

City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
April 2017

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-Apr-17	94.0	10	10	12	15	9	9	1,531	1.63	3.5	36.0	11.8	7.13	(15)
2-Apr-17	90.0	14	10	15	15	11	9	1,673	1.74	3.4	35.4	11.8	7.08	43
3-Apr-17	85.0	7	10	11	15	7	9	1,623	1.99	3.4	34.9	12.3	6.99	43
4-Apr-17	77.9	7	10	10	15	6	9	1,744	1.91	3.3	34.6	12.6	7.21	43
5-Apr-17	73.1	5	10	12	15	5	9	2,010	2.03	3.3	34.8	12.7	7.03	9
6-Apr-17	69.4	7	10	14	15	5	9	2,256	2.47	3.3	35.4	12.8	7.11	43
7-Apr-17	68.8	8	10	10	15	5	9	1,960	2.54	3.4	35.6	13.0	7.08	60
8-Apr-17	67.7	8	10	13	15	6	9	1,727	2.63	3.3	35.4	13.2	6.85	30
9-Apr-17	65.8	8	10	16	15	7	9	1,811	2.83	3.3	35.3	13.9	6.89	10
10-Apr-17	65.0	5	10	13	15	6	9	1,788	2.67	3.3	35.3	13.5	6.79	40
11-Apr-17	65.6	7	10	12	15	6	9	1,844	2.87	3.3	35.2	13.3	6.89	<10
12-Apr-17	64.4	8	10	17	15	5	9	1,920	3.02	3.2	35.2	13.6	6.99	<10
13-Apr-17	62.9	8	10	15	15	6	9	1,848	3.00	3.2	34.9	13.7	6.93	<10
14-Apr-17	66.9	9	10	14	15	6	9	1,953	2.98	3.2	34.4	13.9	6.84	10
15-Apr-17	65.8	27	11	24	15	17	9	1,638	2.69	3.2	34.0	14.0	6.88	20
16-Apr-17	<b>135.4</b>	27	11	32	16	19	9	2,017	1.51	3.1	33.8	12.5	7.12	(990)
17-Apr-17	94.5	12	12	13	16	9	9	1,880	1.89	3.1	33.3	12.8	7.02	20
18-Apr-17	84.5	10	11	12	16	6	9	1,707	1.87	3.1	32.9	12.9	7.07	20
19-Apr-17	79.0	8	11	15	15	6	9	1,810	1.92	3.0	33.0	13.1	7.14	14
20-Apr-17	74.2	ns	11	ns	16	ns	9	ns	ns	3.0	33.0	13.4	7.05	23
21-Apr-17	70.9	8	11	15	16	6	9	1,887	2.58	3.0	32.9	13.6	7.00	30
22-Apr-17	81.0	14	12	19	16	11	9	1,896	2.60	3.0	32.7	13.6	6.93	8
23-Apr-17	80.6	9	12	17	16	7	9	1,870	2.11	2.9	32.9	12.9	6.95	22
24-Apr-17	80.8	12	12	17	16	9	9	1,811	1.94	2.9	33.1	13.3	6.83	19
25-Apr-17	79.7	7	11	nr	16	nr	9	1,761	1.76	2.8	33.5	12.7	6.94	17
26-Apr-17	74.8	5	11	20	16	6	9	2,056	2.15	2.8	34.0	13.2	6.96	5
27-Apr-17	72.6	4	11	19	16	5	9	1,887	2.50	2.8	34.2	13.1	7.14	107
28-Apr-17	68.4	6	10	17	16	6	8	1,983	2.56	2.8	35.0	13.5	6.94	5
29-Apr-17	66.9	5	9	16	15	5	8	1,812	2.78	2.9	35.7	13.1	6.99	10
30-Apr-17	66.1	6	9	16	16	6	7	1,521	2.30	2.9	36.2	13.8	6.88	53
<b>Max:</b>	135.4													
<b>Min:</b>	62.9													
<b>Average:</b>	<b>76.4</b>	<b>9</b>		<b>16</b>		<b>7</b>		<b>1,835</b>	<b>2.33</b>			<b>13</b>	<b>6.99</b>	
<b>Total Flow:</b>	<b>2291.5</b>													
<b>Geo.Mean:</b>														<b>18</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