Rather, they indicated that operators are assigned activities via work orders, and they typically document their activities and observations in forms corresponding to the types of work identified within the orders.

The available documents indicated that the required content is being recorded.

 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.

Pursuant to Section 7-5 in Schedule 7 of O. Reg. 170/03, only qualified personnel appear to be performing operational tests.

#### **Certification and Training**

The overall responsible operator had been designated for each subsystem.

O. Reg. 128/04 prescribes a means for classifying municipal residential drinking water subsystems, and for certifying operators who work at them. Further, Subsection 23 (1) requires owners or operating authorities to designate an operator as the "overall responsible operator" (ORO). To be an ORO, the operator must hold a certificate equal to or higher than the class of the drinking water system for which they are responsible.

During the inspection, the Town noted they had recently hired a new Superintendent. To allow an opportunity to familiarize him with the system, the Town's Manager assumed primary responsibility serving as the ORO. However, the Town noted that this responsibility would revert to the Superintendent's position – except when circumstances required another person to be designated to serve in this capacity. E.g., the Town produced four memos that they had circulated to personnel in the department to advise when a different person was serving as the designated ORO.

Operators in charge had been designated for all subsystems which comprised the drinking-water system.

Subsection 25 (1) of O. Reg. 128/04 requires the appointment of one or more operators-in-charge ("OIC") for each subsystem.

The Town advised they have a number of personnel who are qualified to serve in this capacity. While the person(s) serving as OIC is not recorded on every form in which the Town documents its observations (i.e., Forms 3 and 4 – the forms used to documenting chlorine residual and flushing activities), explicit reference is made to the OIC in Form 9 – the form used to document repairs to watermains.

#### **Water Quality Monitoring**

All microbiological water quality monitoring requirements for distribution samples were being met.

The Summary of Reported Laboratory Results appended to this inspection report is based upon information reported by the laboratories used to test samples collected from this drinking water system. The report is grouped into several summaries reflective of parameter groups considered by Ministry inspections.

While the Officer reviewed several years of data, date filters were used to limit the length of some of the summaries (as indicated on the top right of the header for each). Reported microbiological results indicate operators usually



#### Water Quality Monitoring

collect 10 samples each week. Usually all are tested for E. coli and total coliforms, and 3 are tested for general bacteria (i.e., heterotrophic plate count). Further, they indicate the number of samples collected each month satisfies the minimum requirements prescribed by Section 10-2 in Schedule 10 of O. Reg. 170/03. I.e., for a service population <=100,000, 8 samples + 1 sample per 1,000 people are required monthly (with the collection of at least 1 sample each week).

 All haloacetic acid water quality monitoring requirements prescribed by legislation are being conducted within the required frequency and at the required location.

Effective January 1, 2017, Subsections 13-6.1 (1) and (2) in Schedule 13 of O. Reg. 170/03 require the collection of one set of samples every calendar quarter from a point in distribution system that is likely to have an elevated potential for the formation of haloacetic acids, i.e., usually at a point shortly after disinfection.

Per the attached summary, operators have been collecting the samples at the requisite interval. During the inspection, the Officer indicated that it was his understanding that HAAs peaked in the distribution system closer to the chlorine addition point, and decreased in the extremities of the system. As such, it was his belief that the point used to collect samples for testing HAAs should not necessarily be the same point as that used to collect samples for THMs.

Subsequent to the inspection, the Officer was made aware of the attached email distributed to owners and operators of municipal systems that provides official guidance from the Ministry on this subject.

 All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.

Subsections 13-6 (1) and (2) in Schedule 13 of O. Reg. 170/03 require the collection of one set of samples every calendar quarter from a point in the distribution system that is likely to have an elevated potential for the formation of trihalomethanes. (Before January 1, 2016, O. Reg. 170/03 required the collection of samples at three-month intervals - with no more than 120 days, and no less than 60 days, between samples.)

Several years of reported results for trihalomethanes are included in the attached summary. These results indicate operators have been collecting the samples at the requisite interval from extremities in the distribution system.

 Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.

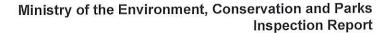
Sampling records indicate operators test the chlorine residual at the same time and location they are collecting microbiological samples, as prescribed by Subsection 6-3 (1) in O. Reg. 170/03.

#### **Water Quality Assessment**

Records did not show that all water sample results taken during the inspection review period did not
exceed the values of tables 1, 2 and 3 of the Ontario Drinking Water Quality Standards (O.Reg. 169/03).

