

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

November 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
Date	Raw Sewage Daily Flow ML**													
1-Nov-21	50.0	9	11	15	15	8	8	1,946	3.31	3.8	53.1	17.7	6.66	20
2-Nov-21	49.7	12	11	15	14	8	8	1,938	3.06	3.8	53.1	17.6	6.70	20
3-Nov-21	49.8	10	11	16	14	8	8	1,889	2.84	3.7	53.1	17.5	6.72	50
4-Nov-21	49.5	10	11	18	15	7	8	1,885	3.07	3.7	52.9	18.0	6.76	230
5-Nov-21	48.1	9	11	15	14	7	8	1,891	3.17	3.7	53.0	17.6	6.70	20
6-Nov-21	47.6	11	11	15	15	7	8	1,915	3.05	3.7	53.0	17.8	6.77	40
7-Nov-21	49.9	10	11	16	15	8	8	1,969	3.61	3.7	52.8	17.7	6.72	<10
8-Nov-21	46.5	9	11	16	15	7	8	1,772	2.79	3.7	52.4	17.5	6.65	20
9-Nov-21	45.9	11	9	14	13	8	7	1,832	2.53	3.6	52.3	17.5	6.75	40
10-Nov-21	50.5	10	9	16	13	10	7	1,978	3.35	3.7	52.6	17.4	6.72	60
11-Nov-21	80.7	ns	9	ns	14	ns	7	ns	ns	3.7	52.6	15.8	6.79	60
12-Nov-21	61.0	17	9	23	14	11	7	1,842	1.60	3.7	52.0	16.0	6.89	200
13-Nov-21	57.7	10	9	13	14	7	7	1,811	2.02	3.7	51.9	16.1	6.83	230
14-Nov-21	57.2	9	9	13	14	7	7	1,927	2.91	3.7	51.5	16.6	6.86	20
15-Nov-21	55.6	9	9	9	14	5	7	1,812	3.69	3.7	51.1	16.8	6.70	90
16-Nov-21	53.2	9	9	9	14	5	7	1,900	2.86	3.7	50.7	16.8	6.67	10
17-Nov-21	55.1	7	9	11	14	4	7	1,924	2.74	3.7	50.2	16.3	6.71	10
18-Nov-21	52.7	9	9	15	14	5	7	1,945	3.93	3.7	50.3	16.3	6.86	<10
19-Nov-21	55.8	10	9	12	14	5	7	2,037	3.54	3.8	50.3	16.4	6.84	<10
20-Nov-21	54.6	10	10	16	14	5	7	1,989	3.55	3.8	50.4	16.2	6.90	<10
21-Nov-21	54.9	8	9	19	14	6	7	1,959	3.64	3.8	50.2	15.6	6.85	10
22-Nov-21	54.5	14	10	22	14	nr	7	2,005	4.36	3.8	50.0	16.4	6.67	10
23-Nov-21	51.2	10	10	18	15	8	7	1,858	2.72	3.8	49.8	16.4	6.67	10
24-Nov-21	50.4	9	10	17	15	6	7	1,916	3.08	3.7	49.4	16.1	6.71	30
25-Nov-21	49.9	14	10	18	15	6	7	1,938	3.45	3.7	48.9	16.1	6.70	<10
26-Nov-21	49.9	13	10	19	15	8	7	1,964	4.05	3.8	48.7	16.1	6.70	<10
27-Nov-21	49.6	14	10	19	15	8	7	1,939	3.94	3.8	48.6	15.8	6.85	30
28-Nov-21	50.6	10	10	22	16	9	7	1,958	3.81	3.9	48.2	16.0	6.82	60
29-Nov-21	49.3	11	10	23	16	8	7	1,820	3.45	3.9	47.7	16.2	6.70	80
30-Nov-21	47.8	9	10	17	16	6	7	1,877	3.75	3.9	47.6	16.2	6.72	20
Max:	80.7													
Min:	45.9													
Average:	52.6	10		16		7		1,912	3.24			16.7	6.75	
Total Flow:	1,579.2													
Geo.Mean:														23

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