

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
August 2018**

Licence # 2716RR	File # 1069.10	Final Effluent 24 Hour Composite										Final Effluent Grab Sample		
		TSS		BOD5		cBOD5		Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	E.Coli
		(mg/L)	(mg/L)*	(mg/L)	(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-Aug-18	47.6	11	9	18	17	8	6	1,617	3.18	4.2	43.1	18.0	6.57	10
2-Aug-18	46.8	9	9	13	16	6	6	1,371	2.45	4.2	43.4	17.8	6.54	30
3-Aug-18	47.2	6	9	11	16	5	6	1,787	3.76	4.2	43.8	17.9	6.57	<10
4-Aug-18	56.6	8	9	13	16	5	6	1,929	3.31	4.2	44.0	17.9	6.60	110
5-Aug-18	50.9	5	9	nr	16	nr	6	1,517	2.72	4.2	43.8	18.3	6.69	10
6-Aug-18	47.1	4	9	11	16	4	6	1,581	3.16	4.2	43.9	17.7	6.73	<10
7-Aug-18	49.3	6	9	14	15	4	6	1,678	3.45	4.2	43.9	18.0	6.57	20
8-Aug-18	49.6	6	9	14	15	4	6	1,810	3.22	4.2	44.3	18.4	6.60	10
9-Aug-18	49.8	7	9	19	15	5	6	1,768	3.44	4.2	44.8	18.6	6.59	10
10-Aug-18	50.3	8	9	14	15	5	6	1,789	3.50	4.2	45.5	19.0	6.78	20
11-Aug-18	48.5	7	9	15	15	4	6	1,718	3.57	4.2	46.1	18.6	6.69	<10
12-Aug-18	50.0	7	9	17	15	nr	6	1,781	3.66	4.1	46.4	18.6	6.64	10
13-Aug-18	50.3	7	8	17	15	5	6	1,655	3.19	4.1	46.7	18.7	6.65	10
14-Aug-18	47.7	7	8	13	15	4	6	1,730	3.45	4.1	47.1	18.3	6.62	<10
15-Aug-18	49.2	7	8	21	15	5	6	1,791	4.01	4.1	47.5	18.3	6.65	190
16-Aug-18	48.1	8	8	18	15	4	5	1,711	3.88	4.1	47.8	18.5	6.65	<10
17-Aug-18	48.4	8	8	18	15	4	5	1,720	3.69	4.1	47.9	18.4	6.61	<10
18-Aug-18	46.9	7	8	18	15	nr	5	1,811	4.03	4.1	48.2	18.6	6.64	<10
19-Aug-18	48.0	8	8	20	15	5	5	1,732	3.68	4.1	48.5	18.4	6.61	10
20-Aug-18	48.6	10	8	nr	15	nr	5	1,673	3.44	4.2	48.5	18.4	6.59	30
21-Aug-18	48.5	8	8	21	15	5	5	1,698	3.61	4.1	48.5	18.5	6.61	<10
22-Aug-18	48.5	9	8	20	15	4	5	1,764	3.43	4.2	48.7	17.9	6.68	10
23-Aug-18	48.9	9	8	30	16	4	5	1,813	3.78	4.2	48.9	17.4	6.58	30
24-Aug-18	48.9	8	8	17	16	5	5	1,810	3.68	4.1	48.9	19.0	6.58	10
25-Aug-18	46.6	11	8	21	16	6	5	1,751	3.67	4.1	49.0	18.7	6.64	<10
26-Aug-18	47.5	12	8	nr	16	nr	5	1,805	4.09	4.1	48.8	18.5	6.83	<10
27-Aug-18	58.9	16	8	18	16	6	5	1,766	2.92	4.1	48.4	17.8	6.65	880
28-Aug-18	47.6	7	8	17	16	5	5	1,704	2.65	4.1	48.2	18.0	6.61	30
29-Aug-18	54.6	7	8	30	17	5	5	1,797	3.31	4.1	47.9	18.1	6.54	10
30-Aug-18	49.6	10	8	25	17	6	5	1,706	3.64	4.1	47.7	18.5	6.56	<10
31-Aug-18	49.4	11	8	28	17	6	5	1,733	3.60	4.1	47.6	18.7	6.59	<10
<b>Max:</b>	58.9													
<b>Min:</b>	46.6													
<b>Average:</b>	<b>49.3</b>	<b>8</b>		<b>18</b>		<b>5</b>		<b>1,726</b>	<b>3.46</b>			<b>18.3</b>	<b>6.63</b>	
<b>Total Flow:</b>	<b>1529.8</b>													
<b>Geo.Mean:</b>														<b>13</b>

**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 98.6 ML/D per clause 27 of Licence 2716RR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process