

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

April 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-Apr-16	25.9	28	16	456	0.45	1.8	33.1	2.8	8.18	430	430		
2-Apr-16	25.1	34	17	414	0.32	1.8	32.3	2.3	8.60	93	93		
3-Apr-16	25.2	31	17	420	0.34	1.7	31.6	2.0	8.52	93	93		
4-Apr-16	24.0	27	17	389	0.31	1.6	30.8	2.8	8.53	9	9		
5-Apr-16	24.2	25	16	368	0.29	1.6	30.0	3.4	8.85	15	9		
6-Apr-16	28.7	40	18	430	0.29	1.5	29.2	3.9	8.67	15	15		
7-Apr-16	28.5	31	17	404	0.30	1.4	28.5	2.6	8.67	43	43		
8-Apr-16	26.4	38	nr	343	0.23	1.4	27.7	3.0	8.76	240	240		
9-Apr-16	26.5	34	15	339	0.24	1.3	27.1	1.2	7.96	23	23		
10-Apr-16	26.1	45	16	323	0.24	1.2	26.3	0.7	9.13	30	30		
11-Apr-16	24.2	31	16	298	0.23	1.2	25.6	0.5	8.87	93	43		
12-Apr-16	23.5	47	17	286	0.19	1.1	25.0	1.1	9.17	<3	<3		
13-Apr-16	23.2	35	19	277	0.19	1.1	24.4	3.5	9.06	43	23		
14-Apr-16	23.7	40	18	263	0.18	1.0	23.8	5.3	8.97	4	<3		
15-Apr-16	36.4	31	16	368	0.18	1.0	23.3	6.6	9.03	4	4		
16-Apr-16	58.0	33	nr	545	0.20	1.0	22.8	5.0	9.01	23	9		
17-Apr-16	57.6	27	12	531	0.18	0.9	22.2	4.0	9.18	74	74		
18-Apr-16	56.9	24	11	515	0.18	0.9	21.5	4.6	8.96	43	43		
19-Apr-16	44.7	31	nr	383	0.16	0.9	20.9	6.2	8.95	7	7		
20-Apr-16	39.3	22	12	324	0.16	0.9	20.4	7.8	9.00	15	7		
21-Apr-16	35.9	23	10	309	0.19	0.8	19.8	8.5	9.00	93	15		
22-Apr-16	33.6	24	nr	264	0.15	0.8	19.3	8.9	9.08	15	15		
23-Apr-16	32.5	24	10	254	0.18	0.8	18.7	nr	9.14	43	43		
24-Apr-16	31.5	25	9	239	0.15	0.7	18.2	nr	9.44	43	43		
25-Apr-16	29.6	26	9	207	0.14	0.7	17.7	7.5	8.98	43	43		
26-Apr-16	28.2	27	9	210	0.22	0.7	17.3	8.2	8.85	<3	<3		
27-Apr-16	27.9	26	nr	194	0.10	0.7	16.8	9.2	9.10	43	43		
28-Apr-16	27.6	34	15	175	0.06	0.6	16.4	9.7	9.16	4	4		
29-Apr-16	26.7	31	14	152	<0.01	0.6	16.0	9.9	9.15	15	15		
30-Apr-16	27.2	ns	ns	ns	ns	0.6	15.2	12.1	9.31	9	9		
Max:	58.0												
Min:	23.2												
Average:	31.6	31	14	334	0.21			5.1	8.91				
Total Flow:	948.8												
Geo.Mean:										24	19		

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