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

rvation and Parks Protection de la nature et des Parcs



Drinking Water and Environmental Compliance Division

Division de la conformité en matière d'eau potable et d'environnement

Central Region

Région du Centrel

**Barrie District Office** 1201-54 Cedar Pointe Drive

Barrie ON L4N 5R7 Tel: (705) 739-6441 1-800-890-8511 Fax: (705) 739-6440 Bureau du district de Barrie 1201-54

Ministère de l'Environment de la

chemin Cedar Pointe Barrie ON L4N 5R7 Tél: (705) 739-6441 1-800-890-8511 Téléc: (705) 739-6440

November 21, 2023

Attention: Zach Drinkwalter Township of Ramara CAO

Re: 2023 Drinking Water Inspection Report Park Lane Subdivision Distribution System

Please find enclosed the Ministry of the Environment, Conservation and Parks Inspection Report Park Lane Subdivision DWS (Drinking Water System #220007132) inspection. The compliance assessment took place on June 27, 2023.

The primary focus of this inspection was to confirm compliance with Ministry of the Environment, Conservation and Parks 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.

Section 19 of the Safe Drinking Water Act (Standard of Care) creates a number of obligations for individuals who exercise decision-making authority over municipal drinking water systems. Please be aware that the Ministry has encouraged such individuals, particularly municipal councillors, to take steps to be better informed about the drinking water systems over which they have decision-making authority. These steps could include asking for a copy of this inspection report and a review of its findings. Further information about Section 19 can be found in "Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils" found under "Resources" on the Drinking Water Ontario website at www.ontario.ca/drinkingwater.

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 and risk experts.

The Inspection Summary Rating Record (IRR), included as Appendix A of the inspection report, provides the Ministry, the system owner and the associated 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 Sheri Broeckel, Drinking Water Program Supervisor, at 1 (705) 716-3712.

If you have any questions or concerns regarding this inspection report, please contact the undersigned.

Carly Munce





PARK LANE SUBDIVISION DRINKING WATER SYSTEM 7992 PARK LANE CRES, RAMARA, ON, LOK 2B0

# INSPECTION REPORT

System Number: 220007132

Entity: CORPORATION OF THE

TOWNSHIP OF RAMARA

Inspection Start Date: June 27, 2023

Inspection End Date: November 17, 2023

Inspected By: Carly Munce

Badge #: 1945

Ministry of the Environment, Conservation and Parks

Ministère de l'Environnement, de la Protection de la nature et des Parcs



Carly Muncs
(Asignature)



# **INTRODUCTION**

# Scope

The Park Lane Subdivision Drinking Water System serves an estimated population of 50 people. The drinking water system is owned by the Corporation of the Township of Ramara and operated by the Ontario Clean Water Agency (OCWA). The Park Lane Subdivision Drinking Water System is categorized as a small municipal residential drinking water system, as defined by Ontario Regulation 170/03 and operates under drinking water system (DWS) number 220007132. The Park Lane Subdivision Drinking Water System consists of 2 wells, treatment equipment, three distribution sample points, one in the old pumphouse and one at each end of the distribution system, along with blow offs. Treatment is provided by chlorination for primary and secondary disinfection. In April 2016 a 63 m3 capacity standpipe was installed to achieve contact time prior to water being directed to the distribution system. Sodium hypochlorite is also used for iron oxidation and potassium permanganate is used for iron and manganese oxidation. Green sand filters remove the oxidized iron and manganese. There are no storage structures within the distribution system. The distribution system consists of approximately 125 m of 50 mm diameter polyethylene watermain. The drinking water inspection included: physical inspection of the treatment equipment and facility; interviews with OCWA staff; and a review of relevant documents and data from the period of June 28, 2022, to June 27, 2023 (hereafter referred to as the "inspection review

# **Facility Contacts and Dates**

The DWS is owned by Ramara township and operated by the OCWA Ontario Clean Water Agency

The Owner/Operator ensures that all of their employed operational staff hold at least the minimum required certification(s) to operate and maintain the DWS in accordance with O. Reg. 170/03.

Required regulatory training for operational staff is monitored and ensured by the Owner/Operator.

The Simcoe Muskoka District Health Unit (SMDHU) acts as the local Medical Officer of Health (MOH).

# Systems/Components

The Park Lane distribution system is designed to service 19 residential lots and the system is categorized as a Small Municipal Residential system as defined by Ontario Regulation 170/03. The distribution system is comprised of approximately 375 metres of 50 millimetre poly-vinyl chloride water main, isolation valves, two blow-offs and three designated sampling stations. Park Lane Production Well #2 was added to the system to provide a back-up water supply for

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the existing residential development and satisfies a

recommendation put forth in the First Engineer's Report. Park Lane Production Well #2 is located approximately five metres north of the new pumphouse at 7995 Park Lane Crescent, and is equipped with a ¾ horsepower submersible deep well pump with a rated capacity of 66 Litres/minute installed at a depth of 20 metres. The well is situated within a residential subdivision approximately 230 metres from the Black River. The well is located in an area which is unlikely to be susceptible to flooding, and the contour of the immediately adjacent properties is such that surface water would be directed away from the well casing. According to the 'Construction and Testing of Well #2 Report' prepared by Dixon Hydrogeology dated September 2003, Well #2 was constructed in a

crystalline bedrock aquifer which is under confined artesian conditions, in 2002 by Baldwin Well Drilling of Kirkfield. The well was drilled to a depth of 27 metres below ground level. During testing, cascading of water was not noticed, indicating the upper portion of the bedrock does not contribute water to the well. The 152 millimetre casing is set to 12 metres depth and the annulus was reportedly sealed with benseal grout to a similar depth. The below grade connection is made by a pitless adapter. The well cap is secure and locked to the casing, screened, sealed and vermin proof. The casing extends approximately 55 centimeters above grade.

