

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

**January 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-Jan-20	46.1	9	7	24	20	10	6	1,757	3.63	4.4	51.3	14.0	6.63	10
2-Jan-20	47.2	13	8	30	21	10	7	1,842	3.84	4.4	51.7	14.3	6.64	60
3-Jan-20	47.5	11	8	29	21	10	7	1,720	3.48	4.5	52.0	14.1	6.62	240
4-Jan-20	48.0	11	8	32	22	11	7	2,024	4.26	4.5	52.0	14.3	6.67	30
5-Jan-20	49.5	13	8	28	22	11	7	1,921	4.09	4.5	51.9	14.2	6.64	160
6-Jan-20	49.2	11	8	21	22	11	7	1,864	3.82	4.5	51.7	14.3	6.66	30
7-Jan-20	48.0	14	9	28	23	10	7	1,823	3.44	4.5	51.4	14.2	6.63	60
8-Jan-20	47.9	10	9	18	23	9	7	1,978	3.95	4.5	51.3	13.7	6.75	10
9-Jan-20	47.3	12	9	36	23	11	8	1,973	4.02	4.5	51.2	14.1	6.69	10
10-Jan-20	47.7	16	9	32	24	11	8	2,007	4.50	4.5	51.4	13.7	6.66	10
11-Jan-20	48.9	15	9	30	24	12	8	1,877	4.15	4.6	51.6	13.7	6.72	20
12-Jan-20	49.8	13	10	38	25	13	8	1,957	4.05	4.6	51.5	13.6	6.76	90
13-Jan-20	47.9	12	10	32	25	11	8	1,728	3.32	4.5	51.3	14.1	6.64	290
14-Jan-20	46.5	7	9	20	24	10	8	1,857	3.72	4.5	51.4	13.9	6.68	60
15-Jan-20	46.3	11	10	32	25	9	8	1,851	3.43	4.6	51.6	13.9	6.72	30
16-Jan-20	46.0	5	9	14	25	5	8	1,900	3.86	4.6	51.6	13.7	6.73	30
17-Jan-20	46.2	9	9	23	25	6	8	1,879	4.01	4.6	51.6	13.8	6.76	20
18-Jan-20	47.5	9	10	29	25	5	8	1,961	4.16	4.6	51.6	13.6	6.76	<10
19-Jan-20	48.2	7	10	22	25	6	8	1,936	4.17	4.6	51.6	13.6	6.72	<10
20-Jan-20	47.3	9	10	21	25	6	8	1,871	3.61	4.6	51.7	13.7	6.64	10
21-Jan-20	45.5	11	10	21	25	10	8	1,848	4.50	4.6	52.1	14.4	6.59	160
22-Jan-20	46.1	9	10	14	26	8	8	1,802	3.16	4.6	52.1	14.6	6.63	40
23-Jan-20	46.2	8	10	21	26	8	9	1,719	3.59	4.6	52.2	14.7	6.70	20
24-Jan-20	46.7	9	10	20	26	7	9	1,905	3.92	4.6	52.2	14.7	6.63	20
25-Jan-20	47.7	9	10	13	25	6	9	1,883	4.08	4.6	52.2	14.4	6.71	<10
26-Jan-20	48.5	10	10	21	25	7	9	1,949	4.13	4.5	52.0	14.4	6.73	<10
27-Jan-20	47.2	7	10	19	25	6	9	1,759	3.53	4.5	51.8	14.7	6.59	20
28-Jan-20	47.2	7	10	14	25	5	9	1,875	3.22	4.5	51.5	14.7	6.58	<10
29-Jan-20	48.1	4	10	19	24	5	9	1,881	3.55	4.4	51.2	14.6	6.66	20
30-Jan-20	47.9	<3	10	19	24	5	8	2,025	3.67	4.4	51.1	14.6	6.71	<10
31-Jan-20	47.8	7	10	11	24	4	8	1,921	3.89	4.4	50.9	14.6	6.68	10
<b>Max:</b>	49.8													
<b>Min:</b>	45.5													
<b>Average:</b>	<b>47.5</b>	<b>10</b>		<b>24</b>		<b>8</b>		<b>1,880</b>	<b>3.83</b>			<b>14.2</b>	<b>6.68</b>	
<b>Total Flow:</b>	<b>1,471.7</b>													
<b>Geo.Mean:</b>														<b>23</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