



Water and Waste Department • Service des eaux et des déchets

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May 31, 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: APRIL 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 April 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. On April 18, there was no result for pH due to a technician error.
2. 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 April.
3. The TSS results met the limit set in the licence in April.
4. The cBOD5 results met the limit set in the licence in April.
5. On April 29, there were no results for fecal coliform and E.coli due to a technician error. We are pleased to report that during the month of April 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. On April 16, there was no final effluent grab sample because the sampling location could not be accessed.
2. The TSS results were in excess of the 30 mg/L limit in the licence on 12 days in April. 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 April 3 to 11, and on April 30, the values from those days are included in the average result calculation. The TSS average result for April met the limit set in the licence.

3. The BOD5 results were in excess of the 30 mg/L limit in the licence on 16 days in April. The high BOD5 values were due to intermittent high flows and bypass events. Although the flow exceeded 380 ML/day in accordance with the licence on April 3 to 11, and on April 30, the values from those days are included in the average result calculation. The BOD5 average result for April did not meet the limit set in the licence.
4. On April 29, there were no results for fecal coliform and E.coli due to a technician error. In an e-mail sent on April 27 to Tracey Braun from William Borlase, we indicated that on April 6, the U.V. disinfection was discontinued at the NEWPCC based on a sudden rise in river water levels due to ice jamming. This was implemented to protect plant processes and operations, and to provide increased flood protection to the areas serviced by the North East and North West interceptors. The U.V. disinfection was put back into service on April 27. On April 3, 4, 5 and 30 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 April 12, the flow exceeded 380 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 did not meet the limits set in the licence in April.

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

1. On April 24, there was no 24 hour composite sample due to insufficient sample volume.
2. The TSS results were in excess of the 30 mg/L limit in the licence on 5 days in April. 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 April 2, 3, 7, 8, and 30 the values from those days are included in the average result calculation. The TSS average result for April met the limit set in the licence.
3. The BOD5 results were in excess of the 30 mg/L limit in the licence on 2 days in April. 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 April 2 and 3, the values from those days are included in the average result calculation. The BOD5 average result met the limit set in the licence in April.
4. In the month of April, the Red River levels at the outfall exceeded the elevation of 229.0 meters as of April 8. 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 April 2 to 7, 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.

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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