Park Lane Production Well #1 is located within the former pumphouse at 7992 Park Lane Crescent, and is equipped with a submersible deep well pump with a rated capacity of 68 L/min. The well and former pumphouse are situated within a residential subdivision approximately 230 metres from the Black River. The well is located in an area which is unlikely to be susceptible to flooding, and the contour of the immediately adjacent properties is such that surface water would be directed away from the pumphouse. According to the First Engineer's Report, Well #1 was constructed in 1973 by Snider Drilling of Craighurst (License No. 4816). The well is 61 metres deep and is constructed in a crystalline bedrock aquifer which is under confined artesian conditions. The well is constructed with 3.1 metres of 178 millimetre diameter casing grouted into the rock. Although Water Well Records for Well #1 do not identify where water bearing fractures are in the bedrock, water could not be heard trickling into the well bore at the time of the First Engineer's Report, indicating the upper portion of the bedrock does not contribute water to the well. The above grade connection is made by a pitless adapter, making the well more accessible for inspection. The well cap is aluminum, bolted and locked to the casing, screened, sealed and vermin proof. The casing extends approximately 50 cm above the floor of the pumphouse.

Raw water from Wells #1 and #2 enter the pumphouse through two separate 50 millimetre raw water headers. Each raw water header is equipped with an ABB magnetic flow meter used for measuring raw water flows and a smoothbore raw water sample tap. A pre-chlorination system is connected to each raw water header, assisting with iron and manganese oxidation prior to filtration. After passing through the flow meters, the water then combines into a single header where it passes through another flow meter that controls the sodium hypochlorite injection system. Two 453 litre hydropneumatics pressure tanks maintain pressure in the piping when the

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well pumps are off. In order to improve treatability of the raw water, an iron and manganese removal system has been installed. The system consists of a 60 litre solution tank in a secondary containment basin, two potassium permanganate metering pumps (one duty, one stand-by) complete with 4-20 mA control, automatic switchover and contact outputs for alarm notification of duty pump

failure, and two feed lines discharging into the combined pre-treated water header upstream of an in-line mixer.

# **Permissions/Approvals**

Drinking Water Works Permit (DWWP) 147-202 Issue 4 Febuary 4, 2022 Municipal Drinking Water Licences (MDWL) 147-102 Issue 5 September 22, 2022

# **Background and Compliance**

This Drinking Water System is Inspected every year, the last inspection was June 28, 2022. No no compliance waas found in this inspection.

There were no Provincial Officer Orders (POOs) in effect for the DWS during the inspection period.

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# **NON-COMPLIANCE**

The following item(s) have been identified as non-compliance, based on a "No" response captured for a legislative question(s). For additional information on each question see the Inspection Details section of the report.

Ministry Program: DRINKING WATER | Regulated Activity: DW Municipal Residential

Item	Question	Compliance Response/Corrective Action(s)
NC-1	Question ID: DWMR1016000  Is the owner in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the MDWL issued under Part V of the SDWA?	The owner was not in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the Municipal Drinking Water Licence issued under Part V of the SDWA.  Table 1 of Schedule C of Municipal Drinking Water Licence 147-102 Issue Number 4 states that the rated capacity for Park Lane Subdivision Drinking Water System is 50 m3/day. Table 2 of Schedule C of Municipal Drinking Water Licence 147-102 Issue Number 4 states that the maximum flow rate for Well No. 1 is 68 L/min and the maximum flow rate for Well No. 2 is 68 L/min. On December 12,2022 the mini standpipe overflowed a review of the raw water flows during this time indicate that 56 m3 (56,000L)were taken on December 12 and 71 m3(71,000L) were taken on December 13, 2022. Typical in 2022, daily water taking for this site is on average 11.5 m3/day. This exceeds the maximum flow rates permitted by the Licence.  No further action required as the exceedances were limited to two dates in December 2022.

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### **RECOMMENDATIONS**

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

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# **INSPECTION DETAILS**

This section includes all questions that were assessed during the inspection.

Ministry Program: DRINKING WATER | Regulated Activity: DW Municipal Residential

Question ID	DWMR1001000	<b>Question Type</b>	Information	
Legislative Requestion Not Applicable	Legislative Requirement(s): Not Applicable			
Question: What was the sco	• •			

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks (MECP) legislation as well as evaluating conformance with ministry drinking water policies and guidelines during the inspection period. The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as 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 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 Park Lane Subdivision Drinking Water System serves an estimated population of 50 people. The drinking water system is owned by the Corporation of the Township of Ramara and operated by the Ontario Clean Water Agency (OCWA). The Park Lane Subdivision Drinking Water System is categorized as a small municipal residential drinking water system, as defined by Ontario Regulation 170/03 and operates under drinking water system (DWS) number 220007132.

