



August 4, 2021

W - 0660206

Thompson-Nicola Regional District  
300-465 Victoria Street  
Kamloops, BC V2C 2A9

**RE: Construction Permit No. CP2021-117195 for Blue River Water Treatment System Upgrades**

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Enclosed is a Construction Permit issued under Section 7 of the Drinking Water Protection Act authorizing your waterworks construction. This Permit is valid for one year only and is non-transferable.

It is the water purveyor and the design engineer's responsibility to ensure that all the equipment, pipes, valves, fittings, coatings, chemicals and water contact materials comply with the applicable ANSI/AWWA and/or ANSI/NSF Standards (i.e. ANSI/NSF Standard 61, 42, 53 & 372 etc.).

It is the water purveyor and the design engineer's responsibility to ensure that, following completion of construction or repair, all waterworks are disinfected in accordance with the appropriate AWWA standard or equivalent.

Sewers

It is the water purveyor's responsibility to maintain adequate separation between the water main and the adjacent sanitary and storm sewer. Interior Health's guidelines are as follows:

1. *A 3m horizontal separation and 0.45m vertical separation shall be maintained between water main and storm and sanitary sewer, where the distance is measured from the edge of the pipe to the edge of the pipe. The water main shall be above the sewer with proper bedding and structure supports. Under no circumstance shall the horizontal separation be less than 1.5m (edge-to-edge).*
2. *Where extreme conditions (i.e. available spaces, existing structures, etc.) prevent obtaining adequate horizontal and vertical separations, wrap the water main joints with the heat shrink wraps ("CANUSA" wrap or approved equivalent). The adjacent storm and sanitary sewer shall be constructed of pipe and joint materials that are equivalent to water main standards.*
3. *Where the water main crosses below the storm and sanitary sewer, the water main shall be protected with:*
  - a) *A vertical separation of at least 0.45m (edge-to-edge),*
  - b) *All water main and sewer joints within 3m of the crossing shall be wrapped with approved heat shrink wrap ("CANUSA" wrap or approved equivalent),*
  - c) *Centering of the length of water main at the point of crossing so that the joints are equidistant from the sewer, and*
  - d) *Structural support of the sewer to prevent excessive joint deflection and settling.*

Further, it is important to protect the water main from any contamination sources (septic tanks, septic absorption field, waste stabilization ponds, feedlots, etc.). If encountered, the water purveyor shall implement the following protective measures:

1. Maintain a 25ft (7.6m) setback from the water main to the contamination sources (i.e. septic tanks, septic field, waste stabilization ponds, or any open sewage discharge areas).
2. Under no circumstances shall water main extend through a septic tank, sewer manhole, septic absorption field, or feedlot.

Yours truly,



Li Yang (Jeff) Huang, P.Eng.  
Public Health Engineering

LYH/cw

Encl.

cc Small Water System, EHO, IHA  
Ministry of Community, Sport and Cultural Development  
Sean Curry, P.Eng., TRUE Consulting Ltd



**Interior Health**  
*Every person matters*

# Waterworks Construction Permit

This is to certify that, in accordance with Section 7 of the Drinking Water Protection Act, the proposed works have been reviewed and may commence in accordance with the approved plans. See attached.

Water Supply System: Blue River Community Water System  
Address: 5825 Murtle Lake Road, Blue River, BC

Facility Number: 0660206  
Permit Number: CP2021-117195

Engineer of Record: Sean Curry, P.Eng., TRUE Consulting Ltd  
Address: 201-2079 Falcon Road, Kamloops, BC

Project Location: 5825 Murtle Lake Road, Blue River, BC  
Date of Issue: August 4, 2021  
Date of Expiry: August 3, 2022



Interior Health  
*Every person matters*

# Waterworks Construction Permit

NO. CP2021-117195

**TO:** Thompson-Nicola Regional District - Kamloops

**THIS IS TO CERTIFY THAT** Drawing No. 379-651-M1 ( Rev 2), Drawing No. 379-651-M2 ( Rev 2), and Drawing No. 379-651-PI ( Rev 2), signed and sealed May 21, 2021, prepared and submitted by True Consulting Ltd., portraying the proposed upgrades of the Blue River Community Water System that consist of the removal of the existing unused filtration system and installation of a chlorine dosing system with associated processing piping, electrical and instrumentation devices, located in 5825 Murtle Lake Road, Blue River, BC, and submitted in accordance with Section 7 of the Drinking Water Protection Act have been reviewed and the proposed work on the construction, alteration or extension may be commenced in accordance with the approved plan and following conditions.

**This Permit is Conditional Upon:**

- I. Following construction and disinfection of the new works, the owner shall test water for bacteriological quality at a lab accredited by the BC Provincial Health Officer. Send a copy of the test results to the local Environmental Health Officer before the works are placed in service.

**NOTE:** *The system must be constructed in accordance with the plans as approved, or with any modifications that may be subsequently approved by the issuing official in writing.*

*This document certifies that the plans and specifications for the proposed works have been reviewed pursuant to the current "Waterworks System Guidelines" issued by the Interior Health and that the plans and specifications meet the health protection requirements outlined in the Guidelines.*

*The Standards of structural adequacy and safety of the works have not been considered and are not the subject of the Permit.*

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**Public Health Engineer**