One sample collected on September 11, 2017, and two samples collected on January 15, 2018, tested positive for low levels of Total Coliform, i.e., 1, 5 and 8 cfu/100mL. Note: Over 600 sets of samples have been collected from these three locations since 2008, of which only two others have tested positive to total coliforms. Isolated adverse microbiological results can be indicative of sampling error, and in the absence of other indicators of a problem, should not prompt undue concern regarding the operation of the drinking water system.

One sample collected on February 28, 2018 was mistakenly reported as a "distribution sample". The Officer understands this sample was collected outside of the Town's regular lead testing program. The sample was collected from the plumbing in a private residence following the discovery and replacement of a lead service line. Operators noted that while part of the owner's plumbing had been replaced by copper pipe, part of the plumbing still





#### Water Quality Assessment

consisted of an older style of pipe alloyed with lead.

The result of a "standing sample" was 10.2 ug/L, which is marginally above the limit of 10.0 ug/L. A second sample collected after flushing the fixture had a result of 1.34 ug/L.

In contrast, operators collected four actual distribution samples from sample stations on March 20, 2018. The highest result was 0.09 ug/L, and the average result was 0.06 ug/L. As such, the result for this misidentified sample should not prompt undue concern.

#### **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.

Schedule 17 of O. Reg. 170/03 prescribes generic corrective actions in response to adverse test results and/or indicators of improper disinfection – including consulting with, and taking any additional measures prescribed by the Medical Officer of Health (Health Unit). (If/when applicable, the subject of adverse results identified during community lead testing programs, is addressed within separate bullets within the Reporting and Corrective Actions section of the inspection report.)

The Officer noted initial notifications regarding the detection of total coliforms in samples collected September 11, 2017 and January 15, 2018, were subsequently followed by a Notice of Resolution confirming the corrective action taken by operators.

 Corrective actions as directed by the Medical Officer of Health had been taken by the owner and operating authority to address exceedances of the lead standard.

As stated in the Water Quality Assessment section of this report, a sample collected on February 28, 2018 was mistakenly reported as a "distribution sample". The sample was collected from the plumbing in a private residence following the discovery and replacement of a lead service line. Operators noted that while part of the owner's plumbing had been replaced by copper pipe, part of the plumbing still consisted of an older style of pipe alloyed with lead.

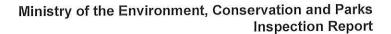
The result of a "standing sample" was 10.2 ug/L, which is marginally above the limit of 10.0 ug/L. A second sample collected after flushing the fixture had a result of 1.34 ug/L.

A "Lead in Drinking Water" fact sheet from the local Health Unit was hand delivered to the resident along with the Certificate of Analysis. With respect to the owner's portion of the service line (i.e., between the curb stop and the house), the Town provided a brief explanation to the resident regarding their responsibility for the plumbing on their property.

 All required notifications of adverse water quality incidents were not immediately provided as per O. Reg. 170/03 16-6.

Schedule 16 of O. Reg. 170/03 requires an immediate verbal report of adverse water quality incidents to the local Health Unit/Medical Officer of Health and to the Ministry's Spills Action Centre. As discussed within the Treatment Processes section of this report, during the review of the Town's flushing records, the Officer noted that operators documented and took corrective action in response to the lone low chlorine residual encountered on March 28, 2018; however, they failed to notify the Ministry and local Health Unit of the same. Upon review, the Town acknowledged the oversight, and pursued this matter with its operators.

Had the event been reported, in light of the corrective action taken, the Officer has no reason to believe the Ministry or Health Unit would have required additional corrective action. Aside from this unfortunate oversight, the Town





#### Reporting & Corrective Actions

appears to have a highly effective flushing program.

As the Town has already reviewed this matter with its operators, no further action is required at this time. The only additional recommendation of the Officer would make is that if they have not already done so, the Town could consider amending the header on their forms to include a reminder regarding reporting low chlorine events.

All changes to the system registration information were provided within ten (10) days of the change.

After drinking water systems were registered, Section 10.1 of O. Reg. 170/03 required owners to notify the Director of any changes to the profile information within 10 days. The Officer provided the attached Drinking Water System Dossier, and asked about any recent changes.

The Town confirmed there were no changes to their contact information. They acknowledge the service population appeared to reflect that identified during the previous census. With respect to growing municipalities, the Officer's expectation is that municipalities update their service population every five years as new census information becomes available.