The Park Lane Subdivision Drinking Water System consists of 2 wells, treatment equipment, three distribution sample points, one in the old pumphouse and one at each end of the distribution system, along with blow offs. Treatment is provided by chlorination for primary and secondary disinfection. In April 2016 a 63 m3 capacity standpipe was installed to achieve contact time prior to water being directed to the distribution system. Sodium hypochlorite is also used for iron oxidation and potassium permanganate is used for iron and manganese oxidation. Green sand filters remove the oxidized iron and manganese.

There are no storage structures within the distribution system. The distribution system consists of approximately 125 m of 50 mm diameter polyethylene watermain.

The drinking water inspection included: physical inspection of the treatment equipment and facility; interviews with OCWA staff; and a review of relevant documents and data from the period of June 28, 2022, to June 27, 2023 (hereafter referred to as the "inspection review

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period"). The previous inspection of the Park Lane Subdivision Drinking Water System was conducted on June 28, 2022.

Question ID	DWMR1000000	Question Type	Information	
Logiclative Paguirement(s):				

# Legislative Requirement(s):

Not Applicable

### Question:

Does this drinking water system provide primary disinfection?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

This drinking water system provides for both primary and secondary disinfection and distribution of water.

Question ID	DWMR1007000	Question Type	Legislative	
Legislative Requirement(s):				
SDWA   O. Reg. 170/03   1-2   (1);				

#### Question:

Is the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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.

Subsection 1-2. (1) 1. of Schedule 1 of Ontario Regulation 170/03 requires that the owner of a drinking water system shall ensure that any well that serves as an entry point of raw water supply is constructed and maintained to prevent surface water and other foreign materials from entering the well. There are two supply wells for Park Lane Subdivision Drinking Water System. Each of the wells has a secure cap and screened vent. The original well is located in the former pumphouse. Raw water samples were collected monthly during the inspection review period. All raw water microbiological results were zero.

Operators perform inspections at least monthly of both wells.

Question ID	DWMR1009000	<b>Question Type</b>	Legislative	
Legislative Requirement(s):				
SDWA   31   (1):				

# Question:

Are measures in place to protect the groundwater and/or GUDI source in accordance with any MDWL and DWWP issued under Part V of the SDWA?

### Compliance Response(s)/Corrective Action(s)/Observation(s):

Measures were in place to protect the groundwater and/or GUDI source in accordance with the

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Municipal Drinking Water Licence and Drinking Water Works Permit issued under Part V of the SDWA.

Condition 16.2.8 of Schedule B of Municipal Drinking Water Licence 147- 102 Issue Number 4 requires an inspection schedule for all wells associated with the drinking water system, including all production wells, standby wells, test wells and monitoring wells.

Condition 16.2.9 of Schedule B of Municipal Drinking Water Licence 147-102 Issue Number 4 requires well inspection and maintenance procedures for the entire well structure of each well including all above and below grade well components.

Condition 16.2.10 of Schedule B of Municipal Drinking Water Licence 147-102 Issue Number 4 requires remedial action plans for situations where an inspection indicates non- compliance with respect to regulatory requirements and/or risk to raw well water quality.

The Operating Authority has developed a Well Inspection, Maintenance and Monitoring Plan. The Plan outlines the schedule for inspection of the two production wells supplying water for the Park Lane Subdivision drinking water system. The inspection schedule includes both above and below grade well components. Indicators that the seal or well casing may not be adequate are detailed.

The Operating Authority has a procedure in the event that there is suspected unsafe water as well as a procedure to follow in the event that an alternate water source is required. During the inspection review period the logbook noted that an Operator checked the wells each month.

Question ID	DWMR1014000	Question Type	Legislative	
Legislative Requirement(s):				
SDWA   31   (1);				

#### Question:

Is there sufficient monitoring of flow as required by the MDWL or DWWP issued under Part V of the SDWA?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

There was sufficient monitoring of flow as required by the Municipal Drinking Water Licence or Drinking Water Works Permit issued under Part V of the SDWA.

Condition 2.1 of Schedule C of Municipal Drinking Water Licence 147-102 Issue Number 4 requires that for each treatment subsystem, continuous flow measurement and recording shall be undertaken for the flow rate and daily volume of treated water that flows from the treatment subsystem to the distribution system, and the flow rate and daily volume of water that flows into the treatment subsystem.

There is a magnetic flow meter installed on each of the two raw water lines, as well as on the combined raw water header, and a magnetic flow meter installed on the distribution header. Each of the flow meters provides a 4-20 mA signal. Raw and treated water flows are continuously recorded on the SCADA system. An annual calibration of the flow meters occurred in January 2023.

