

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: May 7th, 2025
Re: Monthly Report for North Shore Water Utility - April 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 April was 5,573m³; average daily consumption was 185.76m³/day. The average flow was 7.74m³/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 April, 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

On April 24 the water quality advisory issued March 27,2025 was rescinded.

5.0 Records of Customer Feedback and Response

There were no customer inquiries in the month of April.

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	2025-04-22 11:00 AM	Matrix	TW
		Temperature on Receipt	5

Date/Time on Test 2025-04-22 5:55 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	2025-04-22 11:00 AM	Matrix	TW
		Temperature on Receipt	8

Date/Time on Test 2025-04-22 6:00 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

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	2025-04-08	11:00 AM	Matrix DW	Temperature on Receipt	6
Date/Time on Test	2025-04-08	5:40 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	2025-04-08	11:00 AM	Matrix DW	Temperature on Receipt	6
Date/Time on Test	2025-04-08	5:43 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

Appendix B

Operator Log Sheet

Date	Time	CL2 pump duration	CL2 pump frequency	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	Microbiological Sample Taken/Filter Change/Etc.	Precip./Temp.	
4/1/2025											
4/2/2025	10:00	10	12	1.45	0.83	0.84	0.46	105995	testin north shore, touring Kurtis around NSWU		OH
4/3/2025											
4/4/2025	10:30	10	12	0.86	0.79	0.58	0.44	106367	Testing north shore	6c sunny	OH
4/5/2025											
4/6/2025	8:00	10	12	-	0.93	-	-	106831	remote monitoring		OH
4/7/2025											
4/8/2025	12:00	10	12	1.12	0.7	0.53	0.34	107117	collected microbac samples, test north shore	9c rain	OH
4/9/2025											
4/10/2025	1:00	10	12	-	0.72	0.36	0.37	107553	Tested north shore, pressure washing Isaac reservoir	10c	OH
4/11/2025											
4/12/2025	11:00	10	12	0.75	0.82	-	-	-	tested turbidity, check intakes, added 1 carboy of chlorine to reserv	14c	OH
4/13/2025											
4/14/2025											
4/15/2025											
4/16/2025	10:00	10	12	0.75	0.57	0.34	0.4	108564	Test north shore, add 1 carboy of chlorine to reservoir, calibrate cl2	9c	OH
4/17/2025											
4/18/2025	10:00	10	12	0.71	0.62	0.44	0.37	109051	Tested north shore		OH
4/19/2025	8:00	10	12	-	0.66	-	-	109238	Remote monitoring		OH
4/20/2025											
4/21/2025											
4/22/2025	9:00	10	12	0.64	0.72	0.72	0.67	109826	tested north shore, collected microbac samples,	14c	OH
4/23/2025											
4/24/2025	1:30	10	12	0.75	0.75	0.68	0.59	110150	remove water quality advisory signes	14c Sunny	OH
4/25/2025											
4/26/2025	8:00	10	12	-	0.79	-	-	110669	remote monitoring	20c	OH
4/27/2025											
4/28/2025											
4/29/2025	1:00	10	12	0.76	0.86	0.66	0.64	111324	test north shore	21c sunny	OH
4/30/2025								111568			
Reading of flow meter for Sunny Side trailer court (to be recorded once a month)						107145	Date: April 2, 2025				
						total flow	5573				