The primary reason for asking municipalities to do this is to ensure they also update their microbiological sampling program to reflect their growing population. Based on the 2011 census, the Ministry would expect a minimum of 37 samples to be collected each month for E. coli and total coliforms testing. Based on the 2016 census (30,200), the Ministry would expect a minimum of 39 samples.

Note: As the Officer asked the Ministry's registration team to update the population information, no action is required. Further, given the Town typically collects 10 or more samples per week, the growth in population did not result in a compliance concern.



#### 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.

1. All required notifications of adverse water quality incidents were not immediately provided as per O. Reg. 170/03 16-6.

#### Action(s) Required:

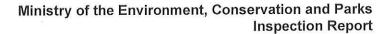
As the Town has already reviewed this matter with its operators, no further action is required at this time. The only additional recommendation of the Officer would make is that if they have not already done so, the Town could consider amending the header on their forms to include a reminder regarding reporting low chlorine events.



#### SUMMARY OF RECOMMENDATIONS AND BEST PRACTICE ISSUES

This section provides a summary of all recommendations and best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following issues and consider measures to address them.

Not Applicable





#### **SIGNATURES**

Inspected By:

Signature: (Provincial Officer)

Paul Tersteege

124 ter steege

Reviewed & Approved By:

Signature: (Supervisor)

Marc Bechard

Mare Berhard 2018.09.14 15:24:36-04'00'

Review & Approval Date:

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 1 - Inspection Summary Rating Record**

## Ministry of the Environment - Inspection Summary Rating Record (Reporting Year - 2018-2019)

DWS Name: TOWN OF LASALLE DISTRIBUTION SYSTEM

**DWS Number:** 220004402

DWS Owner: Lasalle, The Corporation Of The Town Of

Municipal Location: Lasalle

Regulation: O.REG 170/03

Category: Large Municipal Residential System

Type Of Inspection: Adhoc

Inspection Date: July 18, 2018
Ministry Office: Windsor Area Office

#### **Maximum Question Rating: 241**

Inspection Module	Non-Compliance Rating
Treatment Processes	0 / 25
Distribution System	0 / 21
Operations Manuals	0 / 28
Logbooks	0 / 18
Certification and Training	0 / 14
Water Quality Monitoring	0 / 51
Reporting & Corrective Actions	21 / 63
Treatment Process Monitoring	0 / 21
TOTAL	21 / 241

Inspection Risk Rating 8.71%

FINAL INSPECTION RATING: 91.29%

#### Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2018-2019)

**DWS Name:** TOWN OF LASALLE DISTRIBUTION SYSTEM

**DWS Number:** 220004402

**DWS Owner:** Lasalle, The Corporation Of The Town Of

Municipal Location: Lasalle

Regulation: O.REG 170/03

Category: Large Municipal Residential System

Type Of Inspection: Adhoc

Inspection Date: July 18, 2018
Ministry Office: Windsor Area Office

Non-compliant Question(s)	Question Rating
Reporting & Corrective Actions	
Were all required verbal notifications of adverse water quality incidents immediately provided as per O. Reg. 170/03 16-6?	21
TOTAL QUESTION RATING	21

Maximum Question Rating: 241

Inspection Risk Rating 8.71%

FINAL INSPECTION RATING: 91.29%



## **Appendix 2 - Map of Distribution System**





## **Appendix 3 - Summaries of Reported Sample Results**

## Summaries of Results Reported for a Regulated Drinking Water System



Name	Town Of Lasalle Distribution System	
Municipality	Lasalle	
Health Unit	Windsor-Essex County Health Unit	
MOECC office	Windsor Area Office	

ID number	220004402	
Regulation	O.REG 170/03	
Category	LMRS	
Last Sample	05-Jun-2018	

#### **Microbiological Summaries**

#### Number of Microbiological Results Reported – Grouped by Month

Collected between Sep 1, 2017 and May 31, 2018

		Raw \	Nater	Treated Water			Distributed Water		
Year	Month	EC	TC	EC	TC	HPC	EC	TC	HPC
2017	Sep						46	46	12
	Oct						40	40	13
	Nov						40	40	12
	Dec			Few Long			40	40	12

		Raw Water		Treated Water			Distributed Water		
Year	Month	EC	TC	EC	TC	HPC	EC	TC	HPC
2018	Jan						61	61	26
	Feb						40	40	12
	Mar						40	40	12
	Apr				المالية المراد		40	40	13
	May						52	52	18

