

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
March 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-Mar-18	43.7	18	13	19	20	12	11	1,870	4.71	5.0	51.9	14.6	6.62	120
2-Mar-18	43.6	9	13	12	20	9	11	1,763	4.31	5.0	51.7	14.6	6.60	50
3-Mar-18	46.0	5	13	13	19	7	11	1,862	4.47	5.0	51.8	14.3	6.69	10
4-Mar-18	47.2	6	13	15	19	10	11	1,792	4.28	4.9	51.4	14.3	6.66	20
5-Mar-18	44.7	5	13	14	19	8	11	1,690	4.13	4.9	50.8	14.5	6.64	20
6-Mar-18	45.2	6	12	13	19	7	11	1,820	4.26	4.9	50.6	14.4	6.73	<10
7-Mar-18	45.0	8	12	16	18	8	11	1,844	4.53	4.9	50.7	14.3	6.60	20
8-Mar-18	44.4	6	12	13	18	7	11	1,755	4.36	4.9	50.6	14.2	6.72	10
9-Mar-18	44.6	6	12	13	18	6	11	1,850	4.63	4.8	50.2	14.2	6.68	10
10-Mar-18	45.2	8	12	12	18	6	10	1,790	4.47	4.8	49.7	14.0	6.60	40
11-Mar-18	45.1	7	11	17	17	7	10	1,747	4.33	4.8	49.4	14.1	6.49	<10
12-Mar-18	46.1	5	11	13	17	7	10	1,746	4.02	4.8	48.7	14.1	6.56	20
13-Mar-18	44.8	5	11	12	17	7	10	1,702	4.13	4.8	48.4	14.1	6.56	<10
14-Mar-18	45.9	5	11	15	17	5	10	1,732	3.76	4.8	47.9	14.3	6.69	<10
15-Mar-18	45.5	10	11	18	17	5	10	1,767	4.21	4.8	47.5	14.0	6.58	30
16-Mar-18	46.7	6	10	17	17	4	9	1,780	3.93	4.8	47.4	14.0	6.58	<10
17-Mar-18	48.5	4	10	15	16	6	9	1,853	4.54	4.7	47.3	13.9	6.62	<10
18-Mar-18	50.0	6	9	15	16	6	9	1,751	4.25	4.7	47.2	13.5	6.75	10
19-Mar-18	49.3	4	9	12	16	6	9	1,760	3.80	4.7	46.8	13.9	6.55	10
20-Mar-18	46.3	4	9	13	15	4	8	1,652	3.94	4.7	46.3	13.8	6.55	<10
21-Mar-18	46.5	8	9	20	15	7	8	1,665	4.31	4.7	46.1	14.3	6.56	20
22-Mar-18	48.6	3	8	10	15	4	8	1,686	3.86	4.7	45.6	14.3	6.58	20
23-Mar-18	58.7	7	8	nr	15	nr	7	1,909	3.65	4.6	45.1	13.4	6.63	40
24-Mar-18	48.6	6	7	nr	15	nr	7	1,612	3.53	4.6	44.7	12.9	6.69	<10
25-Mar-18	46.2	6	7	nr	15	nr	7	1,722	3.88	4.6	44.2	13.6	6.70	<10
26-Mar-18	46.7	4	7	13	15	5	7	1,668	4.18	4.6	44.0	14.1	6.58	10
27-Mar-18	58.4	5	7	12	14	5	7	2,045	3.86	4.6	43.5	14.0	6.60	10
28-Mar-18	65.0	7	7	14	14	5	7	1,734	2.93	4.5	42.8	12.3	6.72	20
29-Mar-18	48.5	4	6	12	14	3	7	1,489	3.32	4.5	42.1	12.6	6.66	50
30-Mar-18	46.8	5	6	11	14	3	6	1,663	3.94	4.4	41.6	12.9	6.62	20
31-Mar-18	44.6	6	6	14	14	5	6	1,655	3.99	4.4	41.2	13.3	6.61	10
Max:	65.0													
Min:	43.6													
Average:	47.6	6		14		6		1,754	4.08			13.9	6.63	
Total Flow:	1476.4													
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