

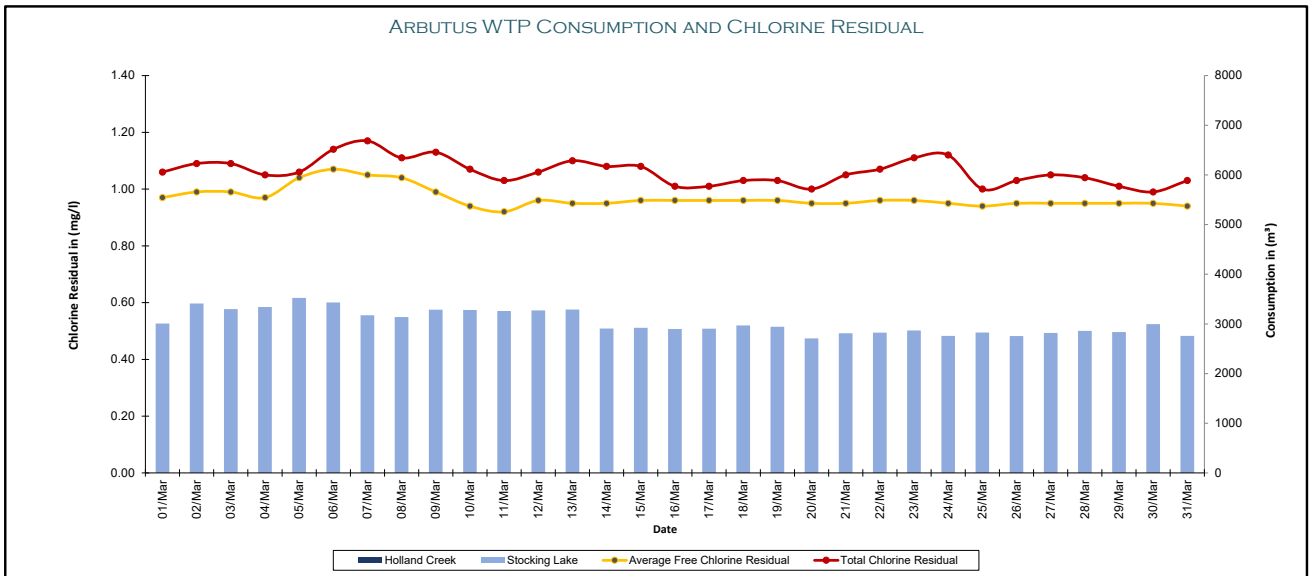
TOWN OF LADYSMITH - ARBUTUS WATER TREATMENT PLANT

MARCH 2026 - MONTHLY REPORT

Date	Daily Flow			Chlorine Residual				CT*	External Lab Testing					
	Stocking Lake	Holland Creek	Combined Flow	Free Min	Free Max	Free Avg	Total		HPC	E.coli	Total Coliforms	Aluminum	THM	HAA
	m ³	m ³	m ³	mg/l	mg/l	mg/l	mg/l		CFU	MPN	MPN	mg/l	mg/l	mg/l
01-Mar	3008	0	3008	0.95	0.98	0.97	1.06							
02-Mar	3412	0	3412	0.95	0.99	0.99	1.09	137						
03-Mar	3297	0	3297	0.97	1.00	0.99	1.09	139	< 1	< 1	< 1			
04-Mar	3341	0	3341	0.96	0.99	0.97	1.05	141						
05-Mar	3523	0	3523	0.95	1.04	1.04	1.06	158						
06-Mar	3433	0	3433	1.04	1.07	1.07	1.14	150						
07-Mar	3175	0	3175	1.04	1.08	1.05	1.17	160						
08-Mar	3138	0	3138	1.02	1.06	1.04	1.11	145						
09-Mar	3286	0	3286	0.99	1.04	0.99	1.13	210						
10-Mar	3281	0	3281	0.94	0.99	0.94	1.07	144	< 1	< 1	< 1			
11-Mar	3259	0	3259	0.90	0.94	0.92	1.03	152						
12-Mar	3273	0	3273	0.90	0.97	0.96	1.06	143						
13-Mar	3289	0	3289	0.94	0.97	0.95	1.10	153						
14-Mar	2908	0	2908	0.93	0.97	0.95	1.08	151						
15-Mar	2921	0	2921	0.92	0.96	0.96	1.08	155						
16-Mar	2897	0	2897	0.93	0.96	0.96	1.01	146						
17-Mar	2905	0	2905	0.94	0.97	0.96	1.01	145	< 1	< 1	< 1	0.0098	0.0220	0.0134
18-Mar	2970	0	2970	0.94	0.97	0.96	1.03	151						
19-Mar	2943	0	2943	0.93	0.97	0.96	1.03	152						
20-Mar	2708	0	2708	0.92	0.97	0.95	1.00	165						
21-Mar	2811	0	2811	0.93	0.96	0.95	1.05	156						
22-Mar	2824	0	2824	0.92	0.96	0.96	1.07	150						
23-Mar	2868	0	2868	0.92	0.96	0.96	1.11	151						
24-Mar	2760	0	2760	0.93	0.97	0.95	1.12	152	< 1	< 1	< 1			