#### All Microbiological Results on Dates with an Exceedance

Collected between Jan 1, 2006 and May 31, 2018

Sampled	Sample Type	Parameter	Sample Result
09-May-2006	Distributed Drinking Water	Heterotrophic Plate Count (Hpc)	>500 cfu/mL
30-Oct-2006	Distributed Drinking Water	Heterotrophic Plate Count (Hpc)	>500 cfu/mL
23-Apr-2007	Distributed Drinking Water	Total Coliform	135 cfu/dL
•	Distributed Drinking Water	Total Coliform	46 cfu/dL
29-Mar-2010	Distributed Drinking Water	Total Coliform	2 cfu/dL
11-Oct-2011	Distributed Drinking Water	Total Coliform	1 cfu/dL
19-Oct-2015	Distributed Drinking Water	Total Coliform	4 cfu/dL
16-Nov-2015	Distributed Drinking Water	Total Coliform	6 cfu/dL
04-Jul-2016	Distributed Drinking Water	Total Coliform	28 cfu/dL
05-Jul-2017	Distributed Drinking Water	Total Coliform	3 cfu/dL
11-Sep-2017	Distributed Drinking Water	Total Coliform	1 cfu/dL
15-Jan-2018	Distributed Drinking Water	Total Coliform	5 cfu/dL
	Distributed Drinking Water	Total Coliform	8 cfu/dL

#### **Chemical Summaries**

#### **Total Trihalomethanes**

Collected between Jan 1, 2014 and May 31, 2018

Year	Quarter	Sampling Date	Result
2014	1	Jan 13	20.8 ug/L
	2	Apr 15	21.2 ug/L
	3	Jul 21	30.3 ug/L
	4	Oct 1	33.1 ug/L
	Ann	ual Average	26.4 ug/L
2015	1	Feb 10	12.7 ug/L
	2	Apr 13	19.1 ug/L
	3	Jul 20	33.9 ug/L
	4	Oct 5	43.5 ug/L
	Ann	ual Average	27.3 ug/L
2016	1	Jan 11	11.1 ug/L
	2	Apr 11	18.3 ug/L
	3	Jul 11	32.5 ug/L
	4	Oct 11	33.3 ug/L
	Annual Average		23.8 ug/L
2017	1	Jan 16	13.3 ug/L
	2	Apr 18	18.5 ug/L
	3	Jul 17	22.2 ug/L
	4	Nov 21	19.7 ug/L
	Ann	ual Average	18.4 ug/L
2018	1	Jan 30	11.7 ug/L
	2	Apr 23	18.4 ug/L
	Ann	ual Average	15.1 ug/L

Note: Where reported results suggest a possible concern, compliance with the applicable limit for trihalomethanes should be based upon a running average of results collected in the current quarter (A) and the three preceding quarters (B through D). Where one sample is collected each quarter, the running average for the current quarter equals  $[A + B + C + D] \div 4$ 

Where multiple samples are collected each quarter, the running average for the current quarter equals  $[Avg(A_1..A_x) + Avg(B_1..B_x) + Avg(C_1..C_x) + Avg(D_1..D_x)] \div 4$ 

#### **Total Haloacetic Acids**

Collected between Jan 1, 2017 and May 31, 2018

Year	Quarter	Sampling Date	Result		
2017	1	Jan 16	5.3 ug/L	<mdl< th=""></mdl<>	
	2	Apr 18	5.3 ug/L	<mdl< td=""></mdl<>	
	3	Jul 17	20.1 ug/L		
	4	Nov 21	6.0 ug/L		
	Ann	ual Average	9.2 ug/L		
2018	1	Jan 30	5.3 ug/L	<mdl< td=""></mdl<>	
	2	Apr 23	5.5 ug/L		
	Ann	ual Average	5.4 ug/L		

