

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

**April 2020**

Licence # 2716RR	File # 1069.10	Final Effluent 24 Hour Composite										Final Effluent Grab Sample		
		TSS		BOD5		cBOD5		Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	E.Coli
		(mg/L)	(mg/L)*	(mg/L)	(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	79.4	15	10	19	18	15	8	1,866	2.13	4.1	45.4	12.0	6.88	2,910
2-Apr-20	92.0	11	10	19	18	11	8	1,730	1.55	4.0	44.7	11.2	6.91	1,780
3-Apr-20	62.6	5	10	15	18	8	9	1,703	1.23	3.9	44.4	12.4	6.63	120
4-Apr-20	60.5	8	10	17	18	7	9	1,857	2.20	3.8	43.9	12.5	6.78	70
5-Apr-20	66.6	15	10	17	18	12	9	2,025	3.12	3.8	43.5	12.8	6.73	80
6-Apr-20	<b>103.1</b>	57	12	>35	19	33	10	2,031	2.42	3.8	42.8	12.2	6.78	(120)
7-Apr-20	<b>118.7</b>	21	12	nr	19	nr	10	1,923	1.55	3.7	42.0	10.6	7.07	(40)
8-Apr-20	90.7	14	12	nr	19	nr	10	1,705	1.38	3.6	41.3	11.5	6.86	30
9-Apr-20	84.9	10	12	11	18	5	10	1,995	1.60	3.5	40.5	11.6	6.88	10
10-Apr-20	75.3	10	13	13	18	5	10	1,837	2.20	3.5	39.9	11.7	7.00	<10
11-Apr-20	76.3	ns	13	ns	18	ns	10	ns	ns	3.5	39.7	11.7	6.81	30
12-Apr-20	70.8	ns	13	ns	18	ns	11	ns	ns	3.4	39.5	11.5	6.99	10
13-Apr-20	68.9	10	13	17	19	5	11	2,012	2.95	3.4	39.1	11.7	6.90	10
14-Apr-20	65.2	7	13	13	19	5	11	1,826	3.14	3.3	38.6	11.9	6.82	20
15-Apr-20	64.5	8	13	11	19	<4	10	1,929	2.88	3.2	38.2	13.3	6.93	30
16-Apr-20	63.5	7	13	14	18	6	10	1,854	2.96	3.2	37.9	12.7	6.93	110
17-Apr-20	63.0	6	13	12	18	5	10	2,054	2.99	3.1	37.5	12.1	6.70	10
18-Apr-20	64.9	6	13	12	18	6	10	2,012	2.92	3.2	37.1	13.1	6.90	2,910
19-Apr-20	64.7	6	13	14	18	5	10	2,083	3.21	3.1	36.7	12.7	6.79	1,790
20-Apr-20	63.6	5	13	12	18	4	10	1,927	3.20	3.1	36.6	nr	nr	nr
21-Apr-20	63.0	ns	13	ns	18	ns	10	ns	ns	3.1	36.2	nr	nr	nr
22-Apr-20	63.3	14	13	12	18	9	10	2,222	3.68	3.1	36.0	nr	nr	nr
23-Apr-20	63.9	nr	14	nr	18	nr	11	nr	nr	3.1	35.6	12.7	6.76	(960)
24-Apr-20	64.0	14	14	12	17	8	11	2,176	3.70	3.1	35.6	12.8	6.82	1,150
25-Apr-20	68.2	11	14	12	17	9	11	2,292	3.75	3.1	35.7	12.8	6.84	990
26-Apr-20	72.6	11	13	11	16	8	10	2,134	2.83	3.1	35.7	12.6	6.82	2,310
27-Apr-20	69.9	13	12	11	15	7	9	2,027	2.61	3.1	35.9	12.8	6.90	2,190
28-Apr-20	66.5	9	12	10	15	6	9	2,075	2.78	3.1	35.8	12.9	6.83	1,660
29-Apr-20	66.6	10	12	10	14	6	8	2,058	2.96	3.1	35.7	13.2	6.85	700
30-Apr-20	65.2	12	12	11	14	7	8	2,047	3.18	3.1	35.7	13.4	6.82	1,160
<b>Max:</b>	118.7													
<b>Min:</b>	60.5													
<b>Average:</b>	<b>72.1</b>	<b>12</b>		<b>13</b>		<b>8</b>		<b>1,977</b>	<b>2.66</b>			<b>12.3</b>	<b>6.85</b>	
<b>Total Flow:</b>	<b>2,162.4</b>													
<b>Geo.Mean:</b>														<b>171</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 98.6 ML/D per clause 27 of Licence 2716RR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process