

VILLAGE OF LYTTON

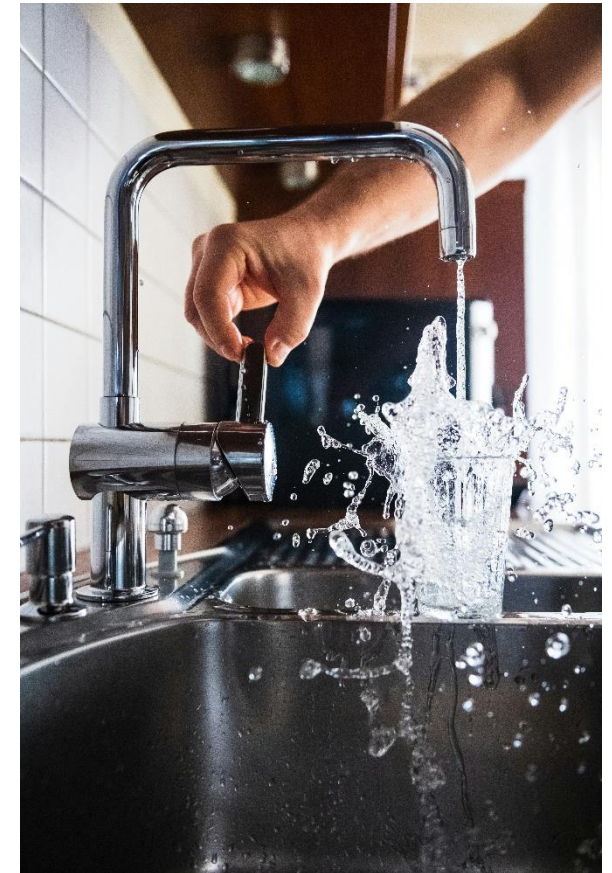
# 2025 Water System Report

Report to Council

June 23, 2026

# ANNUAL WATER SYSTEM REPORT REQUIREMENTS

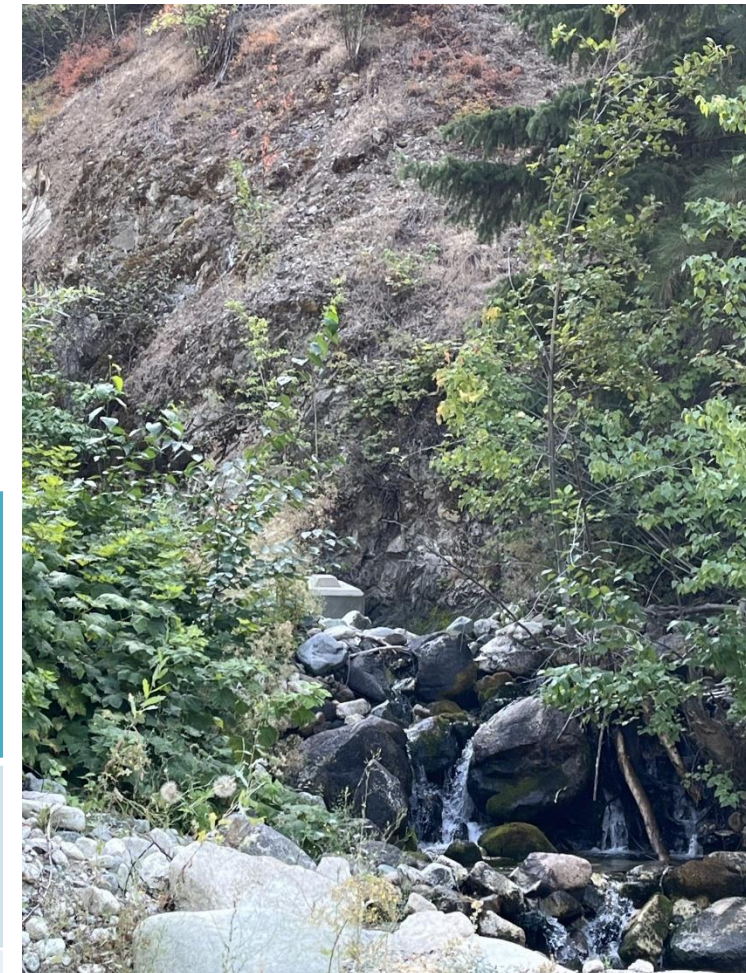
- Village of Lytton provides drinking water to users of the Community Water System:
  - Village of Lytton
  - Lytton First Nation IR 17 and IR 18
- Annual water system report is requirement of:
  - Provincial *Drinking Water Protection Act*
  - Village's water service agreement with Lytton First Nation
  - Village's water system operation permit from Interior Health
- Interior Health Authority's Drinking Water Officer is responsible for water system permits and regulation.



