

# **2025 Annual/Summary Report for the New Liskeard Drinking Water System**

**PREPARED BY**

Ontario Clean Water Agency  
on behalf of the City of Temiskaming Shores

February 17, 2026  
Rev: 0

# Revision History

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## Background

Municipalities throughout Ontario are required to comply with Ontario Regulation 170/03 made under the Safe Drinking Water Act (SDWA) since June 2003. The Act was passed following recommendations made by Commissioner O'Conner after the Walkerton Inquiry. The Act's purpose is to protect human health through the control and regulation of drinking-water systems. O. Reg. 170/03 regulates drinking water testing, use of licensed laboratories, treatment requirements and reporting requirements.

O. Reg. 170/03 requires the owner to produce an Annual Report, under Section 11. This report must include the following:

1. Description of system and chemical(s) used
2. Summary of any adverse water quality reports and corrective actions
3. Summary of all required testing
4. Description of any major expenses incurred to install, repair or replace equipment

This Annual Report must be completed by February 28<sup>th</sup> of each year.

The regulation also requires a Summary Report which must be presented and accepted by Council by March 31<sup>st</sup> of each year for the preceding calendar year reporting period.

The report must list the requirements of the Act, its regulations, the system's Drinking Water Works Permit (DWWP), Municipal Drinking Water Licence (MDWL), Certificate of Approval (if applicable), and any regulatory requirement the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

The Safe Drinking Water Act, 2002 and the drinking water regulations can be viewed at the following website: <http://www.e-laws.gov.on.ca>.

To enable the Owner to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report.

1. A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and the maximum daily flows.
2. A comparison of the summary to the rated capacity and flow rates approved in the systems approval, drinking water works permit or municipal drinking water licence or a written agreement if the system is receiving all its water from another system under an agreement.

The two reports have been prepared by the Ontario Clean Water Agency (OCWA) on behalf of the Owner and presented to council as the 2025 Annual/Summary Report.

## Section 11 – Annual Report

### 1. Introduction

<b>Drinking-Water System Name</b>	<b>New Liskeard Drinking Water System</b>
<b>Drinking-Water System Number</b>	220000344
<b>Drinking-Water System Owner</b>	The Corporation of the City of Temiskaming Shores
<b>Drinking-Water System Category</b>	Large Municipal, Residential System
<b>Municipal Drinking Water Licence No.</b>	218-103 (issued July 23, 2021)
<b>Drinking Water Works Permit No.</b>	218-203 (issued July 23, 2021)
<b>Permit to Take Water No.</b>	4417-AF2JAM (issued November 2, 2016)
<b>Reporting Period</b>	January 1, 2025 to December 31, 2025

**Does your Drinking-Water System serve more than 10,000 people?** No

**Is your annual report available to the public at no charge on a web site on the Internet?**

Yes - on the municipal website

**Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:**

City of Temiskaming Shores Municipal Office  
325 Farr Drive, P.O. Box 2050  
Haileybury, ON POJ 1K0

#### ***Drinking Water Systems that receive drinking water from the New Liskeard Drinking Water System***

The New Liskeard Drinking Water System provides drinking water to the communities of New Liskeard and Dymond within the City of Temiskaming Shores.

#### ***The Annual Report was provided to all connected Drinking Water System Owners***

The Ontario Clean Water Agency prepared the 2025 Annual/Summary Report for the New Liskeard Drinking Water System and provided a copy to the system owner; the City of Temiskaming Shores.

#### ***System Users are notified that the Annual Report is available for viewing through:***

- Notice on the City's Facebook page

- Notice in the local newspaper

## **2. Description of the New Liskeard Drinking Water System**

The New Liskeard Drinking Water System is owned by The Corporation of the City of Temiskaming Shores and consists of a Class 1 water treatment system and a Class 3 water distribution subsystem. The system is a communal ground water well supply that services the communities of New Liskeard and Dymond. The Ontario Clean Water Agency is the accredited operating authority and is designated as the Overall Responsible Operator for both the water treatment and water distribution facilities.

### ***Raw Water Supply***

The New Liskeard water treatment plant, located at 301 McCamus Avenue and is supplied by two main production wells; Well No. 3 and Well No. 4.

Well No. 3 was originally constructed on December 2, 1950. It is a 54.9 m deep drilled well equipped with a magnetic flow meter and a vertical turbine pump rated at 2700 L/min. It consists of a 660 mm diameter outer casing and 406 mm inner steel casing with a 7.6 m long stainless steel (shutter style) screen. The well is housed in a secure building located directly across from the water plant.

Well No. 4 was originally constructed on August 13, 1977. It is a 54.9 m deep drilled well also equipped a magnetic flow meter and with a vertical turbine pump rated at 2700 L/min. It consists of a 762 mm diameter outer steel casing, to a depth of 27.4 m and 356 mm inner steel casing, to a depth of 46.3 m with a 7.6 m long stainless steel screen, 30.5 cm in diameter. This well is located inside the water treatment plant building.

There is approximately 23 m of low permeability clay between the ground surface and the aquifer protecting the groundwater from surface spills.

### ***Water Treatment***

The production wells feed the main water treatment plant that has a maximum rated capacity of 7865 cubic meters per day (m<sup>3</sup>/d).

The treatment process consists of two iron and manganese removal/pressure filtration systems rated at 94.6 L/s that are filled with Filtronic's Electromedia<sup>®</sup>, a proprietary media. The configuration allows either filter to be supplied with raw water from either of the two wells and the filter effluent is continuously monitored for turbidity and free chlorine residual. The two pressurized filters are automatically backwashed, based on high filter turbidity or maximum filter runtime. Manual backwashes can also be initiated when required. The backwash wastewater is discharged into the municipal sanitary sewage system which flows into the New Liskeard Lagoon.

Prior to filtration, chlorine gas is injected into the water to aid the oxidation process and precipitate the iron and manganese. After filtration, the treated water is re-chlorinated and directed into a contact tank comprised of two clearwells.

### ***Water Storage***

The clearwells are located directly below the water treatment plant and have a total storage capacity of 271 m<sup>3</sup> (clearwell No. 1: 126 m<sup>3</sup>; clearwell No. 2: 145 m<sup>3</sup>). The baffles in the clearwell help to ensure sufficient chlorine contact time (CT). The free chlorine residual, pH, temperature, level and flow are continuously monitored to ensure adequate primary disinfection before the water enters the distribution system. The two clearwells are connected via an isolation valve to enable either clearwell to be drained for maintenance without compromising a continuous supply of water to users.

Two vertical turbine high lift pumps, equipped with variable frequency drives (VFDs) are each rated at 3420 L/min. They direct the treated water from the clearwell to the Shepherdson Road Reservoir and the Dymond Reservoir. If the high lifts are off then the Dymond Reservoir is fed by the Shepherdson Road Reservoir.

The Shepherdson Road Reservoir is located at 150 Shepherdson Road in New Liskeard and has a storage capacity of 1818 m<sup>3</sup>. Three vertical turbine pumps, all equipped with variable frequency drives (VFDs), supply water to pressure zones 2 and 3 in the system. A secondary disinfection system is in place at the reservoir using sodium hypochlorite to boost the chlorine levels leaving the reservoir if required.

The Dymond Reservoir is located at 286 Raymond Street and has a capacity of 1395 m<sup>3</sup>. The reservoir is a single story building with an underground clearwell consisting of four interconnected baffled cells and four vertical turbine pumps (equipped with VFDs), two rated at 70 L/s and two rated at 28.1 L/s. A second building houses a sodium hypochlorite feed system, if boosting is required to maintain disinfection.

### ***Control System***

The New Liskeard Water Treatment System is controlled by a dedicated Programmable Logic Controller (PLC) and monitored through a Control System Supervisory Control and Data Acquisition (SCADA) system. All analyzing, monitoring and control module equipment information is routed through the SCADA system for operator monitoring and control. Control of equipment can be accomplished using the Human Machine Interface (HMI) touch screen at the New Liskeard water treatment plant or via the SCADA computer located at the Haileybury water treatment plant. Alarm capability and set point adjustment along with trend monitoring are also available through SCADA system controls.

### ***Emergency Power***

An emergency stand-by 300 kW diesel powered generator with a 1000L fuel tank is available at the Well No. 3 pump house to ensure continued operation of the water treatment facility during a power outage.

A 230 kW diesel generator with a 2000 L fuel tank is on-site at the Shepherdson Street Reservoir

A 260 kW standby diesel generator with two (2) 1000 L fuel tanks are available at the Dymond Reservoir in case of power failures.

### ***Distribution System***

The New Liskeard Drinking Water System is classified as a Large Municipal Residential Drinking Water System that provides water to the communities of New Liskeard and Dymond. The distribution system consists of approximately 5750 residents and 2300 service connections and is comprised of various pipe materials including cast iron, ductile iron and PVC ranging from 4" to 16 " in New Liskeard and 6" to 12 " in Dymond. Approximately 535 m of 150 mm diameter HDPE feeder main to the Dymond Reservoir was installed in May 2020. There are several isolation valves to allow for the repair and maintenance of selected sections of the distribution system, three air relief valves and five pressure reducing valves. Approximately 313 fire hydrants are connected to the system to aid in fire protection.

This distribution system is broken down into three (3) service zones. It should be noted that the feeder main from the McCamus water treatment plant to the storage reservoir on Shepherdson Road also acts as a distribution line within Zone I. The three zones are supplied with potable water in the following manner:

Zone I – Gravity Zone is supplied with water through a distribution line from the Shepherdson Road Reservoir as well as the feeder main to the reservoir from the WTP. Zone I is isolated from Zones II and III via natural topography and closed valves. Zone I also supplies water from Shepherdson Road to the Dymond Reservoir which feeds the Dymond Distribution System.