25-Mar	2827	0	2827	0.93	0.96	0.94	1.00	156						
26-Mar	2756	0	2756	0.91	0.94	0.95	1.03	160						
27-Mar	2819	0	2819	0.92	0.95	0.95	1.05	162						
28-Mar	2861	0	2861	0.92	0.96	0.95	1.04	161						
29-Mar	2837	0	2837	0.92	0.96	0.95	1.01	144						
30-Mar	2996	0	2996	0.92	0.95	0.95	0.99	142	< 1	< 1	< 1			
31-Mar	2760	0	2760	0.92	0.96	0.94	1.03	138						

*CT - Recorded as the minimum value at the highest daily flow ** Manual Residual were not taken

Total	94086	0	94086												
Average	3035	0	3035	0.94	0.98	0.97	1.06	152	< 1	< 1	< 1	0.0098	0.0220	0.01340	



Town of Ladysmith Arbutus DWTP

Monthly LRV and Turbidity Report

03/01/2026 - 04/01/2026

LRV Monthly Average

Asset	Parameter	Health	Avg	Std. Dev	Points	LL	L	%In	% between L and LL	% < LL	Unit
UF 1	LRV	●	5.0	0.0	34	4.25	4.5	100 %	0 %	0 %	#
UF 2	LRV	●	4.991	0.05	33	4.25	4.5	100 %	0 %	0 %	#
UF 3	LRV	●	5.0	0.0	33	4.25	4.5	100 %	0 %	0 %	#

LRV Daily Values

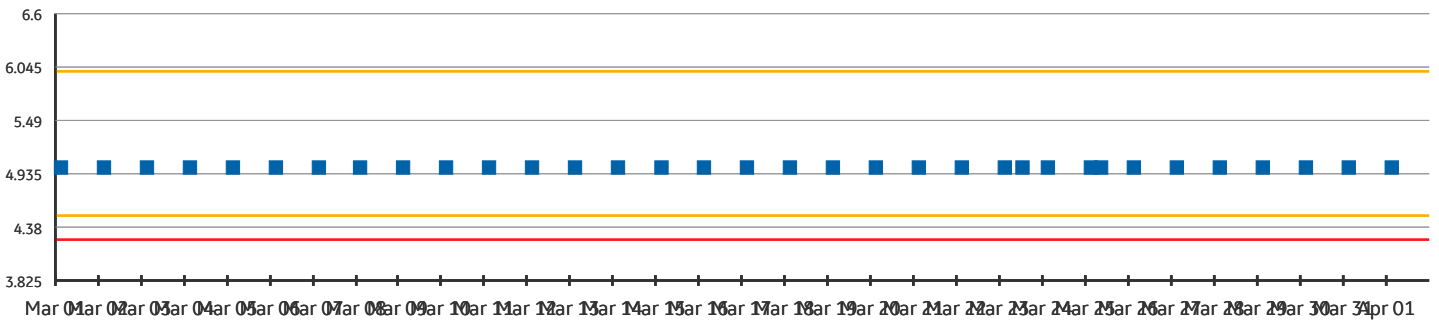
Asset	Parameter	Mar 01	Mar 02	Mar 03	Mar 04	Mar 05	Mar 06	Mar 07	Mar 08	Mar 09	Mar 10	Mar 11	Mar 12
UF 1	LRV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
UF 2	LRV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
UF 3	LRV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Asset	Mar 13	Mar 14	Mar 15	Mar 16	Mar 17	Mar 18	Mar 19	Mar 20	Mar 21	Mar 22	Mar 23	Mar 24	Mar 25	Mar 26	Mar 27	Mar 28
UF 1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
UF 2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.847	5.0	5.0	5.0	5.0	5.0
UF 3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

