

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**June 2015**

| Licence #<br>2669 E RR | File #<br>53.10 | Final Effluent<br>24 Hour Composite |          |           |                     |                     |                   | Final Effluent<br>Grab Sample |             |                   |           |
|------------------------|-----------------|-------------------------------------|----------|-----------|---------------------|---------------------|-------------------|-------------------------------|-------------|-------------------|-----------|
|                        |                 | TSS                                 | cBOD5    | Ammonia   | Ortho<br>Phosphorus | Total<br>Phosphorus | Total<br>Nitrogen | Temp.                         | pH          | Fecal<br>Coliform | E.Coli    |
|                        |                 |                                     |          |           |                     |                     |                   |                               |             |                   |           |
| 1-Jun-15               | 29.4            | 26                                  | 7        | 7.4       | 0.41                | 0.6                 | 2                 | 15                            | 8.89        | 430               | 430       |
| 2-Jun-15               | 28.1            | 14                                  | 6        | 6.5       | 0.41                | 0.6                 | 2                 | 16                            | 8.84        | 43                | 43        |
| 3-Jun-15               | 27.6            | 14                                  | 5        | 7.2       | 0.43                | 0.6                 | 2                 | 15                            | 8.83        | 93                | 93        |
| 4-Jun-15               | 27.0            | 11                                  | 6        | 7.6       | 0.43                | 0.6                 | 2                 | 15                            | 7.82        | 9                 | 9         |
| 5-Jun-15               | 27.0            | 10                                  | 5        | 7.8       | 0.45                | 0.6                 | 2                 | 18                            | 8.80        | 73                | 73        |
| 6-Jun-15               | 31.2            | 11                                  | 6        | 11.9      | 0.47                | 0.6                 | 2                 | 18                            | 8.75        | 15                | 15        |
| 7-Jun-15               | 37.3            | 7                                   | 5        | 17.2      | 0.52                | 0.6                 | 2                 | 18                            | 8.59        | 230               | 230       |
| 8-Jun-15               | 33.0            | 7                                   | 4        | 17.5      | 0.57                | 0.6                 | 2                 | 20                            | 8.55        | 21                | 21        |
| 9-Jun-15               | 30.4            | 8                                   | 4        | 20.1      | 0.73                | 0.6                 | 2                 | 20                            | 8.44        | 93                | 93        |
| 10-Jun-15              | 29.0            | 9                                   | 4        | 20.9      | 0.66                | 0.6                 | 2                 | 20                            | 8.34        | 9                 | 9         |
| 11-Jun-15              | 28.3            | 8                                   | 4        | 27.5      | 0.72                | 0.6                 | 2                 | 21                            | 8.29        | 9                 | 9         |
| 12-Jun-15              | 27.6            | 12                                  | 5        | 21.8      | 0.77                | 0.7                 | 2                 | 22                            | 8.28        | 15                | 15        |
| 13-Jun-15              | 28.3            | 10                                  | 5        | 24.3      | 0.82                | 0.7                 | 2                 | 21                            | 8.20        | 15                | 15        |
| 14-Jun-15              | 28.1            | 12                                  | 5        | 27.0      | 0.97                | 0.7                 | 2                 | 21                            | 8.14        | 93                | 93        |
| 15-Jun-15              | 27.4            | 14                                  | 6        | 25.5      | 0.85                | 0.7                 | 2                 | 21                            | 7.69        | 42                | 42        |
| 16-Jun-15              | 26.4            | 11                                  | 5        | 26.4      | 0.88                | 0.7                 | 2                 | 20                            | 8.33        | 38                | 38        |
| 17-Jun-15              | 26.6            | 14                                  | 5        | 25.8      | 0.87                | 0.7                 | 2                 | 19                            | 8.43        | 7                 | 7         |
| 18-Jun-15              | 26.0            | 12                                  | 4        | 21.1      | 0.87                | 0.7                 | 2                 | 19                            | 8.56        | 43                | 43        |
| 19-Jun-15              | 27.3            | 16                                  | 4        | 30.3      | 0.88                | 0.8                 | 2                 | 20                            | 8.71        | 4                 | 4         |
| 20-Jun-15              | 26.2            | 11                                  | 4        | 18.6      | 0.86                | 0.8                 | 2                 | 19                            | 8.54        | 9                 | 9         |
| 21-Jun-15              | 26.5            | 12                                  | 6        | 14.3      | 0.83                | 0.8                 | 2                 | 20                            | 8.73        | 15                | 15        |
| 22-Jun-15              | 31.5            | 8                                   | 4        | 14.2      | 0.90                | 0.8                 | 2                 | 21                            | 8.81        | 9                 | 9         |
| 23-Jun-15              | 27.2            | 10                                  | 4        | 15.5      | 0.94                | 0.8                 | 2                 | 20                            | 8.75        | 23                | 23        |
| 24-Jun-15              | 32.6            | 9                                   | 4        | 19.2      | 0.88                | 0.9                 | 2                 | 21                            | 8.71        | 9                 | 9         |
| 25-Jun-15              | 28.0            | 10                                  | 4        | 21.0      | 0.90                | 0.9                 | 2                 | 22                            | 8.63        | 75                | 75        |
| 26-Jun-15              | 26.5            | 8                                   | 4        | 33.1      | 0.87                | 0.9                 | 2                 | 24                            | 8.58        | 43                | 43        |
| 27-Jun-15              | 29.1            | 9                                   | 4        | 26.2      | 0.55                | 0.9                 | 2                 | 24                            | 8.48        | 73                | 73        |
| 28-Jun-15              | 38.0            | 6                                   | 4        | 37.6      | 0.91                | 0.9                 | 2                 | 23                            | 8.26        | 43                | 43        |
| 29-Jun-15              | 29.1            | 8                                   | <3       | 35.2      | 1.18                | 0.9                 | 3                 | 24                            | 8.24        | 93                | 93        |
| 30-Jun-15              | 26.7            | 6                                   | <3       | 32.8      | 1.24                | 1.0                 | 3                 | 24                            | 8.20        | 93                | 43        |
| <b>Max:</b>            | 38.0            |                                     |          |           |                     |                     |                   |                               |             |                   |           |
| <b>Min:</b>            | 26.0            |                                     |          |           |                     |                     |                   |                               |             |                   |           |
| <b>Average:</b>        | <b>28.9</b>     | <b>11</b>                           | <b>5</b> | <b>21</b> | <b>0.76</b>         |                     |                   | <b>20</b>                     | <b>8.48</b> |                   |           |
| <b>Total Flow:</b>     | <b>867.4</b>    |                                     |          |           |                     |                     |                   |                               |             |                   |           |
| <b>Geo.Mean:</b>       |                 |                                     |          |           |                     |                     |                   |                               |             | <b>31</b>         | <b>30</b> |

**Notes:**

(1) Effluent ammonia load based upon Raw Sewage flows and Final Cell 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) Total Nitrogen results are calculated from TKN and nitrate values