



Water and Waste Department • Service des eaux et des déchets

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June 30, 2011

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

Ms. Siobhan Burland-Ross  
Environmental Assessment and Licensing Branch  
Manitoba Conservation  
Suite 160 – 123 Main Street  
Winnipeg, Manitoba  
R3C 1A5

Dear Ms. Burland-Ross:

**RE: MAY 2011 MONITORING REPORTS FOR THE WEST END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2669 E RR, THE NORTH END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2684 RRR AND THE SOUTH END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2716 R**

Attached please find the May 2011 Monitoring Reports for Licence No. 2669 E RR issued for the City of Winnipeg West End Water Pollution Control Centre (WEWPCC), Licence No. 2684 RRR issued for the City of Winnipeg North End Water Pollution Control Centre (NEWPCC) and Licence No. 2716 R issued for the City of Winnipeg South End Water Pollution Control Centre (SEWPCC).

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

1. We are pleased to report that the ammonia results have met the limit set in the licence. The total nitrogen and total phosphorus thirty-day rolling averages met the limits set in the licence in May.
2. The TSS results met the limit set in the licence in May.
3. The cBOD5 results met the limit set in the licence in May.
4. We are pleased to report that during the month of May the fecal coliform and E. coli results met the limits set in the licence.

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

1. The TSS results were in excess of the 30 mg/L limit in the licence on 3 days in May. The high TSS values were due to intermittent high flows and bypass events which contributed to the increased turbidity results. Although the flow exceeded 380 ML/day in accordance with the licence on May 1 and 21, the values from those days are included in the average result calculation. The TSS average result for May met the limit set in the licence.

2. The BOD5 results were in excess of the 30 mg/L limit in the licence on 17 days in May. The high BOD5 values on some days were due to intermittent high flows and bypass events. Although the flow exceeded 380 ML/day in accordance with the licence on May 2 and 21, the values from those days are included in the average result calculation. As indicated in earlier monitoring submissions, the cBOD5 and TOC results have been consistently low, and through testing we have shown that these high results may be due to nitrification occurring. The BOD5 average result for May did not meet the limit set in the licence.
3. On May 1, 2, 21, 22 and 31, the flow exceeded 380 ML/day in accordance with the licence therefore the values from those days were not included in the geometric mean calculation. On May 3 and 9, the flow exceeded 380 ML/day at the time of sampling therefore the values from those days were not included in the geometric mean calculation. The fecal coliform and E. coli results met the limits set in the licence in May.

Please note the following respecting the report for Licence #2716 R:

1. On May 30, there was no result for pH due to a technician error.
2. The TSS results were in excess of the 30 mg/L limit in the licence on 2 days in May. The high TSS values were due to intermittent high flows and bypass events which contributed to the increased turbidity results. Although the flow exceeded 98.6 ML/day in accordance with the licence on May 21 and 31, the values from those days are included in the average result calculation. The TSS average result for May met the limit set in the licence.
3. The BOD5 results were in excess of the 30 mg/L limit in the licence on 3 days in May. The high BOD5 values were due to intermittent high flows and bypass events. Although the flow exceeded 98.6 ML/day in accordance with the licence on May 21 and 31, the values from those days are included in the average result calculation. The high result on May 19 may be due to nitrification occurring. The BOD5 average result met the limit set in the licence in May.
4. On May 17, there was no result for fecal coliform due to a technician error. From May 1 to 13, the Red River levels at the outfall exceeded the elevation of 229.0 meters. As indicated in the previous submission and in an e-mail sent on April 15 to Siobhan Burland-Ross by Renee Grosselle, we indicated that as per our flood protection measures, the U.V. disinfection was shut down and isolated and final effluent grab samples would not be collected. As per clause 27 of the licence, the fecal coliform and E.coli values were not included in the geometric mean calculation on those days because the river elevation was above 229.0 meters. On May 21, 22 and 31, the flow exceeded 98.6 ML/day in accordance with the licence therefore the values from those days were not included in the geometric mean calculation. On May 24, the flow exceeded 98.6 ML/day at the time of sampling therefore the value from that day was not included in the geometric mean calculation. The fecal coliform and E. coli results met the limits set in the licence in May.

As mentioned in previous submissions, the City has requested that the Province change the present "daily not to exceed" BOD5 and TSS limits in the licences to monthly or running 30 day average limits. This request is under consideration by Manitoba Conservation.

The city has also requested that the Province eliminate the BOD5 test. This test is not a valid test procedure for final effluent and should not be used for compliance assessment purposes. It is important to recognize that under certain conditions, the City of Winnipeg's wastewater treatment plants experience nitrifying activity. Under such conditions the BOD5 will continue to exceed the limits from time to time. The city has requested that the BOD5 test be replaced with the carbonaceous BOD5 test.

Please let me know of any concerns or questions respecting this submission. I may be reached at the below 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.

Yours sincerely,

*Original signed by:*

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

KJTK/RG  
Attachments

c: Mark Stephens, Manitoba Conservation  
B.D. MacBride, P.Eng.  
W.J. Borlase, P.Eng.  
M.A. Shkolny, P.Eng.

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