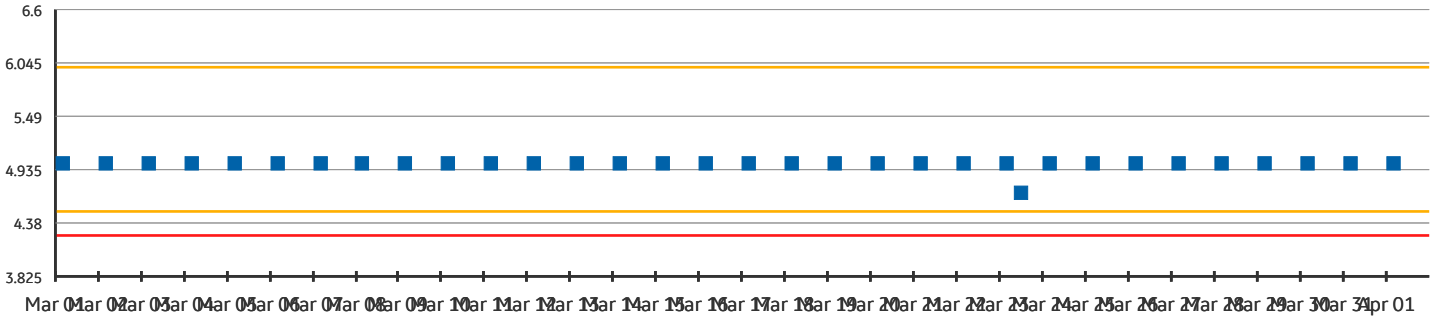
Asset	Mar 29	Mar 30	Mar 31	Apr 01
UF 1	5.0	5.0	5.0	5.0
UF 2	5.0	5.0	5.0	5.0
UF 3	5.0	5.0	5.0	5.0

LRV Raw Data

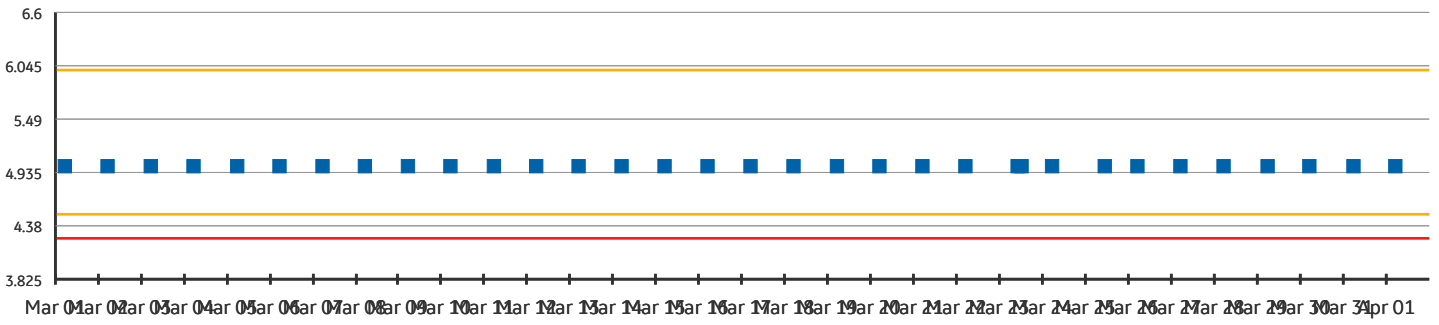
UF 1 - LRV (#)



UF 2 - LRV (#)



UF 3 - LRV (#)



