

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
September 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-Sep-15	56.8	5	7	>19	14	5	5	1,494	2.97	3.2	29	19	6.68	<3
2-Sep-15	56.8	8	7	17	14	7	5	1,590	3.95	3.2	29	19	6.66	9
3-Sep-15	55.9	4	7	17	14	6	5	1,515	2.94	3.2	29	19	6.70	43
4-Sep-15	<b>112.7</b>	29	8	31	15	22	6	1,735	2.03	3.2	29	20	6.66	(93)
5-Sep-15	<b>125.2</b>	16	8	17	15	11	6	1,327	1.24	3.1	28	18	7.23	(430)
6-Sep-15	<b>132.3</b>	9	8	13	15	8	6	1,349	1.40	3.1	28	18	7.27	(430)
7-Sep-15	88.6	8	8	17	15	7	6	1,381	1.80	3.1	28	18	7.18	93
8-Sep-15	79.5	3	8	12	15	4	6	1,462	2.03	3.1	28	18	6.99	43
9-Sep-15	69.6	8	8	14	15	4	6	1,427	2.43	3.0	28	18	6.85	15
10-Sep-15	65.5	4	8	19	16	5	6	1,447	2.92	3.0	27	18	6.90	7
11-Sep-15	62.4	5	8	17	16	5	6	1,516	2.96	3.0	27	18	6.80	15
12-Sep-15	60.0	8	8	18	16	6	6	1,523	3.38	3.0	28	19	6.73	23
13-Sep-15	60.0	5	8	20	16	8	6	1,585	3.63	3.0	28	19	6.73	93
14-Sep-15	58.5	5	8	>19	17	8	6	1,444	3.06	3.0	28	19	6.71	9,300
15-Sep-15	56.1	6	8	19	17	7	6	1,564	3.48	3.1	28	19	6.69	150
16-Sep-15	54.9	6	8	>19	17	7	7	1,526	3.29	3.1	28	19	6.67	7
17-Sep-15	59.7	10	8	14	17	8	7	1,569	3.32	3.0	28	19	6.70	93
18-Sep-15	55.0	10	9	nr	17	9	7	1,572	3.46	3.0	28	19	6.68	20
19-Sep-15	53.5	12	9	>20	18	9	7	1,438	3.38	3.0	28	19	6.78	93
20-Sep-15	53.6	11	9	>20	18	11	7	1,527	3.54	3.0	28	19	6.73	23
21-Sep-15	53.9	10	8	20	18	10	7	1,503	3.44	3.0	28	19	6.64	930
22-Sep-15	51.8	10	8	>20	18	11	7	1,529	3.14	3.1	29	19	6.64	9
23-Sep-15	51.3	8	8	>20	18	9	7	1,544	3.45	3.2	29	19	6.60	230
24-Sep-15	51.5	8	8	>20	18	7	7	1,649	3.86	3.3	30	19	6.63	240
25-Sep-15	51.1	7	8	>23	19	10	8	1,544	4.17	3.3	30	18	6.61	7
26-Sep-15	51.0	7	8	>19	19	8	8	1,607	3.91	3.4	31	18	6.58	4
27-Sep-15	54.3	14	8	20	19	10	8	1,546	3.84	3.4	31	19	6.61	43
28-Sep-15	50.8	11	9	31	19	9	8	1,478	3.45	3.4	31	19	6.55	93
29-Sep-15	50.3	12	9	26	20	9	8	1,543	3.74	3.6	32	19	6.58	930
30-Sep-15	51.9	11	9	30	20	7	8	1,688	3.51	3.7	32	19	6.58	43
<b>Max:</b>	132.3													
<b>Min:</b>	50.3													
<b>Average:</b>	<b>64.5</b>	<b>9</b>		<b>20</b>		<b>8</b>		<b>1,521</b>	<b>3.12</b>			<b>19</b>	<b>6.75</b>	
<b>Total Flow:</b>	<b>1934.2</b>													
<b>Geo.Mean:</b>														<b>46</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