



Water and Waste Department • Service des eaux et des déchets

September 30, 2009

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

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

Dear Ms. Burland-Ross:

RE: AUGUST 2009 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 August 2009 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 total nitrogen and ammonia results have met the limits set in the licence. The total phosphorus licence limit was not met this month. As mentioned in previous submissions, we are experiencing operational issues which have contributed to the high phosphorus results. We hope to have these issues resolved in the near future.
2. The cBOD5 licence limit was met in August.
3. The TSS values exceeded the limit set in the licence for 20 days in August. This is due to seasonal growth of algae in the polishing cells. The TSS average result did not meet the limit set in the licence in August.
4. We are pleased to report that during the month of August 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. There were no samples for the 24 hour final effluent composite from August 6 to August 9, August 18 and on August 31 due to upgrades being completed on the final effluent sampler and pump.

Embrace the spirit • Vivez l'esprit

Environmental Standards Division • Division des normes environnementales
2230 Main Street • 2230, Rue Main • Winnipeg • Manitoba R2V 4T8
tel/tél. (204) 986-4684 • fax/télec. (204) 339-2147 • www.winnipeg.ca

2. During August, the BOD5 results were in excess of the 30 mg/L limit in the licence for 5 days. 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 are due to nitrification occurring. The BOD5 average result for August met the limit set in the licence.
3. The TSS values exceeded the limit set in the licence on August 20 due to intermittent high flows and bypass events. The TSS average result for August met the limit set in the licence.
4. On August 15, 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 August 3 and 24, the plant flows were beyond bypass levels at the time of sampling and the values from those days were not included in the geometric mean calculation. During the month of August, the E. coli results met the limit set in the licence. The fecal coliform value did not meet the licence limit this month.

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

1. There was no result for total nitrogen on August 6 due to a technician error. There was no result for total phosphorus on August 10 due to a contaminated sample.
2. On August 28, there was no sample for the 24 hour final effluent composite due to insufficient sample volume.
3. During August, the BOD5 results were in excess of the 30 mg/L limit in the licence for 20 days. On eight of those days, the BOD5 results obtained were greater than values. We have adjusted our analysis method to achieve higher results. On August 1, 15 and 21, the flow exceeded 98.6 ML/day in accordance with the licence which contributed to the high BOD5 values. 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 are due to nitrification occurring. The BOD5 average result for August did not meet the limit set in the licence.
4. The TSS values exceeded the licence limit for 9 days in the month of August. The plant experienced intermittent high flows and bypass events which may have contributed to the high results. The TSS average result for August met the limit set in the licence.
5. On August 1, 15, and 21, 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 August 14, 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. We are pleased to report that during the month of August 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 current conditions the BOD5 will continue to exceed the limits. 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.

N:\Compliance Reporting\WPCC Monthly\2009 Submittal Letters WPCC\Submittal Letter WPCC Monitoring August 2009 .doc