Turbidity Monthly Average

Asset	Parameter	Health	Avg	Std. Dev	Points	H	HH	%In	% between H and HH	% > HH	Unit
UF 1	PermeateTurbidity		0.012	0.0	45134	--	--	100 %	0 %	0 %	NTU
UF 2	PermeateTurbidity		0.014	0.0	45134	--	--	100 %	0 %	0 %	NTU
UF 3	PermeateTurbidity		0.013	0.0	45134	--	--	100 %	0 %	0 %	NTU
UF 1	PermeateTurbidityAfterBP	●	0.012	0.0	372	0.1	0.3	100 %	0 %	0 %	NTU
UF 2	PermeateTurbidityAfterBP	●	0.013	0.0	377	0.1	0.3	100 %	0 %	0 %	NTU
UF 3	PermeateTurbidityAfterBP	●	0.013	0.0	290	0.1	0.3	100 %	0 %	0 %	NTU

Turbidity Daily Averages

Asset	Parameter	Mar 01	Mar 02	Mar 03	Mar 04	Mar 05	Mar 06	Mar 07	Mar 08	Mar 09	Mar 10	Mar 11
UF 1	PermeateTurbidity	0.011	0.011	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.012
UF 2	PermeateTurbidity	0.013	0.013	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.014	0.014
UF 3	PermeateTurbidity	0.012	0.012	0.013	0.013	0.012	0.012	0.013	0.013	0.013	0.013	0.013

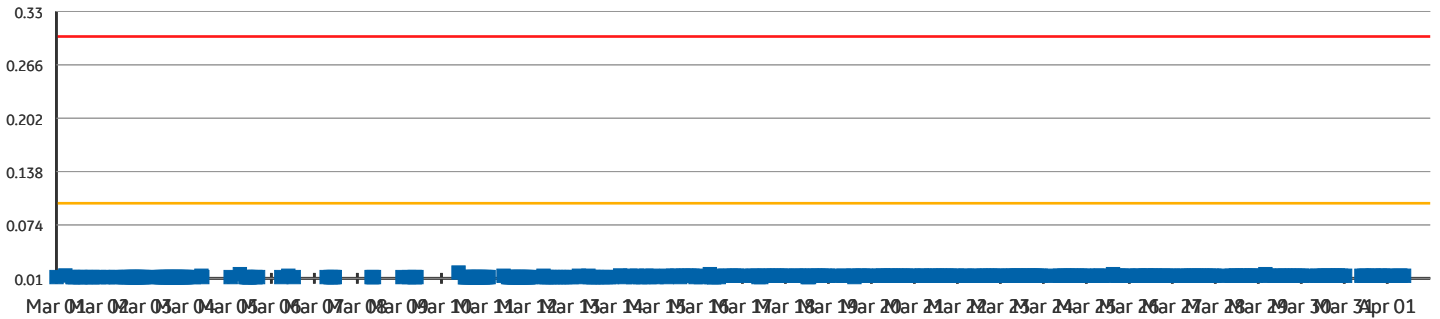
Asset	Parameter	Mar 01	Mar 02	Mar 03	Mar 04	Mar 05	Mar 06	Mar 07	Mar 08	Mar 09	Mar 10	Mar 11
UF 1	PermeateTurbidityAfterBP	0.012	0.011	0.011	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.012
UF 2	PermeateTurbidityAfterBP	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
UF 3	PermeateTurbidityAfterBP	0.012	0.011	0.011	0.013	0.012	0.011	0.012	0.012	0.012	0.012	0.013

Asset	Mar 12	Mar 13	Mar 14	Mar 15	Mar 16	Mar 17	Mar 18	Mar 19	Mar 20	Mar 21	Mar 22	Mar 23	Mar 24	Mar 25	Mar 26
UF 1	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
UF 2	0.014	0.013	0.013	0.013	0.013	0.013	0.014	0.013	0.014	0.013	0.013	0.013	0.013	0.013	0.013
UF 3	0.012	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
UF 1	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
UF 2	0.013	0.013	0.013	0.013	0.014	0.013	0.014	0.013	0.014	0.013	0.013	0.013	0.014	0.013	0.014
UF 3	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.013	0.013	0.013

