



Water and Waste Department • Service des eaux et des déchets

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April 29, 2009

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040-17-08-15-00  
040-17-08-35-00

Mr. Rafiqul Chowdhury  
Environmental Assessment and Licensing Branch  
Manitoba Conservation  
Suite 160 – 123 Main Street  
Winnipeg, Manitoba  
R3C 1A5

Dear Mr. Chowdhury:

**RE: MARCH 2009 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 March 2009 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 March 20, 21, and 22 there were no final effluent 24 hour composite samples due to a sampler malfunction. The problem has been corrected.
2. We are pleased to report that the total nitrogen, phosphorus and ammonia results have met the limits set in the licence.
3. On March 16, there was no result for cBOD5 due to quality control failure. The cBOD5 licence limit was met in March.
4. The TSS values exceeded the limit set in the licence on 7 days in the month of March. Snow melt conditions may have contributed to the increased turbidity results. The TSS average result met the limit set in the licence in March.
5. We are pleased to report that during the month of March the fecal coliform and E. coli limits met the limits set in the licence.

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

1. On March 26, there was no grab sample because the site was inaccessible due to snow.
2. On March 16, 20, and 21 there were no results for BOD5 and cBOD5 due a quality control failure. During March, the BOD5 results were in excess of the 30 mg/L limit in the licence for 6 days. The BOD5 results also exceeded 30 mg/L on 3 days in which the flow exceeded 380 ML/day in accordance with the licence. As indicated in earlier monitoring submissions, the cBOD5 and TOC results have been consistently low, and through testing we have shown that

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these high results are due to nitrification occurring. The BOD5 average result for March met the limit set in the licence.

3. The TSS values exceeded the limit set in the licence on 4 days in the month of March. The TSS results also exceeded 30 mg/L on 3 days in which the flow exceeded 380 ML/day in accordance with the licence. The high TSS values were due to high flows and bypass events caused by snow melt conditions which contributed to the increased turbidity results. The TSS average result for March met the limit set in the licence.
4. We are pleased to report that during the month of March the fecal coliform and E. coli limits met the limits set in the licence. On March 22, 23, 24, and 25 the plant flows were beyond bypass levels at the time of sampling. The values from those days were not included in the geometric mean calculation.

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

1. On March 24 and 25 there were no final effluent 24 hour composite samples due to a sampler malfunction. The problem has been corrected.
2. On March 16, 20, and 21 there were no results for BOD5 and cBOD5 due a quality control failure. The high BOD5 values on March 22 and 23 were due to high flows and bypass events. The BOD5 average result for March met the limit set in the licence.
3. On March 16 the TSS value exceeded the limit set in the licence. The TSS results also exceeded 30 mg/L on 2 days in which the flow exceeded 98.6 ML/day in accordance with the licence. The high TSS values were due to high flows and bypass events caused by snow melt conditions which contributed to the increased turbidity results. The TSS average result for March did not meet the limit set in the licence. The average value includes the high bypass TSS results.
4. During March, the fecal coliform and E. coli limits were exceeded. Snow melt conditions have contributed to some of the high coliform values. We experienced high instantaneous flows which resulted in intermittent bypassing of the plant during the initial spring runoff period from March 21 to March 25. We were also performing major primary clarifier maintenance at different times over the course of the month. To facilitate this maintenance we were bypassing primary effluent which contributed to high coliform values. In addition to this, the maintenance caused excess build-up of our solids inventory which resulted in the solids to spill over the secondary weirs. These solids affected the efficiency downstream UV disinfection system resulting in high coliform levels.

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.

Yours sincerely,

*Original signed by:*

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

KJTK/RG

Attachments

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

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M.A. Shkolny, P.Eng.