

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

**April 2020**

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(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-Apr-20	280.2	78	28	21	4,988	0.63	1.5	40.2	10.3	6.96	50	60		
2-Apr-20	365.7	20	16	8	5,302	0.43	1.4	39.2	8.4	7.25	340	500		
3-Apr-20	212.0	18	16	8	4,494	0.70	1.4	38.7	9.2	7.02	90	90		
4-Apr-20	199.2	19	17	8	4,700	0.71	1.4	38.1	10.0	6.98	160	150		
5-Apr-20	275.4	45	27	17	5,232	0.59	1.4	37.4	10.3	7.09	20	40		
6-Apr-20	436.9	144	53	28	4,544	0.42	1.4	36.6	9.8	7.11	>24,200	>24,200		
7-Apr-20	530.3	32	nr	nr	5,033	0.41	1.4	36.0	8.1	7.24	>24,200	>24,200		
8-Apr-20	314.7	20	nr	nr	4,752	0.56	1.4	35.4	9.5	7.10	370	390		
9-Apr-20	240.6	16	10	6	4,283	0.56	1.4	34.5	9.6	7.01	80	60		
10-Apr-20	224.3	14	14	6	4,507	0.77	1.4	33.8	10.0	6.87	90	50		
11-Apr-20	221.7	16	nr	nr	4,078	0.48	1.4	33.4	9.7	7.07	100	50		
12-Apr-20	200.5	12	nr	nr	4,151	0.47	1.4	32.9	9.9	7.09	60	50		
13-Apr-20	193.6	14	14	5	4,822	0.79	1.4	32.5	10.1	6.96	10	30		
14-Apr-20	182.5	12	15	6	4,726	0.94	1.4	32.1	10.4	6.96	10	10		
15-Apr-20	178.3	13	15	5	4,529	1.02	1.4	31.7	10.9	6.95	20	60		
16-Apr-20	173.9	12	15	6	5,236	1.02	1.4	31.2	11.1	6.96	70	70		
17-Apr-20	174.8	10	18	7	5,277	0.98	1.4	30.8	11.7	6.99	140	240		
18-Apr-20	174.8	12	17	6	4,632	1.14	1.4	30.2	11.4	6.89	50	60		
19-Apr-20	170.3	10	21	6	4,529	1.81	1.4	29.7	11.6	6.97	50	50		
20-Apr-20	168.0	10	19	6	4,570	1.94	1.4	29.5	11.9	6.94	20	20		
21-Apr-20	171.4	10	21	6	4,918	2.34	1.4	29.4	11.8	7.00	30	20		
22-Apr-20	168.3	11	20	6	4,527	2.23	1.5	29.1	12.3	6.87	80	80		
23-Apr-20	175.3	12	28	8	4,768	2.43	1.5	29.2	12.3	6.91	100	150		
24-Apr-20	177.1	11	25	8	4,800	2.63	1.6	29.4	12.9	6.94	340	360		
25-Apr-20	248.8	56	67	23	6,121	2.15	1.6	29.6	12.8	6.75	20	80		
26-Apr-20	203.2	13	32	7	3,942	1.14	1.6	29.6	11.6	6.86	1,480	1,660		
27-Apr-20	186.5	14	19	7	4,606	1.80	1.6	30.0	12.5	6.98	20	20		
28-Apr-20	216.1	16	25	8	5,489	2.22	1.7	30.1	12.4	6.88	24,200	19,900		
29-Apr-20	194.8	16	18	7	4,596	1.95	1.7	30.2	12.8	6.97	2,480	3,260		
30-Apr-20	180.3	12	22	6	4,616	2.42	1.8	30.3	13.0	6.89	710	620		
<b>Max:</b>	530.3													
<b>Min:</b>	168.0													
<b>Average:</b>	<b>228.0</b>	<b>23</b>	<b>23</b>	<b>9</b>	<b>4,759</b>	<b>1.25</b>			<b>10.9</b>	<b>6.98</b>				
<b>Total Flow:</b>	<b>6,839.3</b>										<b>146</b>	<b>167</b>		
<b>Geo.Mean:</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