

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: March 31st, 2025
Re: Monthly Report for North Shore Water Utility - **February 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 February was 4,620m³; average daily consumption was 165m³/day. The average flow was 6.87m³/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 February, 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

There were no major operational events for the month of February.

5.0 Records of Customer Feedback and Response

There were no customer inquiries in the month of February.

Report Reviewed by:

Nicole Ward, BSc.P.Ag. Project Manager

Appendix A

Laboratory Results

ANALYTICAL RESULTS

Sample ID	Main Jet				Sample #	1
Date/Time Sampled	2025-02-11	11:00 AM	Matrix	TW	Temperature on Receipt	5

Date/Time on Test 2025-02-11 4:15 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	2025-02-11	11:00 AM	Matrix	TW	Temperature on Receipt	6

Date/Time on Test 2025-02-11 4:20 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

References

ANALYTICAL RESULTS

Sample ID	Main Jet				Sample #	1
Date/Time Sampled	2025-02-25	11:00 AM	Matrix	DW	Temperature on Receipt	11
Date/Time on Test	2025-02-25	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	

Sample ID	NCCS 570 Johnstone Rd.				Sample #	2
Date/Time Sampled	2025-02-25	11:00 AM	Matrix	DW	Temperature on Receipt	10
Date/Time on Test	2025-02-25	5:10 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

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References

Appendix B

Operator Log Sheet

Date	Time	CL2 pump run time	CL2 pump pulse rate	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.)	CL2 Residual (Dist.)	Flow Meter Reading	Comments	Weather	Sampled By
MM/DD/YYYY	24:00:00			Isaac Cr. NTU	Isaac Cr. mg/L	mg/L	mg/L	m3/Hr		Precip./Temp.	
2/1/2025								95701			
2/2/2025											
2/3/2025											
2/4/2025	12:00	7.00	12.00	0.13	0.77	0.54	0.52	96129	Tested north shore	-4C	OH
2/5/2025											
2/6/2025											
2/7/2025	12:00	7.00	12.00	0.41	0.65	0.52	0.54	96651	added 1 carboy of chlorine to reservoir, tested north shore	-4	OH
2/8/2025											
2/9/2025	8:00	1.00	12.00	0.42	0.79				Remote monitoring		OH
2/10/2025											
2/11/2025	11:00	7.00	12.00	0.33	0.61	1.03	0.34	97315	tested north shore, Take microbac samples	-9	OH
2/12/2025											
2/13/2025											
2/14/2025	9:30	7.00	12.00	0.33	0.75	1.35	0.54	97813	Tested north shore	-6	OH
2/15/2025											
2/16/2025											
2/17/2025											
2/18/2025											
2/19/2025	1:30	7	12	0.39	1.46	1.34	1.32	98716	tested north shore, calibrate chlorine analyzer, added 1	1 cloudy	OH
2/20/2025											
2/21/2025	3:00	7	12	0.3	0.57	0.69	0.63	99049	Tested north shore	4c rain	OH
2/22/2025											
2/23/2025	8:00	7	12	0.3	0.87	-	-	-	remote monitoring		OH
2/24/2025											
2/25/2025	1:00	7	10	0.87	0.77	0.48	0.36	99732	testing north shore, collect microbac samples, check in	4c cloudy	OH
2/26/2025											
2/27/2025											
2/28/2025								100321			
Reading of flow meter for Sunny Side trailer court (to be recorded once a month)								Feb 7 88168			
								total Flow 4620			

Appendix C

Field Memos