

**City of Winnipeg  
Water and Waste Department  
North End Water Pollution Control Centre Monitoring Data  
January 2019**

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample			
		TSS	BOD5 ***	cBOD5 ***	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
1-Jan-19	118.0	20	21	9	4,320	4.44	5.3	51.0	15.6	6.88	90	100
2-Jan-19	130.7	21	26	7	5,294	4.29	5.3	51.2	13.9	6.86	2,250	2,100
3-Jan-19	139.8	22	30	9	5,622	4.50	5.4	51.3	14.5	6.86	190	100
4-Jan-19	136.0	15	nr	nr	5,520	4.77	5.3	51.5	15.0	6.69	20	30
5-Jan-19	127.3	19	nr	nr	5,039	4.63	5.3	51.5	16.0	6.65	100	160
6-Jan-19	132.9	22	28	9	5,185	4.17	5.3	51.4	14.9	6.71	180	200
7-Jan-19	128.0	16	24	7	4,826	4.11	5.3	51.2	15.2	6.77	<10	20
8-Jan-19	132.1	19	nr	nr	5,005	4.58	5.3	51.0	14.3	6.79	390	280
9-Jan-19	129.5	38	nr	nr	5,282	4.82	5.3	51.1	13.7	6.73	4,540	nr
10-Jan-19	134.2	26	16	7	5,715	4.96	5.2	51.4	13.7	6.88	200	150
11-Jan-19	126.8	21	nr	nr	5,213	4.61	5.2	51.4	14.1	6.68	750	960
12-Jan-19	127.4	20	nr	nr	5,451	4.79	5.2	51.3	15.9	6.67	nr	420
13-Jan-19	130.1	20	19	6	5,478	4.49	5.2	51.3	14.4	6.79	720	860
14-Jan-19	126.8	20	14	7	5,084	3.13	5.1	51.1	14.4	6.63	160	360
15-Jan-19	131.1	16	14	8	5,558	3.26	5.0	51.0	13.1	7.00	1,150	1,620
16-Jan-19	127.6	18	nr	nr	5,204	2.94	4.9	51.0	13.7	6.75	1,130	1,050
17-Jan-19	137.4	17	25	9	5,976	2.78	4.9	51.0	13.6	6.82	860	1,470
18-Jan-19	129.6	17	nr	nr	5,170	2.44	4.8	51.0	13.1	6.92	1,420	910
19-Jan-19	127.2	13	nr	nr	5,265	2.52	4.7	51.1	15.8	6.85	120	100
20-Jan-19	137.5	17	11	8	5,652	2.09	4.6	51.3	13.3	6.86	120	150
21-Jan-19	125.8	17	12	7	4,681	1.41	4.6	51.4	12.7	6.76	150	130
22-Jan-19	135.4	18	11	8	5,077	1.85	4.5	51.6	13.2	6.82	520	330
23-Jan-19	122.6	17	15	8	4,474	2.00	4.5	51.5	13.4	6.88	230	230
24-Jan-19	134.4	19	nr	nr	5,174	2.55	4.5	51.6	13.2	6.81	17,300	12,000
25-Jan-19	131.2	17	nr	nr	5,037	2.09	4.4	51.5	13.2	6.80	280	220
26-Jan-19	127.7	21	nr	nr	5,070	1.86	4.3	51.4	13.5	6.77	20	30
27-Jan-19	126.2	17	nr	nr	4,794	1.96	4.3	51.3	12.9	6.76	10	40
28-Jan-19	115.3	13	nr	nr	4,175	1.39	4.2	51.3	13.0	6.80	60	40
29-Jan-19	134.5	20	nr	nr	5,083	1.91	4.1	51.3	11.7	6.83	80	70
30-Jan-19	132.1	20	nr	nr	5,032	1.81	4.0	51.2	12.5	6.98	60	130
31-Jan-19	129.5	20	nr	nr	4,741	1.87	3.9	51.2	12.1	6.95	300	330
<b>Max:</b>	139.8											
<b>Min:</b>	115.3											
<b>Average:</b>	<b>129.8</b>	<b>19</b>	<b>19</b>	<b>8</b>	<b>5,135</b>	<b>3.19</b>			<b>13.9</b>	<b>6.80</b>		
<b>Total Flow:</b>	<b>4024.5</b>											
<b>Geo.Mean:</b>											<b>230</b>	<b>240</b>

**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
- (8) \*\*\* Results reported with a correction factor