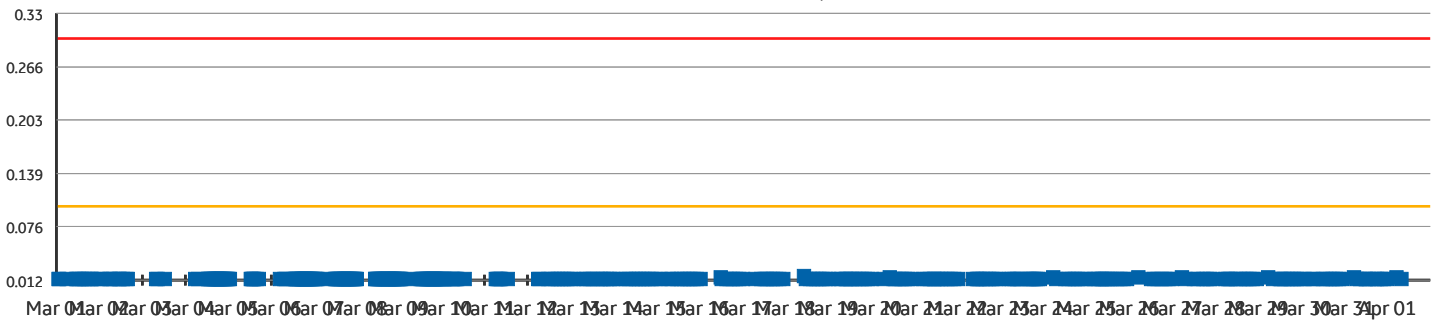
Asset	Mar 27	Mar 28	Mar 29	Mar 30	Mar 31	Apr 01
UF 1	0.013	0.013	0.013	0.013	0.013	0.013
UF 2	0.013	0.013	0.014	0.013	0.014	0.014
UF 3	0.013	0.013	0.013	0.013	0.013	0.013
UF 1	0.013	0.013	0.013	0.013	0.013	0.013
UF 2	0.014	0.013	0.014	0.013	0.014	0.014
UF 3	0.013	0.013	0.013	0.014	0.013	0.014

Turbidity Raw Data

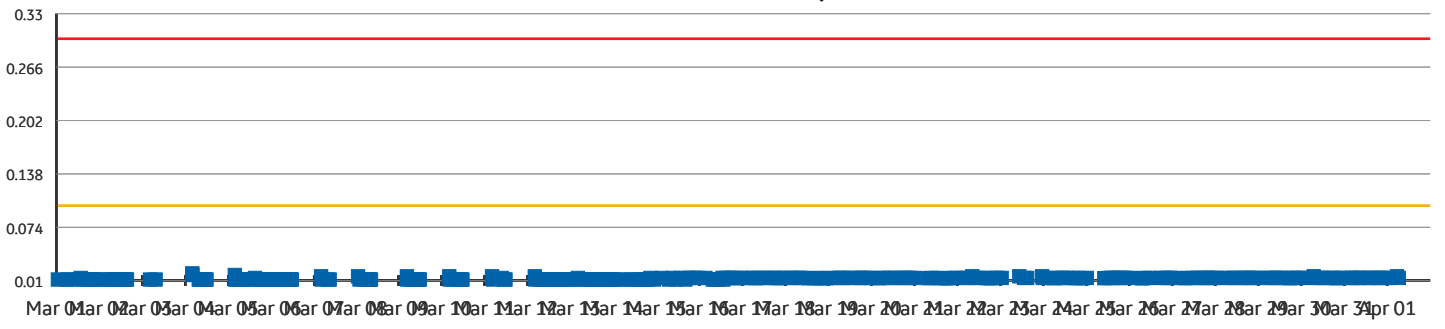
UF 1 - PermeateTurbidityAfterBP (NTU)



UF 2 - PermeateTurbidityAfterBP (NTU)



UF 3 - PermeateTurbidityAfterBP (NTU)





CERTIFICATE OF ANALYSIS

Work Order	: VA26A5053		
Client	: Town of Ladysmith	Laboratory	: ALS Environmental - Vancouver
Contact	: Shawn Baker	Account Manager	: Kevin Bhikadia
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 04-Mar-2026 11:20
C-O-C number	: ----	Date Analysis Commenced	: 04-Mar-2026
Sampler	: ----	Issue Date	: 10-Mar-2026 10:27
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Lindsay Gung	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
CFU/mL	colony forming units per millilitre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Sample name " Treated Water (post reservoir) exceeded the recommended holding time prior to receipt at the lab for Microbiology analysis.Please check the PM for any other concerns.

