

North Shore Water Utility Nelson Ltd. Monthly Report

To: Pouria Mojtahedi, Large Water Systems Environmental Health Officer, Interior Health Authority

From: Aqua Diversities Waterworks Inc.

Date: Aug 2, 2024

Re: Monthly Report for North Shore Water Utility - July 2024

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 8,193m³; average daily consumption was 264.3m³/day. The average flow was 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 July, chlorine residuals were maintained above 0.27 mg/L across the distribution system. Except on the 12th where it was recorded as 0mg/L and on the 26th where it was recorded as 0.12mg/L.

See Appendix B for Operator Log Sheets.

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4.0 Major Operational Events

July 3rd a leak was reported at 523 Johnstone Rd. A crew was onsite to determine the leak location and begin repairs which took 13 days to complete. Service was momentarily disrupted while the customer was hooked up to their neighbors outside hose bib. Communications were made regarding this repair work through the NSWU website and customer alerts.

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





Report# 6963 Filename 240702AD.pdf

ANALYTICAL RESULTS

Sample ID Main Je	t			Sample #	1
Date/Time Sampled	2024-07-02	11:00 AM Matrix	TW	Temperature on Receipt	8
Date/Time on Test 2024-07-02		4:50 PM			
<u>Analyses</u>		Result	<u>Units</u>	RDL	
Coliforms, Total		less than 1	CFU/100mL	1	
Verified E.coli		less than 1	CFU/100mL	1	

Sample ID NCCS 57	70 Johnstone Rd.				Sample #	2
Date/Time Sampled	2024-07-02	11:00 AM	Matrix	TW	Temperature on Receipt	8
Date/Time on Test	2024-07-02	5:00 PM				
Analyses		Result		<u>Units</u>	RDL	
Coliforms, Total		less tha	n 1	CFU/100mL	1	
Verified E.coli		less tha	n 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 Pubic 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.

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Report#	/021
Filename	240716AD.pdf

Sample ID Main Jet	t			Sample #	1	
Date/Time Sampled	2024-07-16	11:00 AM	Matrix TW	Temperature on Receipt	12	

ANALYTICAL RESULTS

Date/Time on Test 4:30 PM 2024-07-16

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

Sample ID NCCS 57	70 Johnstone Rd.				Sample #	2
Date/Time Sampled	2024-07-16	11:00 AM	Matrix	TW	Temperature on Receipt	12
Date/Time on Test	2024-07-16	4:35 PM				
<u>Analyses</u>		Result		<u>Units</u>	RDL	
Coliforms, Total		less tha	n 1	CFU/100mL	1	

CFU/100mL

Glossary of Terms

Verified E.coli

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.

less than 1

APHA American Pubic Health Association Colony Forming Units per 100 milliliters CFU/100mL

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# 7067 Filename 240730AD.pdf

ANALYTICAL RESULTS

Sample ID Main Jet Sample # 1
Date/Time Sampled 2024-07-30 11:00 AM Matrix TW Temperature on Receipt 9

Date/Time on Test 2024-07-30 5:00 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 2024-07-30 11:00 AM Matrix TW Temperature on Receipt 10

Date/Time on Test 2024-07-30 5:05 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 Pubic 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