Zone II – Intermediate Zone is fed through a separate distribution line from the Shepherdson Road reservoir through pumping. The area is generally comprised of residential units as well as the recently developed (2011) Dymond Industrial Park. The interconnected distribution piping between this zone and Zone I (gravity) is isolated via closed gate valves.

Zone III – High Zone is fed through a separate distribution line from the Shepherdson Road reservoir through pumping. The area is generally comprised of limited industrial users and is the main feed for Temiskaming Hospital.

## **3. List of Water Treatment Chemicals Used**

- Chlorine Gas – disinfection
- Sodium Hypochlorite – disinfection; re-chlorination at the reservoirs

All treatment chemicals meet AWWA and NSF/ANSI standards.

## 4. Significant Expense Incurred in 2025

OCWA is committed to maintaining the assets of the drinking water system and sustains a program of scheduled inspection and maintenance activities using a computerized Work Management System (WMS).

A summary of major maintenance and capital expenditures is presented below, with a detailed breakdown available in Appendix A.

- Chlorination system parts and maintenance
- Clearwell exhaust fan motors
- Turbidity analyzer components
- Valves, actuators, pilots
- Portable chlorine colourimeter
- Annual generator service
- Manitoulin – UV parts
- Distribution – hydrant and valve replacements
- Distribution – emergency repairs
- DWQMS re-accreditation external audit
- Municipal Drinking water License renewal

## 5. Details of Notices Reported & Submitted to the Spills Action Center

Based on information kept on record by OCWA, sixteen (16) adverse water quality incidents (AWQIs) were reported to the Ministry’s Spills Action Centre in 2025.

- Twelve (12) AWQIs were reported for planned distribution maintenance (hydrant and valve replacements). Repairs resulted in a loss of pressure and the issuance of precautionary boil water advisories.
- Four (4) AWQIs due to emergency water main breaks.

Refer to Appendix B for a summary of AWQIs.

## 6. Microbiological Testing

*Table 1: Summary of Microbiological Results*

Sample Type	# of Samples	Range of <i>E.coli</i> Results (min to max)	Range of Total Coliform Results (min to max)	# of HPC Samples	Range of HPC Results (min to max)
Raw – Well 3	52	0 to 0	0 to 0	N/A	N/A
Raw – Well 4	52	0 to 0	0 to 0	N/A	N/A
Treated	52	0 to 0	0 to 0	52	< 10 to 80

Sample Type	# of Samples	Range of <i>E. coli</i> Results (min to max)	Range of Total Coliform Results (min to max)	# of HPC Samples	Range of HPC Results (min to max)
Distribution	208	0 to 0	0 to 0	104	< 10 to 440

Maximum Acceptable Concentration (MAC) for treated and distribution samples: *E. coli* = 0 CFUs/100 mL and MAC for Total Coliforms = 0 CFUs/100 mL

"<" denotes less than the laboratory's method detection limit

**Note:** One microbiological sample is collected and tested each week from the raw (each well) and treated water supply. A total of four microbiological samples are collected and tested each week from the distribution system. At least 25% of the distribution samples must be tested for HPC bacteria.

## 7. Operational Testing

Table 2: Summary of Raw Water Turbidity Results

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure
Turbidity – Well 3	50	0.18 to 2.00	NTU
Turbidity – Well 4	52	0.16 to 1.74	NTU

**Note:** Turbidity samples are required once every month.

Table 3: Continuous Monitoring in the Treatment Process

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine Residual	8760 <sup>Note 1</sup>	0.35 to 4.88	NTU	CT <sup>Note 2</sup>

**Notes:**

- For continuous monitors 8760 is used as the number of samples.
- CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the New Liskeard water plant if the free chlorine residual level drops below 0.40 mg/L to ensure primary disinfection is achieved. A CT calculation was performed on June 9<sup>th</sup> when the free chlorine residual dropped to 0.35 mg/L due to an injector issue which was repaired. The calculation confirmed that primary disinfection was achieved during this time.

Table 4: Summary of Chlorine Residuals in the Distribution System

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine Residual	368	0.57 to 1.62	mg/L	≥ 0.05

**Note:** A total of seven operational checks for chlorine residual in the distribution system are collected each week. Four (4) samples are tested one day and three (3) on a second day. The sample sets are collected at least 48-hours apart and samples collected on the same day are from different locations.

Refer to Appendix C for a monthly summary of the above microbiological and operational test results.

## 8. Chemical Testing

*Table 5: Summary of Nitrate & Nitrite Data from the Water Treatment Plant*

Date of Sample	Nitrate Result	Nitrite Result	Unit of Measure	Exceedance
January 13	< 0.1	< 0.01	mg/L	No
April 14	0.1	< 0.01	mg/L	No
July 7	0.2	< 0.01	mg/L	No
October 14	< 0.1	< 0.01	mg/L	No

Maximum Allowable Concentration (MAC) for Nitrate = 10 mg/L and for Nitrite = 1 mg/L

*Table 6: Summary of Total Trihalomethane Results from the Distribution System*

Date of Sample	THM Result	Unit of Measure	Running Average	Exceedance
January 13	53.7	ug/L	Q1 = 51.1	No
April 14	62.2	ug/L	Q2 = 59.2	No
July 7	38.8	ug/L	Q3 = 53.1	No
October 14	69.9	ug/L	Q4 = 56.2	No

Maximum Allowable Concentration (MAC) for Total Trihalomethanes = 100 ug/L (Four Quarter Running Average)

*Table 7: Summary of Total Haloacetic Acid Results from the Distribution System*

Date of Sample	Result Value	Unit of Measure	Running Average	Exceedance
January 13	36	ug/L	Q1 = 33.5	No
April 14	23	ug/L	Q2 = 34.8	No
July 7	44	ug/L	Q3 = 36.0	No
October 14	50	ug/L	Q4 = 38.3	No

Maximum Allowable Concentration (MAC) for Total Haloacetic Acid = 80 ug/L (Four Quarter Running Average)

*Table 8: Summary of Lead Results under Schedule 15.1 (from the distribution system)*

Date of Sample	# of Samples	Field pH (min to max)	Field Temperature (°C) (min to max)	Alkalinity (mg/L) (min to max)	Lead (ug/L) (min to max)
March 10	3	7.29 to 7.52	7.9 to 9.7	224 to 230	N/A
September 15	3	7.01 to 7.40	12.4 to 15.6	226 to 231	N/A

Maximum Allowable Concentration (MAC) for Lead 10 ug/L

The system is required to test for total alkalinity and pH in three distribution samples collected during the period of December 15 to April 15 (winter period) and three distribution samples during the period of June 15 to October 15 (summer period). This testing is required in every 12-month period with lead testing in every third 12-month period.

Lead testing was not required this reporting period, but was done in 2024. The results ranged from <0.1 to <0.1 ug/L sampled on March 20<sup>th</sup> and from <0.1 to 0.2 ug/L sampled on September 9<sup>th</sup>.

Next lead sampling is scheduled for 2027.

*Table 9: Most Recent Schedule 23 Inorganic Results from the Water Treatment Plant*

Parameter	Result Value	Unit of Measure	MAC	MAC Exceedance	½ MAC Exceedance
Antimony	< 0.5	ug/L	6	No	No
Arsenic	< 1.0	ug/L	10	No	No
Barium	104	ug/L	1000	No	No
Boron	97	ug/L	5000	No	No
Cadmium	< 0.1	ug/L	5	No	No
Chromium	2	ug/L	50	No	No
Mercury	< 0.1	ug/L	1	No	No
Selenium	0.5	ug/L	50	No	No
Uranium	< 1	ug/L	20	No	No

**Note:** Sample required every 36 months (sample date = October 16, 2023). Next sampling scheduled for October 2026.

*Table 10: Most Recent Schedule 24 Organic Results from the Water Treatment Plant*

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Alachlor	< 0.308	ug/L	5	No	No
Atrazine + N-dealkylated metabolites	< 0.5	ug/L	5	No	No
Azinphos-methyl	< 0.308	ug/L	20	No	No
Benzene	< 0.1	ug/L	1	No	No
Benzo(a)pyrene	< 0.01	ug/L	0.01	No	No
Bromoxynil	< 0.0971	ug/L	5	No	No
Carbaryl	< 3	ug/L	90	No	No
Carbofuran	< 4	ug/L	90	No	No
Carbon Tetrachloride	< 0.2	ug/L	2	No	No
Chlorpyrifos	< 0.231	ug/L	90	No	No
Diazinon	< 0.231	ug/L	20	No	No
Dicamba	< 0.085	ug/L	120	No	No
1,2-Dichlorobenzene	< 0.2	ug/L	200	No	No
1,4-Dichlorobenzene	< 0.3	ug/L	5	No	No
1,2-Dichloroethane	< 0.2	ug/L	5	No	No
1,1-Dichloroethylene (vinylidene chloride)	< 0.3	ug/L	14	No	No
Dichloromethane	< 1	ug/L	50	No	No
2-4 Dichlorophenol	< 0.2	ug/L	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	< 0.364	ug/L	100	No	No
Diclofop-methyl	< 0.121	ug/L	9	No	No
Dimethoate	< 0.231	ug/L	20	No	No
Diquat	< 0.2	ug/L	70	No	No
Diuron	< 10	ug/L	150	No	No
Glyphosate	< 20	ug/L	280	No	No

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Malathion	< 0.231	ug/L	190	No	No
Metolachlor	< 0.154	ug/L	50	No	No
Metribuzin	< 0.154	ug/L	80	No	No
Monochlorobenzene	< 0.5	ug/L	80	No	No
Paraquat	1.3	ug/L	10	No	No
Polychlorinated Biphenyls (PCBs)	< 0.08	ug/L	3	No	No
Pentachlorophenol	< 0.3	ug/L	60	No	No
Phorate	< 0.154	ug/L	2	No	No
Picloram	< 0.085	ug/L	190	No	No
Prometryne	< 0.077	ug/L	1	No	No
Simazine	< 0.231	ug/L	10	No	No
Terbufos	< 0.154	ug/L	1	No	No
Tetrachloroethylene	< 0.3	ug/L	10	No	No
2,3,4,6-Tetrachlorophenol	< 0.3	ug/L	100	No	No
Triallate	< 0.154	ug/L	230	No	No
Trichloroethylene	< 0.2	ug/L	5	No	No
2,4,6-Trichlorophenol	< 0.2	ug/L	5	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA)	< 6.07	ug/L	100	No	No
Trifluralin	< 0.154	ug/L	45	No	No
Vinyl Chloride	< 0.1	ug/L	1	No	No

**Note:** Sample required every 36 months (sample date = *October 16, 2023*). Next sampling scheduled for October 2026.

*Inorganic or Organic Parameter(s) that Exceeded Half the Standard Prescribed in Schedule 2 of Ontario Drinking Water Quality Standards*

No inorganic or organic parameter(s) listed in Schedule 23 and 24 of Ontario Regulation 170/03 (parameters listed in Table 9 and Table 10 of this report) exceeded half the standard found in Schedule 2 of the Ontario Drinking Water Standard (O. Reg.169/03) during the reporting period.

