

**City of Winnipeg  
Water and Waste Department  
North End Water Pollution Control Centre Monitoring Data  
January 2014**

Licence 2684 RRR	Raw Sewage	Final Effluent 24 Hour Composite							Final Effluent Grab Sample			
		TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
1-Jan-14	113.7	23	21	11	3,514	4.38	5.6	41	14	6.85	9,300	750
2-Jan-14	125.0	25	22	12	4,026	4.65	5.6	41	14	7.34	430	430
3-Jan-14	129.7	21	22	12	3,878	4.50	5.5	41	14	6.90	2,300	2,300
4-Jan-14	129.5	15	21	12	3,754	4.48	5.5	41	14	6.90	9,300	930
5-Jan-14	123.4	27	nr	nr	3,653	4.42	5.5	40	14	6.72	1,500	1,500
6-Jan-14	130.5	22	23	14	3,967	4.41	5.5	40	13	6.75	2,300	2,300
7-Jan-14	131.4	22	23	10	4,441	5.12	5.5	40	13	6.86	93	93
8-Jan-14	131.2	31	23	12	4,803	5.56	5.5	41	14	6.88	43	23
9-Jan-14	132.1	28	24	12	4,677	5.34	5.5	41	14	6.83	430	150
10-Jan-14	136.1	33	24	13	4,993	5.23	5.5	41	14	6.92	230	93
11-Jan-14	132.4	39	27	15	4,820	5.64	5.6	41	15	6.76	430	430
12-Jan-14	134.9	29	60	14	4,261	4.99	5.6	41	15	7.05	93	93
13-Jan-14	137.3	21	25	13	3,681	4.25	5.6	41	14	6.65	93	93
14-Jan-14	139.8	31	29	15	4,405	4.74	5.6	41	14	6.72	3	3
15-Jan-14	138.6	41	33	18	4,601	5.10	5.6	41	13	6.91	430	430
16-Jan-14	137.3	40	33	19	4,202	4.64	5.6	41	14	6.87	150	150
17-Jan-14	138.0	44	30	17	4,031	4.38	5.6	41	14	6.75	93	93
18-Jan-14	127.5	52	34	22	3,734	4.52	5.6	41	14	6.88	930	930
19-Jan-14	126.5	45	32	20	3,604	4.26	5.6	41	14	6.85	430	430
20-Jan-14	130.7	37	34	20	3,987	3.87	5.6	41	13	6.82	230	230
21-Jan-14	131.8	42	39	22	3,902	3.92	5.6	42	13	6.91	2,300	930
22-Jan-14	116.0	40	33	22	3,513	3.80	5.6	42	13	6.74	430	430
23-Jan-14	128.3	37	29	19	3,863	2.90	5.6	42	13	6.80	930	930
24-Jan-14	134.8	35	32	19	4,004	1.37	5.6	42	14	6.77	430	430
25-Jan-14	130.0	29	32	19	3,849	2.17	5.5	42	13	6.76	750	750
26-Jan-14	129.7	21	24	17	3,747	1.08	5.4	42	13	6.78	4,300	4,300
27-Jan-14	136.8	23	24	15	3,638	1.51	5.3	41	12	6.94	930	150
28-Jan-14	120.3	20	23	15	3,105	1.72	5.2	41	13	6.95	430	230
29-Jan-14	129.2	26	28	18	3,707	2.10	5.1	41	13	6.87	7,500	930
30-Jan-14	134.6	27	25	18	3,878	1.90	5.0	41	14	6.83	2,300	930
31-Jan-14	128.6	24	29	18	3,677	1.42	4.9	41	13	6.86	430	430
<b>Max:</b>	139.8											
<b>Min:</b>	113.7											
<b>Average:</b>	<b>130.5</b>	<b>31</b>	<b>29</b>	<b>16</b>	<b>3,997</b>	<b>3.82</b>			<b>14</b>	<b>6.85</b>		
<b>Total Flow:</b>	<b>4045.8</b>											
<b>Geo.Mean:</b>											<b>529</b>	<b>340</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 380 ML/D per clause 26 of Licence 2684RRR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant
- (8) Total Nitrogen results are calculated from TKN and nitrate values