



Month: JAN

Waterloo Water Treatment Plant

Year: 2026

| Date | Time | Filter (circle #) | Total Flow X1000 Gal | Total Usage X1000 GAL | Grnd Stor X1000 GAL | Grnd Stor Usage | Raw Iron | Finished Water Quality (mg/L) | | | | | | | Ortho Phosphate | Ground Storage | | Dist CL2 Total | Notes (backwash filter #, filter res. Cl, pressures, etc) |
|------|-------|-------------------|----------------------|-----------------------|---------------------|-----------------|----------|-------------------------------|----------|-----------|----------|----------|----------|------|-----------------|----------------|-----------|----------------|---|
| | | | | | | | | Iron | Free Cl2 | Total Cl2 | Hardness | Fluoride | Temp (F) | pH | | Free Cl2 | Total Cl2 | | |
| 31 | 10:32 | 1 / 2 / 3 | 285,703 | | 332,866 | | | | | | | | | | | | | | |
| 1 | 12:46 | 1 / 2 / 3 | 286,577 | 874 | 333,713 | 847 | | | | | | | | | | 2.51 | 0.70 | 1.43 | |
| 2 | 9:44 | 1 / 2 / 3 | 287,882 | 1,305 | 334,339 | 626 | 0.80 | 0.00 | 0.70 | 1.38 | 212.00 | 0.37 | 58.40 | 7.93 | 1.54 | 2.62 | 0.70 | 1.37 | |
| 3 | 10:44 | 1 / 2 / 3 | 288,876 | 994 | 335,154 | 815 | | | | | | | | | | 2.37 | 0.68 | 1.32 | |
| 4 | 12:35 | 1 / 2 / 3 | 290,204 | 1,328 | 336,012 | 858 | | | | | | | | | | 0.87 | 0.94 | 1.26 | |
| 5 | 10:39 | 1 / 2 / 3 | 291,536 | 1,332 | 336,740 | 728 | 0.93 | 0.02 | 1.01 | 1.11 | 217.00 | 0.33 | 59.20 | 7.82 | 1.01 | 2.19 | 0.70 | 1.32 | Backwash #2, pH probe calibrated |
| 6 | 9:38 | 1 / 2 / 3 | 292,548 | 1,012 | 337,553 | 813 | 0.85 | 0.01 | 0.43 | 0.39 | 218.00 | 0.43 | 59.40 | 7.77 | 2.38 | 0.87 | 0.94 | 1.29 | |
| 7 | 9:07 | 1 / 2 / 3 | 293,748 | 1,200 | 338,260 | 707 | 0.04 | 0.01 | 0.58 | 0.74 | 193.00 | 0.42 | 58.80 | 7.93 | 0.72 | 0.87 | 0.94 | 1.34 | Backwash #3 |
| 8 | 8:16 | 1 / 2 / 3 | 294,779 | 1,031 | 339,042 | 782 | 0.82 | 0.01 | 0.90 | 1.34 | 228.00 | 0.30 | 59.50 | 7.87 | 1.34 | 2.93 | 0.67 | 1.38 | |
| 9 | 12:28 | 1 / 2 / 3 | 295,920 | 1,141 | 339,358 | 316 | 0.14 | 0.02 | 1.02 | 1.12 | 171.00 | 0.39 | 60.20 | 7.95 | 0.82 | 3.24 | 0.69 | 1.31 | Backwash#1 |
| 10 | 11:17 | 1 / 2 / 3 | 296,998 | 1,078 | 340,635 | 1,277 | | | | | | | | | | 3.13 | 0.69 | 1.36 | |
| 11 | 19:58 | 1 / 2 / 3 | 298,614 | 1,616 | 341,801 | 1,166 | | | | | | | | | | 2.83 | 0.69 | 1.29 | |
| 12 | 11:03 | 1 / 2 / 3 | 299,353 | 739 | 342,200 | 399 | 0.86 | 0.02 | 1.03 | 1.05 | 226.00 | 0.37 | 59.40 | 7.84 | 0.33 | 3.03 | 0.70 | 1.27 | |
| 13 | 12:26 | 1 / 2 / 3 | 300,357 | 1,004 | 342,978 | 778 | 0.05 | 0.01 | 1.35 | 1.50 | 164.00 | 0.31 | 59.60 | 7.89 | 0.70 | 3.12 | 0.70 | 1.45 | Backwash #2 |
