

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
January 2015**

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-15	41.4	11	12	24	20	12	11	1,494	3.70	4.5	44	14	6.73	9
2-Jan-15	42.7	11	12	23	21	12	12	1,581	4.04	4.5	44	14	6.53	<3
3-Jan-15	43.1	6	12	18	21	9	11	1,590	4.02	4.5	44	14	6.75	15
4-Jan-15	44.9	12	12	20	21	10	11	1,681	4.14	4.5	44	14	6.55	4
5-Jan-15	40.5	12	12	28	21	18	12	1,444	3.88	4.5	44	14	6.70	4
6-Jan-15	52.3	13	13	27	22	20	12	1,972	4.20	4.5	44	14	6.71	1,400
7-Jan-15	42.6	14	13	17	22	13	12	1,550	3.85	4.5	45	14	6.68	43
8-Jan-15	46.9	10	13	21	22	13	12	1,773	4.44	4.5	45	14	6.73	93
9-Jan-15	43.7	5	13	14	22	10	12	1,672	4.35	4.5	45	14	6.67	93
10-Jan-15	44.3	6	13	16	22	8	12	1,705	4.27	4.5	45	14	6.79	4
11-Jan-15	45.6	6	13	19	22	9	12	1,800	4.28	4.5	45	14	6.66	3
12-Jan-15	44.0	6	12	15	22	8	12	1,636	4.05	4.5	45	14	6.63	<3
13-Jan-15	43.0	8	12	13	21	9	12	1,683	4.40	4.5	45	14	6.60	9
14-Jan-15	43.1	6	12	25	22	15	13	1,626	5.06	4.6	45	14	6.81	<3
15-Jan-15	43.3	5	12	17	23	10	13	1,689	4.53	4.6	45	15	6.69	23
16-Jan-15	43.9	7	12	13	22	9	13	1,703	4.39	4.6	45	14	6.72	<3
17-Jan-15	43.9	8	12	18	22	10	13	1,760	4.60	4.6	45	14	6.50	9
18-Jan-15	44.9	11	12	19	22	11	13	1,749	4.25	4.6	45	14	6.61	<3
19-Jan-15	43.8	9	12	17	22	13	13	1,633	3.94	4.6	45	14	6.56	<3
20-Jan-15	45.0	8	12	22	22	13	13	1,713	4.14	4.6	45	15	6.39	4
21-Jan-15	43.6	11	11	21	22	10	13	1,665	4.08	4.6	45	14	6.58	9
22-Jan-15	43.0	8	11	19	22	10	13	1,627	4.10	4.6	45	14	6.67	4
23-Jan-15	45.0	7	11	17	21	9	12	1,712	4.38	4.6	46	15	6.56	43
24-Jan-15	44.9	16	10	17	21	9	12	1,622	4.16	4.5	45	14	6.58	4
25-Jan-15	45.5	13	10	20	20	9	12	1,686	3.88	4.5	45	14	6.54	3
26-Jan-15	43.4	12	10	16	20	10	12	1,555	3.65	4.5	45	14	6.52	9
27-Jan-15	42.5	8	10	14	20	8	12	1,543	3.88	4.5	45	14	6.58	9
28-Jan-15	40.5	5	9	17	19	7	11	1,482	3.87	4.5	45	14	6.56	9
29-Jan-15	42.1	12	9	20	19	8	11	1,550	4.01	4.5	45	14	6.57	4
30-Jan-15	43.7	6	9	17	19	10	11	1,509	3.92	4.5	45	14	6.65	9
31-Jan-15	44.4	8	9	15	19	9	11	1,539	3.74	4.5	45	14	6.44	46,000
<b>Max:</b>	52.3													
<b>Min:</b>	40.5													
<b>Average:</b>	<b>43.9</b>	<b>9</b>		<b>19</b>		<b>11</b>		<b>1,643</b>	<b>4.14</b>			<b>14</b>	<b>6.62</b>	
<b>Total Flow:</b>	<b>1361.5</b>													
<b>Geo.Mean:</b>														<b>10</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
- (8) Total Nitrogen results are calculated from TKN and nitrate values