

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
January 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-Jan-17	43.1	6	8	20	20	6	7	1,589	3.65	3.9	41.6	15.8	6.74	4
2-Jan-17	45.1	7	8	16	20	6	7	1,771	4.15	3.9	42.2	15.5	6.60	23
3-Jan-17	44.3	10	9	nr	20	nr	7	1,677	3.76	3.9	42.8	15.8	6.72	15
4-Jan-17	46.7	10	9	32	20	17	7	1,863	4.08	4.0	43.3	15.5	6.70	43
5-Jan-17	44.7	13	9	24	20	13	8	1,730	3.89	4.0	44.2	15.7	6.55	240
6-Jan-17	44.9	4	9	18	20	11	8	1,779	3.91	4.0	45.2	15.5	6.82	430
7-Jan-17	45.3	16	9	22	20	9	8	1,757	3.87	4.1	46.0	15.0	6.78	240
8-Jan-17	46.8	13	9	25	20	11	8	1,754	3.73	4.1	46.8	15.2	6.64	93
9-Jan-17	45.4	12	9	19	20	12	8	1,661	3.66	4.1	46.9	14.6	6.68	2,400
10-Jan-17	44.3	8	9	16	19	nr	8	1,663	3.75	4.1	47.3	15.1	6.71	93
11-Jan-17	44.3	7	9	29	19	7	8	1,731	4.31	4.1	48.1	15.0	6.68	93
12-Jan-17	43.8	6	9	30	20	7	8	1,703	4.08	4.2	49.1	15.3	ns	430
13-Jan-17	44.2	8	9	26	20	6	8	1,682	4.17	4.2	50.0	15.3	6.79	21
14-Jan-17	45.4	11	9	31	20	13	8	1,755	4.17	4.3	50.6	13.4	6.75	15
15-Jan-17	47.0	9	9	34	21	7	8	1,766	3.93	4.3	51.3	15.4	6.69	14
16-Jan-17	44.9	8	9	20	21	7	8	1,598	3.83	4.3	51.9	14.4	6.66	150
17-Jan-17	44.6	7	9	21	21	12	9	1,731	4.16	4.3	52.7	15.4	6.67	9,300
18-Jan-17	44.7	9	9	29	22	9	9	1,720	3.95	4.4	53.4	15.0	6.68	15
19-Jan-17	44.1	9	9	30	22	7	8	1,661	3.90	4.4	54.0	15.3	6.46	15
20-Jan-17	47.1	11	9	27	22	7	8	1,784	4.11	4.4	54.7	15.5	6.63	43
21-Jan-17	63.4	11	9	10	22	4	8	1,780	2.91	4.4	55.1	15.3	6.63	23
22-Jan-17	59.8	15	9	34	23	6	8	1,494	2.58	4.4	55.3	14.9	6.67	15
23-Jan-17	54.1	7	9	18	23	6	8	1,509	2.76	4.4	55.5	14.3	6.97	4
24-Jan-17	53.1	9	9	25	23	5	8	1,736	3.29	4.3	55.7	15.3	6.57	21
25-Jan-17	48.4	8	9	34	24	6	8	1,587	3.52	4.3	55.9	15.1	6.73	4
26-Jan-17	47.8	8	9	31	24	7	8	1,647	3.72	4.3	56.2	14.9	6.51	28
27-Jan-17	47.4	8	9	25	24	7	8	1,632	3.84	4.3	56.6	14.9	6.70	43
28-Jan-17	47.4	13	9	28	24	10	8	1,711	3.96	4.4	56.9	15.6	6.75	9
29-Jan-17	47.9	12	9	29	25	9	8	1,752	3.74	4.4	57.5	15.2	6.74	9
30-Jan-17	46.7	13	10	18	25	8	8	1,560	3.45	4.4	57.9	14.8	6.73	46,000
31-Jan-17	46.0	13	10	15	25	7	8	1,638	3.75	4.4	58.5	15.2	6.85	93
Max:	63.4													
Min:	43.1													
Average:	47.2	10		25		8		1,691	3.76			15	6.69	
Total Flow:	1462.1													
Geo.Mean:														57

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