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November 14, 2021

Kyle Seeley
Deputy Minister, Community Government Services
Government of Nunavut

Dear Deputy Minister Seeley,

While it is the City's objective to recommence full water treatment as soon as possible from the City Water Treatment Plant, it is apparent that the onset of colder temperatures make the ongoing reliance upon the Canadian Armed Forces mobile water treatment facility to provide potable drinking and the continued distribution of bottled water is impractical. An extension of the CAF mobile treatment unit is requested (November 14 RFR)

It is the City's plan, pending CHPO and City Council approvals, to provide drinking water through a bypass at the water treatment facility in the shortest time available. This same bypass solution was used during the original construction of the 2004 expansion and upgrade of the WTP and this bypass will follow the same routing.

The steps required to completely commission this bypass are listed below:

#	Description	Estimated Duration	Estimate Projected Completion
1	Inspect facility and water backwash tank	1 day	November 14
2	Confirm material requirements to install bypass pipes. Re-use available materials to the extent possible. Order any materials not available.	1 day	November 15
3	Receive materials on site.	2 days	November 17
4	Pre-construct as much of the piping, including floor openings, as possible.	2 days	November 19
5	WTP Shutdown #1 – Install isolation valve at Main Floor level.	2 hours	
6	Construct bypass piping	2 days	November 20
7	WTP Shutdown #2 – Install piping into Backwash Tank.	6 hours	
7	Return WTP to modified operation under a Boil Water Advisory.		November 21

8	Connect the following piping systems; <ul style="list-style-type: none"> • Secondary disinfection piping, • HFS piping solution 	1 day	
8	Conduct water quality sampling and analysis to confirm treated water bacteriological criteria are met.	2 days	
9	Rescind Boil Water Advisory.		November 25
		11 days	

Should these details change we will be sure to update you.

In order to shorten the WTP plant shutdown period, as much of the piping will be assembled prior to the shutdown and holes through floors will be constructed.

The interior of all new piping materials will be swabbed with disinfecting solution to expedite a return to service.

The advantage of this solution is that it will continue to provide fully automated primary and secondary disinfection, maintain continuous on-line monitoring of drinking water control through the S::CAN monitoring and is familiar to City operators.

Regards,



Amy Elgersma
Chief Administrative Officer/
Emergency Management Coordinator
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