

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data**

May 2020

| Licence # 2669 E RR | File # 53.10 | Final Effluent 24 Hour Composite | | | | | | Final Effluent Grab Sample | | | | | |
|------------------------|-----------------|-------------------------------------|------------------------------|------------|--------------|----------------|---------------------|-------------------------------|-------------------|---------------|-----------|-------------------|--------|
| | | Date | Final Effluent Daily Flow | TSS | cBOD5 | Ammonia | Ortho Phosphorus | Total Phosphorus | Total Nitrogen | Temp. | pH | Fecal Coliform | E.Coli |
| | | | ML | (mg/L) | (mg/L) | (kg NH3-N/day) | (mg/L-P) | (mg/L-P)* | (mg/L-N)* | (°C) | (units) | MPN/100 mL | |
| 1-May-20 | 25.6 | 24 | nr | 0.2 | <0.013 | 0.4 | 3.8 | 11.7 | 9.74 | <10 | <10 | | |
| 2-May-20 | 25.7 | 32 | 8 | 0.2 | 0.049 | 0.4 | 3.7 | 11.2 | 9.74 | <10 | <10 | | |
| 3-May-20 | 25.2 | 37 | 9 | 0.2 | 0.032 | 0.3 | 3.5 | 9.6 | 9.75 | <10 | <10 | | |
| 4-May-20 | 24.9 | 32 | 9 | 0.6 | 0.036 | 0.3 | 3.4 | 12.1 | 9.37 | <10 | <10 | | |
| 5-May-20 | 24.3 | 30 | 10 | 0.4 | 0.071 | 0.3 | 3.2 | 11.6 | 9.50 | <10 | <10 | | |
| 6-May-20 | 23.5 | 19 | 8 | 0.4 | 0.059 | 0.3 | 3.0 | 12.5 | 9.43 | <10 | <10 | | |
| 7-May-20 | 23.0 | 38 | 11 | 1.0 | 0.097 | 0.3 | 2.9 | 12.2 | 9.40 | <10 | <10 | | |
| 8-May-20 | 22.3 | 28 | nr | 0.1 | 0.081 | 0.3 | 2.7 | 11.1 | 9.29 | <10 | nr | | |
| 9-May-20 | 21.6 | 35 | 11 | 0.7 | 0.076 | 0.3 | 2.7 | 11.2 | 9.61 | <10 | <10 | | |
| 10-May-20 | 21.1 | 45 | 8 | 0.7 | 0.683 | 0.3 | 2.6 | 10.1 | 9.60 | <10 | <10 | | |
| 11-May-20 | 20.8 | 41 | 11 | 1.8 | 0.516 | 0.3 | 2.6 | 10.2 | 9.41 | <10 | 10 | | |
| 12-May-20 | 20.8 | 34 | 10 | 0.3 | 0.054 | 0.3 | 2.5 | 10.4 | 9.61 | <10 | 20 | | |
| 13-May-20 | 20.7 | 35 | 9 | 0.6 | 0.075 | 0.3 | 2.4 | 11.4 | 9.69 | <10 | <10 | | |
| 14-May-20 | 23.8** | 35 | 13 | 0.1 | 0.068 | 0.3 | 2.3 | 10.6 | 9.68 | <10 | <10 | | |
| 15-May-20 | 20.7 | 34 | 10 | 0.7 | 0.071 | 0.3 | 2.3 | 10.0 | 9.65 | <10 | <10 | | |
| 16-May-20 | 20.4 | 29 | 9 | 1.7 | 0.099 | 0.3 | 2.2 | 11.7 | 9.69 | <10 | <10 | | |
| 17-May-20 | 19.9 | 22 | 9 | 1.1 | 0.137 | 0.4 | 2.2 | 13.5 | 9.52 | <10 | <10 | | |
| 18-May-20 | 19.2 | ns | ns | ns | ns | 0.4 | 2.1 | 19.8 | 8.98 | 10 | <10 | | |
| 19-May-20 | 19.0 | 40 | 9 | 1.6 | 0.168 | 0.4 | 2.1 | 16.2 | 9.52 | <10 | 30 | | |
| 20-May-20 | 18.7 | 32 | 8 | 3.0 | 0.414 | 0.4 | 1.9 | 17.5 | 9.46 | 20 | 10 | | |
| 21-May-20 | 18.5 | 53 | 9 | 0.1 | 0.232 | 0.4 | 1.9 | 19.2 | 9.42 | <10 | <10 | | |
| 22-May-20 | 18.9 | 39 | 7 | 0.5 | 0.285 | 0.4 | 1.9 | 18.2 | 9.28 | <10 | <10 | | |
| 23-May-20 | 19.8 | 30 | 7 | 1.1 | 0.332 | 0.4 | 1.8 | 19.4 | 9.28 | 150 | 20 | | |
| 24-May-20 | 20.1 | 22 | 8 | 1.1 | 0.360 | 0.4 | 1.8 | 20.3 | 9.24 | 250 | 220 | | |
| 25-May-20 | 20.4 | 24 | 7 | 1.3 | 0.360 | 0.4 | 1.8 | 19.5 | 9.08 | 160 | 110 | | |
| 26-May-20 | 19.8 | 21 | 8 | 0.4 | 0.355 | 0.4 | 1.8 | 20.3 | 9.26 | 10 | 30 | | |
| 27-May-20 | 19.3 | 26 | 8 | 2.0 | 0.623 | 0.4 | 1.8 | 19.8 | 9.34 | 10 | 30 | | |
| 28-May-20 | 19.2 | 41 | na | 0.2 | 0.350 | 0.5 | 1.7 | 17.6 | 9.40 | 60 | 90 | | |
| 29-May-20 | 19.1 | 33 | 6 | 8.9 | 0.855 | 0.5 | 1.8 | 15.2 | 9.49 | 30 | 30 | | |
| 30-May-20 | 18.9 | 33 | 10 | 0.8 | 0.315 | 0.5 | 1.8 | 13.9 | 9.58 | 20 | 20 | | |
| 31-May-20 | 18.3 | ns | ns | ns | ns | 0.5 | 1.8 | 15.9 | 9.59 | 10 | 20 | | |
| Max: | 25.7 | | | | | | | | | | | | |
| Min: | 18.3 | | | | | | | | | | | | |
| Average: | 21.0 | 33 | 9 | 1.1 | 0.237 | | | 14.3 | 9.47 | | | | |
| Total Flow: | 629.4 | | | | | | | | | | | | |
| Geo.Mean: | | | | | | | | | | <10 | 11 | | |

Notes:

- (1) nr - not recorded or no result; na - not analyzed; ns - no sample
- (2) Where value is expressed as less than (<), the value is halved and used in the calculations
- (3) * = 30 day rolling average
- (4) ** A power outage caused an inaccurate daily flow reading; raw influent flow was used to calculate the ammonia load