Question ID	DWMR1016000	Question Type	Legislative
Legislative Requirement(s):			

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SDWA | 31 | (1);

### Question:

Is the owner in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the MDWL issued under Part V of the SDWA?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

The owner was not in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the Municipal Drinking Water Licence issued under Part V of the SDWA.

Table 1 of Schedule C of Municipal Drinking Water Licence 147-102 Issue Number 4 states that the rated capacity for Park Lane Subdivision Drinking Water System is 50 m3/day. Table 2 of Schedule C of Municipal Drinking Water Licence 147-102 Issue Number 4 states that the maximum flow rate for Well No. 1 is 68 L/min and the maximum flow rate for Well No. 2 is 68 L/min. On December 12,2022 the mini standpipe overflowed a review of the raw water flows during this time indicate that 56 m3 ( 56,000L)were taken on December 12 and 71 m3(71,000L) were taken on December 13, 2022. Typical in 2022, daily water taking for this site is on average 11.5 m3/day. This exceeds the maximum flow rates permitted by the Licence.

No further action required as the exceedances were limited to two dates in December 2022.

<b>Question ID</b>	DWMR1018000	<b>Question Type</b>	Legislative
Legislative Requirement(s):			
SDWA   31   (1);			

### Question:

Has the owner ensured that all equipment is installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.

At the time of inspection the installed equipment at the Park Lane Subdivision pumphouse appeared to be installed as per the description in Schedule A of Drinking Water Works Permit 147-202 Issue Number 4 and the process flow diagram contained in Schedule D. Schedule C of Drinking Water Works Permit 147-202 Issue Number 4 lists the installation of the standpipe and other upgrades in Table 2.

Question ID	DWMR1021000	Question Type	Legislative
Legislative Requirement(s): SDWA   31   (1);			
Question:			

Is the owner/operating authority able to demonstrate that, when required during the inspection period, Form 2 documents were prepared in accordance with their Drinking Water Works

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### Permit?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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.

Form 2 was submitted Instrumentation and Control, Chlorine/pH Analyzer - Treated Water for the installation of a replacement. Same brand, different model from D2CAW to DACb due to the old model no longer available.

Question ID	DWMR1025000	Question Type	Legislative
Legislative Requirement(s):			
SDWA   31   (1);			

### Question:

Were all parts of the drinking water system that came in contact with drinking water (added, modified, replaced or extended) disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

All parts of the drinking water system were disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit.

Question ID	DWMR1023000	Question Type	Legislative	
Legislative Requirement(s):				
SDWA   O. Reg. 170/03   1-2   (2);				

#### Question:

Do records indicate that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a DWWP and/or MDWL issued under Part V of the SDWA at all times that water was being supplied to consumers?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities required under O. Reg. 170/03 or a Drinking Water Works Permit and/or Municipal Drinking Water Licence issued under Part V of the SDWA at all times that water was being supplied to consumers.

Primary disinfection for Park Lane Subdivision Drinking Water System is achieved by chlorination and the use of the chlorine contact/concentration time (CT) concept to ensure the provision of effective pathogen inactivation. The effective disinfectant contact time required for the CT concept is attained within the 63 m3 standpipe that was installed in 2016 to replace the five contact tanks that were previously used for storage and contact time. Following completion of the intended contact time, free chlorine residuals are maintained within the distribution system for secondary disinfection purposes.

In efforts to ensure minimum treatment is provided at all times, a series of fail safes have been incorporated into the SCADA system. Fail safes include, the low alarm set point being at a level

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which affords sufficient time for an Operator to respond, prior to the chlorine residual dropping below the level required for primary disinfection. Operators perform CT calculations regularly. In order to determine if primary disinfection was achieved at the Park Lane Subdivision Drinking Water System during the inspection review period, flow rates, free chlorine residuals, turbidity values, reservoir levels and the logsheets were reviewed. These records indicate that during the inspection review period the treatment equipment was operated as required to achieve the disinfection requirements.

Question ID	DWMR1024000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);			
Question:			

Do records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated as required?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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.

During the inspection review period the lowest chlorine residual measured in the Park Lane Subdivision distribution system was 0.56 mg/L and the highest value was 1.99 mg/L. At the time of inspection the Inspector C. Munce measured the free chlorine residual at sample station #1 with a result of 1.18mg/L. The Operator measured the free chlorine residual at the same location at the same time with a result of 1.18 mg/L.

Question ID	DWMR1034000	Question Type	Legislative	
Legislative Requirement(s):				
SDWA   O. Reg. 170/03   7-2   (5); SDWA   O. Reg. 170/03   7-2   (6);				
Questions				

Is the secondary disinfectant residual measured as required for the small municipal residential distribution system?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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

Subsection 7-2 (5) of Schedule 7 of Ontario Regulation 170/03 requires that the owner of a small municipal residential system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (6) and are tested immediately for free chlorine residual, if the system provides chlorination and does not provide chloramination.

Subsection (6) states that at least one of the distribution samples referred to in subsection

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(5) must be taken at least 48 hours after, and during the same week as, one of the other distribution samples referred to in subsection (5).

During the inspection review period a free chlorine residual was measured in the Park Lane Subdivision distribution system on at least two days each week, with at least 48 hours between samples as required.

