

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
February 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-Feb-16	19.8	6	17	664	1.95	1.5	25.8	1.0	7.42	46,000	46,000		
2-Feb-16	19.4	6	>18	656	1.90	1.6	26.8	0.7	7.36	46,000	46,000		
3-Feb-16	19.4	7	>18	645	1.96	1.7	27.8	0.6	7.39	110,000	46,000		
4-Feb-16	19.3	9	18	669	2.06	1.7	28.7	0.7	7.31	46,000	46,000		
5-Feb-16	19.4	7	>18	641	2.26	1.8	29.5	0.7	7.25	>110,000	>110,000		
6-Feb-16	19.9	8	>18	660	2.26	1.9	30.3	1.0	7.42	>110,000	>110,000		
7-Feb-16	20.4	6	24	690	2.46	1.9	30.9	0.5	7.31	>110,000	>110,000		
8-Feb-16	19.6	8	23	731	2.17	2.0	31.6	0.7	7.37	>110,000	>110,000		
9-Feb-16	19.1	7	23	678	2.15	2.1	32.4	1.0	7.31	>110,000	46,000		
10-Feb-16	19.4	9	20	720	2.18	2.1	33.1	0.7	7.40	110,000	110,000		
11-Feb-16	19.4	12	19	702	2.31	2.2	33.9	0.8	7.43	>110,000	>110,000		
12-Feb-16	19.8	13	nr	729	2.14	2.2	34.5	0.5	7.40	>110,000	>110,000		
13-Feb-16	19.7	13	19	694	2.02	2.3	35.2	0.0	7.51	>110,000	>110,000		
14-Feb-16	19.2	13	21	717	2.14	2.4	36.0	0.7	7.37	>110,000	>110,000		
15-Feb-16	20.3	10	20	783	2.26	2.4	36.7	0.5	7.38	>110,000	>110,000		
16-Feb-16	19.2	12	23	723	2.22	2.5	37.3	1.1	7.30	>110,000	>110,000		
17-Feb-16	19.1	13	nr	711	2.36	2.5	38.0	0.5	7.33	110,000	110,000		
18-Feb-16	19.6	14	23	738	2.45	2.6	38.5	0.7	7.26	>110,000	>110,000		
19-Feb-16	20.3	12	23	774	2.40	2.6	39.1	1.4	7.27	>110,000	>110,000		
20-Feb-16	21.1	14	32	794	2.51	2.7	39.7	0.3	7.54	>110,000	>110,000		
21-Feb-16	20.8	10	24	800	2.56	2.7	40.1	0.2	7.38	>110,000	>110,000		
22-Feb-16	19.4	30	44	731	2.48	2.8	40.5	1.0	7.34	>110,000	110,000		
23-Feb-16	19.3	28	35	724	2.52	2.8	40.9	0.9	7.42	>110,000	>110,000		
24-Feb-16	19.5	23	37	739	2.61	2.8	41.3	0.9	7.33	>110,000	>110,000		
25-Feb-16	19.5	20	34	733	2.52	2.8	41.6	1.2	7.55	>110,000	>110,000		
26-Feb-16	19.8	22	32	745	2.54	2.9	41.8	1.4	7.31	>110,000	>110,000		
27-Feb-16	20.5	18	35	786	2.72	2.9	42.0	0.5	7.12	>110,000	>110,000		
28-Feb-16	20.7	12	38	807	2.75	2.9	42.1	0.7	7.54	>110,000	>110,000		
29-Feb-16	19.5	16	36	727	2.48	3.0	42.3	0.9	7.31	>110,000	>110,000		
Max:	21.1												
Min:	19.1												
Average:	19.7	13	26	721	2.32			0.8	7.37				
Total Flow:	572.3												
Geo.Mean:										100,513	94,648		

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
- (5) Total Nitrogen results are calculated from TKN and nitrate values