

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

October 2021

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-21	48.7	4	10	16	15	6	4	2,067	3.87	4.3	49.5	19.7	6.63	90	
2-Oct-21	48.8	10	11	17	15	5	4	2,001	3.66	4.3	49.8	20.1	6.67	30	
3-Oct-21	50.1	11	11	19	15	6	4	2,073	4.29	4.4	49.8	19.2	6.60	40	
4-Oct-21	49.9	12	11	17	15	6	5	1,981	3.79	4.4	49.9	19.2	6.61	20	
5-Oct-21	48.7	10	11	14	15	6	5	1,981	3.62	4.4	50.2	19.3	6.67	170	
6-Oct-21	49.3	11	11	17	15	8	5	2,056	3.65	4.4	50.5	19.4	6.66	20	
7-Oct-21	48.7	7	11	13	15	6	5	2,047	3.91	4.4	51.0	19.4	6.76	50	
8-Oct-21	49.3	14	11	15	15	9	5	2,208	4.13	4.4	51.4	18.9	6.75	110	
9-Oct-21	49.1	9	11	14	14	9	5	1,978	3.95	4.5	51.8	19.9	6.65	320	
10-Oct-21	80.8	84	13	52	15	>35	6	2,358	2.83	4.5	52.1	18.9	6.66	150	
11-Oct-21	60.0	8	13	11	15	6	6	1,735	1.77	4.4	51.9	18.1	6.65	120	
12-Oct-21	52.8	8	13	10	15	6	6	1,842	2.91	4.3	51.9	18.3	6.76	40	
13-Oct-21	57.4	8	13	11	14	6	6	2,102	3.16	4.3	52.2	18.2	6.74	30	
14-Oct-21	75.1	7	13	8	14	4	6	2,409	1.46	4.3	51.9	18.7	6.75	<10	
15-Oct-21	57.7	7	13	7	14	4	6	1,972	2.14	4.2	52.0	18.0	6.72	20	
16-Oct-21	56.2	5	12	nr	14	nr	6	1,748	2.92	4.2	52.2	18.4	6.74	<10	
17-Oct-21	55.4	5	12	17	15	4	6	2,061	3.49	4.2	52.4	18.5	6.70	<10	
18-Oct-21	54.2	8	12	15	15	4	6	2,012	3.52	4.2	52.4	18.5	6.64	10	
19-Oct-21	53.1	9	12	13	15	5	6	2,001	3.12	4.1	52.3	18.2	6.75	<10	
20-Oct-21	52.0	8	12	12	15	5	6	2,097	3.19	4.1	52.3	18.3	6.85	<10	
21-Oct-21	51.5	7	12	15	16	6	7	2,090	3.42	4.1	52.2	18.2	6.75	<10	
22-Oct-21	51.5	9	12	13	16	7	7	2,144	3.33	4.1	52.2	18.2	6.72	<10	
23-Oct-21	52.0	5	11	14	16	7	7	2,136	3.62	4.0	52.3	18.1	6.79	20	
24-Oct-21	53.0	9	11	14	16	11	7	2,160	4.21	4.0	52.2	18.0	6.76	50	
25-Oct-21	52.3	12	11	17	16	13	7	2,082	6.31	4.1	52.4	18.0	6.71	1,110	
26-Oct-21	53.1	12	12	13	15	10	7	2,106	2.26	4.0	52.6	17.8	6.76	90	
27-Oct-21	63.3	10	11	12	15	9	8	2,398	3.23	4.0	52.7	17.7	6.73	40	
28-Oct-21	56.9	8	11	10	15	6	8	2,195	2.96	3.9	52.6	17.2	6.66	10	
29-Oct-21	52.8	7	11	9	15	6	8	2,075	3.04	3.9	52.9	17.5	6.74	20	
30-Oct-21	53.5	9	11	10	15	6	8	2,156	3.31	3.8	53.0	18.0	6.84	10	
31-Oct-21	52.9	7	11	15	15	5	8	2,026	3.47	3.8	53.2	17.6	6.66	50	
Max:	80.8														
Min:	48.7														
Average:	54.5	11		15		8		2,074	3.37			18.5	6.71		
Total Flow:	1,689.9														
Geo.Mean:														29	

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