
North Shore Water Utility Nelson Ltd. Monthly Report

To: Pouria Mojtahedi, Large Water Systems Environmental Health Officer, Interior Health Authority
From: Aqua Diversities Inc.
Date: March 16, 2023
Re: Monthly Report for North Shore Water Utility - **February 2023**

This document includes the following items as part of 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 4,794.07 m³; average daily consumption was 171.22 m³/day. The average flow was 6.11 m³/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 0.5 mg/L across the distribution system.

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

4.0 Major Operational Events

There were no other major events to report for the month of February.

Note that the pilot plant located in the Isaac Creek reservoir building continues to operate with the treated water going to waste (as per direction from EHE Marianne Crowe).

5.0 Records of Customer Feedback and Response

There were no customer inquiries or feedback in the month of February.

Report Reviewed by:



Nicole Ward, B.Sc. P.Ag- Project Manager



Appendix A

Laboratory Results



Report# 5362
Filename 230131AD.pdf

ANALYTICAL RESULTS

Sample ID	538 Johnstone Rd	Sample #	1
Date/Time Sampled	2023-01-31 8:00 AM	Matrix	TW
		Temperature on Receipt	12

Date/Time on Test 2023-01-31 3:50 PM

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

Sample ID	Main Jet	Sample #	2
Date/Time Sampled	2023-01-31 8:00 AM	Matrix	TW
		Temperature on Receipt	15

Date/Time on Test 2023-01-31 3:50 PM

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



Report# 5403
Filename 230214AD.pdf

ANALYTICAL RESULTS

Sample ID	538 Johnstone Rd	Sample #	1
Date/Time Sampled	2023-02-14 10:00 AM	Matrix	TW
		Temperature on Receipt	18

Date/Time on Test 2023-02-14 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	Main Jet	Sample #	2
Date/Time Sampled	2023-02-14 10:00 AM	Matrix	TW
		Temperature on Receipt	18

Date/Time on Test 2023-02-14 4:50 PM

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



Appendix B

Operator Log Sheet

14-017

Monthly Operator Log Sheet



NSWU Operator Log

Month: Feb-23

MainJet 538 Johnstone Rd

Date	Time	CL2 Pump Setting	CL2 pump run time	CL2 pump pulse rate	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.)	CL2 Residual (Dist.)	Comments	Weather	Sampled By
YY/MM/DD		Isaac Cr. (1-10)			Isaac Cr. NTU	Isaac Cr. mg/L	mg/L	mg/L		Precip./Temp.	
2/1/2023	24:00:00								Microbiological Sample Taken/Filter Change/Etc.		
2/2/2023	9:00		2.00	10.00	0.68	0.71	0.66	0.74			WS
2/3/2023											
2/4/2023	8:00		2.00	10.00	0.77	0.65					FD
2/5/2023											
2/6/2023											
2/7/2023	9:00		2.00	10.00	0.55	0.67	0.77	0.65			WS
2/8/2023											
2/9/2023	9:00		2.00	10.00	0.95	0.59	0.5	0.55			WS
2/10/2023											
2/11/2023	8:00		2.00	10.00	0.77	0.65					FD
2/12/2023											
2/13/2023											
2/14/2023	9:00		2.00	8.00			0.47	0.52	MicroBac samples submitted, low CL2 alarm		FD
2/15/2023											
2/16/2023	4:15		2	10	0.72	0.99	0.76	0.65	flushed out and calibrated CL2 analyzer	cloud-1	FD
2/17/2023											
2/18/2023	8:00				0.58	0.81					
2/19/2023											
2/20/2023											
2/21/2023	11:45	40%	2	10	0.94	0.67	0.31	0.28	topped up CL2, cleaned NTU meters and CL2 analyzer	snow-4	MB/FD
2/22/2023				9					Calibrate CL2 analyzer and increased CL2 dosing, Cleaned both intakes		
2/23/2023	4:20	40%	2	9	0.63	0.76	0.5	0.5		sun-9	MB
2/24/2023											
2/25/2023	8:00		2	9	0.61	0.8					MB
2/26/2023											
2/27/2023											
2/28/2023	12:45	40%	2	9	0.55	0.8	0.59	0.65	MicroBac samples submitted, cleaned CL2 analyzer, cut	cloud +1	FD, MB

Reading of flow meter for Sunny Side trailer court (to be recorded once a month) 922392gal Feb 21