

North Shore Water Utility Nelson Ltd. Monthly Report

To: Jennifer Beverly, Large Water Systems Environmental Health Officer, Interior Health Authority
From: Aqua Diversities Waterworks Inc.
Date: February 7th, 2025
Re: Monthly Report for North Shore Water Utility - **January 2025**

This document includes the following items as part of the monthly report for the North Shore Water Utility Nelson Ltd. (NSWU):

- 1.0 Daily Water Consumption**
- 2.0 Microbiological Test Results**
- 3.0 Operator Log Sheets and Water Quality Events**
- 4.0 Major Operational Events**
- 5.0 Records of Customer Feedback and Response**

Submission of this report is to enhance communication with the local Environment Health Officer (EHO) and meet requirements for status compliance on the conditions summarized in the Operating Permit.

1.0 Daily Water Consumption

Total water consumption in January was 4,854m³; average daily consumption was 156.5m³/day. The average flow was 6.52m³/hr.

2.0 Microbiological Test Results

A sample from both ends of the distribution system is collected and submitted to an accredited laboratory for bimonthly microbiological testing.

All monthly testing results satisfy the Maximum Allowable Concentration (MAC) standard as set out by the Guidelines for Canadian Drinking Water Quality (GCDWQ).

See **Appendix A** for Laboratory Results

3.0 Operator Log Sheets and Water Quality Events

NSWU continues to be tested on an every-other-day schedule as specified by the EHO. The log sheets include comments on the source, treatment, and distribution system events. Log sheets also include information on the weather for the corresponding test date, which helps correlate weather events to turbidity levels.

Throughout the month of January, chlorine residuals were maintained above 0.2 mg/L across the distribution system.

See **Appendix B** for Operator Log Sheets.

4.0 Major Operational Events

A break in the main line at the intersection of Parkview and Parkview west. The line was exposed with HVAC and excavator then the line was repaired and buried back to grade. Customers in affected area were notified of brief water shut off to complete repairs.

5.0 Records of Customer Feedback and Response

There were no customer inquiries in the month of January.

Report Reviewed by:

A handwritten signature in black ink, appearing to read "Nicole Ward".

Nicole Ward, BSc.P.Ag. Project Manager

Appendix A

Laboratory Results

ANALYTICAL RESULTS

Sample ID	Main Jet	Sample #	1
Date/Time Sampled	2025-01-14 11:00 AM	Matrix	TW
		Temperature on Receipt	7

Date/Time on Test 2025-01-14 5:00 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	NCCS 570 Johnstone Rd.	Sample #	2
Date/Time Sampled	2025-01-14 11:00 AM	Matrix	TW
		Temperature on Receipt	7

Date/Time on Test 2025-01-14 5:05 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

ANALYTICAL RESULTS

Sample ID	Main Jet	Sample #	1
Date/Time Sampled	2025-01-28 11:00 AM	Matrix	TW
		Temperature on Receipt	4

Date/Time on Test 2025-01-28 4:25 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Sample ID	NCCS 570 Johnstone Rd.	Sample #	2
Date/Time Sampled	2025-01-28 11:00 AM	Matrix	TW
		Temperature on Receipt	5

Date/Time on Test 2025-01-28 4:30 PM

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>
Coliforms, Total	less than 1	CFU/100mL	1
Verified E.coli	less than 1	CFU/100mL	1

Glossary of Terms

Less than 1	Less than the Reportable Detection Limit, except under circumstances where the detection limit is higher due to interferences, insufficient sample volume, or dilutions.
APHA	American Public Health Association
CFU/100mL	Colony Forming Units per 100 milliliters
Matrix	SW = Surface water, TW = Treated water, DW = Distribution water, UGW = Untreated Ground water, RW = Raw water
RDL	Reportable Detection Limit

Appendix B

Operator Log Sheet

North Shore Water Utility Nelson Ltd. Monthly Report
14-017 January_2025 MR V1.0.docx

Appendix C

Field Memos

FIELD WORK MEMO

JAN 15TH 2025 OH 9.5HRS FD 9.5HR BA 8HRS
DATE: TIME: VEHICLE: ☒ PERSONAL ☐ COMPANY DISTANCE: PROJECT: 14-017 NSWU LEAK REPAIR TYPE OF WORKS: WORKS REQUESTED:

FIELD TECH: OH, FD, BA

SITE REP: ☐ YES ☒ NO

MATERIALS: IN STOCK ☐ PURCHASED ☒

RECEIPTS: ☒ YES ☐ NO

- 1X SS BARBED COUPLING 2"
- 4X SS CLAMPS
- 1/3 YARD SAND

DESCRIPTION OF WORKS COMPLETED:

PICTURES: ☐ YES ☐ NO

- BC CALL, COORDINATED GAS LINE LOCATE, COORDINATED TURNING WATER OFF TO HOUSES
- HYDROVAC EXPOSED WATER LINE & GAS LINE
- REPAIRED LEAK, FLUSHED LINE & PRESSURE TESTED
- BACKFILLED WITH 1/3 YARD SAND, COMPACTED, BACKFILLED WITH DIRT FROM AREA
- BROUGHT SOME FILL IN

WORKS COMPLETED: ☐ YES ☐ NO

ANTICIPATED RETURN DATE:

FUTURE WORKS:

MATERIALS REQUIRED:

DO PARTS NEED TO BE ORDERED? ☐ YES ☐ NO

ADDITIONAL NOTES/SKETCHES:

- LEAK WAS ON UPPER PARKVIEW RD BESIDE 634
- LINE IS 2" WHITE STRIPE POLY, RATED FOR 75 PSI
- PRESSURE IS 68 PSI IN THIS AREA
- GAS LINE 3FT FROM EDGE OF RD, 30" DOWN
- WATER LINE 4FT DOWN 5.5FT FROM EDGE OF RD