Work Order : VA26A5053
Client : Town of Ladysmith
Project : Arbutus Water Treatment - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A5053-001	VA26A5053-002	VA26A5053-003	VA26A5053-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	field	field	field	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	17.4	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	65.3	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.47	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.88	1.52	1.09	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	3.89	1.61	1.18	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Quality Control Interpretive Report

Work Order : VA26A5053

Client : Town of Ladysmith
 Contact : Shawn Baker
 Address : 410 Esplanade PO Box 220
 Ladysmith BC Canada V9G 1A2
 Telephone : ----
 Project : Arbutus Water Treatment - Weekly Sampling
 PO : 10940
 C-O-C number : ----
 Sampler : ----
 Site : Town of Ladysmith
 Quote number : Town of Ladysmith Standing Offer
 No. of samples received : 4
 No. of samples analysed : 4

Laboratory : ALS Environmental - Vancouver
 Account Manager : Kevin Bhikadia
 Address : 8081 Lougheed Highway
 Burnaby British Columbia Canada V5A 1W9
 Telephone : +1 604 253 4188
 Date Samples Received : 04-Mar-2026 11:20
 Issue Date : 10-Mar-2026 10:27

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
 CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
 DQO: Data Quality Objective.
 LOR: Limit of Reporting (detection limit).
 RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A5712	Laboratory	: ALS Environmental - Vancouver
Client	: Town of Ladysmith	Account Manager	: Kevin Bhikadia
Contact	: Shawn Baker	Address	: 8081 Lougheed Highway
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment Plant - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10977	Date Samples Received	: 11-Mar-2026 11:00
C-O-C number	: ----	Date Analysis Commenced	: 11-Mar-2026
Sampler	: Oswal Deo	Issue Date	: 18-Mar-2026 09:09
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

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Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Claire Yang	Lab Assistant	Inorganics, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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LOR: Limit of Reporting (detection limit).

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MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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Work Order : VA26A5712
Client : Town of Ladysmith
Project : Arbutus Water Treatment Plant - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A5712-001	VA26A5712-002	VA26A5712-003	VA26A5712-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	field	field	field	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	16.8	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	64.2	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.18	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.61	1.26	1.07	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	3.23	1.48	1.40	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Quality Control Interpretive Report

Work Order : **VA26A5712**

Client : Town of Ladysmith
Contact : Shawn Baker
Address : 410 Esplanade PO Box 220
 Ladysmith BC Canada V9G 1A2
Telephone : ----
Project : Arbutus Water Treatment Plant - Weekly Sampling
PO : 10977
C-O-C number : ----
Sampler : Oswal Deo
Site : Town of Ladysmith
Quote number : Town of Ladysmith Standing Offer
No. of samples received : 4
No. of samples analysed : 4

Laboratory : ALS Environmental - Vancouver
Account Manager : Kevin Bhikadia
Address : 8081 Lougheed Highway
 Burnaby British Columbia Canada V5A 1W9
Telephone : +1 604 253 4188
Date Samples Received : 11-Mar-2026 11:00
Issue Date : 18-Mar-2026 09:09