# WATER SOURCES & SUPPLY

- Primary water source is Lytton Creek
- Wells 2 & 3 are backup sources when the Creek supply does not meet mandatory water quality guidelines
- Backup generator for Water Treatment Plant and portable generator for one well

Source	Amount	% of annual supply
Lytton Creek	102.53 million litres	59%
Wells 2 & 3	71.45 million litres	41%
<b>Total</b>	<b>173.98 million litres</b>	<b>100%</b>



# WATER TREATMENT

- The Village follows Interior Health's Drinking Water Objectives to:
  - Inactivate viruses
  - Remove and inactivate Giardia Lamblia and Cryptosporidium
  - Treat water with UV and chlorine
  - Manage turbidity
  - Ensure absence of fecal coliforms and E. coli
- Water treatment includes:
  - Trojan Swift low pressure UV reactors
  - Chlorination within 345 reservoirs before distribution



# WATER STORAGE & DISTRIBUTION

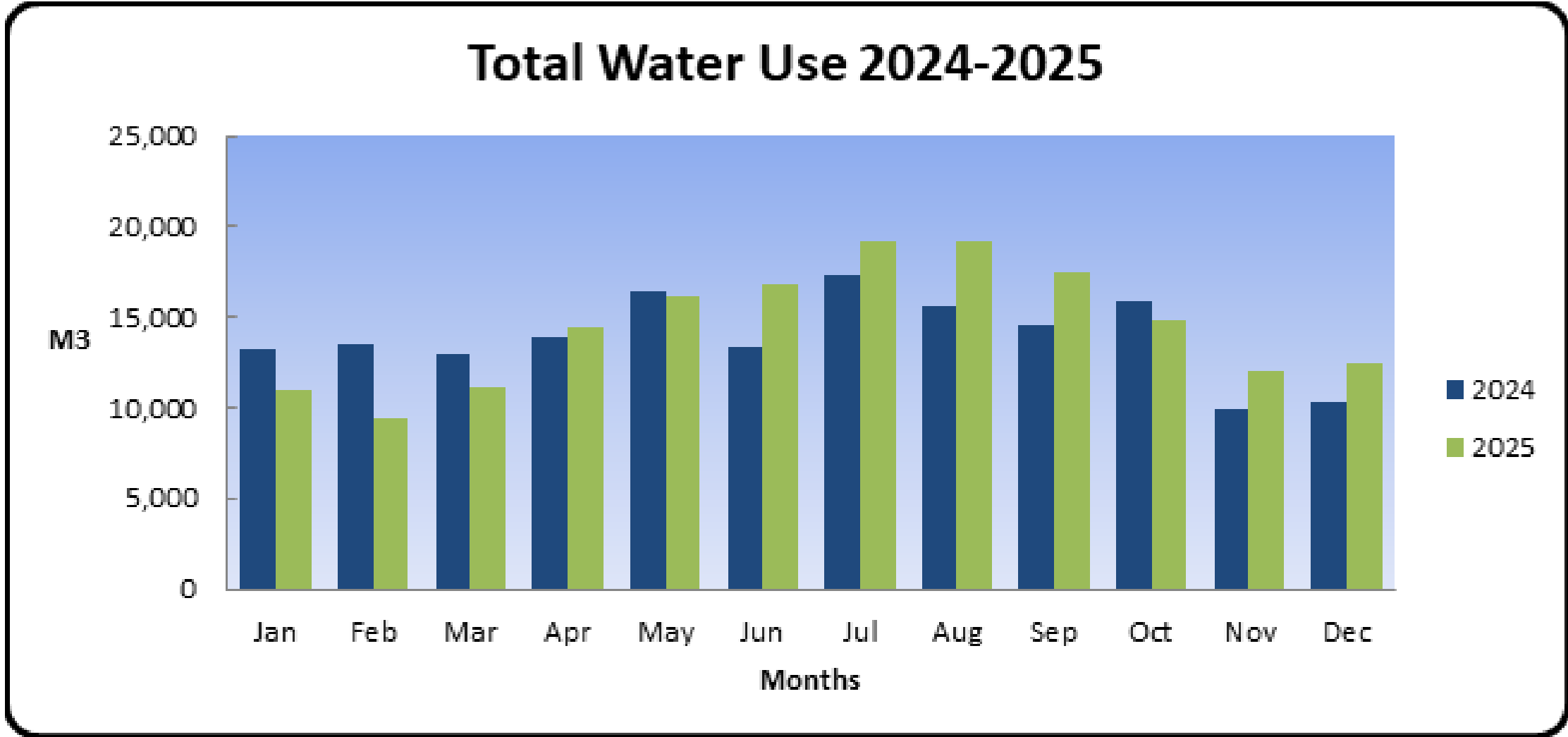
- Water is stored in 3 reservoirs and the distribution system
  - 1.3 million litres in reservoirs
  - 115,000 litres in distribution system (pipes)
- Distribution system includes:
  - 6.5 km of pipes
  - Pipes ranging from 50 mm to 200 mm in diameter