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Maintel Main	Month:	Jul-24														
The first color The first											MainJet	570 Johnstone Rd				
	Date	Time				Turbidity			Turbidity				Flow Meter	Comments	Weather	
7/1/2024 7.00	and males												200			Sample
7/2/2024 7:00 - 9:00 10:00 0.92 0.7 4 0.91 0.47 0.79 0.34 48477 Took BacT samples, tested, added 1 carboy of cit to issae, checked in 7/3/2024 1:30 - 9:00 10:00 0.82 0.73 5 0.67 0.50 0.77 0.41 48857 Tested north shore, increased chlorine pump to 5 ons s. 26 sunny 7/3/2024 7:51 - 9:00 10:00 0.82 0.73 5 0.67 0.50 0.77 0.41 48857 Tested north shore, increased chlorine pump to 5 ons s. 26 sunny 7/3/2024 7:51 0.90 10:00 0.8 0.70 5 - 0.7 0.50 0.77 0.41 48857 Tested north shore, increased chlorine pump to 5 ons s. 26 sunny 7/3/2024 12:00 - 9:00 10:00 0.8 0.70 5 - 0.7 0.5 0.3 0.66 0.34 - Tested North shore, increased chlorine into Sutherial 32 sunny 7/3/2024 12:00 - 9:00 10:00 0.91 0.56 5 0.75 0.3 0.66 0.34 - Tested NoWL, back dose 300ml chlorine into Sutherial 32 sunny 7/3/2024 12:00 - 9:00 10:00 0.82 0.66 5 0.96 0.36 0.87 0 - Tested NoWL, back dose 300ml chlorine into Sutherial 32 sunny 7/3/2024 12:00 - 9:00 10:00 0.84 0.65 - 0.96 0.36 0.87 0 - Tested NoWL, back dose 300ml chlorine res 32 sunny 7/3/2024 12:00 - 9:00 10:00 0.84 0.65 - 0.96 0.36 0.87 0 - Tested NoWL, back dose 300ml chlorine res 32 sunny 7/3/2024 12:00 - 9:00 10:00 0.84 0.65 - 0.96 0.36 0.87 0 - Tested NoWL, back dose 300ml chlorine res 32 sunny 7/3/2024 12:00 - 9:00 10:00 0.84 0.65 - 0.96 0.36 0.87 0 - Tested NoWL, back dose sutherial 33 sunny 7/3/2024 12:00 - 9:00 10:00 0.84 0.65 - 0.82 0.59 0.52 0.44 52771 tested NoWL, book BacT samples, batch dose sutherial 53 sunny 7/3/2024 12:00 - 9:00 10:00 0.64 0.61 - 0.7 0.3 0.72 0.38 5496 batch dose sutheriand 500ml, tested north shore. 30 Sunny 7/3/2024 10:00 - 9:00 10:00 0.64 0.61 0.7 0.7 0.7 0.7 0.3 0.72 0.38 5496 batch dose sutheriand 500ml, tested north shore. 30 Sunny 7/3/2/2024 10:00 - 9:00 10:00 0.64 0.65 0.7 0.95 0.78 0.68 0.47 56096 BacT samples, batch dose sutheriand form; 12 cloudy 7/3/2/2024 10:00 - 9:00 0.64 0.65 0.7 0.95 0.78 0.68 0.47 56096 BacT samples, batch dose sutheriand finales 22 cloudy 7/3/2/2024 10:00 - 9:00 0.64 0.69 0.69 0.69 0.7 0.95 0.78 0.68 0.47 56096 BacT samples, batch dose su		24:00:00	(1-10)	Isaac	Isaac	NIU	mg/L	Cr.(1-10)	Cr. NIU	Cr. mg/L	mg/L	l mg/L	ms/Hr	Microbiological Sample Taken/Filter Change/Etc.	Precip./ lemp	. By
7/3/2024		7.00									0.70		40.477			OH
7/4/2024 1:30 - 9.00 10.00 0.82 0.73 5 0.67 0.50 0.77 0.41 48857 Tested north shore, increased chlorine pump to 5 on su 25 sunny 7/5/2024 7.51 - 9.00 10.00 0.8 0.70 5 Remote monitoring 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.8 0.75 5 0.3 0.66 0.34 - Tested NSWU, batch dose 300ml chlorine into Sutherlar 32 sunny 7/5/2024 12.00 - 9.00 10.00 0.82 0.66 5 0.75 0.3 0.66 0.34 - Tested NSWU, batch dose 300ml chlorine into Sutherlar 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 5 0.75 0.3 0.66 0.34 - Tested NSWU, batch dose 300ml chlorine into Sutherlar 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 5 remote monitoring 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 5 remote monitoring 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 5 remote monitoring 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 5 remote monitoring 32 sunny 7/5/2024 7.51 0.50 5 0.58 6 0.83 0.37 0.62 0.27 52171 Tested NSWU, took BacT samples, batch dose sutherlar 31 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 remote monitoring 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 remote monitoring 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 remote monitoring 33 sunny 7/5/2024 7.51 - 9.00 10.00 0.84 0.65 0.82 0.59 0.52 0.44 52771 tested north shore, added 1 carboy of chlorine toreser 32 sunny 7/5/2024 7.51 - 9.00 10.00 0.48 0.74 6 0.70 0.3 0.72 0.38 5496 batch dose sutherlar 500ml, tested north shore. 30 Sunny 7/5/2024 7/5/2024 7.51 - 9.00 10.00 0.48 0.74 6 0.72 7 1.1 0.43 0.53 0.12 55039 Cleaned issac intake, tested north shore, 10 Sunny 7/5/2024 7/5/2024 7.51 - 9.00 10.00 0.49 0.6 7 0.95 0.78 0.68 0.47 56096 BacT samples, test north shore 22 cloudy 7/5/2024 7/5/2024 7/5/2024 7.50 0.9 10.00 0.9		7:00	-	9.00	10.00	0.92	0.7	4	0.91	0.47	0.79	0.34	484//	look Bac I samples, tested, added 1 carboy of ci to Isaa	c, checked inta	OH
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7/20/2024 7.51 - 9 10 0.64 0.61 remote monitoring 37 sunny 7/21/2024	7/18/2024	2:30	-	9	10	0.57	0.76	6	0.82	0.59	0.52	0.44	52771	tested north shore, added 1 carboy of chlorine to reser	32 sunny	OH
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7/28/2024 7:51 - 9 10 0.61 0.73 7 Remote monitoring 7/29/2024 9:00	7/26/2024	2:00	-	9	10	0.84	0.72	7	1.1	0.43	0.53	0.12	55039	Cleaned Issac intake, tested north shore, topped up chi	24 smoky	ОН
7/29/2024 9:00	7/27/2024															
7/30/2024 10:00 - 9 10 0.49 0.6 7 0.95 0.78 0.68 0.47 56096 BaCT samples, test north shore 22 cloudy	7/28/2024	7:51	-	9	10	0.61	0.73	7	-	-	-	-	-	Remote monitoring		ОН
	7/29/2024	9:00	-	-	-	-	-	-	-	-	-	-	-	cleaned sutherland intake	22 cloudy	ОН
	7/30/2024	10:00	-	9	10	0.49	0.6	7	0.95	0.78	0.68	0.47	56096	BacT samples, test north shore	22 cloudy	ОН
Reading of flow meter for Sunny Side trailer court (to be recorded once a month) 699.4 Date: July 2nd									_							