*Table 11: Most Recent Sodium Data (from the Water Treatment Plant)*

Date of Sample	# of Samples	Result Value	Unit of Measure	MAC	Exceedance
October 16, 2023	1	17	mg/L	20	No

**Note:** Sample required every 60 months. Next sampling scheduled for October 2028.

The aesthetic objective for sodium in drinking water is 200 mg/L at which it can be detected by a salty taste. It is required that the local Medical Officer of Health be notified when the concentration exceeds 20 mg/L so that persons on sodium restricted diets can be notified by their physicians.

*Table 12: Most Recent Fluoride Data Sampled at the Water Treatment Plant*

Date of Sample	# of Samples	Result Value	Unit of Measure	MAC	Exceedance
October 16, 2023	1	0.70	mg/L	1.5	No

**Note:** Sample required every 60 months. Next sampling scheduled for October 2028.

## 9. Additional Testing Performed in Accordance with a Legal Instrument

Section 2.0 to Schedule D of Municipal Drinking Water Licence #218-103-3 issued on July 23, 2021 provides relief from regulatory requirements Schedule 1-2(2) 4i and 16-3(1) 4 which states that:

Notwithstanding the provisions of Ontario Reg. 170/03, the Owner is not required to comply with the following:

- The free chlorine residual at 399 Radley Hill Road is never less than 0.05 mg/L.
- A result indicating that the free chlorine residual is less than 0.05 mg/L in a sample of drinking water at 399 Radley Hill Road is an adverse result of a drinking water test for the purpose of section 18 of the Ontario Safe Drinking Water Act (SDWA, 2002) if a report under subsection 18(1) of the SDWA has not been made in respect of free chlorine residual in the preceding 24 hours.

In exchange, the following conditions apply:

- An ultraviolet light (UV) point of entry treatment unit owned or leased by the owner of the system is connected to the plumbing of every building and other structure that is served by the drinking water system at 399 Radley Hill Road.
- The UV unit(s) is validated through biosimetry testing for a dose of 40 mJ/cm<sup>2</sup>.
- In the event that the UV unit malfunctions, loses power or ceases to provide the appropriate level of disinfection:
  - The UV unit has a feature that ensures that no water is directed to users of water treated by the unit and a certified operator takes appropriate action at the location where the unit is installed if such an event occurs before water is again directed to users of water treated by the unit, or
  - The UV unit has a feature that causes an alarm to sound immediately at the building or structure where the point of entry treatment unit is installed and a location where a certified operator is present, if a certified operator is not always present at the building or structure where the point of entry treatment unit is installed. If an alarm sounds, a certified operator must take appropriate action as soon as possible.

*Table 13: Summary of UV Dosage*

<b>UV System</b>	<b># of Samples</b>	<b>Range of Results (min to max)</b>	<b>Unit of Measure</b>	<b>Standard</b>
UV Unit	189	40 to 567.5	mJ/cm <sup>2</sup>	40

## Schedule 22 – Summary Reports for Municipalities

### 10. Requirements the System Failed to Meet

The following table lists the requirements of the Safe Drinking Water Act (2002), the drinking water regulations, the Permit to Take Water (PTTW), the Municipal Drinking Water Licence (MDWL), the Drinking Water Works Permit (DWWP), and any other orders applicable to the system that were not met at any time during the reporting period.

According to information kept on record by OCWA, the New Liskeard Drinking Water System failed to meet the following regulatory requirements set out in the above mentioned legal instruments.

*Table 14: Requirements the System Failed to Meet*

Legislation	Requirement(s) not Met	Details	Corrective Action(s)
Schedule 16 of O. Regulation 170/03, DWWP No. 218-203, Ministry’s Watermain Disinfection Procedure (2015)	An immediate verbal notification to the Ministry of Health and the Ministry’s Spills Action center was not provided following a loss of pressure associated with a watermain repair that occurred during the early morning hours of February 16 <sup>th</sup> . The watermain was returned to service prior to the issuance of a Boil Water Advisory (BWA).  Communication was not effectively established between the City’s on-call operator and OCWA’s on-call operator, as information was exchanged via text and the message was missed.	The City’s on-call operator responded to a watermain break at approx. 4:00 AM and called OCWA’s on-call operator at 4:40 AM to notify the Health Unit. OCWA requested details before contacting the local Health Unit (MOH). The City operator texted the on-call operator’s cell, and the message was not received.  At 8:30 AM, OCWA contacted the City regarding missing information; the City re-sent the details at 8:45 AM. OCWA then notified the MOH and Ministry’s SAC. The MOH issued a precautionary BWA at 9:43 AM.  Meanwhile, the City operator returned the watermain to service at 5:30 AM, prior to the BWA notices being delivered to six affected homes, citing freezing concerns.	A joint training session with the City and OCWA operations was conducted on February 26, 2025 to reinforce responsibilities related to response and reporting during loss of pressure events, watermain breaks, and BWAs.

Also noted in this section, sixteen (16) adverse water quality incidents were reported to the Ministry's Spills Action Center during the reporting period. Refer to *Section 5 - Details of Notices Reported & Submitted to the Spills Action Center* on page 6 of this report for details.

## **11. Summary of Quantities and Flow Rates**

### **11.1 Flow Monitoring**

Municipal Drinking Water Licence (MDWL) No. 218-103 requires the owner to install a sufficient number of flow measuring devices to permit the continuous measurement and recording of:

- the flow rate and daily volume of water conveyed from the treatment system to the distribution system, and
- the flow rate and daily volume of water conveyed into the treatment system.

The system's Permit to Take Water (PTTW) No. 4417-AF2JAM requires that on each day water is taken from the source, the date, the volume of water taken on that date and the rate at which it was taken be recorded.

The New Liskeard drinking water system has two flow meters to monitor the raw water from each well entering the treatment plant and one to monitor the treated water entering the distribution system. These flow metering devices were calibrated in accordance to manufacturers' specifications on an annual basis and are operating as required.

### **11.2 Rated Capacity & Flow Rates**

The system's PTTW No. 4417-AF2JAM allows the plant to withdraw a maximum volume of 4000 cubic meters from each well each day and a total combined volume of 8000 cubic meters each day. A review of the raw water flow data indicates that the system did not exceed these allowable limits. The total daily volume of water taken from each well never exceeded the allowable limits. The maximum water taking from Well No. 3 was 2929 m<sup>3</sup>/day, the maximum taking from Well No. 4 was 2485 m<sup>3</sup>/day and the combined maximum was 5027 m<sup>3</sup>/day.

The Permit also allows a maximum flow rate of 4500 L/minute from each well. Well No. 3 and Well No. 4 operated within their allowable flow rates having a maximum flow rate of 3658 L/minute and 2839 L/minute respectively.

Condition 1.0 (1.1) to Schedule C of MDWL No. 218-103 states that the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system not exceed a maximum flow of 7865 m<sup>3</sup> on any calendar day. The New Liskeard DWS complied with this limit having a recorded maximum volume of 4678 m<sup>3</sup>/day, which is 59% of the rated capacity.

Table 15, Table 16, Table 17 and Table 18 provide the quantities and flow rates of water taken and produced during the reporting period, including monthly average flows, maximum daily flows and total monthly volumes. A comparison of the water data is made to the rated capacity

and flow rates specified in the system’s Permit to Take Water and the Municipal Drinking Water License.

Figure 1 is a comparison of the maximum allowed water taking identified in the system’s PTTW to the average and maximum raw water flows entering the water treatment plant.

Figure 2 is a comparison of the maximum rated capacity specified in the system’s MDWL to the average and maximum flows entering the treatment system.