#### **Lead Summaries**

#### Lead and Alkalinity

Collected between Dec 15, 2007 and May 31, 2018

Sam	pling	Lead - I	Distribution	Results	Lead -	Plumbing F	Results*	Alkalinity - Distribution Res		on Results
	riod	Num of	Avg	Max	Num of	Avg	Мах	Num of	Avg	Max
Start	End	Results	(ug/L)	(ug/L)	Results	(ug/L)	(ug/L)	Results	mg/L as Ca	CO3
01-Jan-06	14-Dec-07	3	0.23	0.38	0			0		
15-Jun-08	15-Oct-08	29	0.27	2.19	134	1.63	27.80	25	79.92	86.00
15-Dec-08	15-Apr-09	14	0.34	2.04	136	6.37	442.00	11	91.36	96.00
15-Jun-09	15-Oct-09	13	0.45	1.59	132	0.95	8.01	12	79.50	83.00
15-Dec-11	15-Apr-12	7	0.21	0.56	66	1.45	22.50	7	91.43	102.00
15-Jun-12	15-Oct-12	8	0.76	1.46	66	2.67	127.00	8	74.00	79.00
15-Dec-12	15-Apr-13	0			0			4	91.00	99.00
15-Jun-13	15-Oct-13	0			0			4	77.25	81.00
15-Dec-13	15-Apr-14	0			0			4	86.50	90.00
15-Jun-14	15-Oct-14	0			0	MAISH		4	86.25	89.00
15-Dec-14	15-Apr-15	4	0.12	0.33	0			4	84.75	90.00
15-Jun-15	15-Oct-15	4	0.22	0.30	0		ALCO LAB	4	84.50	95.00
15-Dec-15	15-Apr-16	0		A STATE OF	0			4	91.00	97.00
15-Jun-16	15-Oct-16	4	0.07	0.09	0			4	78.50	80.00
15-Dec-16	15-Apr-17	0		10.00	0			4	83.75	88.00
15-Jun-17	15-Oct-17	0			0			4	80.50	83.00
15-Dec-17	15-Apr-18	6	1.96	10.20	0			4	90.00	92.00

<sup>\*</sup> Note: Two samples are to be collected for lead testing from each point of plumbing being assessed, i.e., per Section 15.1-7 of O. Reg. 170/03. Therefore, the number of points being tested should be half of the number of samples reported.

#### **Lead Exceedances**

Collected between Dec 15, 2007 and May 31, 2018

Sampl	ing			
Date	Time	Sample Type	Sample Submission ID	Result
18-Jun-2008	1:40 pm	Plumbing Drinking Water	CA15186-JUN08	23.3 ug/L
18-Jun-2008	1:41 pm	Plumbing Drinking Water	CA15186-JUN08	27.8 ug/L
09-Jul-2008	1:35 pm	Plumbing Drinking Water	CA17679-JUL08	19.3 ug/L
09-Jul-2008	1:36 pm	Plumbing Drinking Water	CA17679-JUL08	19.2 ug/L
21-Jan-2009	2:37 pm	Plumbing Drinking Water	CA16291-JAN09	184 ug/L
21-Jan-2009	2:38 pm	Plumbing Drinking Water	CA16291-JAN09	442 ug/L
30-Jan-2009	2:46 pm	Plumbing Drinking Water	CA18325-FEB09	46.7 ug/L
30-Jan-2009	2:47 pm	Plumbing Drinking Water	CA18325-FEB09	89.5 ug/L
03-Feb-2009	10:10 am	Plumbing Drinking Water	CA18365-FEB09	14.4 ug/L
01-Feb-2012	11:45 am	Plumbing Drinking Water	CA14371-FEB12	22.5 ug/L
01-Feb-2012	11:46 am	Plumbing Drinking Water	CA14371-FEB12	19.7 ug/L
28-Sep-2012	2:12 pm	Plumbing Drinking Water	CA17192-OCT12	127 ug/L
28-Feb-2018	7:20 am	Distributed Drinking Water	B18-05174	10.2 ug/L

#### **Laboratory Summaries**

#### Laboratories Providing Testing Services to the Drinking Water System First and Last Sample Summarized by Parameter Group

			Parameter Group				
Lab Licence	Laboratory		Micro- biological	Organic Chemical	Inorganic Chemical	Chemical/ Physical	Other
Unknown	nown Enwin Laboratories And Water Research Centre		Jan-06	May-06			4003
License		Last Sample	Mar-07	Nov-06			
Unknown	Als Laboratory Group - Environmental Division (Waterloo)	First Sample	Jan-06	May-06			
License		Last Sample	Mar-07	Nov-06			
2209	Sgs Environmental Services - London	First Sample	Mar-07				
		Last Sample	Mar-07				Tistan
2276	Caduceon Environmental Laboratories - Windsor	First Sample	Mar-07				
		Last Sample	Jun-18				
2232	Caduceon Environmental Laboratories - Holly Lane	First Sample		May-07	May-07		
		Last Sample		Apr-18	Feb-18		
2206	Sgs Environmental Services - Lakefield	First Sample		Jan-17	Jun-08	Jun-08	
		Last Sample		Apr-18	Mar-18	Mar-18	
2250	Caduceon Environmental Laboratories - Kingston	First Sample	Sep-08				
		Last Sample	Sep-08			(OR FEED AS A	
2196	E3 Laboratories Inc Niagara-On-The-Lake	First Sample	Apr-09				
		Last Sample	Apr-09				



