

**From:** [Chivers, Vania](#)  
**To:** [Erica Janes](#)  
**Cc:** [John McKee - Senior Administrative Officer](#); [Wendy bidwell@gov.nt.ca](mailto:Wendy_bidwell@gov.nt.ca); [Reenu Pascal](#); [248518@dillon.ca](mailto:248518@dillon.ca)  
**Subject:** Notification of Modifications at Fort Liard Water Treatment Plant, Water Licence No. MV2019L3-0007  
**Date:** Thursday, March 27, 2025 11:09:54 AM  
**Attachments:** [2025-03-27 Part F Notification of Modification.pdf](#)

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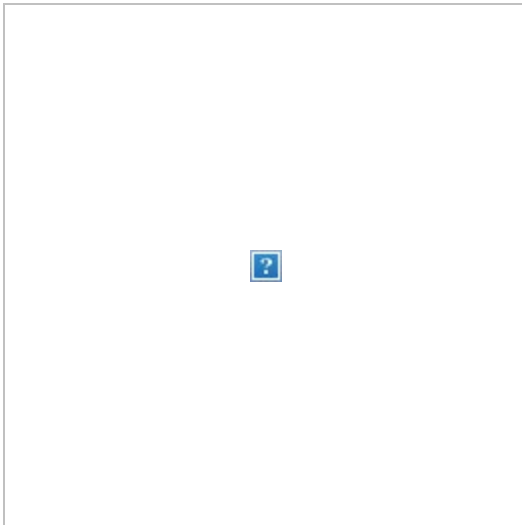
Hello Erica,

I just uploaded the attached letter to the ORS. It is a notification under Part F of the Hamlet's Water Licence regarding planned valve modifications and condition assessment.

I am sharing the letter via email as well so that John and Wendy are aware. We are available to discuss any questions that you may have.

Thank you,

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**Vania Chivers, P. Eng. (she/her)**  
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March 27, 2025

Mackenzie Valley Land and Water Board  
7<sup>th</sup> Floor, 4922 48 Street  
Yellowknife, NT  
X1A 2P6

Attention: Kathy Racher – Executive Director

*Subject: Notification of Modifications at Fort Liard Water Treatment Plant, Water Licence No. MV2019L3-0007*

As per Part F of the Hamlet's Water Licence MV2019L3-0007, please consider this letter as notification 60 days prior to the commencement of the modifications. The work is scheduled to start on May 30, 2025 and be substantially complete by June 8, 2025, subject to weather and crew availability.

One of the existing isolation valves has seized in the open position. Additionally, an updated condition assessment is needed. Working with the Hamlet, Dillon Consulting Limited (Dillon) developed a design for upgrading operation of the existing water treatment plant's concrete holding cells (clearwells) and improved reliability. This modification does not alter the purpose or function of the existing water treatment plant and is replacing "like for like".

The project involves upgrades to the valves controlling the existing three underground concrete reservoir cells of the water treatment plant. It includes draining the cells, removing existing isolation valves, installing and commissioning new valves, installing level sensors, and connecting them to existing SCADA. The project also includes cleaning the concrete surfaces for a structural condition assessment, which will involve a detailed visual examination for signs of concrete deterioration. Temporary water piping will be implemented to maintain continuous water supply throughout the construction period. During construction, the design chlorine contact time will not be achieved. Trucks will be filled via temporary piping directly from the treatment system, which operates at a flow rate approximately one third of the normal truck fill. To meet the required contact time and prevent a boil water advisory, trucks will be held for a minimum of 15 minutes following fill at a dose of 1.0 mg/L.

As fire protection is currently provided by storage volume within the three cells, a temporary fire storage system will be established. This system will consist of portable bladder tanks and pump to provide adequate water supply for emergency situations during the construction period.

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Within 90 days of completing the modifications, Dillon will submit an As-built Report to the Board, stamped and signed by a Professional Engineer. This report will include final as-built drawings and specifications. Please note that depending on results from the structural condition assessment, a second work contract may be required. It would not be as disruptive as the current work since the new valves will allow the cells to be isolated individually. A second notification letter would be provided accordingly.

If any additional information is required regarding this notification, please contact Vania Chivers with Dillon at 403-702-4257 or [vchivers@dillon.ca](mailto:vchivers@dillon.ca).

Kind Regards,

A handwritten signature in blue ink, appearing to read "Vania Chivers". The signature is fluid and cursive, written over a light blue circular stamp.

Vania Chivers  
Project Manager

cc: Wendy Bidwell- Senior Water Resource Officer, [Wendy\\_bidwell@gov.nt.ca](mailto:Wendy_bidwell@gov.nt.ca)  
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