**Table 19: 2025 – Historical Maximum Flows (2016 to 2025)**

**Table 15: 2025 – Monthly Summary of Water Takings from the Source (Well No. 3)**

Regulated by Permit to Take Water (PTTW) #4417-AF2JAM, issued November 2, 2016

<b>Well No. 3</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Annual</b>
Total Volume (m <sup>3</sup> )	50786	45302	49638	56248	57149	63269	61486	62027	52450	48363	45776	52114	644608
Average Volume (m <sup>3</sup> /d)	1638	1618	1601	1875	1843	2109	1983	2001	1748	1560	1526	1681	1765
Maximum Volume (m <sup>3</sup> /d)	1924	2125	2079	2567	2454	2542	2552	2659	2159	1882	1916	2929	2929
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Maximum Flow Rate (L/min)	3659	3580	3473	3337	3265	3296	3220	3410	3360	3297	3268	3214	3659
PTTW - Maximum Allowable Flow Rate (L/min)	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500

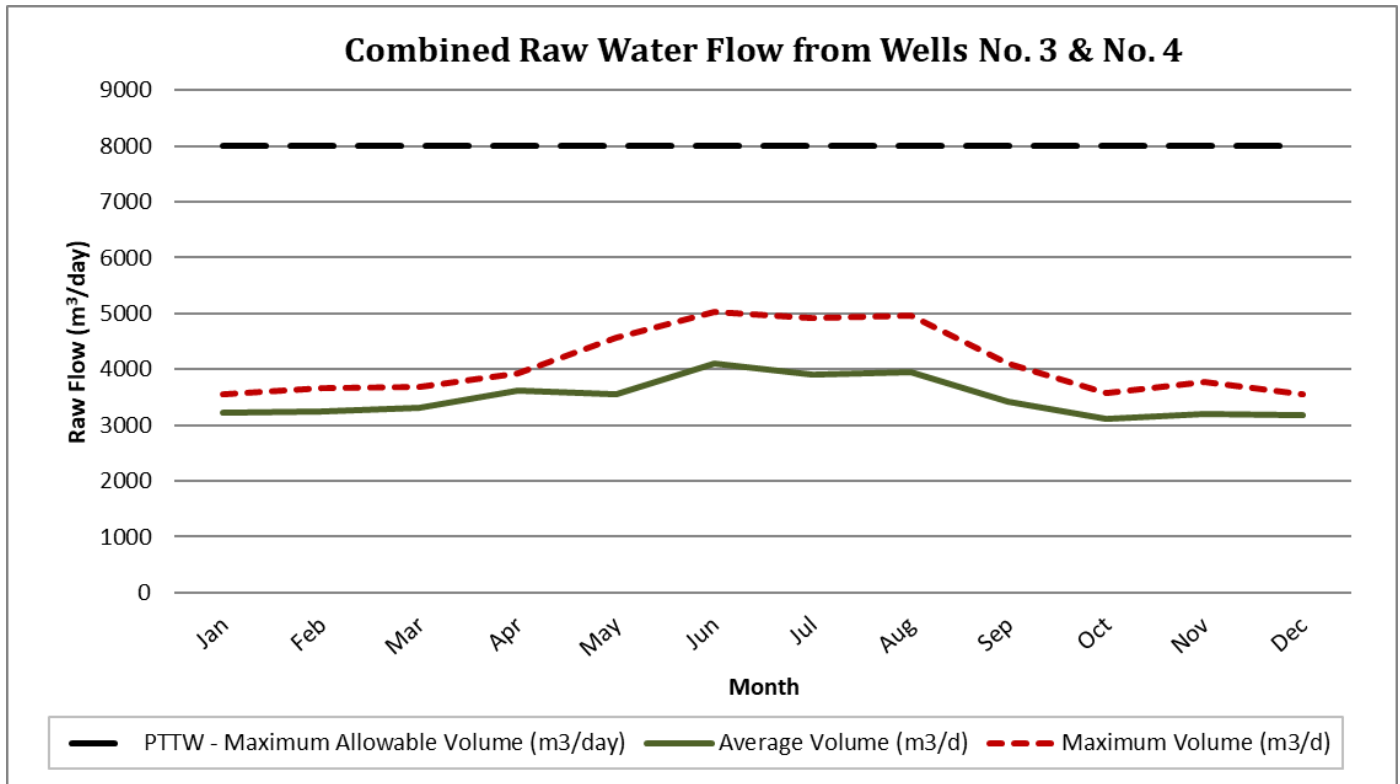
**Table 16: 2025 – Monthly Summary of Water Takings from the Source (Well No. 4)**

Regulated by Permit to Take Water (PTTW) #4417-AF2JAM, issued November 2, 2016

<b>Well No. 4</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Annual</b>
Total Volume (m <sup>3</sup> )	49221	45605	53049	52195	53203	59957	59406	60777	50410	47896	50445	46184	628348
Average Volume (m <sup>3</sup> /d)	1588	1629	1711	1740	1716	1999	1916	1961	1680	1545	1681	1490	1721
Maximum Volume (m <sup>3</sup> /d)	1925	2395	2107	2208	2277	2485	2376	2366	2015	1844	2051	1859	2485
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Maximum Flow Rate (L/min)	2839	2810	2764	2720	2751	2740	2695	2645	2564	2630	2615	2634	2839
PTTW - Maximum Allowable Flow Rate (L/min)	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500

*Table 17: 2025 – Monthly Summary of Combined Water Takings from the Source (Wells 3 & 4)*

Combined (Well 3 & 4)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Volume (m <sup>3</sup> )	100007	90907	102687	108443	110352	123226	120892	122804	102860	96259	96221	98298	1272956
Average Volume (m <sup>3</sup> /d)	3226	3247	3312	3615	3560	4108	3900	3961	3429	3105	3207	3171	3487
Maximum Volume (m <sup>3</sup> /d)	3555	3674	3686	3936	4556	5027	4928	4968	4108	3572	3783	3546	5027
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000



*Figure 1: Comparison of Raw Water Flows to the Maximum Allowable Water Taking*

*Table 18: 2025 – Monthly Summary of Treated Water Supplied to the Distribution System*

Regulated by Municipal Drinking Water Licence (MDWL) #218-103-3, issued July 23, 2021

Treatment Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Volume (m <sup>3</sup> )	92711	84325	95305	100488	102493	113981	111256	113676	94690	88629	88589	90936	1177079
Average Volume (m <sup>3</sup> /d)	2991	3012	3074	3350	3306	3799	3589	3667	3156	2859	2953	2933	3224
Maximum Volume (m <sup>3</sup> /d)	3264	3401	3451	3625	4227	4678	4567	4661	3770	3276	3459	3268	4678
MDWL - Rated Capacity (m <sup>3</sup> /day)	7865	7865	7865	7865	7865	7865	7865	7865	7865	7865	7865	7865	7865

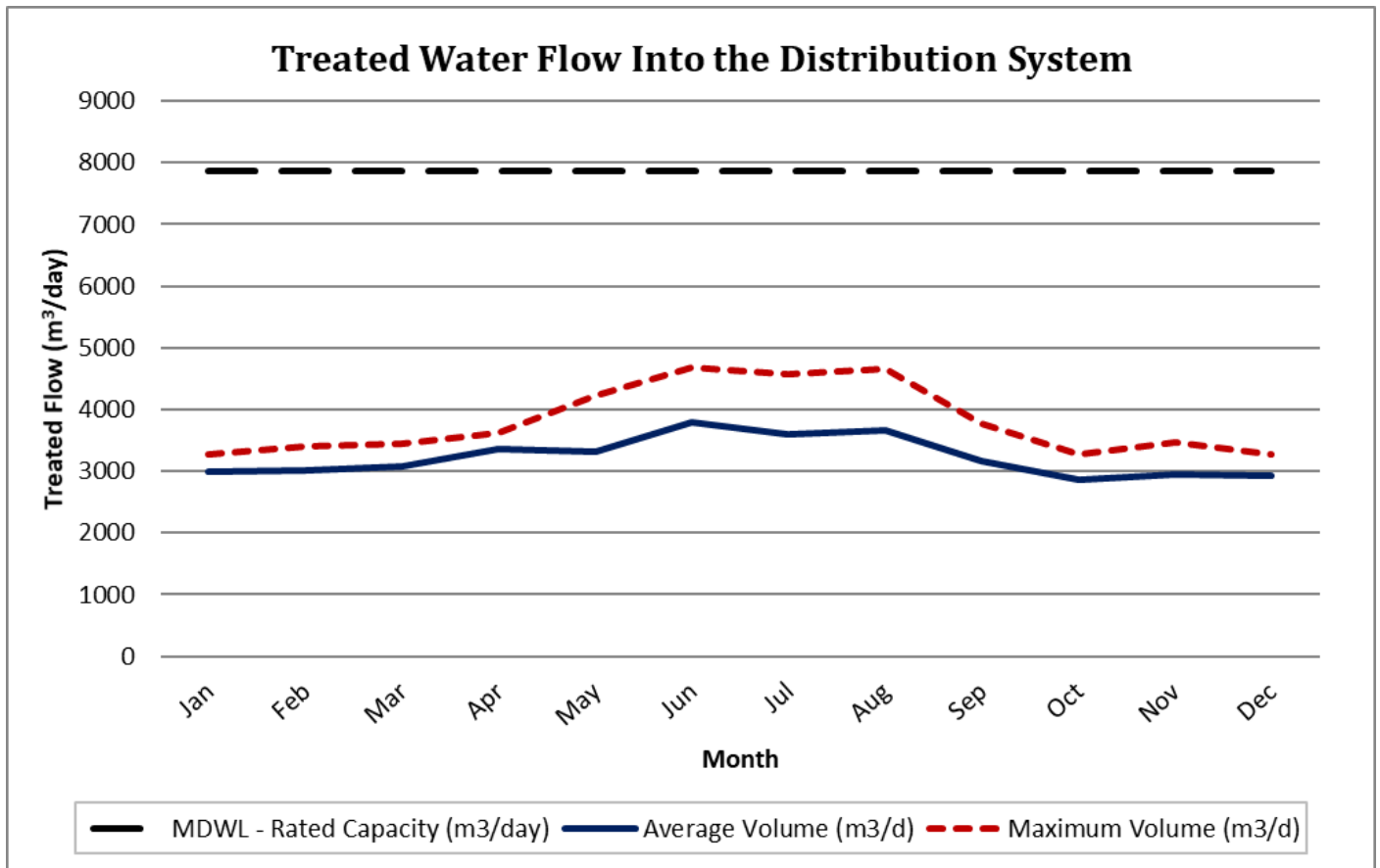


Figure 2: Comparison of Treated Flows to the Maximum Rated Capacity

### 11.3 System Performance

The following information is provided to enable the Owner to assess the capability of the system to meet existing and future water usage needs:

Rated Capacity of the Plant (MDWL)	7865 m <sup>3</sup> /day	
Average Daily Flow for 2025	3224 m <sup>3</sup> /day	41% of the rated capacity
Maximum Daily Flow for 2025	4678 m <sup>3</sup> /day	59 % of the rated capacity
Total Treated Water Produced in 2025	1,177,079 m <sup>3</sup>	

*Table 19: 2025 – Historical Maximum Flows (2016 to 2025)*

Year	Maximum Raw Flow (m <sup>3</sup> /d)	Max. Day % of PTTW Allowable (8000 m <sup>3</sup> /d)	Maximum Treated Flow (m <sup>3</sup> /d)	Max. Day % of MDWL Capacity (7865 m <sup>3</sup> /d)
2025	5027	63%	4678	59%
2024	5670	71%	5386	68%
2023	5296	66%	5073	65%
2022	5211	65%	4984	63%
2021	4885	61%	4708	60%
2020	5921	74%	6326	80%
2019	5464	68%	6112	78%
2018	6163	77%	5993	76%
2017	4602	58%	4511	57%
2016	5781	72%	5667	72%

## Conclusion

The water quality data collected in 2025 demonstrates that the New Liskeard drinking water system provided high quality drinking water to its users.

The system was able to operate in accordance with the terms and conditions of the Permit to Take Water and in accordance with the rated capacity of the Municipal Drinking Water Licence while meeting the community’s demand for water use.

Any non-compliances that were identified during the reporting period were addressed promptly and effectively. All Adverse Water Quality Incidents and related events that occurred during the reporting period were responded to and reported as per Schedule 16 of Ontario Regulation 170/03 under the Safe Drinking Water Act. All corrective actions were implemented and the incidents were resolved as soon as possible.



# **APPENDIX A**

## **Major Maintenance and Capital Expenditures**

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4334069			6211, New Liskeard WTP	CAP	Compliance	0		New Liskeard WTP Chemicals 6211	COMP		1/16/26 07:37 AM	1/16/26 07:37 AM	
4381090			6211, New Liskeard WTP	CAP	Compliance	0		Heard Street AWQI 6211	CLOSE		4/9/25 07:25 AM	4/9/25 07:25 AM	<p>Heard Street AWQI No.167394, 6211</p> <p>-</p> <p>Had a meeting with Trevor who was familiar with the break and to get insight on locations. Reviewed AQWI No.167394 report. Drove to 251 Heard St, the location of the break and spoke with the homeowner about sampling at there location. I was giving the ok to do so, they also had no water softener. I turned on the bathroom tap and flush for approx. 30 min.</p> <p>Collected the first set of water samples at break, upstream; downstream to check free chlorine residuals and collected bacti samples.</p>
4382258			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Replace Leaking Effluent Valve and Purchase 2 Spare Actuators 6211	CLOSE		4/9/25 07:26 AM	4/9/25 07:26 AM	
4382263			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Replace Failed CL-17 Water Feed Pump 6211	CLOSE		4/25/25 09:07 AM	4/25/25 09:07 AM	
4425725			6211, New Liskeard WTP	EMER	Refurbish/ Replace/Repair	0		Sump pump float failure at NL WTP drain for chlorine analyzers - Purchased and replaced float	CLOSE		3/10/25 12:56 PM	8/21/25 12:39 PM	
4425726			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		NL WTP - Failed sump pump float for Chlorine Analyzer drain, purchased and replaced float switch	CLOSE		3/10/25 02:40 PM	3/10/25 02:40 PM	-The operator on call was called for high level at the NL WTP due to failed float switch on the chlorine analyzer float drain. A new float was purchased and replaced.
4426805			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Replace Failed Pump Float for CL-17 Drain 6211	CLOSE		4/25/25 09:10 AM	4/25/25 09:10 AM	order parts
4486066			6211, New Liskeard WTP	CAP	Compliance	0		Cherry St AWQI 6211	CLOSE		5/29/25 12:37 PM	5/29/25 12:37 PM	

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4487955			6211, New Liskeard WTP	CAP	Compliance	0		Byam Valve Replacement AWQI 6211	CLOSE		5/7/25 11:03 AM	5/7/25 11:03 AM	Byam Valve Replacement AWQI 6211 - Called the Health and Unit and SAC to report a precautionary boil water advisory due to a watermain valve replacement. Arrived on site and collected water samples at site, upstream and downstream. Samples were put in the fridge in Haileybury and will be driving to KL Testmark tomorrow. Byam Valve Replacement AWQI 6211 -Collected bacti samples and residuals and drove them to KL Byam Valve Replacement AWQI 6211 - Worked with MOH to lift BWA on McKelvie St. Notified City that BWA was lifted.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4551939			6211, New Liskeard WTP	CAP	Compliance	0		Farah Hydrant Replacement Boil Water 6211	CLOSE		7/17/25 09:35 AM	7/17/25 09:35 AM	Farah Hydrant Replacement Boil Water 6211 (1st set) - On site for new Hydrant replacement on Farah Ave and Dixon St. BWA handed out by town. After repair and flushing of hydrant was done, I flushed the Upstream, at site and downstream sample locations for 15mins and collected and tested 1st set of Bactis. Farah Hydrant Replacement Boil Water 6211 (2nd set) - Collected and Tested the 2nd set of Bactis for the BWA on Farah and Dixon Hydrant Replacement work. Flushed each location for 15mins. Farah Hydrant Replacement Boil Water 6211 - Contacted Health Unit to lift BWA Contacted Owner that re the lifted notices Completed Resolution Report and submit to SAC, local MECP, MOH and Owner Completed Incident Summary Completed BWA/DWA form Emailed Owner details of the AWQI for the Dist. Repair and Maintenance Form Emailed documents to Corporate and operational staff

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4551940			6211, New Liskeard WTP	CAP	Compliance	0		Scott Street AWQI 6211	CLOSE		7/17/25 09:35 AM	7/17/25 09:35 AM	Scott Street AWQI 6211 (1st set) - On site for Valve replacement/repairs on Scott St. Area affected on Scott st and Jaffray st. Town to hand out BWA. Collected and treated 1st set of Bactis on Scott and Jaffray st for the BWA. Scott Street AWQI 6211 - Resolved AWQI - Contacted Health Unit to lift BWA, emailed lab reports - Contacted Owner that the lifted notices were issued - Completed Resolution Report and submit to SAC, local MECP, MOH and Owner - Completed Incident Summary - Completed BWA/DWA form - Emailed Owner details of the AWQI for the Dist. Repair and Maintenance Form - Emailed documents to Corporate and operational staff

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4552038			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Lakeshore AWQI 168145, 6211	CLOSE		6/4/25 11:08 AM	6/4/25 11:08 AM	Lakeshore AWQI 168145, 6211 - - Called the Health Unit and spoke with Renee Duval - Called SAC and received an AWQI No. 168145 Lakeshore AWQI 168145, 6211 - - Resolved AWQI No.168145 - Contacted Health Unit to lift BWA - Contacted Owner that the lifted notices were issued - Completed Resolution Report and submit to SAC, local MECP, MOH and Owner - Completed Incident Summary - Completed BWA/DWA form - Emailed Owner details of the AWQI for the Dist. Repair and Maintenance Form - Emailed documents to Corporate and operational staff
4556035			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Manitoulin Flow Meter and UV Sensor Replacement 6211	CLOSE		6/24/25 01:21 PM	6/24/25 01:21 PM	

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4604439			6211, New Liskeard WTP	CORR	Refurbish/ Replace/Repair	0		Changed Post 2 Solenoid at NL WTP, 6212	CLOSE		9/18/25 03:52 PM	9/18/25 03:52 PM	Changed Post 2 Solenoid at NL WTP, 6212 - Received a High Treated Chlorine alarm at NL WTP. Checked Scada and noticed the Treated chlorine reached above 3.0mg/L. Arrived on site and adjusted the following chlorinators;  Pre 1: 20 - 19.0 Post 1: 20.5 - 20 Pre 2: 18.5 - 18.0 Post 2: 19.5 - 19  Reviewed data logger till June 2/25 @ 18:42. Looks like the Pre chlorine has been fluctuating between 3.0mg/L - 1.50 mg/L ever since June 2. Which has been slowly increasing the Treated Chlorine residual. Might be a cause of the Solenoids. The Treated Chlorine has dropped down to around 2.00mg/L and Pre Chlorine around 1.60mg/L  Changed out Post 2 Solenoid with brand new one with Cassie. High lifts and low lifts were off during maintenance. Plant staring back up and monitoring Changed Post 2 Solenoid at NL WTP, 6212 -Changed the Post 2 Solenoid with Trevor. The defective one was the old body therefore I had to wire in the new one.

