

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
February 2017**

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
			ML**	(mg/L)	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Feb-17	134.9	12	24	8	4,992	1.67	1.8	51.8	14.5	6.77	240	240		
2-Feb-17	131.2	11	31	7	4,827	1.62	1.8	51.8	14.3	7.30	93	93		
3-Feb-17	136.7	10	29	8	4,854	1.52	1.8	51.6	14.3	6.96	93	93		
4-Feb-17	118.7	12	45	7	4,058	1.17	1.8	51.6	14.5	6.89	240	43		
5-Feb-17	132.5	8	28	7	4,518	1.28	1.8	51.3	14.9	6.89	4	4		
6-Feb-17	126.2	8	17	6	4,304	1.14	1.8	51.2	14.1	6.85	9	<3		
7-Feb-17	129.7	10	15	6	4,656	1.49	1.8	51.2	13.9	7.30	150	23		
8-Feb-17	128.3	10	22	7	4,466	1.39	1.8	51.5	13.6	6.85	240	240		
9-Feb-17	128.6	12	27	8	4,695	1.50	1.8	51.3	13.9	6.83	300	300		
10-Feb-17	133.3	11	36	10	5,171	1.34	1.8	51.0	13.9	6.97	930	930		
11-Feb-17	124.3	13	30	10	4,612	1.22	1.8	50.5	14.8	6.79	150	150		
12-Feb-17	126.5	10	42	8	4,618	1.05	1.8	50.2	14.7	6.89	240	240		
13-Feb-17	132.6	11	21	7	4,800	1.07	1.8	49.7	13.7	6.94	360	74		
14-Feb-17	133.3	12	24	9	4,691	1.60	1.8	49.4	14.2	7.01	430	430		
15-Feb-17	127.1	12	34	8	4,474	1.68	1.8	49.0	14.2	6.85	300	300		
16-Feb-17	144.0	15	41	9	5,110	1.70	1.8	48.6	14.5	6.98	93	93		
17-Feb-17	226.7	24	29	12	6,937	1.06	1.8	47.9	14.3	6.77	20	20		
18-Feb-17	256.7	27	28	16	5,006	0.27	1.8	47.1	11.7	6.73	150	74		
19-Feb-17	219.2	23	18	10	4,143	0.70	1.7	46.3	10.6	6.95	23	9		
20-Feb-17	351.5	39	25	13	4,745	0.42	1.8	46.1	9.1	6.76	43	43		
21-Feb-17	239.5	17	16	6	4,216	0.53	1.8	45.8	10.3	7.07	93	28		
22-Feb-17	215.0	19	18	8	4,450	0.66	1.8	45.6	10.9	6.85	74	23		
23-Feb-17	156.6	17	19	nr	4,056	0.97	1.8	45.6	11.3	7.02	210	93		
24-Feb-17	158.9	16	nr	nr	4,655	1.55	1.9	45.4	12.3	7.07	430	430		
25-Feb-17	140.1	21	22	9	4,161	1.44	1.9	45.0	12.9	6.97	110	93		
26-Feb-17	149.3	13	nr	nr	4,374	1.27	1.9	44.4	12.9	7.02	93	74		
27-Feb-17	142.6	13	22	9	4,465	1.11	1.9	43.8	12.5	7.16	23	23		
28-Feb-17	155.1	15	20	7	5,800	1.45	1.9	43.4	12.5	7.30	430	150		
Max:	351.5													
Min:	118.7													
Average:	160.7	15	26	9	4,709	1.21			13	6.96				
Total Flow:	4499.1													
Geo.Mean:											115	72		

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final 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)** Flow, highlighted in bold, in excess of 380 ML/D per clause 26 of Licence 2684RRR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant