

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
May 2020

| 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 | Maximum | Minimum | |
|---|--|----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|--|
| Flow rates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Raw Water | | 10^3 M^3 | 17 | 5.30 | 5.29 | 5.38 | 5.30 | 5.31 | 5.33 | 5.36 | 5.07 | 5.31 | 5.19 | 5.09 | 5.22 | 5.20 | 5.10 | 5.31 | 5.11 | 5.21 | 5.21 | 5.33 | 5.20 | 5.21 | 5.24 | 4.91 | 5.22 | 5.34 | 5.39 | 5.23 | 5.17 | 5.33 | 5.41 | 5.18 | 162.45 | 5.24 | 5.41 | 4.91 | |
| Peak Instantaneous - Raw Water | | L/s | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | #DIV/0! | 0.00 | 0.00 | | |
| Treated Water | | 10^3 M^3 | 17 | 3.35 | 3.74 | 2.54 | 3.20 | 3.51 | 3.34 | 3.74 | 3.07 | 3.40 | 3.36 | 3.16 | 3.73 | 3.97 | 3.13 | 3.32 | 3.20 | 3.35 | 3.43 | 4.07 | 4.19 | 4.38 | 4.98 | 3.30 | 3.57 | 3.95 | 4.12 | 4.04 | 3.53 | 3.95 | 3.45 | 3.34 | 128.69 | | 4.98 | 2.84 | |
| Peak Instantaneous - Treated Water | | L/s | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | #DIV/0! | 0.00 | 0.00 | | |
| BackWash Water | | 10^3 M^3 | n/a | 0.279 | 0.162 | 0.251 | 0.278 | 0.263 | 0.250 | 0.279 | 0.000 | 0.262 | 0.251 | 0.277 | 0.263 | 0.247 | 0.277 | 0.263 | 0.252 | 0.280 | 0.262 | 0.255 | 0.279 | 0.261 | 0.252 | 0.279 | 0.261 | 0.253 | 0.280 | 0.262 | 0.247 | 0.279 | 0.262 | 0.247 | 7.81 | 0.25 | 0.28 | 0.00 | |
| Fluoride Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluoride Residual - Treated Water | | mg/l | 0.5 to 0.8 | 0.78 | 0.79 | 0.78 | 0.76 | 0.78 | 0.79 | 0.86 | 0.68 | 0.69 | 0.67 | 0.67 | 0.68 | 0.68 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.75 | 0.76 | 0.74 | 0.75 | 0.75 | 0.74 | 0.74 | 0.74 | 0.75 | 0.77 | 0.88 | 0.63 | 0.62 | 22.26 | 0.72 | | | |
| Turbidity Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Raw Water | | NTU | n/a | 1.02 | 0.97 | 1.10 | 1.29 | 1.38 | 1.43 | 1.67 | 1.49 | 1.41 | 1.44 | 1.47 | 1.43 | 1.51 | 1.46 | 1.55 | 1.48 | 1.44 | 1.50 | 1.49 | 1.40 | 1.04 | 1.26 | 0.91 | 1.05 | 1.06 | 1.22 | 1.07 | 1.22 | 1.31 | 1.35 | 1.22 | 40.64 | 1.31 | | | |
| Settled Water | | NTU | n/a | 0.59 | 0.56 | 0.52 | 0.48 | 0.41 | 0.32 | 0.19 | 0.15 | 0.14 | 0.12 | 0.28 | 0.20 | 0.19 | 0.20 | 0.17 | 0.37 | 0.28 | 0.22 | 0.33 | 0.31 | 0.28 | 0.30 | 0.23 | 0.25 | 0.22 | 0.28 | 0.27 | 0.36 | 0.25 | 0.33 | 0.32 | 9.10 | 0.29 | | | |
| Treated Water | | NTU | 1 | 0.31 | 0.28 | 0.20 | 0.24 | 0.25 | 0.37 | 0.21 | 0.20 | 0.14 | 0.10 | 0.20 | 0.11 | 0.13 | 0.11 | 0.11 | 0.12 | 0.11 | 0.10 | 0.12 | 0.13 | 0.18 | 0.19 | 0.01 | 0.04 | 0.17 | 0.17 | 0.16 | 0.19 | 0.17 | 0.19 | 0.21 | 5.22 | 0.17 | | | |
| Other Operating Parameters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH - Treated Water | | no units | 6.5 to 8.5 | 6.94 | 7.13 | 6.96 | 6.99 | 6.77 | 6.78 | 6.79 | 6.91 | 7.00 | 7.05 | 7.01 | 7.00 | 7.03 | 7.00 | 7.02 | 7.01 | 7.00 | 7.02 | 6.81 | 6.82 | 6.78 | 6.81 | 6.82 | 6.77 | 6.75 | 6.84 | 6.85 | 6.90 | 6.84 | 6.85 | 6.83 | 214.08 | 6.91 | | | |