### **Legislative Requirement(s):**

SDWA | O. Reg. 170/03 | 7-2 | (1); SDWA | O. Reg. 170/03 | 7-2 | (2);

#### Question:

Is primary disinfection chlorine monitoring being conducted at a location approved by MDWL and/or DWWP issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

Primary disinfection chlorine monitoring was conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved.

Question ID	DWMR1035000	Question Type	Legislative
Legislative Requirement(s):			

#### Legisiative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4; SDWA | O. Reg. 170/03 | 6-5 | (1)5-10;

### Question:

Are operators examining continuous monitoring test results and are they examining the results within 72 hours of the test?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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

Subsection 6-5. (1) 3. of Schedule 6 of Ontario Regulation 170/03 requires that test results recorded under paragraph 1 or 2 must be examined, within 72 hours after the tests are conducted by a certified operator, in the case of, a small municipal residential system, such as Park Lane Subdivision Drinking Water System.

During the inspection review period records indicate that trending data was reviewed within 72 hours of the test being conducted. Operators are able to log in remotely to view the continuous analyser data.

Question ID	DWMR1038000	<b>Question Type</b>	Legislative
Legislative Requirement(s):			
SDWA   O. Reg. 170/03   6-5   (1)1-4;			

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### Question:

Is continuous monitoring equipment that is being utilized to fulfill O. Reg. 170/03 requirements 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?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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.

Question ID	DWMR1037000	Question Type	Legislative
1			

# Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4; SDWA | O. Reg. 170/03 | 6-5 | (1)5-10; SDWA | O. Reg. 170/03 | 6-5 | (1.1);

### Question:

Are all continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or MDWL or DWWP or order, equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

All continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or Municipal Drinking Water Licence or Drinking Water Works Permit or order, were equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6.

Subsection 6-5. (1.1) of Schedule 6 of Ontario Regulation 170/03 requires that the continuous monitoring equipment must cause an alarm to sound immediately at the following locations if the equipment malfunctions or loses power or a test result for a parameter is above the maximum alarm standard or below the minimum alarm standard specified in the Table to this section for the parameter:

- i. The location where the equipment conducts tests.
- ii. A location where a person is present, if a person is not always present at the location where the equipment conducts tests.
- iii. Every designated facility served by the drinking water system, unless the system is a large municipal residential system or a small municipal residential system.
- In the event that the continuous chlorine analyzer records a value below or above the set points an alarm is sent to an Operator. The setpoints exceed the requirements of the Table in Schedule 6 of Ontario Regulation 170/03. The low chlorine alarm setpoint is at a level high enough to try and afford an operator enough time to respond before primary disinfection is compromised. Operators regularly test the low chlorine alarm to ensure it is functioning properly. While on site for inspection the operator completed a test for low chlorine alarm and to show they get the notification from Huronia alarms. There are no designated facilities served by Park Lane Subdivision Drinking Water System.

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Question ID	DWMR1040000	Question Type	Legislative
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### Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4; SDWA | O. Reg. 170/03 | 6-5 | (1)5-10;

### Question:

Are all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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

Most days that Operators attend the pumphouse they compare the hand held colorimeter value for free chlorine residual with the continuous analyser value. In the event that the discrepancy is greater than approximately

0.2 mg/L, the span of the continuous analyser is changed. The hand held units undergo a verification with secondary standards periodically, and are serviced, including verification, by a third party company annually. The continuous analyser probe and electrolyte are changed as required and calibrated annually by a service technician.

Question IDDWMR1108000Question TypeLegisla	tive
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### Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4; SDWA | O. Reg. 170/03 | 6-5 | (1)5-10; SDWA | O. Reg. 170/03 | 6-5 | (1.1);

### Question:

Where continuous monitoring equipment used for the monitoring of free chlorine residual, total chlorine residual, combined chlorine residual or turbidity, required by O. Reg. 170/03, an Order, MDWL, or DWWP issued under Part V, SDWA, has triggered an alarm or an automatic shut-off, did a qualified person respond in a timely manner and take appropriate actions?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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.

According to the Park Lane Subdivision logbook an Operator responded to one alarm during the inspection review period; one for low chlorine. Response time was in a timely manner and appropriate actions were taken for each event.

Question ID	DWMR1039000	Question Type	Legislative
Legislative Requirement(s): SDWA   O. Reg. 170/03   1-6   (3);			
Question:			

If primary disinfection equipment that does not use chlorination or chloramination is provided, has the owner and operating authority ensured that the equipment has a recording device that

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continuously records the performance of the disinfection equipment?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

The owner and operating authority ensured that the primary disinfection equipment had a recording device that continuously recorded the performance of the disinfection equipment.

Question ID	DWMR1099000	Question Type	Information
Legislative Requirement(s):			
Not Applicable			

### Question:

Do records 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)?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

Records showed 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).

