

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

June 2020

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-20	55.4	5	12	6	15	4	8	2,065	3.34	4.0	44.9	15.2	6.64	10
2-Jun-20	54.1	6	12	nr	15	nr	8	1,931	3.82	4.1	45.1	15.3	6.68	<10
3-Jun-20	54.3	7	12	8	15	5	8	2,217	3.91	4.1	45.7	15.5	6.77	<10
4-Jun-20	53.5	9	12	8	15	5	8	2,044	4.04	4.1	46.5	15.5	6.90	10
5-Jun-20	52.6	9	12	7	14	4	8	2,046	3.99	4.2	47.0	15.5	6.69	<10
6-Jun-20	53.3	11	11	11	14	6	7	1,942	4.10	4.2	47.1	15.4	6.70	<10
7-Jun-20	84.4	10	11	15	14	7	7	2,085	2.56	4.2	46.5	14.6	6.79	910
8-Jun-20	85.7	9	11	13	14	8	7	1,971	1.92	4.1	45.9	14.9	7.05	10
9-Jun-20	69.8	5	11	11	14	7	7	1,758	1.78	4.0	45.5	15.5	6.84	10
10-Jun-20	69.8	6	9	11	13	6	6	1,911	2.26	3.9	45.0	15.7	6.93	50
11-Jun-20	66.0	24	9	19	13	16	7	1998	3.24	3.9	44.4	15.6	6.77	20
12-Jun-20	60.3	12	9	14	13	6	7	1850	2.93	3.9	44.1	15.5	6.74	<10
13-Jun-20	56.2	17	10	8	13	5	7	1,843	3.45	3.9	43.9	15.5	6.78	30
14-Jun-20	56.5	9	10	12	13	5	6	1,869	3.64	4.0	43.4	15.5	6.94	<10
15-Jun-20	58.0	10	10	11	13	5	6	1,897	3.59	4.0	42.8	16.0	6.75	<10
16-Jun-20	56.3	10	10	13	13	5	6	1,902	3.53	4.0	42.2	16.1	6.74	10
17-Jun-20	59.6	31	11	25	13	18	7	2,019	4.69	4.1	41.6	16.5	6.63	<10
18-Jun-20	64.4	33	11	33	14	22	7	1,854	3.31	4.1	41.0	16.6	6.78	13,000
19-Jun-20	54.9	10	12	15	14	7	7	1,843	2.63	4.0	40.9	ns	ns	ns
20-Jun-20	62.1	14	12	16	14	7	7	1,888	2.83	4.0	40.7	16.1	6.69	<10
21-Jun-20	68.3	5	12	16	14	4	7	1,803	2.42	4.0	40.3	16.1	6.70	<10
22-Jun-20	58.3	7	11	nr	14	nr	7	1,773	3.04	4.0	40.2	16.0	6.78	<10
23-Jun-20	61.6	8	10	34	14	5	7	1,848	3.06	4.0	40.2	16.2	6.78	20
24-Jun-20	58.5	6	10	10	14	4	7	1,667	2.99	4.0	40.3	16.3	6.71	<10
25-Jun-20	57.3	7	10	>37	15	4	7	1,691	3.44	4.0	40.0	16.5	6.70	200
26-Jun-20	65.5	6	10	nr	15	nr	7	1,958	3.00	4.0	39.7	16.7	6.74	<10
27-Jun-20	55.1	6	10	>36	16	4	7	1,503	3.25	4.0	39.5	17.0	6.80	<10
28-Jun-20	55.3	6	10	>35	17	<4	7	1,653	3.82	4.0	39.3	16.9	6.78	<10
29-Jun-20	56.0	5	10	>37	17	4	7	1,706	3.51	3.9	39.0	17.0	6.68	<10
30-Jun-20	56.1	21	11	>35	18	15	7	1,609	3.49	3.9	39.2	17.3	6.61	<10
Max:	85.7													
Min:	52.6													
Average:	60.6	11		18		7		1,871	3.25			15.9	6.76	
Total Flow:	1,818.7													
Geo.Mean:														13

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