| pH - Settled water | | no units | n/a | 6.26 | 6.28 | 6.31 | 6.27 | 6.40 | 6.38 | 6.32 | 6.24 | 6.31 | 6.35 | 6.19 | 6.28 | 6.34 | 6.36 | 6.41 | 6.39 | 6.29 | 6.34 | 6.21 | 6.08 | 6.22 | 6.27 | 6.25 | 6.33 | 6.20 | 6.12 | 6.21 | 6.20 | 6.24 | 6.20 | 6.28 | 194.53 | 6.28 | | | |
| pH - Raw Water | | no units | n/a | 6.85 | 6.80 | 6.88 | 6.79 | 6.60 | 6.80 | 6.75 | 6.78 | 6.77 | 6.75 | 6.77 | 6.68 | 6.66 | 6.71 | 6.70 | 6.73 | 6.79 | 6.83 | 6.80 | 6.78 | 6.78 | 6.79 | 6.77 | 6.77 | 6.73 | 6.73 | 6.66 | 6.71 | 6.69 | 6.66 | 6.70 | 6.73 | 208.14 | 6.75 | | |
| FAC - Treated Water | | mg/l | 0.2 to 4 | 2.18 | 2.11 | 2.04 | 2.13 | 2.15 | 2.07 | 1.82 | 1.85 | 1.92 | 1.96 | 1.90 | 1.92 | 1.98 | 1.90 | 1.87 | 1.92 | 1.94 | 1.87 | 1.98 | 1.88 | 1.94 | 2.02 | 1.96 | 1.87 | 2.04 | 1.83 | 1.80 | 1.70 | 1.76 | 1.70 | 2.04 | 60.15 | 1.94 | | | |
| Total Chlorine Residual Treated | | mg/l | 0.3 to 7 | 2.40 | 2.32 | 2.22 | 2.36 | 2.42 | 2.36 | 2.26 | 2.04 | 2.07 | 2.17 | 2.22 | 2.24 | 2.32 | 2.34 | 2.26 | 2.17 | 2.24 | 2.26 | 2.20 | 2.20 | 2.42 | 2.18 | 2.22 | 2.20 | 2.20 | 2.15 | 2.09 | 1.90 | 2.06 | 1.99 | 2.40 | 68.88 | 2.22 | | | |
| Temperature | | C | 15 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 10.0 | 11.0 | 12.0 | 9.0 | 8.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 13.0 | 13.0 | 13.0 | 13.0 | 12.0 | 13.0 | 12.0 | 12.0 | 11.0 | 11.0 | 12.0 | 332.00 | 10.71 | | | |
| Fluoride used (Total Daily Consumption) | | kg | n/a | 23.0 | 23.0 | 24.0 | 22.0 | 23.0 | 23.0 | 24.0 | 28.0 | 26.0 | 25.0 | 25.0 | 25.0 | 24.0 | 24.0 | 23.0 | 24.0 | 23.0 | 24.0 | 23.0 | 21.0 | 22.0 | 21.0 | 24.0 | 25.0 | 24.0 | 23.0 | 23.0 | 23.0 | 24.0 | 23.0 | 24.0 | 734.00 | 23.68 | | | |
| Chlorine used (Total Daily Consumption) | | kg | n/a | 22.0 | 21.0 | 22.0 | 21.0 | 21.0 | 22.0 | 22.0 | 20.0 | 20.0 | 20.0 | 20.0 | 21.0 | 21.0 | 20.0 | 21.0 | 20.0 | 20.0 | 21.0 | 23.0 | 22.0 | 22.0 | 22.0 | 21.0 | 22.0 | 22.0 | 22.0 | 23.0 | 22.0 | 22.0 | 21.0 | 25.0 | 666.00 | 21.48 | | | |
| Soda ash (Total Daily Consumption) | | kg | n/a | 185.5 | 185.2 | 188.3 | 185.5 | 186.5 | 197.2 | 198.3 | 187.6 | 196.5 | 192 | 188.3 | 193.1 | 192.4 | 188.7 | 196.5 | 189.1 | 192.8 | 192.8 | 197.2 | 192.4 | 192.8 | 193.9 | 181.7 | 193.1 | 197.6 | 199.4 | 193.5 | 191.3 | 197.2 | 200.2 | 191.7 | 1058.00 | | | | |
| Soda Ash - Dosage | | mg/l | n/a | 35.0 | 35.0 | 35.0 | 35.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 1139.00 | 36.74 | | | |
| Alum residual - (Total Daily Consumption) | | kg | n/a | 185.5 | 185.2 | 188.3 | 185.5 | 180.5 | 181.2 | 182.2 | 172.4 | 180.5 | 176.5 | 173.1 | 177.5 | 176.8 | 173.4 | 180.5 | 173.7 | 177.1 | 177.1 | 181.2 | 176.8 | 177.1 | 178.2 | 166.9 | 177.5 | 181.0 | 183.3 | 177.8 | 175.8 | 181.2 | 183.9 | 176.1 | 4675.78 | | | | |
| Alum residual - Dosage | | mg/l | n/a | 35.0 | 35.0 | 35.0 | 35.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | #REF! | 34.13 | | |
| Alum residual - Treated Water | | mg/l | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | #REF! | #REF! | | | |
| Poly bags added (25 kg bags) | | kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 | #DIV/0! | | | |

4.91
0.00
2.84
0.00
0.000