# WATER CONSUMPTION

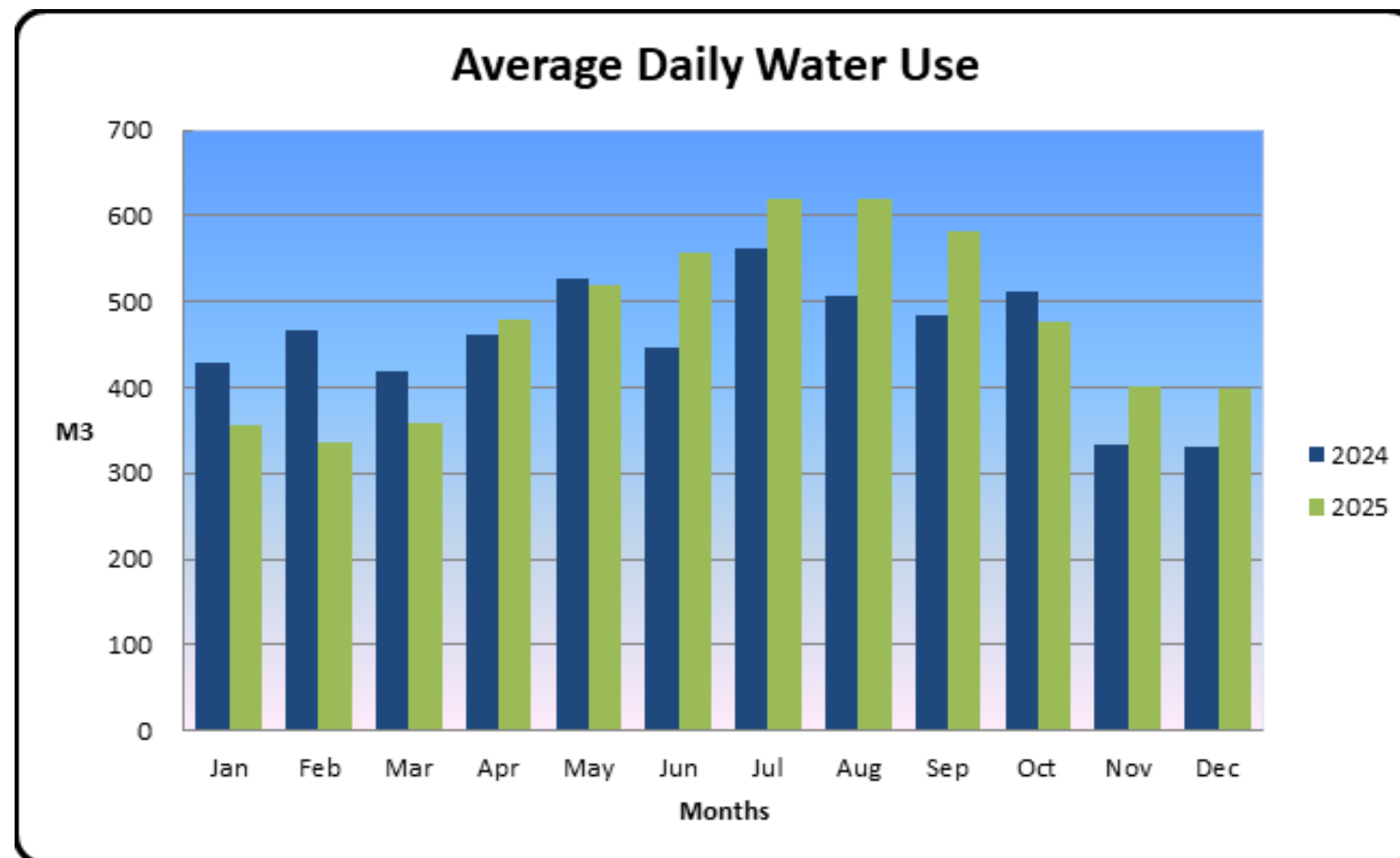


- Total 2025 water consumption in Lytton was 173.98 million litres
- Increase in 4% from 2024



# WATER CONSUMPTION

- Lytton average daily use was 3,178 litres per person
- B.C. average daily use was 465 litres per person
- Extremely high consumption may be due to construction activities, Village maintenance and recovery operations, and water leaks