## Appendix 4 - Drinking Water System Dossier - Extracts

## 021 - Drinking Water System Dossier for 220004402

**Drinking Water System Profile Information** 

220004402 DWS# Registration Date (yyyy/mm/dd) 2002/09/18 Active DWS **DWS Status** 

DWS Expiry Date (yyyy/mm/dd)

**MOE Assigned Name** Town Of Lasalle Distribution System

**LMRS** Category

**Regulation Short Name** O.REG 170/03 **Distribution System DWS Type** Distribution Source Type

2170 Judy Recker Court, Lasalle, Ontario, N9J 0C3, Canada **Address** 

Southwestern Region Region Windsor Area Office District

Lasalle Municipality

Windsor-Essex County Health Unit **Public Health Unit** 

DWS OPERATIONAL INFORMATION

**Concession Plan Number** 

Lot

**Geographic Township** 

28,700 Population:

**Number of Private Residences: Number of Service Connections:** 

277.8 Rated Daily Capacity (L/S) Number of DFs Served:

Complete LSN LSN Compliance Status:

Lasalle Police Service 24 Hour Recorded Line 24/7 Contact p: (519)9694143, f: (519)9692662, e: -, c: -, pg: -24/7 Contact Info

DWS OWNER INFORMATION

Lasalle, The Corporation Of The Town Of **Owner Legal Name** Lasalle, The Corporation Of The Town Of **Owner Business Name** 5950 Malden Rd ,Lasalle,ON,N9H 1S4 **Owner Address** Lena Petros, Manager Of Water & Wastewater

**Owner Contact** 

p: (519)9697770 x4143, f: (519)9690070, e: lpetros@lasalle.ca **Owner Contact Info** 

Peter Marra, Director Of Public Works **Owner Alternate Contact** 

p: (519)9697770 x1475, f: (519)9690070, e: pmarra@lasalle.ca **Owner Alternate Contact Info** 

DWS OPERATING AUTHORITY INFORMATION

Lasalle, The Corporation Of The Town Of **Op. Authority Legal Name** Lasalle, The Corporation Of The Town Of **Op. Authority Business Name** 5950 Malden Rd , Lasalle, ON, N9H 1S4 **Op. Authority Address** Lena Petros, Manager Of Water & Wastewater **Op. Authority Contact** 

p: (519)9697770 x4143, f: (519)9690070, e: lpetros@lasalle.ca **Op. Authority Contact Info** 

Peter Marra, Director Of Public Works **Op. Authority Alternate Contact** 

Op. Authority Alternate Contact Info p: (519)9697770 x1475, f: (519)9690070, e: pmarra@lasalle.ca

## 021 - Drinking Water System Dossier for 220004402

Supplying DWS #	Supplying DWS Name	Supplying DWS Category	How is Water Supplied?
220003421	City Of Windsor Drinking Water System	LMRS	Continuously



## Appendix 5 - Memo re Haloacetic Acid Sampling

Ministry of the Environment and Climate Change

Compliance, Promotion and Support Branch

2<sup>nd</sup> floor 40 St, Clair Ave West Toronto ON M4V 1M2 Ministère de l'Environnement et de l'Action en matière de changement climatique

Direction de la promotion de la conformité et du soutien

2<sup>èrno</sup> étage 40, avenue St. Clair Ouest Toronto (Ontario) M4V 1M2



May 9, 2018

Re: Haloacetic Acids (HAAs) Sampling Concerns

Municipal Drinking Water System Owners/Operators,

The purpose of this document is to clarify ministry guidance for HAAs sampling. HAAs are disinfection by-products (DBPs) that are formed when dissolved organic matter reacts with chlorine which is added for the purpose of disinfection. Detailed information on HAAs can be found in "Health Canada (2008) Guidelines for Canadian Drinking Water Quality: Guideline Technical Document — Haloacetic Acids".

HAAs are a collection of several different compounds. The haloacetic acids most commonly found in drinking water are monochloroacetic acid (MCA), dichloroacetic acid (DCA), trichloroacetic acid (TCA), monobromoacetic acid (MBA) and dibromoacetic acid (DBA). Total HAAs is the sum of these five haloacetic acids. The HAAs most commonly found in the distribution system of drinking water systems are TCA and DCA. However the presence of bromide ions can result in the formation of MBA and DBA.

