

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

**February 2020**

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-20	132.9	17	24	9	4,944	0.98	2.1	46.8	13.6	6.74	>24200	>24200		
2-Feb-20	134.6	17	25	9	4,780	0.95	2.1	45.5	13.7	6.86	6,870	7,270		
3-Feb-20	136.6	17	21	8	4,549	0.99	2.1	45.1	13.5	6.88	500	640		
4-Feb-20	136.1	17	24	8	4,601	1.38	2.1	47.5	13.1	6.91	180	330		
5-Feb-20	139.5	19	26	8	4,841	1.04	2.1	46.0	13.1	6.83	80	50		
6-Feb-20	135.9	18	26	8	4,741	1.04	2.1	50.5	12.7	6.99	640	1,080		
7-Feb-20	129.9	17	25	7	5,066	1.00	2.0	48.8	13.0	6.92	1,620	1,210		
8-Feb-20	124.0	20	27	8	4,725	1.12	2.0	48.9	13.2	6.83	50	50		
9-Feb-20	123.5	20	34	10	4,333	1.17	2.0	46.7	13.1	6.90	1,370	1,150		
10-Feb-20	135.6	17	29	8	4,529	0.75	2.0	48.0	13.6	6.82	150	190		
11-Feb-20	128.2	19	30	8	4,270	0.88	1.9	52.5	13.3	6.83	470	910		
12-Feb-20	126.1	22	31	10	4,603	0.96	1.9	53.8	12.3	6.92	4,350	4,110		
13-Feb-20	131.9	19	31	10	4,907	1.27	1.9	58.5	12.4	6.96	1,190	860		
14-Feb-20	135.9	19	40	10	5,111	1.21	1.9	56.0	12.3	7.00	100	190		
15-Feb-20	128.0	19	28	9	4,584	1.13	1.9	51.3	12.4	6.67	50	80		
16-Feb-20	119.8	17	23	8	4,121	0.99	1.8	50.6	12.5	6.89	1,020	1,790		
17-Feb-20	123.6	18	25	8	4,090	0.98	1.8	49.4	12.8	6.83	30	50		
18-Feb-20	137.8	18	26	8	4,534	0.97	1.8	42.7	12.3	6.86	40	20		
19-Feb-20	132.1	19	23	9	4,662	1.31	1.8	45.9	12.2	7.08	10	20		
20-Feb-20	132.7	19	24	8	4,591	1.12	1.8	45.8	12.5	6.89	80	<10		
21-Feb-20	138.7	16	24	8	4,922	1.24	1.8	43.1	12.9	6.94	10	30		
22-Feb-20	139.2	15	23	8	4,774	1.17	1.8	42.9	13.3	6.79	80	100		
23-Feb-20	132.7	23	27	10	4,299	1.08	1.8	39.2	13.2	6.67	20	70		
24-Feb-20	141.7	12	21	7	4,266	0.70	1.8	37.2	12.9	6.82	<10	10		
25-Feb-20	131.4	13	26	11	4,350	0.91	1.8	42.0	12.7	7.04	<10	40		
26-Feb-20	137.2	17	28	7	4,817	1.04	1.8	39.5	12.8	6.89	<10	10		
27-Feb-20	128.3	14	31	8	4,758	1.44	1.8	44.6	13.2	6.93	30	20		
28-Feb-20	129.2	16	29	10	5,131	1.38	1.8	42.4	13.3	6.79	<10	10		
29-Feb-20	126.3	12	24	7	5,025	1.22	1.8	46.0	13.1	6.83	40	30		
<b>Max:</b>	141.7													
<b>Min:</b>	119.8													
<b>Average:</b>	<b>132.0</b>	<b>17</b>	<b>27</b>	<b>9</b>	<b>4,653</b>	<b>1.08</b>			<b>12.9</b>	<b>6.87</b>				
<b>Total Flow:</b>	<b>3,829.4</b>													
<b>Geo.Mean:</b>											<b>120</b>	<b>150</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) 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