



Water and Waste Department • Service des eaux et des déchets

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December 21, 2006

Our Files: 040-17-08-29-00  
040-17-08-15-00  
040-17-08-35-00

Mr. Mike Van Den Bosch, P.Eng.  
Environmental Assessment and Licensing Branch  
Manitoba Conservation  
Suite 160 – 123 Main Street  
Winnipeg, Manitoba  
R3C 1A5

Dear Mr. Van Den Bosch:

**RE: NOVEMBER 2006 MONITORING REPORTS FOR THE WEST END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2669 E R, THE NORTH END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2684 R R AND THE SOUTH END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2716**

Attached please find the November 2006 Monitoring Reports for Licence No. 2669 E R issued for the City of Winnipeg West End Water Pollution Control Centre (WEWPCC), Licence No. 2684 R R issued for the City of Winnipeg North End Water Pollution Control Centre (NEWPCC) and Licence No. 2716 issued for the City of Winnipeg South End Water Pollution Control Centre (SEWPCC).

Please note the following respecting the report for Licence #2669 E R:

1. On November 25, there were no results for ammonia, orthophosphorus and total nitrogen due to loss of sample from a cracked sample bottle.

Please note the following respecting the report for Licence #2684 R R:

1. From November 15 to 20, the flow control gate on the centre UV final effluent channel was not operational. This caused about 1/3 of the flow to bypass UV treatment. This bypass is reflected by the high fecal coliform and E.coli results for this period of time.
2. The BOD5 results were in excess of the 30 mg/L limit in the license for all the days that samples were collected in November. As indicated in the last monitoring submission, since the cBOD5 and TOC results have been consistently low, it is thought that these high results may be due to nitrification occurring. It is likely that this problem is occurring in the new final effluent sampling system that was installed with the UV disinfection system. We do not believe that the effluent going to the river exceeds the licence requirement. We are following up to confirm the theory and are taking steps to mitigate the problem as soon as possible.
3. The limits on geometric mean for fecal coliforms and E. coli were exceeded in November. As is noted in Item #1 above, there were problems with a control gate in the UV facility. As mentioned in earlier monitoring report submissions, we are continuing to investigate some issues that have arisen with the UV disinfection facility including foaming and possible short circuiting of the facility.

*Embrace the spirit • Vivez l'esprit*

Environmental Standards Division • Division des normes environnementales  
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Please note the following respecting the report for Licence #2716:

1. There was one exceedance of the BOD5 limit of 30 mg/L on November 11.

As requested in earlier monitoring report submittal letters, I would like to receive written direction from you respecting the following:

1. The taking of the grab samples for bacteriological analysis during short term "bypass" flow conditions has been an ongoing concern for us. The interpretation of the SEWPCC and NEWPCC licences with respect to compliance reporting of resulting data from samples taken at that time should be covered.
2. All three licences require the collection of grab samples for fecal coliform and E. coli analysis "once each day" under the Monitoring Requirements section. In this section, we are also required to determine and record the geometric mean for these parameters "from a minimum of 12 grab samples" collected during the month. In the Specifications, Limits, Terms and Conditions section of the licences, we are required to meet the geometric mean limits for fecal coliform and E. coli based on grab samples collected "a minimum of 3 consecutive days per week". To date, we have been using all data from the monthly grab samples to determine the geometric mean values. Please let me know if we may use only 12 of the sample results on a monthly basis to determine compliance.
3. We are considering various means of meeting the intent of Clause #27 of Licence #2669 E R respecting disinfection without installing a complete full time UV treatment system which at most times based on past data is not needed. If we draw down the elevation of the polishing ponds at WEWPCC and then hold flow and not discharge to the river for a period of time, can we use a value of 0 or <1 MPN/100mL for the days that flow is not discharged for determination of the monthly geometric means for fecal coliform and E. coli?

Please let me know of any concerns or questions respecting this submission. I may be reached at the above address, by telephone at 986-4807 or by email at [kkjartanson@winnipeg.ca](mailto:kkjartanson@winnipeg.ca).

Thanks for your ongoing cooperation and understanding in this matter. All the best wishes for a very Happy Holiday Season.

Yours sincerely,

*Original signed by:*

K.J.T. Kjartanson, P.Eng.  
Manager of Environmental Standards

KJTK:kk:pr  
Attachments

c: Cliff Lee, P.Eng., Assistant Director of Red River Region  
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W.J. Borlase, P.Eng.  
M.A. Shkolny, P.Eng.

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