

City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
October 2016

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-Oct-16	49.8	14	10	20	21	9	6	1,991	4.32	4.9	42.9	19.1	6.70	150
2-Oct-16	50.7	15	10	22	22	8	6	1,927	4.20	4.9	43.1	19.2	6.62	15
3-Oct-16	49.2	12	10	22	21	8	6	1,735	3.84	4.9	43.3	19.2	6.56	300
4-Oct-16	52.3	15	10	23	21	8	6	1,835	3.64	4.9	43.7	19.0	6.52	23
5-Oct-16	68.1	9	10	21	21	7	6	1,784	2.92	4.9	43.7	18.5	6.63	240
6-Oct-16	52.4	10	10	14	21	7	6	1,665	2.78	4.9	43.7	20.0	6.67	29
7-Oct-16	56.1	10	10	15	21	7	6	1,873	3.06	4.9	43.6	17.4	6.78	93
8-Oct-16	52.2	11	11	15	21	6	6	1,749	3.28	4.9	43.5	17.8	7.44	2,400
9-Oct-16	50.7	9	11	20	21	6	6	1,715	3.56	4.9	43.4	18.2	6.65	9
10-Oct-16	52.3	12	11	22	21	6	6	1,814	3.29	4.9	43.3	18.2	6.75	9
11-Oct-16	49.3	7	11	24	21	11	7	1,618	3.08	4.9	43.2	18.3	6.65	200
12-Oct-16	47.1	9	11	25	21	6	7	1,754	3.45	4.9	43.3	18.2	6.72	15
13-Oct-16	47.1	9	11	32	21	7	7	1,755	3.70	4.9	43.2	17.5	6.70	430
14-Oct-16	47.2	6	10	33	21	6	7	1,564	3.84	4.9	43.6	18.7	6.70	93
15-Oct-16	47.7	9	11	22	21	6	7	1,774	4.08	4.9	44.1	18.5	6.75	4
16-Oct-16	51.8	16	11	24	21	9	7	1,896	4.00	4.9	44.5	18.4	6.67	15
17-Oct-16	54.5	9	11	23	21	8	7	1,582	3.57	4.9	44.3	17.9	6.71	9,300
18-Oct-16	47.3	10	11	17	21	5	7	1,632	3.12	4.9	44.5	18.3	6.94	74
19-Oct-16	47.6	8	11	20	21	5	7	1,775	3.29	4.9	44.4	18.2	6.79	93
20-Oct-16	45.9	6	10	23	21	6	7	1,819	3.81	4.9	44.7	18.2	6.88	43
21-Oct-16	48.2	7	10	19	21	6	7	1,981	4.33	4.9	45.0	18.2	6.82	43
22-Oct-16	47.7	12	11	19	20	7	7	1,785	4.03	4.9	45.2	18.1	6.52	15
23-Oct-16	80.2	12	11	22	21	6	7	1,854	2.44	4.8	44.9	16.9	6.72	430
24-Oct-16	54.2	6	10	13	21	5	7	1,774	2.57	4.7	44.8	17.7	6.66	16
25-Oct-16	51.2	7	10	16	21	4	7	1,720	2.96	4.7	44.9	18.1	6.85	23
26-Oct-16	54.4	6	10	22	21	5	7	1,783	2.83	4.6	45.0	18.2	6.68	43
27-Oct-16	51.8	7	10	24	21	5	7	1,683	2.66	4.5	44.5	18.1	6.82	21
28-Oct-16	50.7	6	10	19	21	4	7	1,643	2.87	4.4	44.2	18.3	6.72	43
29-Oct-16	51.6	10	10	23	21	6	7	1,766	3.65	4.2	43.7	18.1	6.73	<3
30-Oct-16	52.0	8	10	32	22	6	7	1,787	3.54	4.2	43.3	17.9	6.65	4
31-Oct-16	64.5	10	9	19	22	6	6	1,910	3.31	4.1	43.0	18.2	6.55	23
<b>Max:</b>	80.2													
<b>Min:</b>	45.9													
<b>Average:</b>	<b>52.4</b>	<b>10</b>		<b>21</b>		<b>6</b>		<b>1,772</b>	<b>3.42</b>			<b>18</b>	<b>6.73</b>	
<b>Total Flow:</b>	<b>1625.9</b>													
<b>Geo.Mean:</b>														<b>49</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