

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
February 2017

Operating Data	Units	*MAC or Range	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	Total	Average
Flow rates																																	
Raw Water	10^3 M^3	17	5.55	5.30	5.49	5.60	5.42	5.22	5.42	5.42	5.45	5.35	5.28	5.39	5.50	5.37	5.33	5.32	5.38	4.30	5.50	5.23	5.26	5.64	5.38	5.34	5.55	5.47	5.16	5.39		150.01	5.36
Peak Instantaneous - Raw Water	L/s	n/a	63.35	63.21	63.26	63.21	63.19	63.07	63.16	63.06	63.05	63.10	62.99		62.96	62.95	62.80	63.10	63.13	62.98	63.01	62.90	62.97	62.93	62.85	62.92	62.82	62.79	62.75	62.77		1701.28	63.01
Treated Water	10^3 M^3	17	3.56	3.49	3.70	3.51	3.68	3.66	3.63	3.61	3.72	3.70	3.38	3.59	3.96	3.72	3.66	3.77	3.68	3.55	3.72	3.54	3.35	3.90	3.68	3.58	3.88	4.30	4.03	4.13		103.68	3.70
Peak Instantaneous - Treated Water	L/s	n/a	80.96	92.81	81.58	80.70	80.95	79.29	80.98	81.08	80.07	80.44	78.77		79.83	81.37	82.67		81.69	87.91	81.87	79.52	79.96	96.39	80.65	81.22	81.94	82.95	82.74	83.83		2142.17	82.39
BackWash Water	10^3 M^3	n/a		0.718	0.721	0.718			0.715	0.533	0.452	0.274	0.186			0.261	0.274	0.280	0.266	0.273					0.718		0.715			0.685		7.79	0.487
Fluoride Information																																	
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.510	0.540	0.530	0.550	0.520	0.540	0.500	0.510	0.530	0.500	0.530	0.530	0.540	0.580	0.550	0.530	0.590	0.600	0.600	0.620	0.610	0.630	0.660	0.550	0.580	0.580	0.570	0.600		15.68	0.56
Turbidity Information																																	
Raw Water	NTU	n/a	0.81	0.76	0.69	0.72	0.77	0.74	0.77	0.82	0.86	0.78	0.76	0.71	0.80	0.73	0.82	0.80	0.77	0.80	0.83	0.87	0.82	0.88	0.84	0.91	0.94	0.92	0.87	0.91		22.70	0.81
Settled Water	NTU	n/a	0.18	0.17	0.15	0.14	0.13	0.14	0.17	0.16	0.14	0.19	0.17	0.17	0.19	0.21	0.19	0.17	0.20	0.18	0.16	..16	0.17	0.15	0.17	0.18	0.19	0.19	0.18	0.16		4.60	0.17
Treated Water	NTU	1	0.09	..1	0.12	0.10	0.10	0.10	0.09	0.11	0.09	0.10	0.09	0.10	0.12	0.13	0.14	0.14	0.13	0.10	0.09	0.08	0.08	0.11	0.13	0.12	0.13	0.12	0.14	0.12		2.97	0.11
Other Operating Parameters																																	
pH - Treated Water	no units	6.5 to 8.5	7.22	7.23	7.23	7.25	7.17	7.25	7.28	7.11	7.19	7.05	7.03	7.05	7.15	7.12	7.21	7.19	7.17	7.21	7.24	7.27	7.28	7.21	7.09	7.15	7.2	7.22	7.20	7.28		201.25	7.19
pH - Settled water	no units	n/a	6.88	6.87	6.60	6.71	6.66	6.76	6.81	6.71	6.83	6.90	6.78	6.87	6.76	6.74	6.76	6.65	6.75	6.69	6.72	6.74	6.77	6.71	6.73	6.77	6.66	6.69	6.55	6.75		188.82	6.74
pH - Raw Water	no units	n/a	7.22	7.32	7.25	7.19	7.15	7.19	7.21	7.03	7.10	7.02	7.03	7.10	7.10	7.13	7.14	7.21	7.15	7.20	7.16	7.19	7.12	7.09	7.12	7.19	7.12	7.15	7.19	7.22		200.29	7.15
FAC - Treated Water	mg/l	0.2 to 4	2.20	2.26	2.11	2.03	2.03	2.38	2.14	2.10	2.15	2.14	2.09	2.05	2.08	2.18	2.15	2.24	2.18	2.16	2.68	2.07	2.04	2.10	2.18	2.12	2.08	2.01	2.00	2.28		60.23	2.15
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.32	2.40	2.28	2.20	2.21	2.36	2.42	2.40	2.44	2.50	2.36	2.32	2.40	2.44	2.36	2.42	2.36	2.38	2.36	2.28	2.18	2.20	2.50	2.48	2.38	2.20	2.26	2.56		65.97	2.36
Temperature	C	15	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		75.0	2.68
Fluoride used (Total Daily Consumption)	kg	n/a	17.0	16.0	17.0	17.0	17.0	16.0	10.0	10.0	11.0	12.0	12.0	13.0	12.0	12.0	13.0	14.0	18.0	22.0	22.0	21.0	21.0	21.0	21.0	22.0	21	20.0	19.0	20.0		467.0	16.68
Chlorine used (Total Daily Consumption)	kg	n/a	21.0	21.0	20.0	20.0	20.0	20.0	21.0	20.0	20.0	21.0	19.0	20.0	21.0	20.0	20.0	23.0	21.0	19.0	21.0	20.0	19.0	21.0	20.0	21.0	21.0	20.0	19.0	22.0		571.0	20.39
Soda ash (Total Daily Consumption)	kg	n/a	194.3	185.5	192.2	196.0	189.7	182.7	189.7	189.7	190.8	187.3	184.8	188.7	192.5	188.0	186.6	186.2	188.3	150.5	192.5	183.1	184.1	197.4	188.3	186.9	194.3	191.5	180.6	188.7		5250.4	187.51
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		980.0	35.00
Alum residual - (Total Daily Consumption)	kg	n/a	194.3	185.5	192.2	196.0	189.7	182.7	189.7	189.7	190.8	187.3	184.8	188.7	192.5	188.0	186.6	186.2	188.3	150.5	192.5	183.1	184.1	197.4	188.3	186.9	194.3	191.5	180.6	188.7		5250.4	187.51
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		980.0	35.00
Alum residual - Treated Water	mg/l	0.1	0.05	0.06	0.04	0.05	0.04	0.07	0.05	0.07	0.07	0.06	0.05	0.02	0.06	0.05	0.05	0.05	0.06	0.04	0.06	0.07	0.04	0.04	0.05	0.04	0.01	0.0	0.06	0.05		1.38	0.05
Poly bags added (25 kg bags)	kg		0.5						0.5			0.5				0.5							0.5						0.5			75.0	

Maximum Minimum

5.64	4.30
63.35	62.75
4.30	3.35
96.39	78.77
0.721	0.186

0.56 Fluoride - Treated Water

7.19 PH - Adjusted

2.36 Total Chlorine Residual - Treated Water

0.05 Aluminum Sulphate - Treated Water