

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

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
Date	Raw Sewage Daily Flow ML**													
1-Jun-15	59.3	9	10	15	13	6	5	1,773	3.02	3.2	31	14	6.69	20
2-Jun-15	56.4	6	10	7	13	7	5	1,709	2.80	3.2	31	15	6.72	15
3-Jun-15	53.8	3	10	7	12	5	5	1,770	3.23	3.2	31	15	6.70	230
4-Jun-15	53.7	6	10	10	12	8	5	1,783	3.44	3.2	31	15	6.68	21
5-Jun-15	53.7	6	10	9	12	6	5	1,847	3.84	3.1	31	15	6.65	43
6-Jun-15	72.7	20	10	19	12	16	5	1,927	2.77	3.2	31	15	6.76	9
7-Jun-15	78.1	6	10	9	11	7	5	1,812	2.24	3.1	30	14	6.80	9
8-Jun-15	68.9	6	10	8	11	5	5	1,667	1.99	3.1	30	15	6.79	9
9-Jun-15	62.0	4	10	12	11	5	5	1,724	3.28	3.0	30	15	6.73	3
10-Jun-15	59.1	8	10	16	11	4	5	1,684	2.83	3.0	30	15	6.79	7
11-Jun-15	57.5	9	10	14	11	4	5	1,788	3.16	3.0	29	16	6.71	43
12-Jun-15	56.7	6	10	6	10	5	5	1,747	3.14	2.9	29	16	6.70	15
13-Jun-15	55.7	5	9	16	11	4	5	1,650	3.08	2.9	29	16	6.73	46,000
14-Jun-15	56.9	11	9	28	11	9	5	1,753	3.17	3.0	30	16	6.73	23
15-Jun-15	56.7	8	9	>19	11	6	5	1,598	2.84	3.0	30	16	6.65	23
16-Jun-15	54.4	7	8	19	11	5	5	1,752	3.10	3.0	30	16	6.75	43
17-Jun-15	54.0	7	7	32	12	5	5	1,706	3.24	3.1	31	16	6.76	4
18-Jun-15	53.9	6	7	20	13	5	5	1,692	3.04	3.1	31	16	6.78	23
19-Jun-15	59.3	5	7	13	13	4	5	1,868	3.03	3.2	32	16	6.74	15
20-Jun-15	54.9	4	7	13	14	4	5	1,625	2.81	3.2	32	16	6.67	<3
21-Jun-15	52.9	7	7	>20	14	7	6	1,587	2.94	3.2	32	16	6.64	<3
22-Jun-15	69.6	5	7	14	14	6	6	1,936	2.79	3.2	33	16	6.68	(15)
23-Jun-15	56.4	5	7	17	14	5	6	1,521	2.72	3.3	33	16	6.70	43
24-Jun-15	64.1	4	7	18	14	5	6	1,782	2.78	3.3	33	16	6.66	9
25-Jun-15	56.5	4	7	19	14	<3	5	1,514	2.68	3.3	33	17	6.76	23
26-Jun-15	54.6	4	7	11	14	4	5	1,604	2.95	3.3	33	17	6.72	4
27-Jun-15	57.8	7	7	15	14	15	6	1,571	2.85	3.3	33	17	6.64	<3
28-Jun-15	64.7	6	7	21	14	6	6	1,553	2.36	3.3	33	17	6.67	4
29-Jun-15	55.4	6	7	12	14	3	6	1,518	2.68	3.3	33	17	6.65	4
30-Jun-15	54.0	3	6	10	14	3	6	1,641	3.07	3.2	33	17	6.74	4
<b>Max:</b>	78.1													
<b>Min:</b>	52.9													
<b>Average:</b>	<b>58.8</b>	<b>6</b>		<b>15</b>		<b>6</b>		<b>1,703</b>	<b>2.93</b>			<b>16</b>	<b>6.71</b>	
<b>Total Flow:</b>	<b>1763.6</b>													
<b>Geo.Mean:</b>														<b>15</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
- (8) Total Nitrogen results are calculated from TKN and nitrate values