



## SERVICING BRIEF

Picton Alternative Low Carbon Fuels (ALCF) Project

Prince Edward County, Ontario, Canada

Prepared for submission to:

- County of Prince Edward (PEC)
- Municipality / Building Department
- Ministry of the Environment, Conservation and Parks (MECP)

Prepared by:

Heidelberg Materials Canada

Daniel Miller, Environmental Manager  
Picton Cement Plant 1370 Highway 49 South  
Picton ON, K0K 2T0

A handwritten signature in black ink, appearing to read 'Daniel Miller', written over a faint horizontal line.

Date: May 13<sup>th</sup> 2026



The statement that no process/cooling water is required for the proposed ALCF system is supported from the experiences of similar installations in cement industry.



### **1. Introduction and Purpose**

This Servicing Brief has been prepared to describe the proposed water servicing, fire protection provisions, and material handling infrastructure for the Picton Alternative Low Carbon Fuels (ALCF) Project. The intent of this submission is to demonstrate that the proposed works do not introduce additional routine water demand and that services are adequate to support the development in accordance with County of Prince Edward and MECP requirements.

### **2. Project Description**

The Picton ALCF Project will enable the receipt, enclosed handling, screening, and firing of alternative low carbon fuels at the existing Picton cement plant. The system is designed to handle and fire up to a maximum of 200 metric tonnes per day of alternative fuels and supports provincial and corporate greenhouse gas reduction objectives.

### **3. Water Servicing Overview**

The proposed ALCF system has been specifically designed to operate without any process or utility water requirements. There is no connection to municipal water servicing for operational purposes. All equipment associated with the ALCF project is air cooled and does not require cooling water.

#### **Municipal Water Servicing Impact – County of Prince Edward**

The proposed Picton Alternative Low Carbon Fuels (ALCF) Project will not result in any additional demand on municipal water servicing infrastructure within Prince Edward County.

The ALCF system has been designed as a fully dry process, with no requirement for municipal or private water supply for operational, process, handling, screening, conveying, dosing, or firing activities. All equipment associated with the ALCF system is air cooled, and no cooling water systems are proposed.

As a result, the project does not require new municipal water connections, upgrades, or capacity allocation and will not adversely impact existing or planned municipal servicing capacity within the County of Prince Edward.

Water usage associated with the project is limited exclusively to emergency fire protection purposes. The existing on-site fire water system will be extended internally to service the new ALCF facilities and designated alternative fuel truck parking areas. This extension does not increase routine or peak water consumption and is consistent with the site's existing fire protection infrastructure.



Based on the above, the proposed development is considered to be fully self-sufficient from a servicing perspective, and the County's municipal water system will remain unaffected in both capacity and operation.

#### **4. Wastewater Generation and Sanitary Servicing**

The Picton Alternative Low Carbon Fuels (ALCF) Project will not generate any process wastewater as part of its normal operation.

The receipt, handling, screening, conveying, dosing, and firing of alternative low carbon fuels are all conducted using dry, mechanical systems, and no water is utilized at any stage of the process. As a result, no industrial wastewater, trade waste, or sanitary effluent will be produced by the ALCF system.

The project does not introduce any new sanitary discharges and does not require any connection to, modification of, or reliance upon municipal or on-site wastewater collection, treatment, or disposal infrastructure.

Accordingly, the proposed ALCF development will have no impact on the existing on-site or municipal wastewater handling systems, and wastewater servicing conditions at the Picton plant site will remain unchanged.

#### **5. Process Water Use**

There is no use of water in the receipt, unloading, handling, screening, conveying, dosing, or firing of alternative fuels. The ALCF system is fully dry and mechanical in nature. No wet processing, washing, slurry handling, or water-based dust suppression systems are employed.

#### **6. Cooling Water Requirements**

All mechanical and process equipment associated with the ALCF system is air cooled. As a result, no cooling water infrastructure, heat exchangers, or cooling loops are required or proposed as part of the project.

#### **7. Fire Protection and Emergency Water Use**

The existing plant fire water system will be extended to service the new ALCF docking station building, handling and screening areas, and the designated alternative fuel truck parking area. Water usage will only occur under emergency fire suppression conditions. No water is consumed during normal operations.

The fire suppression system for the Picton Alternative Low Carbon Fuels (ALCF) Project is currently under detailed design development in consultation with the plant safety team, qualified fire protection specialists, and the applicable authority having jurisdiction.



Detailed system layout, equipment selection, and procurement activities for the fire detection and suppression systems are ongoing at this time.

Upon completion of the detailed design and finalization of equipment specifications, the fire protection and suppression system details, including applicable drawings and technical documentation, will be formally submitted to the County of Prince Edward, local fire authorities, and other applicable regulatory agencies for review and approval.

All required submissions will be provided **as soon as practicable and prior to commissioning of the ALCF facilities**, in accordance with County and Provincial requirements.

#### **8. Alternative Fuel Receiving and Handling**

Alternative low carbon fuels will be delivered by walking floor trucks and unloaded at dedicated docking stations within an enclosed building. From the unloading point, the fuel is conveyed using fully enclosed drag chain conveyors to the screening towers. Following screening, acceptable fuel fractions are directly dosed and fired into the kiln.

#### **9. Environmental and Servicing Summary**

- No routine water consumption occurs as part of the ALCF system
- No cooling water is required
- Fire water use is limited to emergency conditions only
- All fuel handling and conveying systems are fully enclosed
- Maximum system capacity: 200 metric tonnes per day

#### **10. Conclusion**

Based on the information presented herein, the Picton ALCF Project does not result in additional municipal or site water servicing demand and relies solely on existing fire water infrastructure for emergency use. The proposed servicing approach is consistent with County of Prince Edward and MECP expectations for sustainable, low-impact industrial development. Accordingly, the proposed ALCF development is considered to be acceptable from a municipal servicing standpoint and is consistent with County of Prince Edward and MECP servicing policies for low-impact industrial development.