



Water and Waste Department • Service des eaux et des déchets

October 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: SEPTEMBER 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 September 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. On September 3, there was no grab sample because the location was not accessible due to asbestos removal work at the sampling location.
2. 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.
3. There were no results for cBOD5 on September 5 and 27 due to a quality control failure. The cBOD5 licence limit was met in September.
4. The TSS values exceeded the limit set in the licence everyday in September. 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 September.
5. There was no result for E.coli on September 22 due to a technician error. There was no result for fecal coliform on September 30 due a contract lab error. We are pleased to report that during the month of September the fecal coliform and E. coli results met the limits set in the licence.

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

1. On September 19, there was no result for total phosphorus. The sample was re-analysed and a result could not be obtained. On September 30, there was no result for total nitrogen because the sample for TKN was not representative.
2. There were no results for BOD5 and cBOD5 on September 5 and 27 due to a quality control failure. On September 8 and 11, the BOD5 results were in excess of the 30 mg/L limit in the licence. On September 8, the plant experienced intermittent high flows and bypass events and on September 11, the flow exceeded 380 ML/day in accordance with the licence which contributed to the high BOD5 values. The BOD5 average result for September met the limit set in the licence.
3. On September 8 and 11, the TSS results were in excess of the 30 mg/L limit in the licence. On September 8, the plant experienced intermittent high flows and bypass events and on September 11, the flow exceeded 380 ML/day in accordance with the licence which contributed to the high TSS values. The TSS average result for September met the limit set in the licence.
4. There was no result for E.coli on September 22 due to a technician error. On September 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 September 11, 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. During the month of September, the geometric mean for 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. On September 29, there was no result for total nitrogen because the sample for TKN was not representative.
2. There were no results for BOD5 and cBOD5 on September 5 and 27 due to a quality control failure. During September, the BOD5 results were in excess of the 30 mg/L limit in the licence for 17 days. On September 16, the plant experienced intermittent high flows and bypass events which may have contributed to the high result on that day. 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 September did not meet the limit set in the licence.
3. We are pleased to report that the TSS results for September met the limit set in the licence.
4. There was no result for E.coli on September 22 due to a technician error. On September 16, 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 September 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.

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