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: January 22nd, 2026
Re: Monthly Report for North Shore Water Utility – **December 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 September was 4,798 m^3; average daily consumption was 154.8m^3/day. The average flow was 6.449m^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 December, chlorine residuals were maintained above 0.2 mg/L across the distribution system.

A water quality advisory (WQA) was posted on December 11th 2025 due to turbidity (NTU) levels being above 1.0 for more than 48 hours. The WQA stayed in effect for the rest month. Turbidity levels fluctuated around the 1.0 level due to heavy rainfall and unseasonally warm temperatures. Customers were notified by email, text alerts, the website and sandwich boards were put out in the community.

To try and mitigate this the Sutherland intake was cleaned several times and the chlorination rate was increased to ensure an appropriate residual at end of distribution.

AquaDiversities rescinded the WQA in early January 2026. This came after a several days of NTU readings below 1.0 and a passing micro bacterial sample. This was in alignment with the recommendations of the Environmental Health Officer.

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

4.0 Major Operational Events

The posting of the water quality advisory marks the only major operational event of the month.

5.0 Records of Customer Feedback and Response

There were no customer inquiries or feedback forms reported during the month of December.

Report Reviewed by:

Nicole Ward, BSc.P.Ag. Project Manager

Appendix A
Laboratory Results

PASSMORE LABORATORY LTD.

Report# 8868
Filename 251216AD.pdf

ANALYTICAL RESULTS

Sample ID	Main Jet					Sample #	1
Date/Time Sampled	2025-12-16	11:30 AM	Matrix	DW	Temperature on Receipt	8	°C
Date/Time on Test	2025-12-16	5:15 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	2025-12-16	11:00 AM	Matrix	DW	Temperature on Receipt	8	°C
Date/Time on Test	2025-12-16	5:20 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

December 17, 2025

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PASSMORE LABORATORY LTD.

Report# 8907
Filename 251229AD.pdf

ANALYTICAL RESULTS

Sample ID	655 Villa Motel				Sample #	1
Date/Time Sampled	2025-12-29	10:00 AM	Matrix	TW	Temperature on Receipt	9 °C
Date/Time on Test	2025-12-29	5:10 PM				

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

Sample ID	538 Johnstone Rd				Sample #	2
Date/Time Sampled	2025-12-29	10:30 AM	Matrix	TW	Temperature on Receipt	9 °C
Date/Time on Test	2025-12-29	5:10 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

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Appendix B
Operator Log Sheet

NORTH WATER SHORE UTILITY Nelson Ltd.
304 - 625 Front Street
Nelson, BC | V1L 4B6
www.northshorewaterutility.com

NSWU Operator Log

Month: Dec-25

Date	Time	Cl2 Pump Setting %	CL2 pump duration	CL2 pump frequency	Treated Turbidity (Res.)	CL2 Residual (Res.)	Cl2 Pump Setting	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.) MainJet	CL2 Residual (Dist.) 570 Johnstone Rd	Flow Meter Reading	Comments	Weather	
MM/DD/YYYY	24:00:00	Isaac Cr			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
12/1/2025															
12/2/2025	13:36	40%	10.00	12.00	0.15	0.9	-	-	-	0.64	0.58	156505	Microbac taken		JG
12/3/2025															
12/4/2025	10:36	40%	10.00	12.00	0.13	0.88	-	-	-	0.63	0.69	157092	Testing	2C Overcast	JG
12/5/2025															
12/6/2025	8:00	40%	10.00	12.00	0.12	0.85	-	-	-	-	-	-			JG
12/7/2025															
12/8/2025					0.18								from HMI	Heavy Rain	FD
12/9/2025	13:49	40%	10.00	12.00	3.46	0.58	-	-	-	0.33	0.29	157945	Batch dosed 400ml cl to compensate for high NTU	Heavy Rain	JG
12/10/2025					0.77								400ml batch dose cl2, intake cleaned		JG
12/11/2025													1500ml cl2 dose in am, 500ml dose in pm, HIGH NTU WQA posted		JG
12/12/2025	8:00	40%	14.00	15.00	2.72	0.68	-	-	-	0.44	0.35	158417	WQA Still in effect for high treated turbidity		JG
12/13/2025															
12/14/2025					1.01	1.1	-	-	-	-	-	-	from HMI		FD
12/15/2025															
12/16/2025	10:30	40%	12	12	1.2	0.8	-	-	-	0.35	0.57	159017	MB samples and testing	light rain	TW
12/17/2025															
12/18/2025	10;30	40%	19	20	1.29	0.72	-	-	-	0.39	0.38	159453	testing	light rain	TW
12/19/2025															
12/20/2025	8:00	40%	19	20	1.23	0.75	-	-	-	-	-	-	from HMI		FD
12/21/2025															
12/22/2025															
12/23/2025	10;30	40%	19	20	1.19	1.08	-	-	-	0.6	0.53	160280	testing at 538 Johnstone road not 570		TW
12/24/2025															
12/25/2025	2:00	40%	19	20	1.09	0.9	-	-	-	0.38	0.32	160645	alternate sites	rain	TW
12/26/2025															
12/27/2025															
12/28/2025															
12/29/2025	10:30	40%	19	20	1.34	0.61	-	-	-	0.9	0.49	161303	alternate sites, microbac microbac samples submitted	frost	TW
12/30/2025															
12/31/2025															
Reading of flow meter for Sunny Side trailer court (to be recorded once a month)						Dec 31st		Date:	213536						
											total flow				

Appendix C
Field Memos