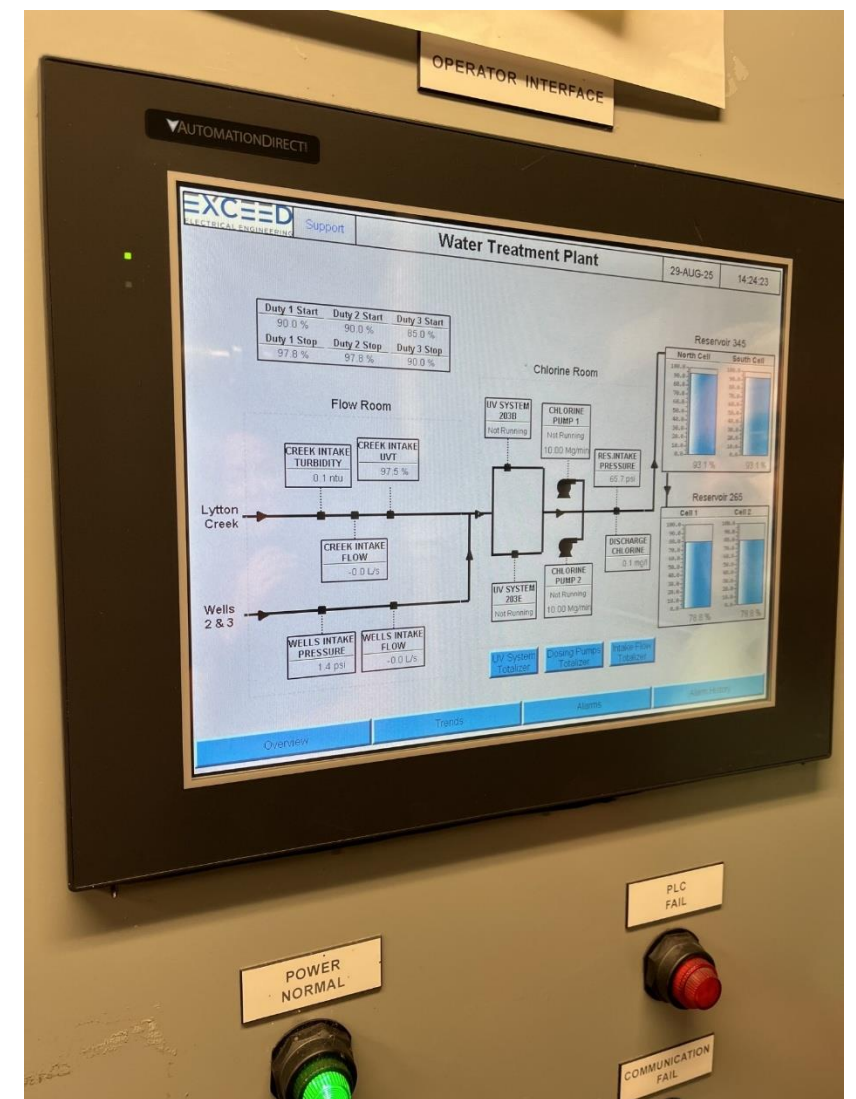
# WATER QUALITY MONITORING

- Village does extensive water quality monitoring to ensure safety of drinking water
  - Lab testing of weekly water samples from 7 locations
  - Quarterly testing to monitor for disinfection byproducts
  - Chlorine residual testing
  - Turbidity testing
- SCADA system monitors water 24/7 for flow, temperature, turbidity, Ultraviolet transmittance (UVT), pH, and chlorine residual
- Water operators can check real-time data online and identify problems



# OPERATIONS & STAFF

- Highly trained and certified operators operate and maintain the Village's water system
- Certified staff do water distribution system work like repairing water main leaks, installing water services, and maintaining fire hydrants
- The Village contracts specialists to clean reservoirs, detect leaks, and replace water mains



## 2025 ACTIVITIES

- Completed replacement of water mains:
  - On Alonzo Way between 4th and 5th Street
  - Station Road between 5th and 7th Street
  - 6th Street from Main Street to Station Road
- Completed water main loop on 7<sup>th</sup> Street from Alonzo Way to Station Road