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4605964			6211, New Liskeard WTP, Process, Disinfection	CAP	Refurbish/ Replace/Repair	0		Loss of Chlorine dosage due to faulty backflow valve 6212	CLOSE		6/10/25 07:44 AM	6/10/25 07:44 AM	- Found no number 1 pre chlorinator dosage on chlorinator. No vacuum on injector so replaced injector with a new one with throat and tailway. Still no vacuum, traced problem to faulty backflow valve which had come apart internally. Replaced valve to restore dosage. At one point treated residual went below 0.40 so I performed a CT calculation and it was still good. City was flushing so plant still had to operate. Turned chlorine up on all chlorinators.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4607846			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Sacre Coeur School Fire 6211	CLOSE		6/20/25 09:58 AM	6/20/25 09:58 AM	Sacre Coeur School Fire 6211 - 20:58
4607877			6211, Dymond Reservoir	CAP	Refurbish/ Replace/Repair	0		Dymond Court Hydrant Flushing and Valve Exercising	CLOSE		7/9/25 12:25 PM	7/9/25 12:25 PM	
4609143			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Rebuild Brittle Chlorine Injection System For Pre and Post 6211	CLOSE		9/8/25 12:17 PM	9/8/25 12:17 PM	Ordered Parts -
4609144			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Replace Turbidity Analyzer Desiccant Packs filter 1 and 2 6211	CLOSE		8/11/25 10:38 AM	8/11/25 10:38 AM	
4660456			6211, New Liskeard WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Replace Ceiling Fan Speed Control Switch NL WTP 6211	CLOSE		9/25/25 12:38 PM	9/25/25 12:38 PM	
4661059			6211, Dymond Reservoir, Facility	CAP	Refurbish/ Replace/Repair	0		Trouble Shoot #1 VFD in Dymond with Xylem 6211	CLOSE		7/17/25 10:06 AM	7/17/25 10:06 AM	

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4662720			6211, New Liskeard WTP	CAP	Compliance	0		Hessle Ave Valve Replacement - AQWI No. 169040	CLOSE		9/18/25 03:53 PM	9/18/25 03:53 PM	Hessle Ave St Valve Replacement - AQWI No. 169040 -Drove to the Hessle Ave and located the "site" sample location and the two "up" stream locations. Flushed for approx. 1 hours then collected water sample to test free chlorine residual and collected bacti samples. Hessle Ave Valve Replacement - AQWI No. 169040 -Collected second set of water samples in distribution system for precautionary boil water advisory - AWQI No. 169040 Drove samples to KL Complete/send, train Trevor on Resolution Report -Sent lab results to MOH, then they send the BWA lift notice. Then completed the resolution report, sent to all parties and trained Trevor.
4664912			6211, New Liskeard WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Chlorinator Rebuild 4 New Liskeard WTP and 2 Hail WTP 6211	BUSCOMP		12/17/25 10:25 AM	12/31/25 12:25 PM	-Completed Chlorinator 2 rebuild and started on #1 at the Haileybury WTP. -Completed NL and Hail WTP rebuilt
4665071			6211, New Liskeard WTP	CORR	Refurbish/ Replace/Repair	0		Replace SW CW exhaust fan NLwtp 6211	CLOSE		7/31/25 08:33 AM	7/31/25 08:33 AM	-Replace CW exhaust fan motor. Inspect N CW fan and reposition squirrel cage fan on motor shaft as it was rubbing on the frame.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4709244			6211, New Liskeard WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Robert St AWQI 169394	CLOSE		8/26/25 11:31 AM	8/26/25 11:31 AM	Robert St AWQI 169394 - Provided local MOH lab reports to lift the BWA. Prepared and submitted the AWQI Notification Report (2B) to MECP SAC, MOH, Owner and local MECP. Prepared and submitted OCWA's BWA/DWA form Filled all documentation in the shared Public Drive
4709246			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Grant Drive AWQI 6211	CLOSE		8/28/25 09:17 AM	8/28/25 09:17 AM	Grant Drive AWQI 6211 - Provided local MOH lab reports to lift the BWA. Prepared and submitted the AWQI Notification Report (2B) to MECP SAC, MOH, Owner and local MECP. Prepared and submitted OCWA's BWA/DWA form Filled all documentation in the shared Public Drive

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 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4709282	0000293156	ANALYZER CHLORINE WTP TREATED	6211, New Liskeard WTP, Process, Disinfection	CORR	Refurbish/ Replace/Repair	0		Troubleshoot High Treated Chlorine Spikes at NL WTP 6211	CLOSE		10/9/25 09:05 AM	10/9/25 09:05 AM	Troubleshoot High Treated Chlorine Spikes at NL WTP 6211 -Received a call from the operator on call for an alarm at the WTP. Noticed the treated chlorine spiked up to 4.00mg/L and went back down. Looking at the trends, it has been spiking then instantly going back down for the last day or so. Went to site, shut the high lifts and well pumps off, removed the water feed line to the CL17 and there was restricted flow. Tried to flush it out, put it back together and reprimed the CL17 after cleaning and the residual was up and down from 1.80mg/L down to 1.55mg/L. We removed the feed line again, cleaned the strainer and increased the flow from the distribution header. The flow increased significantly enough to feed the CL17, out back together and reprimed. The residual came back to 1.54mg/L. Started the plant back up, and it stabilized at around 1.54mg/L
4710364			6211, New Liskeard WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Replace Faulty Clearwell Exhaust Fan Motors 6211	CLOSE		9/8/25 12:19 PM	9/8/25 12:19 PM	Ordered Parts -

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4759404			6211, New Liskeard Reservoir	CAP	Refurbish/ Replace/Repair	0		6211 Replace Defective Pilot on Main Distribution PRV	CLOSE		10/30/25 02:26 PM	10/30/25 02:26 PM	-The distribution pressure climbed above 78psi during the last couple of days and it was identified that the secondary PRV had to be calibrated in order to send water back to tank at 70psi to protect the system. It was also identified that the main distribution PRV had a faulty pilot which would not regulate the pressure at its usual 56psi. A new pilot was installed and calibrated and the system is not back to normal operation.
4759477			6211, Dymond Reservoir	CAP	Refurbish/ Replace/Repair	0		Exercise 2 Dist Valves and Flush Hydrant and winterize TSSHC	CLOSE		10/3/25 02:40 PM	10/3/25 02:40 PM	Exercise 2 Dist Valves and Flush Hydrant and winterize TSSHC -Hydrant flushing, valve exercising, and winterizing with Shannen. Exercise 2 Dist Valves and Flush Hydrant and winterize TSSHC -Flushed hydrant and winterized. Exercised main valve. See attached hydrant maintenance report for more information
4759600			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		RKB Hydrant Flushing and Winterizing 6211	CLOSE		10/3/25 02:43 PM	10/3/25 02:43 PM	RKB Hydrant Flushing and Winterizing 6211 -Performed hydrant flushing, valve exercising and flushing with Shannen RKB Hydrant Flushing and Winterizing 6211 -Flushed hydrant and winterized. See hydrant maintenance report for more information

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4760299			6211, New Liskeard WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Birch Drive Hydrant Replacement AWQI 6211	CLOSE		10/14/25 10:36 AM	10/14/25 10:36 AM	Sampling 1st set -Collected and tested 1st set of Bacti samples for AWQI (169817) valve and hydrant replacement on Birch Dr. Sampling 2nd set -Collected and tested 2st set of Bacti samples for AWQI (169817) valve and hydrant replacement on Birch Dr. Birch Drive Hydrant Replacement AWQI 6211 - Provided lab results to the NEPH to lift the BWA Notified Owner and operations that BWA lifted Prepared and submitted the Resolution (2B) Report to SAC, MOH, local MECP inspector, Owner. Completed the Incident Summary and OCWA's BWA/DWA form Provided all paperwork to Corporate Compliance and operations staff.
4762493			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Caroline Crt AWQI 6211	CLOSE		10/21/25 10:11 AM	10/21/25 10:11 AM	Caroline Crt AWQI 6211 -Collected 1st set of bactis for AWQI #169949 Caroline Crt AWQI 6211 -Completed 2nd set of bactis for AWQI #169949 Caroline Crt AWQI 6211 -BWA lifted at 9:05 AM. Prepared and submitted resolution report. Completed incident summary, BWA/DWA form, added comment in WISKI and filed AWQI package in Public Drive.

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4762525			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Pinewood Center Hydrant Flushing 6211	CLOSE		10/3/25 02:38 PM	10/3/25 02:38 PM	Pinewood Center Hydrant Flushing 6211 -Performed hydrant flushing and winterizing with Shannen Pinewood Center Hydrant Flushing 6211 -Flushed and winterized hydrant. See attached hydrant maintenance report for more information.
4762664			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Sutcliffe AWQI 6211	CLOSE		10/21/25 10:10 AM	10/21/25 10:10 AM	Sutcliffe AWQI 6211 -Collected 1st set of Bacti samples for AWQI #169932 for a watermain repair on Sutcliffe Crescent. Sutcliffe AWQI 6211 -Provided lab reports to the NEPH to lift the BWA issued for 20 homes. Notified City that the BWA was lifted. Prepared and submitted the AWQI Resolution Report (2B). Completed the BWA/DWA form. Entered the information in the Incident Summary.
4763432			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Replacement DR 300 for Distribution Crew 6211	CLOSE		11/3/25 12:33 PM	11/3/25 12:33 PM	

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4817349			6211, New Liskeard WTP	CAP	Compliance	0		OPP AWQI Golcic 6211	COMP		1/7/26 01:34 PM	1/7/26 01:34 PM	<p>OPP AWQI Golcic 6211            -Called to go to site to a flush hydrant and collect AWQI samples once the town livened the water after the contractor's fixed a 4" service on a private lot. Upon arrival, the town noticed the Hymax clamps were not tightened enough. The contractors corrected the issue then town livened up. I fully opened the end of the line hydrant and the town slowly livened up. Unfortunately, the line blew apart and filled the hole. Water was shutoff and the contractors proceeded to removed the water in the hole and fix the break again. Once the fix was complete, the owner backfilled with sand for compaction. However after some time, water surfaced and the job was put on hold till next week.</p> <p>OPP AWQI Golcic 6211            -Called to site because owner wanted the water turned on from City. I arrived onsite and opened the hydrant but still a leak therefore shut it down until Ray Lachapelle could camera and locate the exact location of the leak</p> <p>OPP AWQI Golcic 6211            -Collected bacti samples and chlorine residuals yesterday from the "barn", the opp station, and the college boreal facility.</p> <p>OPP AWQI Golcic 6211            -            -Contacted MOH to lift BWA. Provided lab reports Completed resolution form and submitted to MOH, SAC and City of Temiskaming Shores</p>

