

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
September 2016

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-Sep-16	51.5	7	8	18	20	5	5	1,710	3.62	3.7	39.7	19.7	6.68	43
2-Sep-16	49.4	6	8	8	20	5	5	1,684	4.01	3.7	39.9	19.6	6.61	93
3-Sep-16	46.1	6	8	30	21	6	5	1,582	4.34	3.8	40.1	19.6	6.72	9
4-Sep-16	67.1	14	8	26	21	9	5	1,778	3.31	3.8	40.2	19.7	6.72	9
5-Sep-16	54.2	6	8	14	21	4	5	1,566	3.08	3.8	40.1	19.2	6.74	43
6-Sep-16	52.7	6	8	20	21	5	5	1,656	3.01	3.8	40.1	19.4	6.75	23
7-Sep-16	52.1	6	8	22	21	5	5	1,877	3.78	3.8	40.2	19.5	6.76	43
8-Sep-16	55.3	6	7	24	21	6	5	1,830	3.89	3.8	40.3	19.4	6.70	23
9-Sep-16	51.6	7	7	20	21	5	5	1,828	3.89	3.8	40.2	19.4	6.77	15
10-Sep-16	51.7	9	7	21	21	5	5	1,889	3.96	3.8	40.1	19.5	6.80	7
11-Sep-16	52.3	8	7	26	22	5	5	1,930	4.12	3.9	40.1	19.4	6.69	9
12-Sep-16	51.6	7	8	22	22	5	5	1,588	3.40	3.9	40.0	19.5	6.66	15
13-Sep-16	50.5	10	8	23	22	5	5	1,870	3.48	3.9	40.3	19.2	6.71	43
14-Sep-16	49.5	15	8	29	22	8	5	1,674	4.43	3.9	40.6	19.1	6.98	240
15-Sep-16	50.2	8	8	27	23	5	5	1,846	3.46	4.0	40.9	19.2	6.71	430
16-Sep-16	54.1	12	8	24	23	6	5	1,872	3.68	4.1	41.1	19.5	6.68	240
17-Sep-16	50.9	9	8	23	23	5	5	1,868	4.05	4.1	41.5	19.2	6.68	430
18-Sep-16	50.9	9	8	25	23	5	5	1,805	4.10	4.2	41.9	19.3	6.67	23
19-Sep-16	50.8	10	8	23	24	5	5	1,830	3.69	4.2	42.4	17.8	6.61	93
20-Sep-16	49.6	10	8	24	24	6	5	1,889	4.05	4.2	42.4	19.8	6.66	9
21-Sep-16	48.5	8	8	21	23	5	5	1,833	3.78	4.3	42.4	19.4	6.70	9
22-Sep-16	48.1	7	8	21	23	6	5	1,813	4.17	4.3	42.5	19.5	6.85	9
23-Sep-16	49.1	11	8	12	22	6	5	1,859	4.18	4.3	42.5	19.1	6.64	14
24-Sep-16	50.8	11	8	18	22	6	5	1,884	4.38	4.4	42.5	19.4	6.66	9
25-Sep-16	65.3	11	8	18	22	9	6	1,926	3.83	4.4	42.2	19.7	6.72	43
26-Sep-16	56.2	12	9	15	22	6	6	1,713	2.76	4.4	41.9	18.9	6.70	28
27-Sep-16	50.7	15	9	16	21	6	6	1,872	3.39	4.5	42.0	18.8	6.69	93
28-Sep-16	50.4	10	9	26	22	7	6	1,926	3.69	4.6	42.2	19.0	6.70	93
29-Sep-16	49.1	11	9	17	21	8	6	1,914	4.19	4.7	42.6	18.9	6.71	430
30-Sep-16	49.6	12	9	16	21	7	6	1,903	3.81	4.8	42.7	19.0	6.68	23
Max:	67.1													
Min:	46.1													
Average:	52.0	9		21		6		1,807	3.78			19	6.71	
Total Flow:	1559.8													
Geo.Mean:														36

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