- Completed water intake assessment
- Completed 166 weekly water samples
- Serviced:
  - UV reactors 1 & 2
  - Altitude valve at Reservoir 265
- Cleaned Lytton Creek intake twice



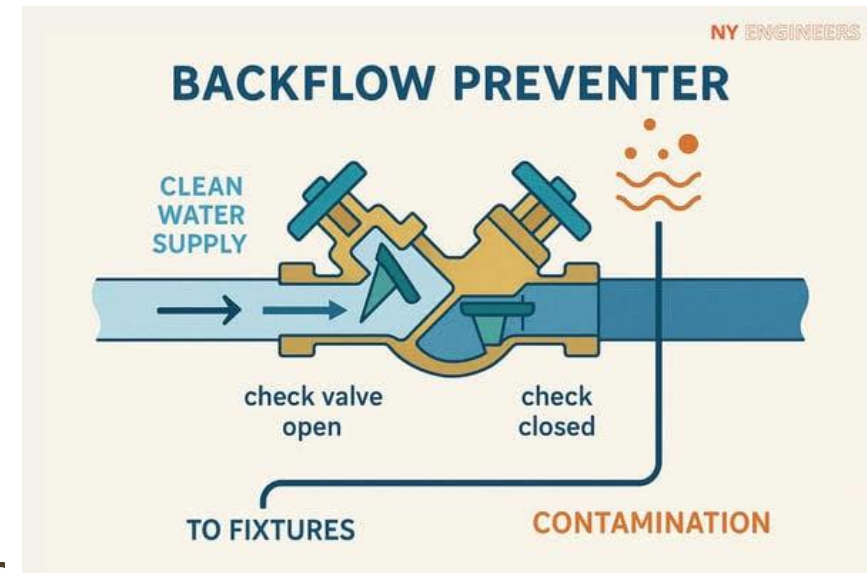
# 2026 PRIORITIES

- Continue to identify and repair water leaks and replace old infrastructure
- Complete plans:
  - Source Water Protection Plan
  - Drought Response Plan
  - Emergency Response Plan
- Upgrade several water mains
- Install cooling for Well 2 kiosk
- Install 5 water sampling stations in the Village
- Replace water meter at IR18 and install water meter at IR17



# OTHER PRIORITIES

- The Village needs to develop a cross-connection control (backflow prevention) program, as part of rebuilding to:
  - Inspect and eliminate possible connections between the potable water system and any non-potable connections
  - Prevent potential contamination of the water potable system
- The Village needs to prioritize water conservation:
  - Anticipate drought
  - Maintain an adequate supply of water for potential firefighting and community needs





Questions?