

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
November 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-Nov-16	41.5	5	<3	18.2	0.44	0.6	1.9	7.2	8.64	93	43		
2-Nov-16	28.8	4	<3	12.7	0.45	0.6	1.9	6.7	8.69	43	43		
3-Nov-16	27.0	5	<3	12.9	0.44	0.6	2.0	6.7	8.45	93	93		
4-Nov-16	26.2	4	<3	13.1	0.44	0.6	2.0	6.3	8.46	240	240		
5-Nov-16	26.5	6	<3	12.7	0.40	0.6	2.0	6.5	8.34	240	240		
6-Nov-16	26.8	8	<3	11.2	0.36	0.6	2.1	7.3	8.39	150	150		
7-Nov-16	25.1	8	<3	12.1	0.35	0.6	2.1	8.9	8.30	240	93		
8-Nov-16	24.3	8	<3	9.7	0.31	0.6	2.2	8.3	8.49	430	430		
9-Nov-16	23.9	6	<3	12.7	0.40	0.6	2.2	8.2	8.47	240	93		
10-Nov-16	23.3	10	3	nr	0.45	0.5	2.3	8.7	8.36	43	43		
11-Nov-16	23.4	9	3	7.3	0.38	0.5	2.4	7.5	8.24	93	93		
12-Nov-16	23.0	8	<3	7.4	0.40	0.5	2.4	6.5	8.40	43	43		
13-Nov-16	23.7	10	4	7.8	0.26	0.5	2.6	6.4	8.44	23	23		
14-Nov-16	22.5	7	4	5.2	0.24	0.5	2.7	6.7	8.42	43	43		
15-Nov-16	23.6	10	3	5.0	0.25	0.5	2.7	7.1	8.34	43	43		
16-Nov-16	22.2	10	5	2.7	0.23	0.5	2.9	6.5	8.66	93	43		
17-Nov-16	22.1	9	5	1.5	0.19	0.5	3.0	6.1	8.44	43	43		
18-Nov-16	21.7	10	5	0.1	0.04	0.5	3.1	4.5	8.43	23	9		
19-Nov-16	22.5	12	6	0.1	0.04	0.4	3.2	2.5	8.63	43	43		
20-Nov-16	23.0	10	7	0.1	0.17	0.4	3.3	1.9	8.72	4	<3		
21-Nov-16	23.2	9	6	0.1	0.18	0.4	3.4	1.5	8.68	4	4		
22-Nov-16	22.1	8	nr	0.1	0.11	0.4	3.6	1.4	8.76	7	7		
23-Nov-16	23.4	9	7	0.1	0.11	0.4	3.7	2.2	8.79	<3	<3		
24-Nov-16	24.1	9	7	0.1	0.10	0.4	3.9	2.1	8.73	9	9		
25-Nov-16	22.9	8	8	0.1	0.08	0.4	4.0	2.1	8.83	4	4		
26-Nov-16	23.3	12	8	0.1	0.09	0.4	4.0	1.4	8.88	4	<3		
27-Nov-16	24.1	10	8	0.1	0.05	0.4	4.1	1.7	8.87	<3	<3		
28-Nov-16	30.4	9	6	0.2	0.08	0.4	4.1	1.9	8.96	4	4		
29-Nov-16	35.4	8	6	0.2	0.07	0.4	4.2	1.9	8.93	<3	<3		
30-Nov-16	31.9	9	7	0.2	0.06	0.3	4.2	1.7	8.76	43	43		
Max:	41.5												
Min:	21.7												
Average:	25.4	8	4	5	0.24			4.9	8.58				
Total Flow:	761.9												
Geo.Mean:										28	23		

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