

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
May 2018

| Licence 2684 RRR | File # 1071.10 | Final Effluent 24 Hour Composite | | | | | | | Final Effluent Grab Sample | | | | | |
|---------------------|-------------------|-------------------------------------|--------------------------|-----------|--------------|-------------|----------------|---------------------|-------------------------------|-------------------|------------|------------|-------------------|--------|
| | | Date | Raw Sewage Daily Flow | TSS | BOD5 | cBOD5 | Ammonia | Ortho Phosphorus | Total Phosphorus | Total Nitrogen | Temp. | pH | Fecal Coliform | E.Coli |
| | | | ML** | (mg/L) | (mg/L) | (mg/L) | (kg NH3-N/day) | (mg/L-P) | (mg/L-P)* | (mg/L-N)* | (°C) | (units) | MPN/100 mL | |
| 1-May-18 | 150.1 | 14 | 24 | 8 | 4,849 | 2.96 | 3.4 | 36.7 | 13.9 | 6.73 | 50 | 30 | | |
| 2-May-18 | 150.5 | 15 | 21 | 9 | 4,755 | 3.18 | 3.4 | 36.6 | 14.2 | 6.76 | 150 | 160 | | |
| 3-May-18 | 152.2 | 12 | 24 | 9 | 4,536 | 2.97 | 3.5 | 36.3 | 14.5 | 6.82 | 910 | 870 | | |
| 4-May-18 | 147.8 | 11 | 28 | 8 | 4,670 | 2.80 | 3.5 | 36.0 | 14.5 | 6.72 | 60 | 90 | | |
| 5-May-18 | 141.8 | 15 | 31 | 10 | 4,523 | 3.61 | 3.6 | 35.7 | 14.8 | 6.86 | 190 | 160 | | |
| 6-May-18 | 135.2 | 15 | 27 | 9 | 4,190 | 3.58 | 3.6 | 35.3 | 14.8 | 6.83 | 390 | 420 | | |
| 7-May-18 | 142.8 | 14 | 23 | 10 | 4,257 | 3.22 | 3.7 | 34.9 | 14.9 | 6.80 | 390 | 540 | | |
| 8-May-18 | 133.9 | 18 | 21 | 10 | 4,245 | 3.40 | 3.7 | 34.7 | 14.9 | 6.71 | 260 | 500 | | |
| 9-May-18 | 142.5 | 12 | 22 | 10 | 4,616 | 3.52 | 3.7 | 34.8 | 15.1 | 6.87 | 260 | 190 | | |
| 10-May-18 | 128.6 | 18 | 29 | 10 | 4,181 | 3.52 | 3.7 | 35.0 | 14.7 | 6.83 | 340 | 310 | | |
| 11-May-18 | 131.2 | 17 | 26 | 10 | 4,526 | 3.62 | 3.7 | 35.3 | 14.9 | 6.70 | 230 | 400 | | |
| 12-May-18 | 132.0 | 19 | 26 | 10 | 4,740 | 3.77 | 3.8 | 35.8 | 15.0 | 6.85 | 370 | 530 | | |
| 13-May-18 | 125.5 | 20 | 32 | 11 | 4,368 | 3.93 | 3.8 | 36.2 | 15.3 | 6.85 | 460 | 590 | | |
| 14-May-18 | 132.5 | 21 | 25 | 11 | 4,584 | 3.76 | 3.8 | 36.3 | 15.3 | 6.77 | 250 | 300 | | |
| 15-May-18 | 129.6 | 22 | 22 | 9 | 4,521 | 3.80 | 3.8 | 36.5 | 16.4 | 6.82 | 170 | 260 | | |
| 16-May-18 | 136.7 | 16 | 25 | 13 | 4,786 | 3.82 | 3.9 | 36.7 | 15.9 | 6.82 | 240 | 360 | | |
| 17-May-18 | 140.9 | 28 | 22 | 10 | 5,240 | 4.12 | 3.9 | 36.7 | 15.7 | 6.84 | 130 | 300 | | |
| 18-May-18 | 363.3 | 77 | 51 | 32 | 3,556 | 1.55 | 3.8 | 36.0 | 13.3 | 6.73 | (>24,200) | (>24,200) | | |
| 19-May-18 | 161.8 | 30 | 19 | 11 | 2,929 | 0.25 | 3.7 | 35.6 | 13.0 | 6.80 | 30 | 20 | | |
| 20-May-18 | 130.2 | 33 | 29 | 21 | 3,397 | 0.94 | 3.7 | 35.7 | 14.5 | 6.84 | 5 | 1,380 | | |
| 21-May-18 | 133.3 | 15 | 13 | 10 | 3,719 | 2.10 | 3.7 | 35.8 | 15.1 | 6.87 | 90 | 130 | | |
| 22-May-18 | 141.9 | 19 | 13 | 9 | 3,974 | 2.51 | 3.7 | 36.0 | 15.9 | 6.89 | 350 | 460 | | |
| 23-May-18 | 141.0 | 19 | 16 | 9 | 4,344 | 2.69 | 3.7 | 36.0 | 16.5 | 6.81 | 80 | 130 | | |
| 24-May-18 | 153.6 | 18 | 18 | 9 | 4,715 | 2.73 | 3.7 | 36.1 | 17.2 | 6.69 | 990 | 1,010 | | |
| 25-May-18 | 161.2 | 25 | 24 | 9 | nr | nr | 3.7 | 36.1 | 16.7 | 6.81 | 2,610 | 4,610 | | |
| 26-May-18 | 141.2 | 24 | 16 | 9 | 4,517 | 3.21 | 3.7 | 36.1 | 16.7 | 6.75 | 510 | 500 | | |
| 27-May-18 | 132.7 | 19 | nr | nr | 4,274 | 3.25 | 3.7 | 36.1 | 16.8 | 6.77 | 50 | 50 | | |
| 28-May-18 | 136.2 | 22 | 16 | 9 | 4,385 | 3.29 | 3.7 | 36.1 | 16.5 | 6.76 | 170 | 320 | | |
| 29-May-18 | 166.7 | 28 | 18 | 11 | 5,236 | 3.32 | 3.8 | 36.2 | 16.6 | 6.80 | 70 | 170 | | |
| 30-May-18 | 333.4 | 79 | 35 | 23 | 5,734 | 1.41 | 3.7 | 35.8 | 17.9 | 6.82 | 170 | 13 | | |
| 31-May-18 | 274.6 | 23 | 16 | 9 | 4,613 | 1.11 | 3.7 | 35.3 | 16.9 | 6.92 | 60 | 40 | | |
| Max: | 363.3 | | | | | | | | | | | | | |
| Min: | 125.5 | | | | | | | | | | | | | |
| Average: | 158.9 | 23 | 24 | 11 | 4,433 | 2.93 | | | 15.4 | 6.80 | | | | |
| Total Flow: | 4924.8 | | | | | | | | | | | | | |
| Geo.Mean: | | | | | | | | | | | 180 | 241 | | |

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations
- (2) nr - not recorded or no result; na - not analyzed; ns - no sample
- (3) Where value is expressed as less than (<), the value is halved and used in the calculations
- (4) * = 30 day rolling average
- (5)** Flow, highlighted in bold, in excess of 380 ML/D per clause 26 of Licence 2684RRR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant