

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

**November 2021**

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(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-Nov-21	137.8	15	28	9	4,616	4.62	4.8	46.9	18.2	6.78	20	30		
2-Nov-21	138.3	17	29	9	4,661	5.10	4.8	47.0	17.9	6.81	330	40		
3-Nov-21	135.8	14	33	9	4,522	4.82	4.8	47.1	17.9	6.75	90	150		
4-Nov-21	137.5	14	23	9	4,689	4.73	4.8	46.8	18.2	6.75	120	130		
5-Nov-21	137.1	14	20	9	4,853	4.90	4.8	46.9	18.3	6.78	220	170		
6-Nov-21	137.4	13	17	8	4,699	4.82	4.8	46.8	18.5	6.79	750	990		
7-Nov-21	137.8	14	20	10	4,740	4.31	4.8	46.4	18.4	6.74	190	340		
8-Nov-21	128.2	12	17	8	3,987	3.58	4.8	46.0	18.5	6.70	50	40		
9-Nov-21	133.2	14	17	7	4,649	4.37	4.8	46.6	18.0	6.73	110	100		
10-Nov-21	227.8	56	44	21	5,399	3.25	4.9	47.0	17.9	6.70	230	400		
11-Nov-21	391.1	49	41	20	4,419	1.24	4.8	46.1	10.2	7.03	>24,200	>24,200		
12-Nov-21	196.4	10	9	6	3,201	1.64	4.8	45.4	12.7	6.77	260	210		
13-Nov-21	174.8	8	9	5	3,496	2.37	4.8	45.6	14.8	6.69	90	40		
14-Nov-21	164.8	10	14	6	4,120	3.08	4.8	45.2	16.1	6.76	100	100		
15-Nov-21	165.6	10	15	5	4,074	3.29	4.8	44.8	15.8	6.71	210	60		
16-Nov-21	186.4	12	17	6	4,884	3.30	4.8	44.3	15.9	6.73	90	100		
17-Nov-21	173.4	7	24	5	4,318	3.02	4.8	43.7	15.8	6.70	30	10		
18-Nov-21	155.7	7	15	5	4,422	3.52	4.7	43.5	15.9	6.78	<10	<10		
19-Nov-21	149.0	7	13	5	4,604	3.71	4.7	43.4	16.2	6.80	80	140		
20-Nov-21	145.6	6	13	5	4,601	3.60	4.7	43.4	16.4	6.85	40	40		
21-Nov-21	139.2	8	16	6	4,301	3.73	4.7	43.2	16.1	6.80	20	20		
22-Nov-21	139.8	8	14	nr	4,138	3.76	4.6	43.0	16.3	6.75	10	<10		
23-Nov-21	139.8	8	16	6	4,669	4.14	4.6	42.9	16.5	6.75	40	20		
24-Nov-21	137.2	8	14	6	4,596	4.36	4.6	42.6	16.5	6.78	20	40		
25-Nov-21	127.9	10	16	6	4,182	4.05	4.5	42.1	16.1	6.82	20	30		
26-Nov-21	134.4	8	15	5	4,476	4.22	4.5	41.8	16.1	6.80	20	10		
27-Nov-21	136.8	7	19	6	4,624	3.66	4.6	42.0	16.4	6.81	20	30		
28-Nov-21	130.1	12	26	6	4,540	2.65	4.5	41.8	16.4	6.76	20	10		
29-Nov-21	134.9	8	19	6	4,546	3.32	4.5	41.3	16.5	6.74	80	90		
30-Nov-21	140.9	13	24	6	5,439	3.59	4.4	40.8	16.1	6.80	90	110		
<b>Max:</b>	391.1													
<b>Min:</b>	127.9													
<b>Average:</b>	<b>157.2</b>	<b>13</b>	<b>20</b>	<b>8</b>	<b>4,482</b>	<b>3.69</b>			<b>16.5</b>	<b>6.77</b>				
<b>Total Flow:</b>	<b>4,714.7</b>										<b>76</b>	<b>67</b>		
<b>Geo.Mean:</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) 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