North Shore Water Utility Nelson Ltd. Monthly Report

To: Jennifer Beverly, Large Water Systems Environmental Health Officer, Interior Health Authority
From: AquaDiversities Waterworks Inc.
Date: Aug 20th, 2025
Re: Monthly Report for North Shore Water Utility - **July 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 July was 6,728m^3; average daily consumption was 217.0m^3/day. The average flow was 9.043m^3/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 July, 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

5.0 Records of Customer Feedback and Response

There were no customer inquiries in the month of July.

Report Reviewed by:



Nicole Ward, BSc.P.Ag. Project Manager

Appendix A
Laboratory Results

PASSMORE LABORATORY LTD.

Report# 8284
Filename 250715AD.pdf

ANALYTICAL RESULTS

Sample ID Main Jet — Sample # 1
Date/Time Sampled 2025-07-15 12:15 PM — Matrix TW — Temperature on Receipt 11 °C
Date/Time on Test 2025-07-15 4:35 PM

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

Sample ID 570 Johnstone Rd — Sample # 2
Date/Time Sampled 2025-07-15 12:15 PM — Matrix TW — Temperature on Receipt 10 °C
Date/Time on Test 2025-07-15 4:40 PM

Analyses	Result	Units	RDL
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

PASSMORE LABORATORY LTD.

Report# 8349
Filename 250729AD.pdf

ANALYTICAL RESULTS

Sample ID Main Jet — Sample # 1
Date/Time Sampled 2025-07-29 10:30 AM — Matrix TW — Temperature on Receipt 10 °C
Date/Time on Test 2025-07-29 3:30 PM

Analyses	Result	Units	RDL
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 2025-07-29 10:50 AM — Matrix TW — Temperature on Receipt 11 °C
Date/Time on Test 2025-07-29 3:35 PM

Analyses	Result	Units	RDL
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 Setting	CL2 pump duration	CL2 pump frequency	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	Cl2 Pump Setting	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.)	CL2 Residual (Dist.)	Flow Meter Reading	Comments	Weather	
MM/DD/YYYY	24:00:00	Isaac Cr. (1-10)	Isaac	Isaac	Isaac Cr. NTU	Isaac Cr. mg/L	Sutherland Cr.(1-10)	Sutherland Cr. NTU	Sutherland Cr. mg/L	mg/L	mg/L	m3/Hr	Microbiological Sample Taken/Filter Change/Etc.	Precip./Temp.	Sampled By
7/1/2025															
7/2/2025	12:30	-	9.00	12.00	0.26	0.79	7	0.63	1.05	0.56	1.01	125683	Microbiological Sample Taken	27C	TW FD
7/3/2025															
7/4/2025															
7/5/2025	8:00		9.00	12.00	0.18	0.77	7	-	-	-	-	-			FD
7/6/2025															
7/7/2025															
7/8/2025	2:00		9.00	12.00	0.31	0.81	7	0.46	0.96	0.59	0.72	127397		25C	FD
7/9/2025															
7/10/2025	3:00		9.00	12.00	0.18	0.85	7	0.39	0.89	0.45	0.8	127601		27C	FD
7/11/2025															
7/12/2025	8:00		9.00	12.00	0.19	0.73	7	-	-	-	-	-			FD
7/13/2025															
7/14/2025															
7/15/2025	12:00		9.00	12.00	0.18	0.67	6.5	0.55	1.35	0.64	0.61	128759	Microbac sample	19C	FD
7/16/2025															
7/17/2025															
7/18/2025	3:00		9	12	0.1	0.73	6.5	0.49	1.1	0.65	0.64	129470		25C	FD
7/19/2025	8:00		9	12	0.19	0.75	6.5	-	-	-	-	-		-	FD
7/20/2025															
7/21/2025															
7/22/2025	11:00		9	12	0.21	0.8	6.5	0.56	1	0.67	0.58	130333	Worked air bubbles out of cl2 lines at both reservoirs	17C rain	FD
7/23/2025															
7/24/2025	2:00	-	9	12	-	-	6.5	0.75	1.01	0.77	0.57	130808		25c sunny	TW
7/25/2025															
7/26/2025	8:00	-	9	12	0.2	0.63	6.5	-	-	-	-	-			TW
7/27/2025															
7/28/2025															
7/29/2025	12:00						6.5	0.83	1.44						
7/30/2025															
7/31/2025	10:00		9	12	o.67	0.96	6.5	0.62	1.38	o.90	1.1	132411		28C muggy	TW