

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
September 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-Sep-16	23.9	11	<3	9.1	0.78	1.2	2.7	20.1	9.11	9	9		
2-Sep-16	23.5	18	<3	6.1	0.82	1.2	2.6	20.1	9.13	9	9		
3-Sep-16	23.4	14	<3	4.2	0.77	1.2	2.5	19.6	9.23	43	43		
4-Sep-16	36.7	9	<3	9.5	0.82	1.2	2.4	20.7	9.26	430	430		
5-Sep-16	29.5	10	<3	6.5	0.78	1.2	2.4	19.6	9.29	930	930		
6-Sep-16	26.7	11	<3	7.2	0.73	1.1	2.3	19.2	9.19	93	93		
7-Sep-16	25.5	9	3	5.6	0.74	1.1	2.3	19.0	9.17	43	43		
8-Sep-16	25.7	14	<3	5.9	0.72	1.1	2.2	18.6	9.23	240	240		
9-Sep-16	24.4	12	3	3.9	0.71	1.1	2.1	18.5	9.24	43	43		
10-Sep-16	24.3	15	<3	4.1	0.74	1.1	2.0	17.9	9.40	93	93		
11-Sep-16	25.1	13	<3	4.3	0.78	1.1	2.0	18.1	9.28	430	430		
12-Sep-16	24.1	17	<3	4.3	0.62	1.1	2.0	18.2	9.32	15	7		
13-Sep-16	23.4	17	<3	4.2	0.64	1.0	2.0	16.2	9.32	93	93		
14-Sep-16	23.5	20	<3	3.1	0.70	1.0	2.0	14.3	9.35	43	43		
15-Sep-16	23.5	14	<3	2.8	0.69	1.0	2.0	14.9	9.28	23	23		
16-Sep-16	24.5	12	<3	4.2	0.62	1.0	1.9	16.8	9.30	30	30		
17-Sep-16	24.6	14	<3	2.7	0.66	1.0	1.9	15.3	9.40	93	93		
18-Sep-16	24.0	14	<3	4.6	0.65	1.0	1.9	15.9	9.32	240	240		
19-Sep-16	23.5	22	<3	4.0	0.56	1.0	1.9	18.7	9.35	23	23		
20-Sep-16	23.0	18	<3	4.4	0.55	1.0	1.9	18.2	9.31	23	23		
21-Sep-16	22.8	15	4	5.0	0.60	0.9	1.9	15.5	9.33	93	93		
22-Sep-16	22.8	12	3	4.3	0.57	0.9	1.9	15.3	9.51	43	43		
23-Sep-16	22.4	14	<3	4.7	0.60	0.9	1.8	14.5	9.24	93	93		
24-Sep-16	23.6	13	<3	4.5	0.60	0.9	1.7	14.9	9.35	43	43		
25-Sep-16	29.8	15	<3	6.3	0.58	0.9	1.7	15.0	9.69	930	930		
26-Sep-16	24.1	18	<3	7.9	0.57	0.9	1.7	13.9	9.36	430	430		
27-Sep-16	21.8	18	<3	nr	0.58	0.8	1.7	12.9	9.25	93	93		
28-Sep-16	21.6	15	<3	3.5	0.52	0.8	1.7	12.3	9.26	23	23		
29-Sep-16	21.4	9	3	7.1	0.65	0.8	1.7	13.1	9.28	43	43		
30-Sep-16	21.2	12	<3	3.8	0.55	0.8	1.7	13.1	9.32	43	43		
Max:	36.7												
Min:	21.2												
Average:	24.5	14	<3	5	0.66			16.7	9.30				
Total Flow:	734.1												
Geo.Mean:										71	69		

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