

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
October 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-Oct-17	184.1	26	41	15	5,009	4.40	4.8	35.0	19.4	6.74	11	19		
2-Oct-17	161.4	12	19	8	3,422	2.50	4.7	34.6	18.8	6.74	146	12		
3-Oct-17	147.4	16	19	9	3,906	3.69	4.7	34.5	19.1	6.79	119	162		
4-Oct-17	142.9	16	23	10	4,260	4.46	4.7	34.8	19.2	6.80	15	21		
5-Oct-17	139.5	17	21	9	4,046	4.50	4.7	35.1	19.3	6.82	2,420	>2,420		
6-Oct-17	133.0	15	22	8	3,950	4.72	4.7	35.2	19.3	6.82	54	65		
7-Oct-17	134.0	13	20	8	3,913	4.75	4.7	35.2	19.4	6.80	30	31		
8-Oct-17	127.7	10	19	8	3,628	4.40	4.6	35.1	19.2	6.80	23	34		
9-Oct-17	127.3	12	19	9	3,703	4.67	4.6	35.1	18.9	6.78	15	32		
10-Oct-17	130.2	13	20	10	3,738	4.44	4.6	35.0	18.9	6.64	3	13		
11-Oct-17	136.3	16	20	8	4,484	4.69	4.6	35.2	19.0	6.79	65	52		
12-Oct-17	131.8	13	26	8	4,850	4.70	4.6	35.4	19.2	6.88	18	20		
13-Oct-17	134.3	17	30	9	5,372	4.80	4.6	35.8	19.4	6.82	146	108		
14-Oct-17	157.6	15	29	6	5,467	4.52	4.5	35.7	19.1	6.71	38	45		
15-Oct-17	132.5	10	26	7	4,186	4.23	4.4	35.5	18.6	6.73	16	18		
16-Oct-17	134.5	8	nr	nr	4,493	4.77	4.5	36.0	18.9	6.65	7	23		
17-Oct-17	135.8	12	25	7	4,834	5.01	4.6	36.6	19.3	6.87	28	43		
18-Oct-17	138.2	10	24	7	4,697	4.39	4.6	36.6	19.4	6.72	50	30		
19-Oct-17	132.3	13	37	6	4,802	4.33	4.6	36.9	19.4	6.67	<10	40		
20-Oct-17	132.9	14	32	6	4,491	4.49	4.6	37.6	19.5	6.74	20	10		
21-Oct-17	131.1	11	32	7	4,484	4.99	4.7	37.9	19.1	6.74	210	190		
22-Oct-17	128.7	12	33	8	4,323	4.97	4.7	38.4	19.4	6.65	10	30		
23-Oct-17	133.3	18	nr	nr	4,664	4.62	4.9	39.3	19.0	6.70	10	30		
24-Oct-17	132.0	16	15	6	4,806	4.94	5.0	40.4	19.0	6.65	20	10		
25-Oct-17	132.8	32	32	22	4,529	4.77	5.1	41.4	19.0	6.64	40	60		
26-Oct-17	329.9	46	39	25	5,674	1.95	5.1	41.4	12.6	6.81	2,050	1,620		
27-Oct-17	155.8	10	9	5	3,085	0.74	5.1	41.4	15.1	6.66	30	40		
28-Oct-17	140.9	9	10	4	3,663	1.92	5.0	41.3	17.2	6.76	10	20		
29-Oct-17	138.5	9	17	5	4,015	3.52	5.0	41.1	17.8	6.73	<10	10		
30-Oct-17	147.1	9	11	5	4,001	3.69	5.0	41.0	17.7	6.83	<10	30		
31-Oct-17	138.8	12	11	5	4,122	3.69	5.0	41.3	17.7	6.72	10	10		
Max:	329.9													
Min:	127.3													
Average:	145.2	15	23	9	4,342	4.14			18.6	6.75				
Total Flow:	4502.4													
Geo.Mean:											29	39		

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