

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
February 2017**

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-17	45.9	12	10	27	25	13	9	1,670	3.87	4.4	58.8	14.8	6.59	74
2-Feb-17	45.8	ns	10	ns	25	ns	9	ns	ns	4.4	58.9	14.6	6.77	23
3-Feb-17	42.0	12	10	31	25	11	8	1,660	4.08	4.4	59.0	14.6	6.76	9
4-Feb-17	46.9	14	10	20	25	8	8	1,818	4.08	4.4	58.8	15.4	6.73	14
5-Feb-17	54.6	ns	10	ns	25	ns	8	ns	ns	4.4	58.4	14.9	6.66	4,300
6-Feb-17	46.2	15	10	25	25	14	8	1,649	3.49	4.4	58.2	14.3	6.83	35
7-Feb-17	44.6	11	10	12	25	8	8	1,686	3.68	4.4	57.9	14.9	6.81	43
8-Feb-17	45.0	10	10	18	25	11	8	1,692	3.53	4.4	57.9	14.5	6.74	15
9-Feb-17	43.4	ns	10	ns	25	ns	8	ns	ns	4.4	58.1	14.2	6.67	240
10-Feb-17	48.4	12	10	17	25	8	8	1,926	3.86	4.4	57.5	14.4	6.74	7
11-Feb-17	45.3	10	11	12	24	9	8	1,827	3.84	4.4	56.7	14.8	6.72	7
12-Feb-17	46.1	10	11	13	23	6	8	1,883	3.85	4.4	55.9	14.6	6.67	7
13-Feb-17	46.3	10	11	11	23	7	8	1,736	3.71	4.4	55.3	14.7	6.55	43
14-Feb-17	44.6	8	11	16	22	9	8	1,650	3.81	4.4	54.7	15.0	6.68	4
15-Feb-17	44.6	9	11	14	22	6	8	1,738	3.83	4.4	54.3	14.9	6.68	43
16-Feb-17	45.2	7	11	14	22	7	8	1,764	3.93	4.4	53.6	14.7	6.79	4
17-Feb-17	50.6	9	11	15	21	7	8	1,916	3.75	4.4	53.1	14.9	6.76	9
18-Feb-17	58.0	14	11	13	20	10	8	1,930	3.41	4.4	52.4	14.7	6.64	9
19-Feb-17	52.9	10	11	12	20	5	8	1,635	2.87	4.4	51.4	13.8	6.73	4
20-Feb-17	71.9	6	11	10	20	6	8	1,921	2.65	4.4	50.8	14.7	6.60	9
21-Feb-17	60.6	9	10	12	19	8	8	1,619	2.52	4.4	50.3	13.6	6.81	20
22-Feb-17	58.3	5	10	11	19	6	8	1,654	2.72	4.4	49.9	13.4	6.60	930
23-Feb-17	52.2	8	10	11	18	nr	8	1,561	3.02	4.4	49.7	13.7	6.78	93
24-Feb-17	50.3	7	10	nr	18	nr	8	1,555	3.18	4.4	49.3	13.9	6.72	9
25-Feb-17	50.5	8	10	11	17	5	8	1,727	3.66	4.4	48.9	14.2	6.76	<3
26-Feb-17	50.8	9	10	nr	17	nr	8	1,747	3.59	4.4	48.5	14.2	6.78	4
27-Feb-17	49.9	8	10	11	16	6	8	1,696	3.19	4.4	47.9	14.3	6.82	43
28-Feb-17	50.2	9	10	10	15	5	8	1,791	3.37	4.4	47.4	13.9	6.61	9
<b>Max:</b>	71.9													
<b>Min:</b>	42.0													
<b>Average:</b>	<b>49.7</b>	<b>10</b>		<b>15</b>		<b>8</b>		<b>1,738</b>	<b>3.50</b>			<b>14</b>	<b>6.71</b>	
<b>Total Flow:</b>	<b>1390.9</b>													
<b>Geo.Mean:</b>														<b>20</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