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 RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A6338	Laboratory	: ALS Environmental - Vancouver
Client	: Town of Ladysmith	Account Manager	: Kevin Bhikadia
Contact	: Shawn Baker	Address	: 8081 Lougheed Highway
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 18-Mar-2026 11:25
C-O-C number	: ----	Date Analysis Commenced	: 19-Mar-2026
Sampler	: ----	Issue Date	: 27-Mar-2026 08:42
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Ophelia Chiu	Department Manager - Organics	Organics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
mg/L	milligrams per litre
µg/L	micrograms per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Treated Water (post reservoir)	----	----	----	----
					Client sampling date / time	17-Mar-2026 10:40	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A6338-001	----	----	----	----	----
						Result	----	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0098	----	----	----	----	----
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611B/VA	1.0	µg/L	1.8	----	----	----	----	----
Bromoform	75-25-2	E611B/VA	1.0	µg/L	<1.0	----	----	----	----	----
Chloroform	67-66-3	E611B/VA	1.0	µg/L	20.2	----	----	----	----	----
Dibromochloromethane	124-48-1	E611B/VA	1.0	µg/L	<1.0	----	----	----	----	----
Trihalomethanes [THMs], total	----	E611B/VA	2.0	µg/L	22.0	----	----	----	----	----
Volatile Organic Compounds [THMs] Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611B/VA	1.0	%	90.0	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611B/VA	1.0	%	95.2	----	----	----	----	----
Haloacetic Acids										
Bromochloroacetic acid	5589-96-8	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Dibromoacetic acid	631-64-1	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Dichloroacetic acid	79-43-6	E750/WT	1.00	µg/L	5.85	----	----	----	----	----
Monobromoacetic acid	79-08-3	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Monochloroacetic acid	79-11-8	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Trichloroacetic acid	76-03-9	E750/WT	1.00	µg/L	7.54	----	----	----	----	----
Haloacetic acids, total [HAA5]	n/a	E750/WT	5.00	µg/L	13.4	----	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Quality Control Interpretive Report

Work Order : VA26A6338

Client : Town of Ladysmith
 Contact : Shawn Baker
 Address : 410 Esplanade PO Box 220
 Ladysmith BC Canada V9G 1A2
 Telephone : ----
 Project : Arbutus Water Treatment - Weekly Sampling
 PO : 10940
 C-O-C number : ----
 Sampler : ----
 Site : Town of Ladysmith
 Quote number : Town of Ladysmith Standing Offer
 No. of samples received : 1
 No. of samples analysed : 1

Laboratory : ALS Environmental - Vancouver
 Account Manager : Kevin Bhikadia
 Address : 8081 Lougheed Highway
 Burnaby British Columbia Canada V5A 1W9
 Telephone : +1 604 253 4188
 Date Samples Received : 18-Mar-2026 11:25
 Issue Date : 27-Mar-2026 08:43

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
 CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
 DQO: Data Quality Objective.
 LOR: Limit of Reporting (detection limit).
 RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A6329	Laboratory	: ALS Environmental - Vancouver
Client	: Town of Ladysmith	Account Manager	: Kevin Bhikadia
Contact	: Shawn Baker	Address	: 8081 Lougheed Highway
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 18-Mar-2026 11:25
C-O-C number	: ----	Date Analysis Commenced	: 18-Mar-2026
Sampler	: ----	Issue Date	: 23-Mar-2026 15:47
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Hdeep Kaur	Lab Assistant	Inorganics, Burnaby, British Columbia
Lindsay Gung	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
CFU/mL	colony forming units per millilitre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Sample(s) Treated Water (post reservoir): Exceeded Recommended Holding Time prior to receipt at the lab for HPC analysis.

Work Order : VA26A6329
Client : Town of Ladysmith
Project : Arbutus Water Treatment - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A6329-001	VA26A6329-002	VA26A6329-003	VA26A6329-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	lab	lab	lab	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	17.0	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	64.1	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.31	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.75	1.24	1.10	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	2.81	1.96	1.20	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Quality Control Interpretive Report

Work Order : VA26A6329

Client : Town of Ladysmith
 Contact : Shawn Baker
 Address : 410 Esplanade PO Box 220
 Ladysmith BC Canada V9G 1A2
 Telephone : ----
 Project : Arbutus Water Treatment - Weekly Sampling
 PO : 10940
 C-O-C number : ----
 Sampler : ----
 Site : Town of Ladysmith
 Quote number : Town of Ladysmith Standing Offer
 No. of samples received : 4
 No. of samples analysed : 4

Laboratory : ALS Environmental - Vancouver
 Account Manager : Kevin Bhikadia
 Address : 8081 Lougheed Highway
 Burnaby British Columbia Canada V5A 1W9
 Telephone : +1 604 253 4188
 Date Samples Received : 18-Mar-2026 11:25
 Issue Date : 23-Mar-2026 15:47

