

821094 - Igaluit Water Licence 3AM-IQA1626 - Modification to Licence, WTP Bypass

Assol Kubeisinova <assol.kubeisinova@nwb-oen.ca>

Tue, Nov 30, 2021 at 11:10 AM

To: "Deronja, Josip" < Josip. Deronja@colliersprojectleaders.com>

Cc: Licensing Department < licensing@nwb-oen.ca>, Amy Elgersma < a.elgersma@igaluit.ca>, Shane Turner < S.Turner@igaluit.ca>, Cameron McDonald <C.McDonald@iqaluit.ca>, "Dixon Weir (Dixon.Weir@gmail.com)" <Dixon.Weir@gmail.com>, "Allain, Erik (AADNC/AANDC)" <erik.allain@canada.ca>, "Dewar, Spencer (AADNC/AANDC)" <spencer.dewar@canada.ca>, "Rak-Banville, Justin" <Justin.Rak.Banville@wsp.com>, "Goss, Charles" <Charles.Goss@wsp.com>, "Moran, Ian" <Ian.Moran@wsp.com>, Teresa Meadows <tmeadows@meadowslaw.ca>

Hello Josip.

Thank you for the update. We will await the submission of the O&M manual before we proceed with further modification review.

Best regards, Assol



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Technical Advisor- Conseiller technique

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On Tue, Nov 30, 2021 at 9:34 AM Deronja, Josip < Josip.Deronja@colliersprojectleaders.com > wrote:

Hi Assol:

The bypass will be constructed shortly – the City recently retained a general contract to construct. Updates to the O&M manual are not yet complete. I will circulate them to you once they are available.

Regards,

Josip Deronja P.Eng.

Senior Project Manager

Colliers Project Leaders

Mobile 613.710.0498

From: Assol Kubeisinova <assol.kubeisinova@nwb-oen.ca>

Sent: Thursday, November 25, 2021 6:05 PM

To: Deronja, Josip < Josip. Deronja@colliersprojectleaders.com>

Cc: Licensing Department licensing@nwb-oen.ca; Amy Elgersma@iqaluit.ca; Shane Turner

<S.Turner@iqaluit.ca>; Cameron McDonald <C.McDonald@iqaluit.ca>; Dixon Weir (Dixon.Weir@gmail.com)

<Dixon.Weir@gmail.com>; Allain, Erik (AADNC/AANDC) <erik.allain@canada.ca>; Dewar, Spencer (AADNC/AANDC)

<spencer.dewar@canada.ca>; Rak-Banville, Justin <Justin.Rak.Banville@wsp.com>; Goss, Charles

<Charles.Goss@wsp.com>; Moran, lan <lan.Moran@wsp.com>

Subject: Re: 821094 - Igaluit Water Licence 3AM-IQA1626 - Modification to Licence, WTP Bypass

Hello Josip,

Could you share any update in regards to the O&M addendum for the bypass? Alternatively, if the plans for the bypass are no longer in place?

Best regards, Assol



Assol Kubeisinova - ペ\ト゚ dヘムノ_o</br>

Technical Advisor- Conseiller technique

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On Thu, Nov 18, 2021 at 7:28 AM Deronja, Josip < Josip.Deronja@colliersprojectleaders.com > wrote:

Good morning Assol:

Please find attached stamped IFC drawings for your records. We will circulate the updated sections to the WTP O&M once finalized.

Regards,

Josip Deronja P.Eng.

Senior Project Manager

Colliers Project Leaders

Mobile 613.710.0498

From: Assol Kubeisinova <assol.kubeisinova@nwb-oen.ca>

Sent: Wednesday, November 17, 2021 3:16 PM

To: Deronja, Josip < Josip. Deronja@colliersprojectleaders.com>

Cc: Licensing Department < licensing@nwb-oen.ca>; Amy Elgersma < a.elgersma@iqaluit.ca>; Shane Turner

<S.Turner@igaluit.ca>; Cameron McDonald <C.McDonald@igaluit.ca>; Dixon Weir (Dixon.Weir@gmail.com)

<Dixon.Weir@gmail.com>; Allain, Erik (AADNC/AANDC) <erik.allain@canada.ca>; Dewar, Spencer (AADNC/AANDC)

<spencer.dewar@canada.ca>; Rak-Banville, Justin < Justin.Rak.Banville@wsp.com>; Goss, Charles

<Charles.Goss@wsp.com>; Moran, lan <lan.Moran@wsp.com>

Subject: Re: 821094 - Igaluit Water Licence 3AM-IQA1626 - Modification to Licence, WTP Bypass

Thank you, Josip. The NWB looks forward to receiving the information as per the City's commitments.



Assol Kubeisinova - 456 d人人ノロペ - she\her\elle

Technical Advisor- Conseiller technique

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On Wed, Nov 17, 2021 at 1:12 PM Deronja, Josip < Josip. Deronja@colliersprojectleaders.com > wrote:

Good afternoon Assol:

I have provided responses to your questions below in red.

Should you have any further questions, please let me know.

Regards,

Josip Deronja P.Eng.