Question ID	DWMR1082000	Question Type	Legislative
Legislative Requirement(s):			
SDWA   O. Reg. 170/03   11-2   (1); SDWA   O. Reg. 170/03   11-2   (2); SDWA   O. Reg. 170/03			
11-2   (6);			

### Question:

For SMR systems, are all microbiological water quality monitoring requirements for distribution samples prescribed by legislation being met?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

All microbiological water quality monitoring requirements prescribed by legislation for distribution samples in a small municipal residential system were being met.

Subsection 11-2 of Schedule 11 of Ontario Regulation 170/03 requires that the owner of a small municipal residential drinking water system and the operating authority for the system shall ensure that at least one distribution sample is taken every two weeks, if the system provides treatment equipment in accordance with Schedule 1 or 2 and the equipment is operated in accordance with that Schedule. The owner of the drinking water system and the operating authority for the system shall ensure that each of the samples taken is tested for Escherichia coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic plate count (HPC), as Park Lane Subdivision Drinking Water System has secondary disinfection.

During the inspection review period one distribution sample was collected every two weeks from the Park Lane Subdivision distribution system and tested for all the required parameters.

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Question ID	DWMR1096000	Question Type	Legislative
Legislative Requirement(s):			

SDWA | O. Reg. 170/03 | 6-3 | (1);

### Question:

Do records confirm that chlorine residual tests are being conducted at the same time and at the same location that microbiological samples are obtained?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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

Question ID	DWMR1084000	Question Type	Legislative
Legislative Req	uirement(s):		
SDWA   O. Reg.	170/03   13-2:		

### Question:

Are all inorganic water quality monitoring requirements prescribed by legislation conducted within the required frequency?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.

Subsection 13-2 (3) of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a small municipal residential system and the operating authority for the system shall ensure that, at least one water sample is taken every 60 months and tested for every parameter set out in Schedule 23.

The most recent treated water samples collected and tested for all Schedule 23 parameters was on August 21, 2019. Previously samples were tested for Schedule 23 parameters on August 16, 2016.

Question ID	DWMR1085000	Question Type	Legislative	
Legislative Requirement(s):				

SDWA | O. Reg. 170/03 | 13-4 | (1); SDWA | O. Reg. 170/03 | 13-4 | (2); SDWA | O. Reg. 170/03 | 13-4 | (3);

#### Question:

Are all organic water quality monitoring requirements prescribed by legislation conducted within the required frequency?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.

Subsection 13-4 (3) of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a small municipal residential system and the operating authority for the system shall ensure that,

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at least one water sample is taken every 60 months and tested for every parameter set out in Schedule 24.

The most recent treated water samples tested for all Schedule 24 parameters were collected on August 21, 2019. Previously samples were collected for Schedule 24 parameters on August 16, 2016.

Question ID	DWMR1086000	Question Type	Legislative
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### **Legislative Requirement(s):**

SDWA | O. Reg. 170/03 | 13-6.1 | (1); SDWA | O. Reg. 170/03 | 13-6.1 | (2); SDWA | O. Reg. 170/03 | 13-6.1 | (3); SDWA | O. Reg. 170/03 | 13-6.1 | (4); SDWA | O. Reg. 170/03 | 13-6.1 | (5); SDWA | O. Reg. 170/03 | 13-6.1 | (6);

#### Question:

Are all haloacetic acid water quality monitoring requirements prescribed by legislation conducted within the required frequency and at the required location?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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

Section 13-6.1 of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of haloacetic acids (HAA), and have the samples tested for haloacetic acids.

The standard of 0.80 mg/L for HAA as a reportable limit came into effect on January 1, 2020. During the inspection review period a sample was collected from the Park Lane Subdivision distribution system in February 2022 and May 2022 and tested for HAA as required. The average for HAA during the inspection review period was 70.2 ug/L.

The Park Lane Subdivision Drinking Water System is not eligible for reduced sampling of HAAs at this time, as there have been results above 0.040 mg/L in the previous 12 consecutive calendar quarters.

The Operating Authority is aware that the running annual average for HAA is approaching the Ontario Drinking Water Quality Standard Of 0.08 mg/L. The sample results are being monitored. Annual flushing is performed and the chlorine residuals are monitored.

The Operating Authority should continue the in place measures to monitor the HAA levels, and may wish to consider further investigation into measures that could reduce the HAA levels.

Question ID	DWMR1087000	Question Type	Legislative
Legislative Regu	uirement(s):		

SDWA | O. Reg. 170/03 | 13-6 | (1); SDWA | O. Reg. 170/03 | 13-6 | (2); SDWA | O. Reg. 170/03 | 13-6 | (3); SDWA | O. Reg. 170/03 | 13-6 | (4); SDWA | O. Reg. 170/03 | 13-6 | (5); SDWA | O. Reg. 170/03 | 13-6 | (6);

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### Question:

Have all trihalomethane water quality monitoring requirements prescribed by legislation been conducted within the required frequency and at the required location?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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

Section 13-6 of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of trihalomethanes (THMs). The samples are to be tested for THMs.

During the inspection review period samples were collected and tested for THMs from the Park Lane distribution system May 3, August 3, and November 9 of 2022. AS well as February 7, and May 3 of 2023. The average for THMs during the inspection review period was 79.6 ug/L. The Park Lane Subdivision Drinking Water System is not eligible for reduced sampling of THMs at this time, as there have been results above 0.050 mg/L in the previous 12 consecutive calendar quarters.