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4819441			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		HWY 11 Husky AWQI	CLOSE		11/3/25 12:45 PM	11/3/25 12:45 PM	HWY 11 Husky AWQI -Went to site and started tap. Collected residual and bacti at site, up and down. HWY 11 Husky AWQI -Arrived on site and spoke to town about sample locations. Went to locations and collected site, up and down. HWY 11 Husky AWQI (AWQI 170554) - Contacted NEPH and emailed lab reports to lift BWA Contacted Darrell Phaneuf at the City and provided BWA lift notice Completed Issue Resolution form (2B) and submit to SAC, MOH, local MECP, Owner Complete OCWA's BWA/DWS form Completed Incident Summary spreadsheet Compile and file in public drive

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4819538			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Drive in Theater AWQI 6211	CLOSE		11/3/25 05:32 AM	11/3/25 05:32 AM	Drive in Theater AWQI 6211 -Found 3 locations to sample and flushed tap once the water was turned on. The town operator was not getting a residual of 1.00mg/L after flushing therefore went with the benchmark residual. Once I got the confirmation, I took a residual and bacti at site, up and down. Drive in Theater AWQI 6211 -Collected second of sampling for AWQI Drive in Theater AWQI 6211 - Emailed lab reports and contacted the Health Unit to lift the BWA on Laurette St. Spoke with Owner to ensure they received the lift notice to deliver to affected residences Completed and submitted the Resolution Report (2B) to SAC, MOH, local MECP, Owner, Operations, Corporate Completed OCWA's BWA/DWA Form and Incident Summary Filed paperwork
4860817			6211, Dymond Reservoir	CAP	Refurbish/ Replace/Repair	0		Dymond Res Vent Screen Replacement 6211	CLOSE		11/6/25 10:42 AM	11/6/25 10:42 AM	

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4860832			6211, New Liskeard Reservoir	CAP	Refurbish/ Replace/Repair	0		PM Kit For Failed Backflow Preventer At Dy Rez 6211	BUSCOMP		11/25/25 09:20 AM	11/27/25 11:09 AM	PM Kit For Failed Backflow Preventer At Dy Rez 6211 -Tested backflow preventer and the 2nd check valve was leaking along with some of the test ports. I disassembled the backflow preventer, replaced both check valves, the retainer and test cocks 3, 4, and 5. It is extremely corroded internally. I retested it and check 1 held where as check 2 was still leaking, meaning it doesn't pass inspection. I took it apart and cleaned it about 3 times to try and remove the debris, but it still didn't pass. I believe it is too corroded internally therefore it is leaking around the check valve. It will need to be replaced
4861411			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Test Work Order for Billing	CLOSE		11/6/25 02:34 PM	11/6/25 02:36 PM	testing -
4862595			6211, Dymond Reservoir	CAP	Refurbish/ Replace/Repair	0		Replace Failed Backflow Preventer Dymond Rez 6211	BUSCOMP		12/1/25 01:32 PM	12/11/25 11:55 AM	Replace Failed Backflow Preventer Dymond Rez 6211 -Replaced the backflow preventer with a new one with Chris. Tested and it passed. See attached report
4864651			6211, New Liskeard WTP	CAP	Refurbish/ Replace/Repair	0		Whitewood Valve Replacement AWQI 6211	BUSCOMP		12/8/25 03:20 PM	12/19/25 03:21 PM	Whitewood Valve Replacement AWQI 6211 - Contacted MOH to lift BWA on Whitewood Ave. Notified City that the BWA was lifted and to hand deliver the notices Completed and submitted the Resolution (2B) Report to MOH, SAC, Owner and local MECP Prepared OCWA's BWA/DWA form, completed incident summary, and made entry in logbook. Filed all associated documents in the public drive

## Workorder Summary Report

 Report Start Date: Jan 1, 2025 12:00 AM  
 Report End Date: Dec 31, 2025 11:59 PM  
 Location: 6211\*  
 Work Order Type: CAP,CORR,EMER  
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4906531			6211, New Liskeard WTP	CAP	Compliance	0		Pine Hydrant and Valve Replacement AWQI 6211	BUSCOMP		12/17/25 10:35 AM	1/2/26 11:53 AM	Pine Hydrant and Valve Replacement AWQI 6211 - Provided lab reports to the local Health Unit to lift the BWA Contacted Owner to ensure BWA lift notice was received. Prepared and submitted the Resolution Report Completed OCWA's BWA/DWA Report Entered information in the Incident Summary, WISKI and Client Report Filed associated documents in the Public Drive
4906787			6211, New Liskeard Reservoir	CORR	Refurbish/ Replace/Repair	0		Loss of Comm at NL WTP and NL Res	COMP		12/17/25 01:15 PM	12/17/25 01:15 PM	Loss of Comm at NL WTP and NL Res -Assisted Danny with monitoring SCADA while trying to reset the radios to get communication back. The NL Res wouldn't come back after trying to reset for 3 hours. I contacted Bryce to let him know that the communication wasn't coming back and he contacted Brad Hearn from the town to look into the issue.



# **APPENDIX B**

## **Summary of Adverse Water Quality Incidents (AWQIs)**

# New Liskeard DWS

## Notices Reported & Submitted to the Spills Action Center

Incident #1: Emergency Watermain Repair/ Loss of Pressure/ BWA

<b>AWQI No.</b>	167394
<b>Date</b>	February 16, 2025
<b>Details</b>	A watermain break caused by water hammer resulted in a loss of pressure to 6 residences on Heard Street between Armstrong St. North to Haliburton Ave. West. The local Health Unit issued a precautionary BWA for the affected homes.
<b>Corrective Actions</b>	After the repair was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (0.98 mg/L). Two sets of 3 bacteriological samples were collected 24 hours apart (1 upstream, 1 downstream and 1 at the site of the break) on February 18 <sup>th</sup> and 19 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on February 21 <sup>st</sup> at 10:45 AM.

Incident #2: Emergency Watermain Repair/ Loss of Pressure/ BWA

<b>AWQI No.</b>	167811
<b>Date</b>	April 8, 2025
<b>Details</b>	A watermain break caused by deterioration resulted in a loss of pressure to approximately 20 residences on Cherry Road. The area was isolated to replace a nine foot section of watermain with 4" blue brute. The local Health Unit issued a precautionary BWA for the affected homes.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.00 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work) 24 hours apart on April 8 <sup>th</sup> and 9 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on April 11 <sup>th</sup> at 10:00 AM.

Incident #3: Emergency Valve Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	167887
<b>Date</b>	April 16, 2025
<b>Details</b>	A watermain on the corner of McKelvie Street and Byam Avenue was isolated to replace a faulty valve. This resulted in a loss of pressure to approximately 65 residences. The local Health Unit issued a precautionary BWA for the affected homes.

# New Liskeard DWS

## Notices Reported & Submitted to the Spills Action Center

### Incident #3: Emergency Valve Replacement/ Loss of Pressure/ BWA

<b>Corrective Actions</b>	<p>After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.02 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work) 24 hours apart on April 16<sup>th</sup> and 17<sup>th</sup>. Sample results were acceptable having zero total coliforms and <i>E.coli</i>.</p> <p>The MOH lifted the BWA on April 19<sup>th</sup> at 9:40 AM.</p>
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### Incident #4: Planned Hydrant Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	168105
<b>Date</b>	May 5, 2025
<b>Details</b>	<p>A planned fire hydrant replacement on the corner of Farah Avenue and Dixon Street required the isolation of a watermain. This resulted in a loss of pressure to 4 houses and one apartment building (4 units). The local Health Unit issued a precautionary BWA for the affected residences.</p>
<b>Corrective Actions</b>	<p>After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (0.89 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work) 24 hours apart on May 5<sup>th</sup> and 6<sup>th</sup>. Sample results were acceptable having zero total coliforms and <i>E.coli</i>.</p> <p>The MOH lifted the BWA on May 8<sup>th</sup> at 3:00 PM.</p>

### Incident #5: Planned Valve Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	168125
<b>Date</b>	May 7, 2025
<b>Details</b>	<p>A planned valve replacement on Scott Street required the isolation of a watermain. This resulted in a loss of pressure to 41 homes, one apartment building and 2 businesses on sections of Jaffray Street and Scott Street. The local Health Unit issued a precautionary BWA for the affected area.</p>
<b>Corrective Actions</b>	<p>After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.45 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work) 24 hours apart on May 7<sup>th</sup> and 8<sup>th</sup>. Sample results were acceptable having zero total coliforms and <i>E.coli</i>.</p> <p>The MOH lifted the BWA on May 12<sup>th</sup> at 8:45 AM.</p>

# New Liskeard DWS

## Notices Reported & Submitted to the Spills Action Center

Incident #6: Planned Valve Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	168145
<b>Date</b>	May 8, 2025
<b>Details</b>	A planned valve replacement on Lakeshore Road North required the isolation of a watermain. This resulted in a loss of pressure for 30 homes and 1 business on Lakeshore Road North (from Broadwood Ave to Melville St, including Bay St and Spion-Kop Rd.). The local Health Unit issued a precautionary BWA for the affected area.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.26 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work) 24 hours apart on May 8th and 9th as requested by the HU. Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on May 12 <sup>th</sup> at 8:45 AM.

