CITY OF Lethbridge

Water Treatment Plant

September Report 2026

Water Quality Summary

Acronyms

MAC = Maximum acceptable concentration established by Health Canada
AO = Aesthetic objective (no health based limit) suggested by Health Canada
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per litre or one part per million

Health Related

Parameter	Units	Result	MAC
Turbidity	NTU	0.066	0.3
Chloramines	mg/L	1.91	n/a[1]
Nitrate-N	mg/L	0.05	10
Fluoride	mg/L	0.78	1.5
Trihalomethanes	mg/L	0.043	0.1
Aluminum	mg/L	0.0720	2.9
Chromium	mg/L	< 0.0005	0.05
Lead	mg/L	< 0.0001	0.005
Manganese	mg/L	< 0.005	0.12

Non Health Related

Parameter	Units	Result	AO
pH		7.52	7.0 - 10.5
Hardness	mg/L	164	n/a[2]
TDS - total dissolved solids	mg/L	207	≤ 500
Sulfate	mg/L	45.0	≤ 500
Sodium	mg/L	14.0	≤ 200
Iron	mg/L	<0.01	≤ 0.3
Manganese	mg/L	< 0.005	≤ 0.02

[1] Guideline value not necessary due to low toxicity at concentrations found in drinking water. Chloramine residuals in most Canadian drinking water distribution systems are typically below 4 mg/L.

[2] Although hardness may have significant aesthetic effects, a guidline has not been established because public acceptance of hardness may vary considerably according to the local conditions; major contributor to hardness (calcium & magnesium) are not of direct public health concern

Treated Water - Distribution System

BACTERIOLOGICAL / SECONDARY DISINFECTION

	Sep 1/2026		Sep 8/2026		Sep 14/2026		Sep 21/2026		Sep 28/2026	
	Sample Results		Sample Results		Sample Results		Sample Results		Sample Results	
	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T
Sample 1 North Lethbridge	1.45	N	1.43	N						
Sample 2 North Lethbridge	1.36	N			1.38	N	1.37	N		
Sample 3 North Lethbridge	1.54	N	1.16	N	1.33	N	1.21	N		
Sample 4 North Lethbridge	1.50	N	1.43	N						
Sample 5 North Lethbridge	1.51	N					1.20	N		
Sample 6 North Lethbridge										
Sample 7 North Lethbridge	1.65	N	1.56	N	1.49	N	1.44	N	1.76	N
Sample 8 North Lethbridge										
Sample 9 North Lethbridge	1.49	N			1.25	N				
Sample 10 North Lethbridge	1.50	N	1.30	N	1.31	N	1.36	N		
Sample 11 North Lethbridge					1.61	N	1.56	N		
Sample 12 North Lethbridge					1.40	N	1.57	N		
Sample 13 North Lethbridge	1.66	N	1.60	N	1.64	N	1.68	N	1.76	N
Sample 14 North Lethbridge					1.56	N	1.57	N		
Sample 15 North Lethbridge			1.16	N	0.90	N				
Sample 16 North Lethbridge					1.13	N	1.42	N		
Sample 17 North Lethbridge										
Sample 18 North Lethbridge	1.63	N								
Sample 19 North Lethbridge			1.18	N						
Sample 20 South Lethbridge			1.14	N						
Sample 21 South Lethbridge			1.58	N			1.61	N		
Sample 22 South Lethbridge	1.76	N	1.71	N	1.73	N	1.70	N	1.97	N
Sample 23 South Lethbridge	1.49	N	1.21	N						
Sample 24 South Lethbridge										
Sample 25 South Lethbridge	1.99	N	2.13	N	1.98	N	1.99	N		

	Sep 1/2026		Sep 8/2026		Sep 15/2026		Sep 22/2026		Sep 28/2026	
	Sample Results		Sample Results		Sample Results		Sample Results		Sample Results	
	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T
Sample 26 West Lethbridge	1.29	N	1.22	N	1.19	N	1.29	N		
Sample 27 West Lethbridge	1.29	N								
Sample 28 West Lethbridge	1.53	N								
Sample 29 West Lethbridge	1.26	N	1.22	N	1.34	N	1.41	N		
Sample 30 West Lethbridge	1.42	N								
Sample 31 West Lethbridge			1.27	N	1.30	N				
Sample 32 West Lethbridge										
Sample 33 West Lethbridge	1.51	N	1.41	N	1.38	N	1.27	N	1.32	N
Sample 34 West Lethbridge										
Sample 35 West Lethbridge	1.08	N	1.25	N			1.17	N		
Sample 36 West Lethbridge	1.60	N	1.61	N	1.59	N	1.60	N	1.42	N
Sample 37 West Lethbridge			1.56	N			1.57	N		
Sample 38 West Lethbridge					1.30	N				
Sample 39 West Lethbridge	1.19	N								
Sample 40 West Lethbridge			1.32	N	1.33	N				
Sample 41 South Lethbridge			1.62	N			1.72	N		
Sample 42 South Lethbridge					1.37	N	1.20	N		
Sample 43 South Lethbridge	1.27	N			1.30	N				
Sample 44 South Lethbridge			1.73	N			1.37	N		
Sample 45 South Lethbridge	1.42	N	1.41	N	1.50	N	1.38	N	1.36	N
Sample 46 South Lethbridge					1.38	N	1.48	N		
Sample 47 South Lethbridge							1.65	N		
Sample 48 South Lethbridge			0.90	N	1.10	N				
Sample 49 South Lethbridge	1.04	N	1.16	N	1.22	N	1.20	N		
Sample 50 South Lethbridge										
Sample 51 South Lethbridge										
Sample 52 South Lethbridge	1.24	N								

Total Negative (N) =	**110**
Total Positive (P) =	**0**
Total Re-Samples =	**0**

Chlorine Residual Minimum =	**0.90 mg/L**
Chlorine Residual Maximum =	**2.13 mg/L**
Chlorine Residual Average =	**1.46 mg/L**