Question ID	DWMR1088000	<b>Question Type</b>	Legislative	
Legislative Requirement(s):				
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SDWA | O. Reg. 170/03 | 13-7;

#### Question:

Are all nitrate/nitrite water quality monitoring requirements prescribed by legislation conducted within the required frequency for the DWS?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency.

Section 13-7 of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.

During the inspection review period samples tested for nitrate and nitrite were collected from the treated water point of entry for Park Lane Subdivision Drinking Water System August 3, November 9 of 2022 as well as February 7 and May 3 of 2023 as required.

Question ID	DWMR1089000	Question Type	Legislative		
Legislative Requirement(s):					
SDWA   O. Reg. 170/03   13-8;					

#### Question:

Are all sodium water quality monitoring requirements prescribed by legislation conducted within the required frequency?

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# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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

Section 13-8 of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every 60 months and tested for sodium.

Section 6-1.1 (7) of Schedule 6 of Ontario Regulation 170/03 states that if this Regulation requires at least one water sample to be taken every 60 months and tested for a parameter, the owner of the drinking water system and the operating authority for the system shall ensure that at least one sample that is taken during a 60-month period and for the purpose of being tested for that parameter is taken not more than 90 days before or after the fifth anniversary of the day a sample was taken for that purpose in the previous 60-month period.

The most recent treated water sample tested for sodium was collected on August 18, 2020 from the Park Lane Subdivision Drinking Water System. The result was 60.9 mg/L. A resample was collected on August 24, 2020 with a result of 57.6 mg/L.

Question ID	DWMR1090000	Question Type	Legislative		
Legislative Requirement(s):					
SDWA   O. Reg. 170/03   13-9:					

### Question:

Where fluoridation is not practiced, are all fluoride water quality monitoring requirements prescribed by legislation conducted within the required frequency?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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

Section 13-9 of Schedule 13 of Ontario Regulation 170/03 requires that if a drinking water system does not provide fluoridation, the owner of the system and the operating authority for the system shall ensure that a water sample is taken at least once every 60 months and tested for fluoride.

Section 6-1.1 (7) of Schedule 6 of Ontario Regulation 170/03 states that if this Regulation requires at least one water sample to be taken every 60 months and tested for a parameter, the owner of the drinking water system and the operating authority for the system shall ensure that at least one sample that is taken during a 60-month period and for the purpose of being tested for that parameter is taken not more than 90 days before or after the fifth anniversary of the day a sample was taken for that purpose in the previous 60-month period.

A treated water sample was collected on August 3, 2023 from Park Lane and tested for fluoride. Prior to that a fluoride sample was collected on August 15, 2017.

Question ID	DWMR1113000	Question Type	Legislative		
Legislative Requirement(s):					
SDWA   O. Reg.	170/03   10.1   (3);				

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### Question:

Have all changes to the system registration information been provided to the Ministry within ten (10) days of the change?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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

Question ID	DWMR1059000	Question Type	Legislative		
Legislative Requirement(s):					
SDWA   O. Reg. 128/04   28;					

### Question:

Do the operations and maintenance manuals contain plans, drawings and process descriptions sufficient for the safe and efficient operation of the system?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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

Question ID	DWMR1060000	Question Type	Legislative		
Legislative Requirement(s):					
SDWA   31   (1);					

### Question:

Do the operations and maintenance manuals meet the requirements of the DWWP and MDWL issued under Part V of the SDWA?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

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.

Section 16.2 of Schedule B of Municipal Drinking Water Licence 147-102 Issue Number 4 requires that the operations and maintenance manual or manuals, shall include at a minimum: 16.2.1 The requirements of this licence and associated procedures;

- 16.2.2 The requirements of the drinking water works permit for the drinking water system;
- 16.2.3 A description of the processes used to achieve primary and secondary disinfection within the drinking water system, including where applicable:
- a) A copy of the CT calculations that were used as the basis for primary disinfection under worst case operating conditions and other operating conditions, if applicable; and
- b) The validated operating conditions for UV disinfection equipment, including a copy of the validation certificate;
- 16.2.4 Procedures for monitoring and recording the in-process parameters necessary for the control of any treatment subsystem and for assessing the performance of the drinking water system;

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- 16.2.5 Procedures for the operation and maintenance of monitoring equipment;
- 16.2.6 Contingency plans and procedures for the provision of adequate equipment and material to deal with emergencies, upset conditions and equipment breakdown;
- 16.2.7 Procedures for dealing with complaints related to the drinking water system, including the recording of the nature of the complaint and any investigation and corrective action taken in respect of the complaint;
- 16.2.8 An inspection schedule for all wells associated with the drinking water system, including all production wells, standby wells, test wells and monitoring wells;
- 16.2.9 Well inspection and maintenance procedures that consider the entire well structure of each well including all above and below grade well components; and
- 16.2.10 Remedial action plans for situations where an inspection indicates non-compliance with respect to regulatory requirements and/or risk to raw well water quality.

