

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

**February 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-Feb-20	47.9	6	9	23	23	5	8	2,007	4.27	4.4	50.6	14.5	6.76	10
2-Feb-20	53.2	8	9	26	23	9	8	2,187	4.65	4.4	50.6	14.5	6.61	<10
3-Feb-20	47.8	6	9	18	23	6	8	1,840	3.41	4.4	50.5	14.5	6.62	20
4-Feb-20	47.3	8	9	18	22	6	8	1,840	2.94	4.3	50.5	14.4	6.66	<10
5-Feb-20	50.2	6	9	17	22	5	8	2,048	3.69	4.3	50.6	14.2	6.68	20
6-Feb-20	49.6	5	9	17	22	6	7	1,905	3.74	4.3	50.6	14.0	6.73	20
7-Feb-20	47.4	14	9	22	22	8	7	2,043	5.32	4.3	50.7	13.9	6.69	100
8-Feb-20	48.2	9	9	19	22	8	7	1,962	3.45	4.3	50.7	13.6	6.82	10
9-Feb-20	49.3	7	8	19	21	8	7	1,977	4.37	4.3	50.6	13.5	6.68	20
10-Feb-20	46.8	7	8	17	21	6	7	1,732	3.09	4.3	50.6	14.2	6.65	<10
11-Feb-20	46.8	7	8	17	20	6	7	1,858	3.80	4.2	50.9	14.2	6.65	40
12-Feb-20	46.2	9	8	20	20	7	7	1,797	3.54	4.2	51.2	14.0	6.66	<10
13-Feb-20	46.4	10	8	18	19	7	7	1,837	3.70	4.2	51.2	13.7	6.67	40
14-Feb-20	47.3	7	8	21	19	8	6	1,859	3.79	4.2	51.3	13.7	6.74	40
15-Feb-20	47.2	10	8	20	19	7	7	1,907	3.81	4.2	51.5	13.7	6.82	40
16-Feb-20	47.2	11	8	26	19	8	7	1,831	3.53	4.2	51.5	13.7	6.67	10
17-Feb-20	47.8	10	8	17	19	7	7	1,888	3.86	4.2	51.8	14.0	6.63	50
18-Feb-20	46.1	14	8	21	19	11	7	1,752	4.58	4.2	51.8	14.2	6.56	220
19-Feb-20	46.5	10	8	18	19	7	7	1,837	2.70	4.2	51.8	13.9	6.65	60
20-Feb-20	46.2	9	8	15	19	7	7	1,765	2.83	4.1	51.5	14.1	6.56	100
21-Feb-20	46.2	9	8	16	19	6	7	1,853	3.14	4.1	51.3	14.4	6.62	130
22-Feb-20	48.3	8	8	19	19	8	7	1,869	3.78	4.1	51.1	14.2	6.68	10
23-Feb-20	51.4	12	8	18	19	8	7	1,989	4.95	4.2	50.8	14.2	6.74	110
24-Feb-20	48.8	9	8	17	19	6	7	1,747	3.44	4.1	50.4	14.3	6.61	70
25-Feb-20	47.8	10	8	12	18	6	7	1,769	3.54	4.1	50.2	14.4	6.57	30
26-Feb-20	47.2	20	9	23	19	12	7	1,789	4.67	4.2	50.0	14.1	6.56	500
27-Feb-20	47.2	10	9	16	19	6	7	1,921	3.15	4.2	49.9	14.1	6.54	120
28-Feb-20	47.1	8	9	14	18	5	7	1,889	3.63	4.2	49.9	14.1	6.60	30
29-Feb-20	48.2	8	9	16	18	6	7	2,058	4.47	4.2	49.8	13.7	6.74	10
<b>Max:</b>	53.2													
<b>Min:</b>	46.1													
<b>Average:</b>	<b>47.8</b>	<b>9</b>		<b>19</b>		<b>7</b>		<b>1,888</b>	<b>3.79</b>			<b>14.1</b>	<b>6.66</b>	
<b>Total Flow:</b>	<b>1,387.6</b>													
<b>Geo.Mean:</b>														<b>30</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