

Town of Fort Frances - Water treatment Plant - Water Works # 220000878  
Monitoring Record  
January 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	30	31	Total	Average
Flow rates																																					
Raw Water	10 <sup>3</sup> M <sup>3</sup>	17	5.53	5.44	5.47	5.38	5.50	5.47	5.58	5.46	5.41	5.51	5.36	5.56	5.45	5.64	5.59	5.14	5.47	5.40	5.50	5.47	5.38	5.44	5.48	5.35	5.46	5.48	5.37	5.44	5.56	5.30	5.28	168.93	5.45		
Peak Instantaneous - Raw Water	L/s	n/a	63.69	63.61	63.68	63.58	64.13	64.13	64.12	64.13	64.10	64.25	64.04	63.94	63.95	63.88	63.80	63.81	63.76	63.65	63.60	63.58	63.58	63.60	63.56	63.57	64.45	63.52	63.39	63.38	63.36	63.28	63.29	1912.47	63.75		
Treated Water	10 <sup>3</sup> M <sup>3</sup>	17	3.89	3.46	3.47	3.57	4.13	3.74	3.50	3.80	3.89	3.80	3.61	3.78	3.66	3.86	3.95	3.92	3.79	3.66	3.75	3.69	3.49	3.72	3.81	3.52	3.46	3.82	3.65	3.61	3.66	3.70	3.42	114.55	3.70		
Peak Instantaneous - Treated Water	L/s	n/a	82.34	79.46	80.15	78.97	81.84	79.27	80.32	81.99	81.04	80.82	80.78	80.32	81.51	81.55	80.44	82.28	80.73	80.67	81.12	81.47	82.25	80.33	81.40	79.26	81.43	81.04	80.34	81.60	80.78	80.40	2425.88	80.86			
BackWash Water	10 <sup>3</sup> M <sup>3</sup>	n/a		0.273		0.196		0.218					0.271	0.196		0.655			0.702		0.241	0.271	0.196			0.242	0.272	0.526	0.262	0.961				5.462	0.365		
Fluoride Information																																					
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.54	0.52	0.54	0.54	0.52	0.54	0.54	0.54	0.53	0.52	0.55	0.53	0.59	0.55	0.52	0.64	0.53	0.52	0.52	0.56	0.50	0.50	0.55	0.59	0.57	0.52	0.54	0.54	0.50	0.58	16.75	0.54			
Turbidity Information																																					
Raw Water	NTU	n/a	1.11	1.02	0.96	0.94	0.96	0.91	0.90	0.92	0.96	1.01	0.93	0.81	0.79	0.77	0.71	0.77	0.78	0.71	0.68	0.73	0.72	0.69	0.76	0.80	0.78	0.76	0.81	0.76	0.61	0.77	0.74	25.77	0.83		
Settled Water	NTU	n/a	0.19	0.20	0.18	0.16	0.18	0.16	0.18	0.16	0.16	0.17	0.16	0.17	0.14	0.13	0.12	0.14	0.15	0.15	0.17	0.14	0.17	0.16	0.17	0.19	0.21	0.24	0.20	0.19	0.17	0.18	0.17	5.26	0.17		
Treated Water	NTU	1	0.10	0.10	0.08	0.08	0.08	0.05	0.07	0.06	0.07	0.10	0.12	0.11	0.10	0.11	0.09	0.11	0.10	0.11	0.11	0.10	0.09	0.10	0.11	0.10	0.09	0.10	0.09	0.08	0.08	0.10	0.10	2.89	0.09		
Other Operating Parameters																																					
pH - Treated Water	no units	6.5 to 8.5	7.25	7.24	7.28	7.32	7.34	7.32	7.34	7.27	7.24	7.26	7.24	7.24	7.23	7.20	7.23	7.23	7.22	7.24	7.19	7.20	7.21	7.21	7.22	7.21	7.22	7.21	7.22	7.24	7.26	7.22	7.22	224.50	7.24		
pH - Settled water	no units	n/a	6.72	6.83	6.69	6.64	6.68	6.67	6.71	6.71	6.9	6.81	6.85	6.81	6.78	6.71	6.77	6.85	6.88	6.84	6.89	6.87	6.77	6.82	6.89	6.83	6.94	6.79	6.64	6.69	6.69	6.85	6.92	210.44	6.79		
pH - Raw Water	no units	n/a	7.24	7.23	7.26	7.21	7.19	7.16	7.20	7.24	7.26	7.28	7.27	7.25	7.26	7.19	7.15	7.23	7.25	7.26	7.23	7.21	7.23	7.21	7.21	7.26	7.20	7.29	7.24	7.22	7.20	7.26	224.09	7.23			
FAC - Treated Water	mg/l	0.2 to 4	2.11	2.13	2.07	2.10	2.13	2.18	2.28	2.23	2.20	2.22	2.22	2.22	2.30	2.36	2.40	2.37	2.34	2.36	2.24	2.26	2.28	2.22	2.28	2.26	2.26	2.32	2.26	2.44	2.36	2.24	2.22	69.88	2.25		
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.28	2.32	2.28	2.32	2.4	2.34	2.48	2.52	2.48	2.48	2.46	2.5	2.52	2.55	2.58	2.46	2.52	2.44	2.48	2.38	2.42	2.5	2.38	2.48	2.42	2.56	2.48	2.68	2.64	2.56	2.44	74.00	2.46		
Temperature	C	15	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	77.0	2.5		
Fluoride used (Total Daily Consumption)	kg	n/a	19.0	18.00	19.0	17.0	18.0	18.0	17.0	17.0	17.0	17.0	17.0	17.0	18.0	20.0	19.0	18.0	18.0	19.0	18.0	18.0	18.0	18.0	18.0	18.0	17.0	17.0	17.0	17.0	18.0	17.0	16.0	553.0	17.8		
Chlorine used (Total Daily Consumption)	kg	n/a	20.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	22.0	21.0	21.0	21.0	21.0	22.0	22.0	20.0	20.0	22.0	22.0	20.0	21.0	20.00	21.0	21.0	20.0	21.0	21.0	21.0	22.0	20.0	647.0	20.9			
Soda ash (Total Daily Consumption)	kg	n/a	193.6	190.4	191.5	187.6	192.5	191.5	195.3	191.1	189.4	192.9	187.6	194.6	190.8	197.4	195.7	179.9	191.5	189.0	192.5	191.5	187.6	190.4	191.8	187.3	191.1	191.8	188.0	190.4	194.6	185.5	184.8	5909.1	190.6		
Soda Ash - Dosage	mg/l	n/a	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	1050.0	35.0		
Alum residual - (Total Daily Consumption)	kg	n/a	193.6	190.4	191.5	187.6	192.5	191.5	195.3	191.1	189.4	192.9	187.6	194.6	190.8	197.4	165.7	179.9	191.5	189.0	192.5	191.5	187.6	190.4	191.8	187.3	191.1	191.8	188.0	190.4	194.6	185.5	184.8	5909.1	190.6		
Alum residual - Dosage	mg/l	n/a	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	1050.0	35.0		
Alum residual - Treated Water	mg/l	0.1	0.04	0.05	0.04	0.04	0.02	0.02	0.02	0.01	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.04	0.05	0.05	0.03	0.04	0.04	0.04	0.06	0.06	0.04	0.02	0.04	0.04	1.15	0.04		
Poly bags added (25 kg bags)	kg															0.5										0.5		0.5						75.0			