

City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
May 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-May-18	53.6	15	9	15	14	10	8	1,810	4.64	4.5	40.8	14.1	6.50	30
2-May-18	54.6	11	9	17	14	11	8	1,747	3.70	4.5	40.6	14.1	6.58	130
3-May-18	52.7	8	9	18	14	11	8	1,751	3.93	4.5	40.5	14.7	6.57	<10
4-May-18	51.7	9	9	16	14	11	8	1,880	4.08	4.5	40.3	14.4	6.57	50
5-May-18	51.4	13	9	21	15	18	9	1,845	4.26	4.5	40.2	14.5	6.63	150
6-May-18	50.3	15	9	22	15	18	9	1,911	4.36	4.5	40.1	14.6	6.55	40
7-May-18	49.6	12	10	19	15	14	9	1,774	3.73	4.4	39.8	14.9	6.46	880
8-May-18	47.7	14	10	23	16	17	10	1,654	3.81	4.4	39.8	15.1	6.49	50
9-May-18	49.0	12	10	24	16	14	10	1,868	4.54	4.4	39.9	15.5	6.47	230
10-May-18	48.1	10	10	22	16	13	10	1,924	4.51	4.4	40.0	14.9	6.56	150
11-May-18	47.2	12	10	16	16	11	10	1,912	4.55	4.4	40.3	14.9	6.49	130
12-May-18	48.2	11	10	16	16	11	10	1,996	4.63	4.4	40.6	14.8	6.51	50
13-May-18	48.3	12	10	20	17	10	10	1,928	4.50	4.4	40.9	15.5	6.57	30
14-May-18	51.4	15	10	18	17	12	11	1,988	4.45	4.5	41.1	15.3	6.50	70
15-May-18	48.2	18	11	22	17	11	11	1,830	4.61	4.5	41.2	15.4	6.52	180
16-May-18	48.0	16	11	26	17	20	11	1,789	4.13	4.5	41.4	15.4	6.57	160
17-May-18	48.4	17	11	22	18	15	11	1,791	3.96	4.5	41.5	15.2	6.62	1,150
18-May-18	77.6	29	12	>38	17	33	12	2,281	3.52	4.5	41.3	15.0	6.65	12,000
19-May-18	59.8	23	12	27	18	19	13	1,440	2.79	4.5	41.1	13.7	6.67	7,700
20-May-18	50.6	25	13	24	18	22	13	1,412	2.93	4.5	41.0	14.7	6.65	1,180
21-May-18	51.5	21	13	20	18	19	14	1,549	3.22	4.5	41.0	14.7	6.65	1,420
22-May-18	51.6	25	14	30	19	27	14	1,512	3.35	4.5	41.2	15.2	6.66	1,590
23-May-18	51.4	22	14	26	19	20	14	1,574	3.61	4.5	41.4	15.8	6.50	15,500
24-May-18	50.9	15	15	19	19	15	14	1,776	3.76	4.6	41.5	15.9	6.54	100
25-May-18	56.1	25	15	19	19	14	15	1,929	4.08	4.6	41.5	16.3	6.57	1,960
26-May-18	51.2	26	16	17	19	15	15	1,824	4.13	4.6	41.5	16.1	6.62	90
27-May-18	51.5	11	16	nr	19	nr	15	1,466	2.47	4.6	41.4	16.3	6.60	<10
28-May-18	50.8	40	17	14	19	10	15	1,817	3.97	4.6	41.3	16.3	6.52	10
29-May-18	53.6	13	17	16	19	12	15	1,869	4.32	4.6	41.4	16.3	6.53	80
30-May-18	63.8	24	17	25	20	23	16	2,054	3.78	4.7	41.3	16.5	6.63	40
31-May-18	67.9	12	17	15	20	12	16	1,806	2.98	4.6	40.8	16.2	6.69	19
<b>Max:</b>	77.6													
<b>Min:</b>	47.2													
<b>Average:</b>	<b>52.8</b>	<b>17</b>		<b>21</b>		<b>16</b>		<b>1,797</b>	<b>3.91</b>			<b>15.2</b>	<b>6.57</b>	
<b>Total Flow:</b>	<b>1636.3</b>													
<b>Geo.Mean:</b>														<b>167</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