Senior Project Manager

Colliers Project Leaders

Mobile 613,710,0498

From: Assol Kubeisinova <assol.kubeisinova@nwb-oen.ca>

Sent: Tuesday, November 16, 2021 4:41 PM

To: Deronja, Josip < Josip. Deronja@colliersprojectleaders.com>

Cc: Licensing Department < licensing@nwb-oen.ca>; Amy Elgersma < a.elgersma@iqaluit.ca>; Shane Turner

<S.Turner@igaluit.ca>; Cameron McDonald <C.McDonald@igaluit.ca>; Dixon Weir (Dixon.Weir@gmail.com)

<Dixon.Weir@gmail.com>; Allain, Erik (AADNC/AANDC) <erik.allain@canada.ca>; Dewar, Spencer (AADNC/AANDC)

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<Charles.Goss@wsp.com>; Moran, lan <lan.Moran@wsp.com>

Subject: Re: 821094 - Igaluit Water Licence 3AM-IQA1626 - Modification to Licence, WTP Bypass

Hello:

Thank you for providing the materials in support of a modification request for a bypass within the water treatment plant. Please see notes below.

- 1. Your email states, "The bypass is planned as a "ready-to-go" option, should alternative means of water supply to the City be required." What does the alternative means of water supply entail? Is it a change in the water source or does it only mean a change in the mode of water supply within the WTP? Potable water is currently being provided to the community via two methods flown in bottled water (supplied by the GN), and potable water produced by the CAF's ROWPU (supplied from the Sylvia Grinnell River). A third method will be coming online shortly, that being the GN's MWTP. Water produced by the CAF's ROWPU is trucked to the three (3) water filling deports in the City, where residents are able to fill their personal water jugs. The City and GN have been discussing options to provide further access to potable water to the community, as the community heavily relies on CAF ROWPU water, the forthcoming GN MWTP (once operational), and bottled water the latter being a significant financial burden. Given the costs associated with flying in bottled water, along with the amount of plastic waste generated, the City and GN have been discussing the implementation of a bypass, which bypasses the below-ground tanks previously affected by contamination. With a bypass, water would be supplied through the City's utilidor water distribution system. This option is currently with the GN's CPHO for review and approval. As previously noted, the City would be drawing raw water from the Lake Geraldine Reservoir (as it currently does) through the existing raw water intake.
- 2. Your email states, "Note, the proposed bypass was initiated back in 2004, when the last upgrades to the WTP were performed." We could not place a request for modification or notice of construction for these activities in 2004. I understand that such a bypass would have been required in order to perform the necessary upgrades to the facility in 2004. Otherwise, the community would have been without water for the duration of the upgrades. Note, this statement was provided to indicate that such a bypass would have been utilized in the past.
- 3. Could you please confirm whether the proposed bypass is a temporary or permanent measure? The bypass would be operated on a temporary basis, until the CPHO's *Do Not Consume Advisory* would be lifted. At which point, the City would return to original treatment operations. The bypass piping would remain in place, should it be required in future emergency situations.
- 4. Could you please provide an operations and maintenance manual addendum for the bypass. Updates to the WTP O&M manual are currently underway. This will be circulated to the NWB once completed for review by interveners.
- 5. Your email states, "I have attached a Bypass Plan, along with drawings". As outlined in the Licence and discussed during processing of the previous modification, the Board requires that the engineering drawings (in this case, P&IDs) are stamped and signed by a NAPEG-registered engineer. The P&IDs provided in the WSP memo are sketches. The attached Bypass plan and drawings have been provided for information purposes. As per Part G Item 3 of the Licence, the City will be providing stamped drawings for the modifications.

Best regards,



Assol Kubeisinova - 4ょく d人 Aノ oマ - she\her\elle

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On Tue, Nov 16, 2021 at 11:17 AM Deronja, Josip Josip <a href="mailt

Good morning:

On behalf of the City of Iqaluit (City), the City would like to formally notify the Nunavut Water Board (NWB) of its intentions to carry out modifications to the potable Water Treatment Plant (WTP). The modifications will consist of a "bypass," internal to the facility, which bypasses below-ground water tanks previously affected by contamination. The bypass is being planned as a contingency measure, should the CPHO's current "Do Not Consume Advisory" be prolonged further – this is highly contingent on the GN's 3rd party review of the City's investigation report, submitted on November 4, 2021. With a proposed bypass in operation, the objective would be to replace the "Do Not Consume Advisory" with a "Boil Water Advisory," facilitating further access to water for the community – note this is contingent on approval from the CPHO. The bypass is planned as a "ready-to-go" option, should alternative means of water supply to the City be required. The bypass plan was presented to City of Iqaluit Council at a special council meeting last night – the plan was unanimously approved and will now be circulated to the CPHO for their endorsement. Note, the proposed bypass was initiated back in 2004, when the last upgrades to the WTP were performed.

As part of the proposed modifications, the facility will still be providing primary and secondary disinfection, by means of existing ultra-violet (UV) disinfection, chlorine and hydrofluorisilic acid injection. Treated water will then be diverted to the existing treated water reservoir via an existing piped system at the discharge end of the facility, before entering the City's utilidor water distribution system. I have attached a Bypass Plan, along with drawings and other supplementary documentation to support the works for reference purposes. Note, all other aspects of the licence will continue to be observed, as it pertains to the withdrawal of raw water from Lake Geraldine, sampling and monitoring of treated water within the WTP.

Please note the modifications will be performed momentarily, as detailed in the attached bypass timeline. Operation of the bypass will be contingent on the status of the GN's 3rd Party Review, as it pertains to the CPHO lifting the "*Do Not Consume Advisory*." Given the circumstances that continue to develop as a result of the local state of emergency, the City has attempted to notify the NWB as soon as possible. It is understood that the proposed modification, as it pertains to the bypass, remains consistent with the terms of the City's licence.

If you have any questions, please feel free to reach out to me.

Kind regards,

Josip Deronja P.Eng.

Senior Project Manager

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