



July 15, 2023

**RE: Water Service Briefing for New Bunkhouse Development for (Qty 3) 8 Person Temporary Housing Units**

**LOCATION:** Integral Farms Holdings Inc. @ 8157 Inadale Drive, Mt. Bridges

**SCOPE OF WORK:**

Integral Farms Holdings Inc. intends to install a total of (QTY 3) 8 Person Temporary housing units on their property located at 8157 Inadale Drive, Mt. Bridges Ontario. Two of these units would be installed immediately for a total capacity of 16 persons and (1) future 8 Person Unit would be installed at a future date to bring the total Potable water demand from this new development to 24 Persons.

**UTILIZED WELL DATA:**

The intent to is to supply these new Temporary Housing Units from the existing Well system that was installed for the Greenhouses and Employee Offices in the existing greenhouse facility. The existing system is equipped with a WATTS 4in. Model 957 Backflow Prevention Device. The water is then treated with a 12 Unit Iron Removal System capable of processing 180 GPM. This will treat all incoming water for Integral Farms Holdings requirements. After the Iron Removal Unit, we will take the Potable water supply for this bunkhouse development through a Water Conditioner/Water Softener package. The wells being utilized have provided safe potable water to this operation for many years and we are simply utilizing some of this volume for this new development. We are updating some of this equipment during this renovation as well and formal Health Unit Water Testing will be conducted prior to obtaining the Occupancy Permit when the housing units are complete.

The existing wells currently being utilized for fresh water when Integral Farms Holdings Inc. took possession of the property on May 18<sup>th</sup>, 2023 produce a minimum of 110 GPM. 2 of the Wells have been tested and can provide 250 GPM+ on a steady basis, so there is an abundance of water available to this facility. At peak demand, the greenhouse operation will take a steady draw from the well system currently being utilized for 10.91 hours/day. As a result, this housing development will minimally affect the capacity available for the greenhouse operation.

**HOUSING DEVELOPMENT PROPOSAL**

250L/Person/Day x 24 People = 6000L/Day of Well Production to this Housing Development



FIG 1.



FIG 2.

FIG 1 / FIG 2 – Show Existing Backflow Prevention Device in Place at time of Renovation

Please also see the Water System Design Drawing which accompanies this document, which will provide an explanation of how these new Temporary Worker housing units will be serviced from this location.

If you require any further information, please feel free to contact me at any time.

Best Regards,

Jared Atkinson  
 Frontline Design & Construction Services Inc.  
 Chatham, ON  
 Cell (519) 809-3947