Volatilization of HAA is not expected in the distribution system as HAAs have low vapour pressure and high water solubility. TCA appears to be the most persistent HAA followed by DCA and then MCA.

#### Factors influencing the creation of HAAs

The levels of DBPs formed depend on many water quality parameters and operating conditions. In the case of HAAs, higher precursor concentrations (synthetic and natural organic matter, bromide ion) in the raw water, chlorine dose, chlorination pH, water temperature and the residence time will influence the type (THMs, HAAs, etc.) and the levels of DBPs formed. Studies found that surface water sources are more likely to produce higher HAAs than ground water sources.

HAAs concentrations are found to be higher in the distribution system, usually just after the chlorination process. Health Canada studies performed in 2002 and 2003 indicated that concentration of HAAs peaked in the distribution system closer to the chlorine addition point and decreased in the extremities of the system. Furthermore, the location of peak HAA values in a distribution system tends to change throughout the year, it is likely to be closer to the chlorine addition point in the summer and fall and further away from the point in the winter and spring. Precipitation and runoff events can also affect DBPs.

#### Sampling Points for HAAs

The ministry has recognized that more than one sampling location may be needed to characterize the HAAs levels throughout a municipal distribution system. HAA concentrations

can vary within and between distribution systems and so monitoring samples should be taken at points in the "middle" of the distribution system (i.e. an average water age, post re-chlorination). In light of the recently introduced HAAs standard of 80 µg/L, which will come in to force on January 1, 2020, the following guidance should be used in developing your monitoring program:

- As a general rule, all samples described below should be obtained from a sampling point where the free (combined) chlorine residual concentration is maintained over 0.2 mg/L (1.0 mg/L) respectively.
- First year of sampling: A system's established THM sampling point may be appropriate
  provided the chlorine concentrations are as described in item 1. If the residual is below
  the concentrations listed, use a nearby sampling point that meets the recommended
  residual.
- 3. Second year of sampling (recommended order of selection):
  - a. Where a system re-chlorinates via a booster station, samples should be obtained in the distribution system after the booster station.
  - b. If the system does not have booster stations, but has storage facilities where rechlorination occurs, the sampling should be at points after the storage facilities.
  - c. If the system does not re-chlorinate, but has storage the sampling should be at points after the storage facilities.
  - d. If the system does not re-chlorinate nor have storage, obtain the sample from another point in the distribution system.
- 4. Third year of sampling:
  - a. If neither of the running annual averages for HAAs calculated (after year one and two) were higher than one-half of the standard (40 µg/L), the sampling point used in the first year of sampling can be used for compliance in future years.
  - b. If one of the running annual averages is over 40 μg/L, the municipality is required to choose a third sampling point using the same criteria as the second year, and obtain samples from this sampling point for the third year. The municipality will then be required to sample from the point which had the highest individual sample result for future years.

The outlined sampling plan is intended to be flexible and recognizes that municipalities have been sampling for HAAs since 2017.

Questions can be directed to: drinking.water@ontario.ca.

Cammy Mack

Director, Compliance, Promotion and Support Branch Ministry of the Environment and Climate Change



#### The Corporation of the Town of LaSalle

Date	October 3, 2018	Report No:	PW-WWC-08-18		
Directed To:	Water/Wastewater Committee	Attachments:	~ Management Review meeting minutes		
Department:	Public Works	Policy References:			
Prepared By:	Lena Petros C.E.T. – Manager of Water/	Wastewater			
Subject:	DWQMS 2018 Management Review Meeting Minutes				

#### RECOMMENDATION:

That the Committee receive the information.

#### **REPORT:**

Management review meetings occur annually to review a number of items relating to the DWQMS for the Town's drinking water system.

Enclosed is a copy of the 2018 Management Review Meeting Minutes for the Committee to receive for information. There are a number of items that require attention and a responsible person and a due date has been established on each item.

Respectfully Submitted

Lena Petros, C.E.T.

Manager of Water/Wastewater

CAO	Treasury	Clerks	Public Works	Planning	Cult. & Rec.	Building	Fire

#### **DWQMS Management Review Committee** LaSalle Public Works

Date:

September 17, 2018

Location:

LaSalle Public Works Building Board room

Participants:

Rob Mackie

Superintendent of Water/Wastewater, QMS Rep.

