
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: February 16, 2023
Re: Monthly Report for North Shore Water Utility – **January 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 January was 4,767.2 m³; average daily consumption was 153.8 m³/day. The average flow was 6.40 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 January, 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 January.

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 records of customer feedback in the month of January.

Report Reviewed by:



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

Appendix A

Laboratory Results

 **PASSMORE LABORATORY LTD.**

Report# 5290
Filename 230103AD.pdf

ANALYTICAL RESULTS

Sample ID	538 Johnstone Rd			Sample #	1	
Date/Time Sampled	2023-01-03	12:15 PM	Matrix	TW	Temperature on Receipt	13

Date/Time on Test 2023-01-03 4:35 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	Main Jet			Sample #	2	
Date/Time Sampled	2023-01-03	12:15 PM	Matrix	TW	Temperature on Receipt	11

Date/Time on Test 2023-01-03 4:40 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

 **PASSMORE LABORATORY LTD.**

Report# 5354
Filename 230124AD.pdf

ANALYTICAL RESULTS

Sample ID	538 Johnstone Rd			Sample #	1	
Date/Time Sampled	2023-01-24	8:00 AM	Matrix	TW	Temperature on Receipt	10

Date/Time on Test 2023-01-24 5:25 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	Main Jet			Sample #	2	
Date/Time Sampled	2023-01-24	8:00 AM	Matrix	TW	Temperature on Receipt	8

Date/Time on Test 2023-01-24 5:25 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

Appendix B Operator Log Sheet

Date	Time	CL2 Pump Setting	CL2 pump duration	CL2 pump frequency	Raw Water Turbidity (Res.)	CL2 Residual (Res.)	CL2 Residual (Dist.)	CL2 Residual (Dist.)	Comments	Weather	Sampled By
YY/MM/DD	24:00:00	Isaac Cr. (1-10)			Isaac Cr. NTU	Isaac Cr. mg/L	mg/L	mg/L	Microbiological Sample Taken/Fiber Change/Etc.	Precip./Temp.	
1/1/2023											
1/2/2023											
1/3/2023	12:00	40%	3.00	10.00	0.65	0.96	0.64	0.58	Microbar, calibrated CL2 analyser, cleaned both NTU meters, topped up CL2	Cloudy-4	FD
1/4/2023											
1/5/2023	1:30	40%	3.00	10.00	0.37	0.71	0.74	0.66		Cloudy-1	FD
1/6/2023											
1/7/2023	7:00	40%	3.00	10.00	0.43	0.82	n/a	n/a			FD
1/8/2023											
1/9/2023											
1/10/2023	9:30	40%	3.00	10.00	0.55	0.75	0.77	0.84		cloudy 1C	FD
1/11/2023											
1/12/2023											
1/13/2023	2:00	40%	3.00	10.00	0.78	0.87	0.75	0.64		cloudy 1C	FD
1/14/2023											
1/15/2023											
1/16/2023											
1/17/2023	9:30	40%	4	10	0.89	0.45	0.57	0.27		Cloudy 1C	FD
1/18/2023											
1/19/2023	4:30	40%	4	10	0.97	0.78	0.65	0.71		Sun 4C	FD
1/20/2023											
1/21/2023	8:00	40%	4	10	0.78	0.76					FD
1/22/2023											
1/23/2023											
1/24/2023	10:30	40%	4	10	0.75	0.76	0.75	0.48	submitted Microbar samples	Cloudy-4	FD
1/25/2023											
1/26/2023	4:00	40%	4	10	0.8	1.02	0.84	0.68		Cloudy-1	FD
1/27/2023											
1/28/2023	8:00	40%	3		0.66	0.84					
1/29/2023											
1/30/2023											
1/31/2023	8:00	540	2	10	0.65	1.03	0.89	0.78	submitted Microbar samples, cleaned contacts on booster pump pressure switch, topped up C		FD
Reading of flow meter for Sunny Side trailer court (to be recorded once a month)						889074gallons Jan 31st					