

2020 Fort Frances Wastewater

Month	Sewage Flows Year 2020							Usage	Calculated	Sludge		Removal Efficiency		
	Avg. Day Flow m3	Max Day Flow m3	Total Treated Volume ML	Total ByPass Volume ML	Total Volume ML	% Plant Capacity	Volume Hauled			Bins Hauled	Suspended Solids	CBOD5	Total Phosphorus	
January	5733.8	6060	177747		177747	64%	M3	113.2	12			0.960994637		
February	5477.0	5861	158832		158832	61%		108.2	11			0.971077505		
March	5852.1	8845	181415		181415	65%		117.1	12					
April	8705.3	12162	261159		261159	97%		149.3	15					
May	6468.6	7612	200528		200528	72%		124.4	12					
June	6308.4	10580	189252		189252	70%		131	13					
July	5376.8	6039	166681		166681	60%		110.5	11					
August						0%								
September						0%								
October						0%								
November						0%								
December						0%								
Sum				0	1335614			853.7	86					
Average	6275		190802		190802	62%		122.0	12.3					
Max		12162	261159		261159				15					
ECA	9000	18000												

Month	BOD5/CBOD5				Suspended Solids				Total Phosphorus				Nitrogen			E. Coli		pH	
	Avg. Raw	Avg. Eff.	Avg. Load		Avg. Raw	Avg. Eff.	Avg. Load		Avg. Raw	Avg. Eff.	Avg. Load		Avg. Raw	Avg. Eff.	Geo Mean		Monthly	Monthly	
	BOD (mg/L)	CBOD (mg/L)	CBOD (kg/day)	S.S (mg/L)	S.S (mg/L)	S.S (mg/L)	S.S (kg/day)	T.P (mg/L)	T.P (mg/L)	T.P (mg/L)	T.P (kg/day)	TKN (mg/L)	Total N (mg/L)	Counts /100ml	Minimum	Maximum	Minimum	Maximum	
January	92.6	2.9	16.4	167.8	4.9	28.2		2.59	0.14	0.82		16.2	12.5	44.6	6.3	6.6			
February	112.0	9.0	15.9	163.1	5.0	27.2		3.38	0.12	0.67		16.4	13.0	22.1	6.4	7.5			
March	99.2	2.6	16.2	149.8	5.3	31.4		2.88	0.11	0.68		21.9	12.4	33.1	7.0	7.6			
April	69.8	2.9	24.2	106.4	5.1	45.8		1.88	0.11	0.96		14.5	10.1	49.0	7.0	7.4			
May	75.8	2.2	14.2	133.1	3.9	25.2		1.90	0.10	0.63		16.2	12.3	14.1	7.0	7.3			
June	79.6	2.3	13.7	154.9	3.8	23.7		1.59	0.13	0.81		17.5	12.5	15.2	6.9	7.2			
July	86.3	2.1	11.5	182.9	2.6	14.1		2.34	0.11	0.61		19.3	8.1	10.0	6.9	7.1			
August																			
September																			
October																			
November																			
December																			
Average	87.9	3.4	16.0	151.1	4.4	27.9		2.3	0.12	0.74		17.4	11.6	26.9	6.8	7.2			
Max	112	9	24.2	182.9	5.3	45.8		3.4	0.14	0.96		21.9	13	49	7	7.6			
ECA		25	225		25	225			1.0	9.0				200	6.0	9.5			