Lena Petros

Manager of Water/Wastewater, QMS Rep.

Jay Wigle

Water/Wastewater Leader

Shawn Donlon

Wastewater/Water Leader

Distribution: All Participants, Owner Representative

Prepared by: Lena Petros – Manager of Water/Wastewater, QMS Rep.

Item	Description	Action	Resp. Person	Due Date
1	Acceptance of Agenda	Accepted		
2	Acceptance of Minutes of Previous Meeting	Accepted		
3	Incidents of regulatory non-compliance:			
	One incident of regulatory non-compliance was noted during MOE inspection.	NAR		
	MOE Inspection Report dated July 18, 2018 was reviewed during this meeting.			
	All recommendations from the inspection report have been completed.			
4	Incidents of adverse drinking water tests:			
	2 incidents of adverse drinking water (presence of total coliforms). Corrective actions were taken in accordance to Ministry of Health Unite directions	NAR		
5	Deviations from critical control limits and response actions:			
	No deviation from critical control limits	NAR		

Item	Description	Action	Resp. Person	Due Date
6	The efficacy of the risk assessment process:	NAR		
	Please refer to item 20			
7	Internal and external audit results:			
	Internal audit report dated October 18, 2017 was reviewed during December 12, 2017 Water & Wastewater Committee meeting.	NAR QMS Rep. responded to all internal audit		
	External Audit report dated November 17, 2017 was reviewed during December 12, 2017 Water & Wastewater Committee meeting.	findings and made appropriate revisions		
8	Results of emergency response testing:			
	August 15, 2018, SOP 5 Fire Hydrant Flushing Procedure and chlorine residual adverse reporting was reviewed with staff	NAR		
9	Operational performance:			
	Backflow prevention program to continue in 2018.	4		
	No RP backflow on third hydrant hookup	Contact supplier	Rob Mackie	4 <sup>th</sup> quarter
	Electronic work order system still in progress, issues with mobile application, meeting with City Wide Works scheduled on Sep 20, 18 to go over deficiencies.	Follow up with City Wide Works on full implementation	Lena Petros	1 <sup>st</sup> quarter 2019
	Hydrant Maintenance, most of old LaSalle is completed			
10	Raw water supply and drinking water quality trends:			
	Meeting with Enwin took place on September 10, 2018, discussed Regulatory, water system operation, financial, and capital programs.	NAR		×

Item	Description	Action	Resp. Person	Due Date
11			reison	Date
	Follow-up on action items from previous Management Reviews:			
	Town owned pressure testing and chlorinating equipment	Purchase necessary equipment	Rob Mackie	4 <sup>th</sup> quarter 2018
12	The status of management action items identified between reviews:			
	None	NAR		
13	Changes that could affect the QMS:			
	2018 municipal elections	Re-endorsement of OP	Lena Petros	1 <sup>st</sup> quarter 2019
14	Consumer feedback:			
	Total number of water main breaks for 2017 was 26	NAR		
	Only 3 dirty water calls due to hydrant maintenance program were received for 2018			
	Positive feedback from residents on leak detection services through The Town's new meter reading data.			
15	The resources needed to maintain the QMS:			
	None	NAR		
16	The results of the infrastructure review:	9		
	Victory St. 6" watermain by front Rd. low chlorine	NAR		
	List of water main replacement based on number of main breaks has been reviewed as part of this meeting. Consideration was also given for the outcome of the risk assessment process under Element 8 of the OP.			

Item	Description	Action	Resp. Person	Due Date
	operations and Capital recommendations to be presented at budget sessions in December 2018	r.		
17	Operational Plan currency, content and updates:  Current Operational Plan revision # 10	NAR		
18	version 2.0  Staff suggestions:			
	Issues with City Wide Works mobile application.	New mobile application reliability	Lena petros	1 <sup>th</sup> quarter 2019
	Tracer wire on PVC water services, property line to meter to be visible as part of requirements for building department inspection	NAR		
19	Review of List of Essential Supplies/Services/Emergency Contacts for the Town of LaSalle			
	The list was reviewed, no updates required	NAR		
20	Risk assessment and risk assessment outcome (Procedure 2) verification and update			ot :
	The risk assessment review meeting took place as part of this meeting and changes to Procedure 2 table 1 is required	Updates as per item 17	Lena Petros	4th quarter 2018

NAR - No Action Required

**OP** – Operational Plan

IA – Internal Audit

EA – External Audit