



Water and Waste Department • Service des eaux et des déchets

May 31, 2010

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

Ryan Coulter
Environmental Assessment and Licensing Branch
Manitoba Conservation
Suite 160 – 123 Main Street
Winnipeg, Manitoba
R3C 1A5

Dear Mr. Coulter:

RE: APRIL 2010 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 2010 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 April.
2. The TSS values exceeded the limit set in the licence on 4 days in the month of April. This is due to turnover in the polishing cells. The TSS average result met the limit set in the licence in April.
3. There was no result for cBOD5 on April 25 due to quality control failure. The cBOD5 licence limit was met in April.
4. There was no result for temperature on April 4 due to technician error.
5. 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. The TSS results were in excess of the 30 mg/L limit in the licence on 3 days in April. The high TSS values were due to high flows and bypass events which contributed to the increased turbidity results. The TSS average result for April met the limit set in the licence.
2. There were no results for cBOD5 and BOD5 on April 25 due to quality control failure. The BOD5 results were in excess of the 30 mg/L limit in the licence on 8 days in April. On April 29 and 30, the high BOD5 values were due to intermittent high flows due to a rainfall event. The cause for the other high values is unknown. As indicated in earlier monitoring submissions, we

have shown that these high results may be due to nitrification occurring. The BOD5 average result for April met the limit set in the licence.

3. On April 3 and 8, the plant flows were beyond bypass levels at the time of sampling and the values from that day were not included in the geometric mean calculation. On April 30, the flow exceeded 380 ML/day in accordance with the licence therefore the values from that day were not included in the geometric mean calculation. 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 #2716 R:

1. On April 17 and 18, there were no results for ammonia and total nitrogen due to a sample preparation error. On April 21, 22, and 25, there were no results for ammonia and total nitrogen due to possible sample interferences. Although the samples were re-analyzed the results were not representative.
2. The TSS results were in excess of the 30 mg/L limit in the licence on 8 days in April. The high TSS values were due to maintenance activities and high flows and bypass events. The TSS average result for April met the limit set in the licence.
3. There were no results for cBOD5 and BOD5 on April 25 due to quality control failure. The BOD5 result was in excess of the 30 mg/L limit in the licence on 6 days in April. As mentioned above, we have been performing maintenance activities and experiencing high flows which may have contributed to the high values. The BOD5 average result for April met the limit set in the licence.
4. 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.

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 above address, by telephone at 986-4807 or by email at 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
B.D. MacBride, P.Eng.
W.J. Borlase, P.Eng.
M.A. Shkolny, P.Eng.