

## North Shore Water Utility Nelson Ltd. Monthly Report

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**To:** Pouria Mojtahedi, Large Water Systems Environmental Health Officer, Interior Health Authority  
**From:** Aqua Diversities Waterworks Inc.  
**Date:** December 3<sup>rd</sup>, 2024  
**Re:** Monthly Report for North Shore Water Utility - **November 2024**

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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 October was 5,614m<sup>3</sup>; average daily consumption was 187.13m<sup>3</sup>/day. The average flow was 7.79m<sup>3</sup>/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 November, chlorine residuals were maintained above 0.2 mg/L across the distribution system.

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

#### **4.0 Major Operational Events**

No major operation events for the month of November.

#### **5.0 Records of Customer Feedback and Response**

There were a few customer inquiries regarding the housing project at the North Shore Inn. Inquiries were responded to by email and or phone.

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	2024-11-05	11:00 AM	Matrix	TW	Temperature on Receipt	7

Date/Time on Test 2024-11-05 4:45 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	2024-11-05	11:00 AM	Matrix	TW	Temperature on Receipt	6

Date/Time on Test 2024-11-05 4:45 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

## ANALYTICAL RESULTS

Sample ID	Main Jet				Sample #	1
Date/Time Sampled	2024-11-26	11:00 AM	Matrix	TW	Temperature on Receipt	10

Date/Time on Test 2024-11-26 4:50 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	2024-11-26	11:00 AM	Matrix	TW	Temperature on Receipt	9

Date/Time on Test 2024-11-26 4:50 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
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### 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	Sampled By
YY/MM/DD	24:00:00	Isaac Cr. (1-10)			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.	
11/1/2024															
11/2/2024															
11/3/2024															
11/4/2024															
11/5/2024	1:00	-	11:00	12:00	0.77	0.69	-	-	-	0.56	0.39	79415	tested north shore, take microbac samples, check intake, record sunn		OH
11/6/2024															
11/7/2024															
11/8/2024	2:00	-	11:00	12:00	0.7	0.7	-	-	-	0.56	0.67	-	Tested north shore		OH
11/9/2024															
11/10/2024	8:00	-	11:00	12:00	0.72	0.62	-	-	-	-	-	-	remote monitoring		OH
11/11/2024															
11/12/2024	3:00	-	11:00	12:00	0.7	0.7	-	-	-	0.46	0.47	80833	Tested north shore	cloudy 5	OH
11/13/2024															
11/14/2024	3:00	-	11:00	12:00			-	-	-	0.48	0.4		tested north shore	4 rain	OH
11/15/2024															
11/16/2024	7:00	-	11	12	0.54	0.85	-	-	-	-	-	-	remote monitoring		OH
11/17/2024															
11/18/2024															
11/19/2024	11:00		11	12	0.6	1.02	-	-	-	0.91	1.04	82125	Tested north shore, added 1 carboy of chlorine to rese	0 cloudy	OH
11/20/2024															
11/21/2024	2:45	-	11	12	0.49	0.72	-	-	-	0.52	0.48	82583	Tested north shore	3 cloudy	OH
11/22/2024															
11/23/2024	8:00	-	11	12	0.57	0.66	-	-	-	-	-		remote monitoring		
11/24/2024															
11/25/2024															
11/26/2024	11:00	-	11	12	0.74	0.69	-	-	-	0.62	0.6	83503	tesed and dollected micro bac samples	4 cloudy	OH
11/27/2024															
11/28/2024	11:30	-	11	12	0.9	0.83	-	-	-	0.54	0.83	83860	tested north shore, added 4 carboys of chlorine, clean	2 cloudy	OH
11/29/2024															
11/30/2024															
Reading of flow meter for Sunny Side trailer court (to be recorded once a month)						55087	Date: Nov 5th								