

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
November 2018**

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-18	50.3	27	15	25	13	12	6	1,841	4.13	4.0	44.5	16.2	6.72	100	
2-Nov-18	50.8	ns	15	ns	13	ns	6	ns	ns	3.9	44.4	16.2	6.77	100	
3-Nov-18	50.9	11	15	21	13	7	6	1,816	3.16	4.0	44.2	16.2	6.72	30	
4-Nov-18	53.5	9	15	13	13	5	6	1,873	2.97	4.0	44.2	16.4	6.72	30	
5-Nov-18	50.9	4	15	11	13	5	6	1,832	2.81	4.0	44.4	16.3	6.68	90	
6-Nov-18	49.4	7	15	13	13	5	6	1,789	2.78	4.0	44.5	16.3	6.69	30	
7-Nov-18	48.6	5	15	18	13	5	6	1,923	2.96	4.0	44.5	16.3	6.71	10	
8-Nov-18	48.4	5	15	20	14	6	6	1,850	3.47	4.0	44.3	16.1	6.74	<10	
9-Nov-18	49.0	10	15	16	14	5	6	1,922	3.58	4.0	44.3	16.1	6.72	20	
10-Nov-18	49.9	6	15	20	14	6	6	1,945	3.96	4.0	44.4	15.9	6.78	10	
11-Nov-18	49.2	8	15	17	14	5	7	1,968	3.97	4.0	44.6	15.9	6.66	10	
12-Nov-18	48.6	6	15	19	15	5	7	1,788	3.72	4.0	44.7	16.1	6.72	<10	
13-Nov-18	47.6	8	15	15	15	4	7	1,805	3.79	4.0	44.8	15.8	6.67	<10	
14-Nov-18	47.5	5	15	19	15	5	7	1,722	3.44	4.1	44.8	15.7	6.70	10	
15-Nov-18	47.0	6	15	17	16	5	7	1,665	3.31	4.1	45.0	15.8	6.74	<10	
16-Nov-18	47.6	5	14	15	16	6	7	1,904	3.91	4.1	45.2	15.7	6.79	<10	
17-Nov-18	48.3	36	15	27	17	13	7	1,941	3.97	4.1	45.4	15.9	6.75	<10	
18-Nov-18	49.1	31	16	30	18	16	8	1,962	4.16	4.2	45.7	15.7	6.62	<10	
19-Nov-18	48.6	7	16	16	19	5	8	1,800	3.37	4.2	45.8	15.6	6.66	20	
20-Nov-18	46.8	5	15	16	19	4	8	1,713	3.18	4.1	46.1	15.4	6.73	10	
21-Nov-18	46.5	9	16	19	19	5	8	1,822	3.56	4.1	46.5	15.3	6.67	220	
22-Nov-18	42.8	7	16	19	19	5	8	1,701	3.88	4.1	46.8	15.4	6.70	<10	
23-Nov-18	45.6	5	16	18	19	5	8	1,909	3.59	4.2	47.0	15.6	6.69	10	
24-Nov-18	45.0	8	15	20	19	6	8	1,865	4.00	4.2	47.0	15.4	6.74	<10	
25-Nov-18	55.3	25	16	24	19	13	8	2,106	4.62	4.2	47.0	15.4	6.65	30	
26-Nov-18	42.1	7	15	19	19	6	8	1,586	3.26	4.1	46.9	15.4	6.59	30	
27-Nov-18	47.5	7	14	15	19	5	7	1,915	3.70	4.1	46.9	15.3	6.72	10	
28-Nov-18	46.8	7	10	19	18	6	6	1,835	3.51	4.1	46.9	15.2	6.64	20	
29-Nov-18	44.7	5	10	20	18	5	6	1,825	4.36	4.1	47.3	15.6	6.66	50	
30-Nov-18	49.0	8	10	17	19	6	6	1,927	4.16	4.2	47.6	15.5	6.67	10	
<b>Max:</b>	55.3														
<b>Min:</b>	42.1														
<b>Average:</b>	<b>48.2</b>	<b>10</b>		<b>19</b>		<b>6</b>		<b>1,847</b>	<b>3.63</b>			<b>15.8</b>	<b>6.70</b>		
<b>Total Flow:</b>	<b>1447.3</b>														
<b>Geo.Mean:</b>															<b>15</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