

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

**November 2019**

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-Nov-19	70.7	10	21	27	28	7	15	1,760	2.39	1.9	25.0	14.5	6.87	50
2-Nov-19	70.8	11	21	27	28	8	15	1,933	2.42	1.9	25.2	14.7	6.81	20
3-Nov-19	72.9	11	21	22	28	9	15	1,874	2.63	2.0	25.3	14.7	6.79	30
4-Nov-19	69.5	6	20	26	28	6	15	1,828	2.03	2.0	25.7	15.0	6.81	100
5-Nov-19	65.8	10	20	23	28	7	14	1,777	2.38	2.0	26.2	15.0	6.74	90
6-Nov-19	65.1	7	20	31	28	6	14	1,797	2.54	2.0	26.4	14.8	6.76	10
7-Nov-19	62.4	8	19	>38	28	5	14	1,747	2.46	2.1	26.7	14.9	6.77	(nr)
8-Nov-19	61.0	7	19	35	28	<4	14	1,793	2.75	2.1	26.9	15.0	6.84	(nr)
9-Nov-19	60.3	5	19	>37	28	5	14	1,875	2.45	2.1	27.2	15.1	6.72	10
10-Nov-19	58.6	88	21	nr	28	nr	13	1,887	3.63	2.3	27.7	15.0	6.75	<10
11-Nov-19	59.3	ns	21	ns	28	ns	13	ns	ns	2.3	27.8	14.9	6.81	<10
12-Nov-19	58.2	ns	20	ns	28	ns	12	ns	ns	2.3	28.0	15.0	6.76	80
13-Nov-19	55.6	11	19	13	27	8	11	1,913	3.35	2.4	28.9	15.1	6.77	10
14-Nov-19	54.4	11	18	12	26	4	11	1,882	2.69	2.5	29.9	15.0	6.81	<10
15-Nov-19	57.2	5	17	7	25	4	10	1,962	3.51	2.6	31.0	15.2	6.76	<10
16-Nov-19	56.7	47	17	25	25	19	10	2,047	3.86	2.7	32.1	14.4	6.80	10
17-Nov-19	58.6	127	21	65	26	41	11	2,045	3.73	2.9	33.1	14.9	6.83	<10
18-Nov-19	56.5	6	20	8	25	5	10	1,983	2.95	3.0	34.0	15.2	6.77	<10
19-Nov-19	50.9	6	20	8	25	6	10	1,843	3.21	3.0	34.8	15.2	6.77	<10
20-Nov-19	58.2	16	19	14	24	10	10	2,078	2.80	3.1	35.7	15.1	6.79	20
21-Nov-19	50.2	6	19	6	23	4	9	1,782	2.94	3.2	36.7	15.0	6.73	10
22-Nov-19	55.0	4	18	7	22	4	9	1,980	3.68	3.2	37.7	14.5	6.75	20
23-Nov-19	54.4	126	22	59	23	39	10	2,181	3.82	3.4	39.0	14.6	6.75	<10
24-Nov-19	59.5	79	25	49	24	34	11	1,672	2.43	3.6	40.2	14.3	6.76	90
25-Nov-19	88.4	128	29	>35	24	24	11	3,218	3.46	3.7	40.8	13.9	6.79	24,200
26-Nov-19	59.0	7	28	10	24	7	11	1,711	1.73	3.7	41.0	13.4	6.74	60
27-Nov-19	58.0	28	29	18	24	11	11	1,879	2.41	3.8	41.5	14.2	6.80	50
28-Nov-19	59.0	18	29	27	24	9	11	2,006	3.15	3.8	42.0	14.6	6.79	40
29-Nov-19	56.1	7	29	9	23	7	11	2,036	3.01	3.9	42.4	14.4	6.70	20
30-Nov-19	54.5	8	29	11	23	7	11	1,918	3.61	4.0	43.0	14.6	6.91	10
<b>Max:</b>	88.4													
<b>Min:</b>	50.2													
<b>Average:</b>	<b>60.6</b>	<b>29</b>		<b>23</b>		<b>11</b>		<b>1,943</b>	<b>2.93</b>			<b>14.7</b>	<b>6.78</b>	
<b>Total Flow:</b>	<b>1816.8</b>													
<b>Geo.Mean:</b>														<b>38</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