

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
June 2012**

Licence 2716RR	Raw Sewage	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-Jun-12	68.3	9	9	<10	11	5	6	1,619	3.13	3.6	35	17	6.86	15
2-Jun-12	65.8	9	9	14	11	6	6	1,526	2.81	3.5	35	16	6.76	4
3-Jun-12	61.9	10	9	18	11	8	7	1,584	3.02	3.5	35	16	6.80	43
4-Jun-12	60.4	5	9	7	11	5	7	1,608	3.11	3.5	34	16	6.74	38
5-Jun-12	57.2	8	9	8	11	5	7	1,538	3.36	3.5	34	17	6.68	93
6-Jun-12	58.1	6	9	8	12	5	7	1,586	3.58	3.5	34	18	6.74	430
7-Jun-12	56.7	10	9	10	12	6	7	1,575	3.72	3.5	34	18	6.67	230
8-Jun-12	70.9	10	9	14	12	5	7	1,652	3.04	3.5	34	17	6.73	93
9-Jun-12	64.8	7	9	<10	11	4	6	1,511	2.87	3.5	33	17	6.70	150
10-Jun-12	73.4	12	8	11	11	8	6	1,643	2.75	3.5	33	18	6.69	93
11-Jun-12	80.1	4	8	5	11	4	6	1,554	2.13	3.4	33	16	6.81	93
12-Jun-12	65.6	<4	8	6	11	4	6	1,607	3.57	3.4	32	16	6.64	93
13-Jun-12	70.5	<4	8	5	11	<2	6	1,819	4.50	3.5	32	17	6.96	23
14-Jun-12	66.9	7	8	<10	11	4	6	1,645	3.48	3.4	32	17	6.70	4
15-Jun-12	60.2	6	8	11	10	5	6	1,506	3.10	3.4	32	17	6.69	23
16-Jun-12	103.8	55	9	28	11	24	6	1,651	1.82	3.4	31	17	6.79	[930]
17-Jun-12	84.0	11	10	8	11	6	6	1,571	2.07	3.3	31	16	7.03	9
18-Jun-12	75.6	4	9	5	10	3	6	1,535	2.33	3.3	31	16	6.87	9
19-Jun-12	66.8	<4	8	4	9	<2	6	1,624	2.94	3.3	31	16	6.87	[2300]
20-Jun-12	68.6	<4	8	3	9	1	5	1,640	3.01	3.3	30	17	6.79	4
21-Jun-12	63.9	5	8	<10	9	4	5	1,514	3.14	3.3	30	17	6.75	4
22-Jun-12	60.7	<4	8	5	9	2	5	1,561	3.25	3.3	30	18	6.78	23
23-Jun-12	58.0	4	8	6	9	4	5	1,567	3.46	3.3	30	17	6.69	9
24-Jun-12	56.7	7	8	8	9	4	5	1,549	3.47	3.3	30	17	6.69	43
25-Jun-12	57.9	5	8	7	9	4	5	1,605	3.52	3.3	30	17	6.63	23
26-Jun-12	56.7	7	8	10	9	6	5	1,616	3.62	3.3	30	18	6.76	93
27-Jun-12	56.1	8	8	11	9	5	5	1,633	3.50	3.4	31	18	6.67	93
28-Jun-12	55.1	10	8	11	9	7	5	1,636	3.54	3.5	31	18	6.69	230
29-Jun-12	54.0	7	8	10	9	6	5	1,598	3.83	3.5	32	18	6.62	75
30-Jun-12	49.2	5	8	7	9	4	5	1,383	3.68	3.5	32	18	6.56	23
Max:	103.8													
Min:	49.2													
Average:	64.9	8		9		5		1,588	3.18			17	6.75	
Total Flow:	1948.0													
Geo.Mean:														35

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