

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
June 2016**

Licence # 2669 E RR	File # 53.10	Final Effluent 24 Hour Composite						Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Jun-16	56.4	10	7	180	0.51	0.4	6.5	17.7	7.80	4	4		
2-Jun-16	56.1	12	nr	191	0.51	0.4	6.3	16.8	7.72	15	15		
3-Jun-16	42.9	15	9	155	0.56	0.5	6.2	18.4	7.72	7	7		
4-Jun-16	38.8	11	7	163	0.58	0.5	6.1	17.2	7.65	<3	<3		
5-Jun-16	37.1	18	12	160	0.69	0.5	6.1	19.0	7.65	<3	<3		
6-Jun-16	37.0	15	6	191	0.71	0.5	6.1	18.8	7.62	4	4		
7-Jun-16	33.3	30	9	183	0.73	0.5	6.1	18.6	7.69	4	4		
8-Jun-16	32.3	17	nr	197	0.76	0.5	6.2	19.1	7.67	<3	<3		
9-Jun-16	32.1	20	10	207	0.81	0.6	6.4	18.9	7.66	23	<3		
10-Jun-16	34.4	11	8	225	0.84	0.6	6.5	20.6	7.63	<3	<3		
11-Jun-16	30.9	18	7	208	0.83	0.6	6.6	20.8	7.79	4	4		
12-Jun-16	39.2	18	8	292	0.86	0.6	7.0	19.6	7.82	9	9		
13-Jun-16	34.9	22	8	266	0.90	0.7	7.3	19.2	7.71	430	<3		
14-Jun-16	32.0	20	8	262	0.86	0.7	7.7	20.7	7.81	43	43		
15-Jun-16	30.5	33	18	265	0.91	0.7	8.1	21.3	7.78	<3	<3		
16-Jun-16	30.1	24	9	250	0.97	0.7	8.6	21.6	7.79	52	52		
17-Jun-16	37.7	17	8	328	1.06	0.8	8.9	21.8	7.78	14	14		
18-Jun-16	32.0	16	nr	300	1.10	0.8	9.3	22.1	7.79	9	9		
19-Jun-16	50.3	21	8	469	1.12	0.8	9.7	22.7	7.88	23	23		
20-Jun-16	37.2	22	6	367	1.14	0.9	10.2	22.0	7.82	9	9		
21-Jun-16	33.1	15	6	313	1.09	0.9	10.7	21.7	7.86	23	23		
22-Jun-16	31.1	10	6	330	1.06	0.9	10.5	21.9	7.90	4	4		
23-Jun-16	30.2	14	6	329	1.09	1.0	10.4	21.3	7.81	43	43		
24-Jun-16	29.2	10	6	289	1.04	1.0	10.7	22.7	7.86	43	43		
25-Jun-16	46.7	26	6	461	1.06	1.0	11.1	22.3	7.85	150	150		
26-Jun-16	45.1	25	6	460	0.98	1.1	11.5	21.4	7.86	9	9		
27-Jun-16	43.8	18	6	460	0.91	1.1	11.8	19.6	7.80	9	9		
28-Jun-16	35.9	16	4	384	0.95	1.1	12.1	20.9	7.89	43	43		
29-Jun-16	33.8	11	nr	317	0.94	1.1	12.4	22.1	7.93	43	43		
30-Jun-16	31.5	13	4	287	0.98	1.1	12.7	21.1	8.16	43	43		
Max:	56.4												
Min:	29.2												
Average:	37.2	18	8	283	0.89			20.4	7.79				
Total Flow:	1115.3												
Geo.Mean:										12	9		

Notes:

(1) Effluent ammonia load based upon Raw Sewage flows and Final Cell 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