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
 CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
 DQO: Data Quality Objective.
 LOR: Limit of Reporting (detection limit).
 RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A7013		
Client	: Town of Ladysmith	Laboratory	: ALS Environmental - Vancouver
Contact	: Shawn Baker	Account Manager	: Kevin Bhikadia
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment Plant - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 25-Mar-2026 10:50
C-O-C number	: ----	Date Analysis Commenced	: 25-Mar-2026
Sampler	: ----	Issue Date	: 01-Apr-2026 09:20
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

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This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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Signatories

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<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Anita Chuang	Lab Assistant	Inorganics, Burnaby, British Columbia
Kate Dimitrova	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Lindsay Gung	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
CFU/mL	colony forming units per millilitre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Sample#004 (Treated Water (post reservoir)): Exceeded Recommended Holding Time prior to receipt at the lab for HPC analysis.

Work Order : VA26A7013
Client : Town of Ladysmith
Project : Arbutus Water Treatment Plant - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A7013-001	VA26A7013-002	VA26A7013-003	VA26A7013-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	lab	lab	lab	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	17.3	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	65.3	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.45	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	3.02	1.41	1.20	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	3.09	1.66	1.15	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Quality Control Interpretive Report

Work Order : VA26A7013

Client : Town of Ladysmith
 Contact : Shawn Baker
 Address : 410 Esplanade PO Box 220
 Ladysmith BC Canada V9G 1A2
 Telephone : ----
 Project : Arbutus Water Treatment Plant - Weekly Sampling
 PO : 10940
 C-O-C number : ----
 Sampler : ----
 Site : Town of Ladysmith
 Quote number : Town of Ladysmith Standing Offer
 No. of samples received : 4
 No. of samples analysed : 4

Laboratory : ALS Environmental - Vancouver
 Account Manager : Kevin Bhikadia
 Address : 8081 Lougheed Highway
 Burnaby British Columbia Canada V5A 1W9
 Telephone : +1 604 253 4188
 Date Samples Received : 25-Mar-2026 10:50
 Issue Date : 01-Apr-2026 09:20

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Key

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 DQO: Data Quality Objective.
 LOR: Limit of Reporting (detection limit).
 RPD: Relative Percent Difference.

Workorder Comments

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Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A7704	Laboratory	: ALS Environmental - Vancouver
Client	: Town of Ladysmith	Account Manager	: Kevin Bhikadia
Contact	: Shawn Baker	Address	: 8081 Lougheed Highway
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment Plant- Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 01-Apr-2026 11:25
C-O-C number	: ----	Date Analysis Commenced	: 01-Apr-2026
Sampler	: ----	Issue Date	: 08-Apr-2026 13:42
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

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This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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Signatories

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<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Miles Gropen	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Vicky Chen	Lab Assistant	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
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<i>Unit</i>	<i>Description</i>
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pH units	pH units
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<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Sample(s) Treated Water(Post reservoir): Exceeded Recommended Holding Time prior to receipt at the lab for HPC analysis.

Work Order : VA26A7704
Client : Town of Ladysmith
Project : Arbutus Water Treatment Plant- Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A7704-001	VA26A7704-002	VA26A7704-003	VA26A7704-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	lab	lab	lab	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	17.4	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	66.8	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.52	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.83	1.31	1.10	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	2.66	1.33	1.09	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Quality Control Interpretive Report

Work Order : VA26A7704

Client : Town of Ladysmith
 Contact : Shawn Baker
 Address : 410 Esplanade PO Box 220
 Ladysmith BC Canada V9G 1A2
 Telephone : ----
 Project : Arbutus Water Treatment Plant- Weekly Sampling
 PO : 10940
 C-O-C number : ----
 Sampler : ----
 Site : Town of Ladysmith
 Quote number : Town of Ladysmith Standing Offer
 No. of samples received : 4
 No. of samples analysed : 4

Laboratory : ALS Environmental - Vancouver
 Account Manager : Kevin Bhikadia
 Address : 8081 Lougheed Highway
 Burnaby British Columbia Canada V5A 1W9
 Telephone : +1 604 253 4188
 Date Samples Received : 01-Apr-2026 11:25
 Issue Date : 08-Apr-2026 13:41

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
 CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
 DQO: Data Quality Objective.
 LOR: Limit of Reporting (detection limit).
 RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.