

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
March 2015**

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-15	44.7	<3	7	12	16	7	9	1,684	4.18	4.4	43	13	6.57	4
2-Mar-15	43.6	4	7	16	16	13	9	1,652	4.02	4.4	43	13	6.64	2,300
3-Mar-15	42.3	5	7	15	16	12	9	1,552	4.05	4.4	43	13	6.54	<3
4-Mar-15	43.0	9	6	23	16	21	9	1,777	4.24	4.4	43	13	6.66	43
5-Mar-15	43.0	6	6	14	16	10	9	1,702	4.19	4.4	43	13	6.70	230
6-Mar-15	43.4	7	6	15	16	12	9	1,796	4.88	4.4	43	13	6.58	93
7-Mar-15	44.6	7	6	13	16	9	9	1,787	4.49	4.4	43	13	6.53	43
8-Mar-15	45.6	8	6	14	16	11	9	1,814	4.25	4.4	43	13	6.54	430
9-Mar-15	49.2	18	6	24	16	20	10	1,828	3.94	4.4	43	13	6.57	2,300
10-Mar-15	58.3	18	6	21	16	18	10	1,971	3.48	4.4	43	13	6.56	230
11-Mar-15	51.6	16	7	18	16	15	10	1,461	3.23	4.4	42	12	6.67	930
12-Mar-15	55.2	11	7	17	16	14	10	1,739	3.72	4.3	42	13	6.59	200
13-Mar-15	62.0	13	7	15	16	12	11	1,817	3.18	4.3	42	12	6.63	380
14-Mar-15	65.2	10	7	13	16	10	11	1,598	2.68	4.3	41	12	6.56	430
15-Mar-15	82.4	8	7	14	16	10	11	1,606	2.08	4.2	41	11	6.67	1,500
16-Mar-15	54.8	12	7	13	16	10	11	1,353	2.48	4.2	40	12	6.69	43
17-Mar-15	47.5	7	7	12	15	8	11	1,487	3.47	4.1	40	13	6.68	7
18-Mar-15	46.4	11	8	14	15	11	11	1,646	3.99	4.1	40	13	6.65	15
19-Mar-15	45.8	12	8	15	15	10	11	1,635	4.14	4.1	40	13	6.61	4
20-Mar-15	45.4	7	8	14	15	9	11	1,673	4.08	4.1	40	13	6.68	23
21-Mar-15	45.7	11	8	15	15	10	11	1,745	4.04	4.1	40	13	6.60	23
22-Mar-15	45.7	8	8	16	15	11	11	1,760	3.97	4.1	40	13	6.57	9
23-Mar-15	44.6	10	9	18	15	11	11	1,552	3.33	4.1	40	13	6.61	93
24-Mar-15	47.5	9	9	15	16	10	11	1,688	3.61	4.1	40	13	6.68	1,500
25-Mar-15	77.8	13	9	17	16	13	11	1,843	2.54	4.1	39	11	6.83	230
26-Mar-15	55.1	5	9	17	16	12	12	1,355	2.23	4.0	39	11	6.68	23
27-Mar-15	46.8	8	9	17	16	9	12	1,464	3.12	4.0	40	12	6.70	23
28-Mar-15	47.3	12	9	15	16	9	12	1,621	3.28	4.0	40	13	6.59	43
29-Mar-15	53.0	7	9	19	16	11	12	1,722	2.99	4.0	39	13	6.61	23
30-Mar-15	49.3	10	9	14	16	6	11	1,509	2.92	3.9	39	13	6.63	4
31-Mar-15	48.1	11	10	17	16	8	12	1,490	2.98	3.9	39	13	6.89	4
Max:	82.4													
Min:	42.3													
Average:	50.8	10		16		11		1,656	3.54			13	6.64	
Total Flow:	1574.6													
Geo.Mean:														65

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
- (8) Total Nitrogen results are calculated from TKN and nitrate values