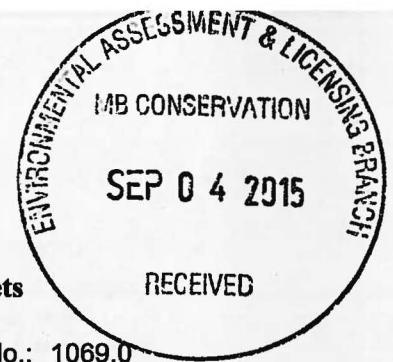




Water and Waste Department • Service des eaux et des déchets



August 27, 2015

Your File No.: 1069.0
Our File Nos.: 020-17-08-11-00
020-17-08-11-0N

Manitoba Conservation and Water Stewardship
Environmental Approvals Branch
1007 Century Street
Winnipeg, MB R3H 0W4

Attention: Tracey Braun, M.Sc., Director

Dear Ms. Braun:

RE: Request for Alteration to Environment Act Licence No. 2716RR

Further to our meeting on June 17, 2015 the City of Winnipeg (City) is requesting an alteration to Environment Act Licence No. 2716RR for:

- Clause 14b to reflect that the South End Sewage Treatment Plant (SEWPCC) upgrade will meet the new effluent treatment requirements by July 31, 2018.
- Clause 23a to reflect that the maximum hydraulic capacity of the SEWPCC will be 420 mega litres per day (MLD) peak hourly flow; a process flow diagram is attached

In the existing Environment Act Licence No. 2716 RR licence clause 14b requires construction and commissioning activities to be completed by December 31st, 2015. Clause 23a specifies a maximum hydraulic capacity of 435.1 MLD.

On September 6, 2011 the City submitted the SEWPCC Concept Design Report. Table 1, which describes the main design flows, contains an error. The peak wet weather flow of 435 MLD is greater than the peak hourly flow of 415 MLD. The City is designing the SEWPCC plant to 420 MLD peak hourly flow, as per attached.

The SEWPCC upgrade will not be able to meet the new effluent treatment requirements by December 2015. The project schedule has been extended because of:

- The desire to have a competitive proposal process for engineering design services
- A value engineering review of the preliminary design which resulted in approximately seven million dollars in savings
- A change in Manitoba Hydro's corporate policy, which now requires the project to design an electrical substation.

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The City is optimizing the project schedule. These activities include:

- Pre-purchasing equipment, such as the Integrated Fixed Film Activated Sludge (IFAS) media and the high rate clarifier (HRC) wet weather flow equipment. These vendors will also be used for the North End Sewage Treatment Plant (NEWPCC) upgrade to save time on the procurement process and unify the process between the plants for operation and maintenance
- Optimizing construction activities in the schedule with the help of a Construction Manager and the City's strategic partner, Veolia
- Continuing concrete work activities throughout the winter
- Regular review and updates on project progress

The City and its design consultant are currently finalizing several construction contract packages. The components of these contracts that are necessary to meet the new effluent treatment requirements and are scheduled to be completed by July 31, 2018.

The SEWPCC will then be able to comply with the effluent treatment requirements using chemical nutrient removal. Additional construction past the July 31, 2018 date will be necessary to modify and repurpose existing plant facilities so that biological nutrient removal can be implemented.

This schedule is aggressive. The completion date for the project and the dates for licence compliance will be reviewed and subject to change as the design progresses and the construction contract packages are implemented.

Should you have any questions please contact Duane Griffin at 204-986-4483.

Yours truly,



Chris Carroll, P.Eng., MBA
Manager of Wastewater Services

MP/jr

Attachment

c: Geoffrey Patton, P.Eng, Water and Waste Department (email)
Duane Griffin, P.Eng, Water and Waste Department (email)
Jackie Veilleux, P.Eng, Water and Waste Department (email)
Renee Grosselle, Water and Waste Department (email)
Diane Sacher, P.Eng, Water and Waste Department (email)

SEWPCC BNR/HRC Flow Diagram

River level: 228 meters

June 2015