The Park Lane Water Works Operations and Maintenance Manual and Contingency and Emergency Plan meet the requirements of the Municipal Drinking Water Licence.

Question ID	DWMR1061000	Question Type	Legislative
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# Legislative Requirement(s):

SDWA | O. Reg. 128/04 | 27 | (1); SDWA | O. Reg. 128/04 | 27 | (2); SDWA | O. Reg. 128/04 | 27 | (3); SDWA | O. Reg. 128/04 | 27 | (4); SDWA | O. Reg. 128/04 | 27 | (5); SDWA | O. Reg. 128/04 | 27 | (6); SDWA | O. Reg. 128/04 | 27 | (7);

### Question:

Are logbooks properly maintained and contain the required information?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

Logbooks were properly maintained and contained the required information.

<b>Question ID</b>	DWMR1062000	Question	1 Type	Legislative	
Legislative Requirement(s):					
SDWA   O. Reg. 170/03   7-5;					

#### Question:

Do records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment is being done by a certified operator, water quality analyst, or person who meets the requirements of O. Reg. 170/03 7-5?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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.

Question ID	DWMR1071000	Question Type	ВМР		
Legislative Requirement(s):					
Not Applicable					

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### Question:

Has the owner provided security measures to protect components of the drinking water system?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

The owner had provided security measures to protect components of the drinking water system.

The outside well, the sample stations, standpipe and the old pumphouse where the original well is located are locked, as well as the pumphouse which is also alarmed for forced entry. There are no other storage structures within the distribution system.

Question ID	DWMR1073000	Question Type	Legislative
Legislative Requ	uirement(s):		
SDWA   O. Reg.	128/04   23   (1);		

### Question:

Has the overall responsible operator been designated for all subsystems which comprise the drinking water system?

# **Compliance Response(s)/Corrective Action(s)/Observation(s):**

The overall responsible operator had been designated for each subsystem.

The Park Lane Village Subdivision Drinking Water System is comprised of a Water Distribution Class 1 and Water Treatment Class 1 subsystem. The Overall ResponsibleOperator is designated for both of the subsystems and have the appropriate certification. The Operator acting as the ORO is indicated in the electronic logbook on each day that entries are made.

Question ID	DWMR1074000	Question Type	Legislative
Legislative Requ	uirement(s):		
SDWA   O. Reg.	128/04   25   (1);		

### Question:

Have operators-in-charge been designated for all subsystems which comprise the drinking water system?

# Compliance Response(s)/Corrective Action(s)/Observation(s):

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

The Park Lane Village Subdivision Drinking Water System is comprised of a Water Distribution Class 1 and Water Treatment Class 1 subsystem. The Operator-in- Charge (OIC) is designated for both subsystems and have the appropriate certification. The Operator acting as the OIC is indicated in the electronic logbook on each day that entries are made.

Question ID	DWMR1075000	Question Type	Legislative
Legislative Requ			
SDWA   O. Reg.	128/04   22;		

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Question:

Do all operators possess the required certification?

**Compliance Response(s)/Corrective Action(s)/Observation(s):** 

All operators possessed the required certification.

Question ID	DWMR1076000	Question Type	Legislative
Legislative Requirement(s):			
SDWA   O. Reg.	170/03   1-2   (2);		
Question:			
Do only certified operators make adjustments to the treatment equipment?			
Compliance Response(s)/Corrective Action(s)/Observation(s):			
Only certified ope	rators made adjustments to the tre	atment equipment.	

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### Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2023-24)

**DWS Name:** PARK LANE SUBDIVISION DRINKING WATER SYSTEM

**DWS Number:** 220007132

DWS Owner: CORPORATION OF THE TOWNSHIP OF RAMARA

**Municipal Location:** RAMARA

Regulation: O.REG. 170/03

**DWS Category:** DW Municipal Residential

Type of Inspection: Focused
Inspection Date: Jun-27-2023
Ministry Office: Barrie District Office

**Maximum Risk Rating: 445** 

Inspection Module	Non Compliance Risk (X out of Y)
Capacity Assessment	16/30
Certification and Training	0/42
Logbooks	0/18
Operations Manuals	0/28
Reporting & Corrective Actions	0/25
Source	0/14
Treatment Processes	0/197
Water Quality Monitoring	0/91
Overall - Calculated	16/445

Inspection Risk Rating: 3.60%

Final Inspection Rating: 96.40%

### Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2023-24)

**DWS Name: PARK LANE SUBDIVISION DRINKING WATER SYSTEM** 

**DWS Number:** 220007132

DWS Owner Name: CORPORATION OF THE TOWNSHIP OF RAMARA

Municipal Location: RAMARA

**Regulation:** O.REG. 170/03

**DWS Category:** DW Municipal Residential

Type of Inspection: Focused
Inspection Date: Jun-27-2023
Ministry Office: Barrie District Office

Non-Compliance Question(s)	
Capacity Assessment	
Is the owner in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the MDWL issued under Part V of the SDWA?	16
Overall - Total	16

**Maximum Question Rating:** 445

Inspection Risk Rating: 3.60%

FINAL INSPECTION RATING: 96.40%