

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
June 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-Jun-17	55.7	10	8	18	17	7	5	1,878	4.45	4.0	41.5	15.8	6.77	14
2-Jun-17	56.0	6	8	15	17	6	6	1,793	4.34	4.1	41.3	16.0	6.75	9
3-Jun-17	56.1	11	8	nr	16	nr	6	1,857	4.35	4.1	40.7	17.8	6.74	11
4-Jun-17	55.4	10	8	14	16	7	6	1,834	4.36	4.1	40.5	16.6	6.87	16
5-Jun-17	55.5	10	8	18	16	8	6	1,809	3.66	4.2	40.9	16.8	6.69	27
6-Jun-17	54.0	12	9	28	16	9	6	1,772	3.82	4.2	41.2	16.7	6.68	13
7-Jun-17	53.6	6	9	nr	16	nr	6	1,869	3.73	4.3	41.1	16.9	6.67	32
8-Jun-17	53.6	10	9	20	16	7	6	1,727	3.53	4.4	41.0	17.1	6.68	43
9-Jun-17	54.8	9	9	18	15	5	6	1,807	4.20	4.4	41.0	17.5	6.67	26
10-Jun-17	61.1	8	9	14	15	5	6	1,765	3.53	4.4	40.6	17.6	6.68	32
11-Jun-17	54.1	7	9	18	15	5	6	1,687	3.71	4.4	40.4	16.9	6.68	7
12-Jun-17	52.8	9	9	14	15	5	6	1,716	3.59	4.4	40.3	17.0	6.68	21
13-Jun-17	51.6	20	9	28	15	14	6	1,697	3.82	4.4	40.1	16.9	6.70	10
14-Jun-17	105.8	13	9	21	15	9	6	2,074	2.07	4.4	39.3	16.2	6.86	(37)
15-Jun-17	70.6	5	9	12	15	4	6	1,688	2.11	4.3	38.7	16.5	6.94	30
16-Jun-17	60.8	3	9	11	15	<3	6	1,605	2.65	4.3	38.6	16.4	6.78	1,990
17-Jun-17	57.9	9	9	17	15	4	6	1,727	3.11	4.2	38.6	16.5	6.78	7
18-Jun-17	57.6	8	9	18	16	7	6	1,825	3.33	4.2	38.7	16.4	6.78	6
19-Jun-17	56.8	9	9	16	16	6	6	1,744	3.27	4.2	39.1	16.4	6.68	18
20-Jun-17	55.1	7	9	nr	16	nr	6	1,731	3.54	4.2	39.7	16.9	6.71	21
21-Jun-17	64.4	10	9	23	16	<3	6	1,914	2.94	4.2	39.9	17.1	6.71	29
22-Jun-17	60.7	16	9	31	17	9	6	1,578	2.37	4.3	40.2	16.7	6.71	52
23-Jun-17	61.0	6	9	12	17	6	6	1,702	2.82	4.3	40.5	16.7	6.69	199
24-Jun-17	58.2	10	9	14	18	6	6	1,590	3.03	4.3	40.7	16.6	6.76	7
25-Jun-17	57.9	8	9	13	18	4	6	1,754	3.18	4.3	40.8	16.3	6.69	43
26-Jun-17	56.7	8	9	13	17	nr	6	1,774	3.09	4.2	40.9	16.7	6.65	65
27-Jun-17	55.1	11	9	16	18	4	6	1,818	3.37	4.3	41.3	17.0	6.68	79
28-Jun-17	56.6	6	9	14	17	5	6	nr	nr	4.3	41.4	17.0	6.64	23
29-Jun-17	56.6	6	9	16	17	4	6	1,778	3.25	4.2	41.4	17.3	6.63	31
30-Jun-17	54.8	4	9	14	17	8	6	1,715	3.27	4.2	41.1	17.3	6.66	23
Max:	105.8													
Min:	51.6													
Average:	58.7	9		17		6		1,766	3.40			17	6.72	
Total Flow:	1761.0													
Geo.Mean:														26

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