

**Town of Fort Frances - Water treatment Plant - Water Works # 220000978  
Monitoring Record  
September 2018**

Operating Data		Units	MAC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total
or Range																																		
Flow rates	Raw Water	10m³ M³/s	17	6.21	6.63	6.45	6.41	6.32	6.84	6.37	6.43	6.58	6.20	6.61	6.45	6.46	6.45	6.56	6.46	6.09	6.51	6.35	5.56	5.68	5.53	5.61	5.61	5.45	5.65	5.55	6.20	5.72	5.63	188.37
	Peak instantaneous - Raw Water	L/s	n/a	75.50	76.66	75.48	75.39	75.32	75.25	75.22	75.23	75.28	75.08	75.20	75.03	75.23	75.23	75.20	75.11	74.71	74.86	74.68	74.62	65.38	65.26	64.40	65.41	64.96	64.81	64.98	n/a	65.69	65.44	2089.58
	Treated Water	10m³ M³/s	17	3.21	3.24	3.15	3.40	3.61	3.71	3.49	3.89	3.42	3.83	3.31	4.59	3.63	3.43	3.42	3.43	3.34	3.56	3.39	3.25	3.56	3.12	3.39	3.78	3.25	3.42	3.44	3.14	3.49	3.25	104.13
	Peak instantaneous - Treated Water	L/s	82.02	80.26	79.44	80.26	84.97	88.95	86.73	90.81	81.46	81.72	81.02	80.53	83.29	81.36	81.49	81.45	83.94	82.30	81.34	81.34	80.59	82.21	81.40	80.82	80.16	81.87	81.75	n/a	81.64	79.46	2366.02	
Backwash Water	10m³ M³/s	n/a	0.237	0.000	0.283	0.271	0.000	0.000	0.000	0.241	0.280	0.268	0.233	0.282	0.288	0.283	0.286	0.266	0.231	0.279	0.266	0.218	0.234	0.270	0.245	0.280	0.245	0.282	0.000	0.000	0.261	0.233	6.537	
Fluoride information																																		
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.63	0.63	0.63	0.64	0.63	0.64	0.64	0.64	0.65	0.64	0.64	0.65	0.65	0.65	0.67	0.66	0.66	0.69	0.69	0.69	0.69	0.68	0.67	0.67	0.67	0.66	0.66	0.67	0.67	0.66	19.74	
Turbidity information																																		
Raw Water	NTU	n/a	1.88	1.89	1.73	1.80	1.90	1.71	1.87	1.69	1.72	1.87	1.82	1.77	1.72	1.83	1.85	1.75	1.71	1.68	1.75	1.84	1.79	1.75	1.90	1.93	1.87	1.82	1.79	1.66	1.62	1.76	53.67	
Settled Water	NTU	n/a	0.09	0.10	0.10	0.11	0.10	0.12	0.13	0.12	0.11	0.10	0.10	0.10	0.11	0.10	0.09	0.12	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.11	0.10	0.10	0.11	0.10	3.16	
Treated Water	NTU	1	0.05	0.05	0.05	0.04	0.05	0.05	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.06	0.06	0.07	0.06	0.06	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.04	1.68	
Other Operating Parameters																																		
pH - Treated Water	no units	6.5 to 8.5	6.87	6.85	6.87	6.87	6.91	6.97	7.01	7.00	7.09	7.04	6.89	6.91	6.97	6.90	7.01	7.00	6.89	6.93	6.99	6.91	6.93	6.99	7.01	6.94	7.00	6.99	6.99	7.04	6.98	6.92	208.65	
pH - Settled water	no units	n/a	6.11	6.07	6.09	6.08	6.11	6.06	6.09	6.08	6.08	6.07	6.07	6.07	6.13	6.24	6.07	6.25	6.22	6.10	6.11	6.09	6.06	6.07	6.08	6.10	6.10	6.04	6.08	6.10	6.14	6.10	6.05	183.02
pH - Raw Water	no units	n/a	7.03	7.03	7.03	7.04	7.09	7.13	7.09	7.08	7.08	7.21	7.17	7.23	7.15	7.07	7.08	7.15	7.14	7.13	7.06	7.18	7.18	7.18	7.19	7.17	7.15	7.17	7.19	7.18	7.14	7.09	7.34	67.87
FAC - Treated Water	mg/l	0.2 to 0.4	2.38	2.38	2.34	2.48	2.42	2.29	2.12	2.22	2.19	2.22	2.19	2.24	2.19	2.20	2.13	2.08	2.15	2.15	2.15	2.16	2.11	2.28	2.28	2.36	2.40	2.42	2.40	2.30	2.19	2.34	2.32	67.87
Total Chlorine Residual Treated	mg/l	0.3 to 0.7	2.56	2.62	2.48	2.60	2.66	2.48	2.26	2.26	2.26	2.46	2.34	2.42	2.44	2.40	2.36	2.28	2.26	2.26	2.32	2.36	2.54	2.52	2.60	2.64	2.62	2.60	2.58	2.38	2.62	2.68	74.10	
Temperature	C	15	20.0	21.0	20.0	20.0	20.0	19.0	20.0	20.0	20.0	19.0	19.0	19.0	19.0	20.0	19.0	20.0	20.0	19.0	19.0	19.0	18.0	17.0	11.0	14.0	15.0	15.0	14.0	14.0	13.0	13.0	532.0	
Fluoride used (Total Daily Consumption)	kg	n/a	22.0	23.0	22.0	22.0	21.0	22.0	21.0	23.0	22.0	21.0	23.0	22.0	21.0	20.0	23.0	23.0	23.0	22.0	25.0	23.0	21.0	20.0	19.0	21.0	21.0	20.0	20.0	21.0	20.0	20.0	846.0	
Chlorine used (Total Daily Consumption)	kg	n/a	32.0	36.0	34.0	34.0	32.0	29.0	30.0	31.0	31.0	29.0	30.0	31.0	30.0	30.0	31.0	31.0	29.0	31.0	29.0	26.0	27.0	26.0	26.0	25.0	25.0	27.0	25.0	22.0	26.0	26.0	871.0	
Soda ash (Total Daily Consumption)	kg	n/a	217.4	232.1	225.8	224.4	221.2	232.4	223.0	225.1	230.3	217.0	231.4	225.8	226.1	225.8	229.6	226.1	213.2	227.9	222.3	194.5	198.8	193.6	196.4	196.4	190.8	197.8	194.3	182.0	200.2	197.1	6418.0	
Soda Ash - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1060.0		
Alum residual - (Total Daily Consumption)	kg	n/a	217.4	232.1	225.8	224.4	221.2	232.4	223.0	225.1	230.3	217.0	231.4	225.8	226.1	225.8	229.6	226.1	213.2	227.9	222.3	194.5	198.8	193.6	196.4	196.4	190.8	197.8	194.3	182.0	200.2	197.1	6418.0	
Alum residual - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1060.0		
Alum residual - Treated Water	mg/l	0.1	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.01	0.03	0.01	0.01	0.01	0.01	0.04	0.03	0.07	0.05	0.03	0.03	0.04	0.01	0.07	0.01	0.01	0.01	0.01	0.03	0.02	0.07	0.48	
Poly bags added (25 kg bags)	kg		0.5						0.5																	0.5							87.5	