

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

Licence # 2669 E RR	File # 53.10	Final Effluent 24 Hour Composite						Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow	TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
			ML	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Dec-16	28.4	11	7	0.1	0.03	0.3	4.2	1.6	8.76	4	<3		
2-Dec-16	26.8	12	7	0.1	0.06	0.3	4.3	1.5	9.04	11	11		
3-Dec-16	26.7	10	7	0.1	0.06	0.3	4.3	1.3	8.86	<3	<3		
4-Dec-16	26.8	8	7	0.1	0.05	0.3	4.3	1.2	8.87	<3	<3		
5-Dec-16	24.8	9	5	0.1	0.03	0.3	4.3	2.1	8.76	<3	<3		
6-Dec-16	24.2	9	6	0.1	0.03	0.3	4.3	ns	ns	ns	ns		
7-Dec-16	23.6	14	7	0.1	0.03	0.3	4.3	1.1	8.75	<3	<3		
8-Dec-16	23.1	ns	ns	ns	ns	0.3	4.3	0.8	8.83	4	<3		
9-Dec-16	22.9	ns	ns	ns	ns	0.3	4.4	0.2	8.82	<3	<3		
10-Dec-16	24.1	ns	ns	ns	ns	0.3	4.4	1.2	8.81	<3	<3		
11-Dec-16	24.3	4	5	0.7	0.04	0.3	4.4	1.4	8.78	<3	<3		
12-Dec-16	22.7	6	4	0.5	0.06	0.2	4.4	1.4	8.77	<3	<3		
13-Dec-16	22.1	4	3	1.1	0.09	0.2	4.3	2.1	8.73	<3	<3		
14-Dec-16	22.0	ns	ns	ns	ns	0.2	4.3	1.4	8.71	<3	<3		
15-Dec-16	21.9	8	nr	6.6	0.14	0.2	4.3	1.1	8.88	43	43		
16-Dec-16	21.6	6	4	2.4	0.11	0.2	4.2	1.8	8.60	150	150		
17-Dec-16	22.8	5	4	10.5	0.14	0.2	4.2	1.2	8.73	150	150		
18-Dec-16	23.5	3	4	6.8	0.11	0.2	4.1	1.4	8.75	15	15		
19-Dec-16	22.1	8	5	0.1	0.10	0.2	4.0	2.4	8.85	9	9		
20-Dec-16	21.5	11	6	0.1	0.11	0.2	4.0	2.4	8.76	4	4		
21-Dec-16	21.6	7	6	0.1	0.08	0.2	4.0	2.2	8.51	93	93		
22-Dec-16	21.7	4	7	1.5	0.11	0.2	3.9	2.4	8.57	23	23		
23-Dec-16	22.9	8	6	0.1	0.11	0.2	3.8	2.2	8.55	4	4		
24-Dec-16	23.4	8	6	1.4	0.11	0.2	3.7	2.0	8.45	<3	<3		
25-Dec-16	21.2	8	6	2.8	0.17	0.2	3.6	1.7	8.80	4	4		
26-Dec-16	21.1	ns	ns	ns	ns	0.2	3.6	1.7	8.33	<3	<3		
27-Dec-16	22.2	ns	ns	ns	ns	0.2	3.6	ns	ns	ns	ns		
28-Dec-16	21.6	6	6	6.1	0.12	0.2	3.6	1.9	8.16	4	<3		
29-Dec-16	21.2	5	5	10.2	0.14	0.2	3.6	2.1	8.16	<3	<3		
30-Dec-16	21.0	7	5	12.8	0.13	0.2	3.7	1.9	8.11	4	4		
31-Dec-16	22.0	4	5	16.7	0.10	0.2	3.8	1.5	8.02	21	21		
<b>Max:</b>	28.4												
<b>Min:</b>	21.0												
<b>Average:</b>	23.1	7	6	3	0.09			1.6	8.65				
<b>Total Flow:</b>	715.9												
<b>Geo.Mean:</b>										5	5		

**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