Incident #7: Planned Valve Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	169040
<b>Date</b>	July 17, 2025
<b>Details</b>	A planned valve replacement on Hesse Avenue required the isolation of a watermain affecting 13 homes and 1 school. The local Health Unit issued a precautionary BWA for the affected homes/school.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed for 45 minutes until an acceptable free chlorine residual was achieved (1.00 mg/L). Two sets of 3 bacteriological samples were collected (2 upstream, and 1 near the site of the work due to this being a dead end) 24 hours apart on July 18 <sup>th</sup> and 19 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on July 21 <sup>st</sup> at 10:01 AM.

Incident #8: Planned Valve Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	169394
<b>Date</b>	August 13, 2025
<b>Details</b>	A planned valve replacement resulted in a loss of pressure to 40 homes on Robert St. (from Pine Ave, E. to Hessel Ave.), on Pine Ave. E. (from Katherine St. to Robert St) and on Haliburton Ave. E. (from Robert St. to McKelvie Ave.).

# New Liskeard DWS

## Notices Reported & Submitted to the Spills Action Center

Incident #8: Planned Valve Replacement/ Loss of Pressure/ BWA

<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.03 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work ) 24 hours apart on August 13 <sup>th</sup> and 14 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on August 18 <sup>th</sup> at 12:05 PM.
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Incident #9: Planned Hydrant Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	169415
<b>Date</b>	August 14, 2025
<b>Details</b>	A planned hydrant replacement resulted in a loss of pressure to 1 business on Grant Drive (Benson's Auto Parts).
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.00 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work ) 24 hours apart on August 14 <sup>th</sup> and 15 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on August 18 <sup>th</sup> at 12:10 PM.

Incident #10: Planned Hydrant and Valve Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	169817
<b>Date</b>	September 9, 2025
<b>Details</b>	A hydrant and valve replacement resulted in a loss of pressure to 12 homes on Birch Drive (between Cherry Street and Scott Street). The local Health Unit issued a precautionary BWA for the affected residences.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved. Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work ) 24 hours apart on September 9 <sup>th</sup> and 10 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on September 12 <sup>th</sup> at 1:40 PM.

# New Liskeard DWS

## Notices Reported & Submitted to the Spills Action Center

Incident #11: Watermain Break/ Loss of Pressure/ BWA

<b>AWQI No.</b>	169932
<b>Date</b>	September 16, 2025
<b>Details</b>	A watermain repair resulted in a loss of pressure to 20 homes on Sutcliffe Crescent. The local Health Unit issued a precautionary BWA for the affected residences.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.11 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work ) 24 hours apart on September 16 <sup>th</sup> and 17 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on September 19 <sup>th</sup> at 1:30 PM.

Incident #12: Planned Valve Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	169949
<b>Date</b>	September 18, 2025
<b>Details</b>	A planned valve replacement resulted in a loss of pressure to 38 homes in Dymond, on Caroline Court and Crystal Crescent between Colette Street and Zetta Court. The local Health Unit issued a precautionary BWA for the affected residences.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was flushed until an acceptable free chlorine residual was achieved (1.01 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work ) 24 hours apart on September 18 <sup>th</sup> and 19 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on September 22nd at 9:05 AM.

Incident #13: Planned Valve and Hydrant Replacement/ Loss of Pressure/ BWA

<b>AWQI No.</b>	170554
<b>Date</b>	October 28, 2025
<b>Details</b>	A planned valve and hydrant replacement resulted in a loss of pressure to 2 businesses on Hwy 11 (Northway Chrysler and Husky House Restaurant). The local Health Unit issued a precautionary BWA for the affected businesses.

# New Liskeard DWS

## Notices Reported & Submitted to the Spills Action Center

Incident #13: Planned Valve and Hydrant Replacement/ Loss of Pressure/ BWA

<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was thoroughly flushed until an acceptable free chlorine residual was achieved (1.41 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work) 24 hours apart on October 28 <sup>th</sup> and 29 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on October 31, 2025 at 1:30 PM.
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Incident #14: Planned Valve and Hydrant Replacement/ Loss of Pressure / BWA

<b>AWQI No.</b>	170556
<b>Date</b>	October 29, 2025
<b>Details</b>	A planned valve and hydrant replacement resulted in a loss of pressure to 20 homes on Drive-in-Theater Road. The local Health Unit issued a precautionary BWA for the affected residences.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was thoroughly flushed until an acceptable free chlorine residual was achieved (0.83 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work), 24 hours apart on October 29 <sup>th</sup> and 30 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on November 3, 2025 at 9:47 AM.

Incident #15: Planned Valve Replacement/ Loss of Pressure / BWA

<b>AWQI No.</b>	170855
<b>Date</b>	November 26, 2025
<b>Details</b>	A planned valve replacement resulted in a loss of pressure to 11 commercial buildings and 1 residence on Whitewood Avenue between Armstrong Street and Riverside Drive. The local Health Unit issued a precautionary BWA for the affected area.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was thoroughly flushed until an acceptable free chlorine residual was achieved (1.05 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work), 24 hours apart on November 27 <sup>th</sup> and 28 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on December 1, 2025 at 10:30 AM.

# New Liskeard DWS

## Notices Reported & Submitted to the Spills Action Center

Incident #16: Planned Valve Replacement/ Loss of Pressure / BWA

<b>AWQI No.</b>	170935
<b>Date</b>	December 3, 2025
<b>Details</b>	A planned hydrant and valve replacement resulted in a loss of pressure to 11 homes on Pine Street West (between Beavis Terrace and Heard Street). The local Health Unit issued a precautionary BWA for the affected homes.
<b>Corrective Actions</b>	After the work was complete and pressure restored, the area was thoroughly flushed until an acceptable free chlorine residual was achieved (1.0 mg/L). Two sets of 3 bacteriological samples were collected (1 upstream, 1 downstream and 1 near the site of the work), 24 hours apart on December 3 <sup>rd</sup> and 4 <sup>th</sup> . Sample results were acceptable having zero total coliforms and <i>E.coli</i> .  The MOH lifted the BWA on December 8, 2025 at 10:40 AM.



# **APPENDIX C**

## **Monthly Summary of Microbiological & Operational Test Results**

**NE\_New Liskeard DWS\_Annual Reg Report**

Facility Name: NEW LISKEARD  
DRINKING WATER SYSTEM  
Receiver:

Facility Org Number: 6211  
Facility Owner: Municipality: City of Temiskaming  
Shores

Works: 220000344  
Facility Classification: Class 1 Water Treatment  
Total Design Capacity: 7865 m3/day



From 01/01/2025 to 12/31/2025

Raw Water														2025			
Well 3	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min	
E. Coli: EC - cfu/100mL																	
Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
Total Coliform: TC - cfu/100mL																	
Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
Turbidity - NTU																	
IH Edited Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	3.00	4.00	4.00	5.00	50.00				
IH Month.Max	0.31	0.41	0.63	0.51	0.82	1.10	0.75	0.64	0.62	2.00	0.46	0.79			2.00		
IH Month.Mean	0.25	0.33	0.47	0.34	0.47	0.77	0.64	0.51	0.54	1.01	0.39	0.71		0.54			
IH Month.Min	0.18	0.20	0.30	0.23	0.30	0.20	0.53	0.40	0.43	0.41	0.31	0.62				0.18	
Well 4																	
Well 4	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min	
E. Coli: EC - cfu/100mL																	
Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
Total Coliform: TC - cfu/100mL																	
Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
Turbidity - NTU																	
IH Edited Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
IH Month.Max	0.55	1.74	0.50	0.44	0.74	1.05	0.95	0.65	0.86	1.24	0.80	0.70			1.74		
IH Month.Mean	0.40	0.62	0.41	0.24	0.45	0.73	0.84	0.44	0.60	0.62	0.56	0.60		0.55			
IH Month.Min	0.27	0.21	0.34	0.16	0.22	0.42	0.71	0.27	0.33	0.20	0.35	0.42				0.16	

**NE\_New Liskeard DWS\_Annual Reg Report**

Facility Name: NEW LISKEARD  
DRINKING WATER SYSTEM  
Receiver:

Facility Org Number: 6211  
Facility Owner: Municipality: City of Temiskaming  
Shores

Works: 220000344  
Facility Classification: Class 1 Water Treatment  
Total Design Capacity: 7865 m3/day



From 01/01/2025 to 12/31/2025

<b>Treated Water</b>																
Treated Water POE	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min
Cl Residual: Free (Min 0.40 mg/L) - mg/L																
OL Month.Max	1.75	1.64	1.77	1.87	4.88	3.09	2.29	4.02	2.00	1.93	1.81	1.96			4.88	
OL Month.Mean	1.47	1.46	1.50	1.54	1.45	1.63	1.66	1.57	1.54	1.51	1.48	1.51		1.53		
OL Month.Min	1.02	1.01	1.12	1.09	0.90	0.35	1.27	1.12	0.79	1.08	1.00	1.05				0.35
E. Coli: EC - cfu/100mL																
Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	
Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
HPC - cfu/mL																
Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
Lab Month.Max	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	40.00	80.00	< 10.00	10.00	10.00			80.00	
Lab Month.Mean	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	17.50	32.00	< 10.00	< 10.00	< 10.00		< 12.69		
Lab Month.Min	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00				< 10.00
Total Coliform: TC - cfu/100mL																
Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	
Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
<b>Distribution Water</b>																
1st Bacti/Residual	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min
Cl Residual: Free - mg/L																
IH Edited Count	9.00	8.00	9.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	8.00	10.00	106.00			
IH Month.Max	1.08	1.09	1.20	1.20	1.18	1.25	1.31	1.51	1.29	1.38	1.33	1.31			1.51	
IH Month.Mean	1.03	0.99	0.95	1.04	1.02	1.12	1.15	1.28	1.06	0.99	1.07	1.04		1.06		
IH Month.Min	0.94	0.82	0.63	0.91	0.91	0.90	1.03	1.05	0.85	0.78	0.83	0.92				0.63
E. Coli - cfu/100mL																
Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	
Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00