| 14 | 11:01 | 1 / 2 / 3 | 301,710 | 1,353 | 343,706 | 728 | 0.12 | 0.00 | 0.96 | 0.97 | 172.00 | 0.38 | 58.50 | 7.99 | 0.20 | 3.23 | 0.70 | 1.45 | Backwash #3 |
| 15 | 8:16 | 1 / 2 / 3 | 302,580 | 870 | 344,394 | 688 | 0.68 | 0.00 | 1.36 | 1.52 | 161.00 | 0.32 | 58.70 | 7.87 | 0.30 | 3.08 | 0.71 | 1.47 | |
| 16 | 11:46 | 1 / 2 / 3 | 303,754 | 1,174 | 345,289 | 895 | 0.09 | 0.01 | 0.88 | 1.19 | 166.00 | 0.40 | 58.60 | 8.07 | 0.78 | 3.04 | 0.73 | 1.45 | Backwash #1 |
| 17 | 14:56 | 1 / 2 / 3 | 304,898 | 1,144 | 346,155 | 866 | | | | | | | | | | 3.26 | 0.77 | 1.56 | |
| 18 | 17:01 | 1 / 2 / 3 | 306,130 | 1,232 | 346,962 | 807 | | | | | | | | | | 3.56 | 0.81 | 1.43 | |
| 19 | 17:07 | 1 / 2 / 3 | 307,384 | 1,254 | 347,785 | 823 | | | | | | | | | | 3.11 | 0.77 | 1.55 | |
| 20 | 11:04 | 1 / 2 / 3 | 308,184 | 800 | 348,276 | 491 | 0.82 | 0.01 | 0.79 | 0.89 | 215.00 | 0.28 | 58.60 | 7.52 | 0.39 | 3.51 | 0.82 | 1.63 | Backwash #2, pH probe calibrated |
| 21 | 10:29 | 1 / 2 / 3 | 309,176 | 992 | 349,017 | 741 | 0.83 | 0.01 | 0.78 | 1.04 | 206.00 | 0.40 | 58.50 | 7.77 | 0.41 | 3.51 | 0.80 | 1.79 | Backwash. #3 |
| 22 | 12:01 | 1 / 2 / 3 | 310,495 | 1,319 | 349,818 | 801 | 0.04 | 0.00 | 1.41 | 1.65 | 219.00 | 0.93 | 58.40 | 7.84 | 2.42 | 2.82 | 0.77 | 1.72 | |
| 23 | 12:42 | 1 / 2 / 3 | 311,666 | 1,171 | 350,677 | 859 | 0.82 | 0.00 | 1.01 | 0.89 | 222.00 | 0.26 | 57.90 | 7.93 | 0.29 | 3.86 | 0.83 | 1.67 | Backwash#1, GS CL2 calibrated |
| 24 | 18:02 | 1 / 2 / 3 | 313,063 | 1,397 | 351,624 | 947 | | | | | | | | | | 2.20 | 0.86 | 1.59 | |
| 25 | 18:44 | 1 / 2 / 3 | 314,371 | 1,308 | 352,454 | 830 | | | | | | | | | | 2.27 | 0.88 | 1.65 | |
| 26 | 10:18 | 1 / 2 / 3 | 315,066 | 695 | 352,916 | 462 | 0.74 | 0.01 | 1.84 | 1.91 | 208.00 | 0.36 | 58.10 | 7.84 | 0.86 | 2.18 | 0.88 | 1.70 | Backwash #2 |
| 27 | 9:33 | 1 / 2 / 3 | 316,155 | 1,089 | 353,629 | 713 | 0.05 | 0.00 | 0.43 | 1.12 | 185.00 | 0.35 | 57.90 | 7.89 | 0.21 | 0.87 | 0.94 | 1.91 | Backwash #3 |
| 28 | 12:13 | 1 / 2 / 3 | 317,451 | 1,296 | 354,561 | 932 | 0.84 | 0.01 | 1.05 | 1.39 | 183.00 | 0.13 | 58.00 | 7.84 | 0.45 | 2.51 | 0.86 | 1.85 | |
| 29 | 7:41 | 1 / 2 / 3 | 318,832 | 1,381 | 355,250 | 689 | 0.05 | 0.01 | 1.60 | 1.65 | 173.00 | 0.36 | 58.10 | 8.03 | 0.28 | 2.31 | 0.85 | 1.85 | |
| 30 | 11:49 | 1 / 2 / 3 | 319,786 | 954 | 356,209 | 959 | 0.82 | 0.01 | 1.23 | 1.23 | 192.00 | 0.18 | 57.90 | 7.85 | 0.88 | 2.45 | 0.86 | 1.90 | Backwash #1 |
| 31 | 15:22 | 1 / 2 / 3 | 321,365 | 1,579 | 357,225 | 1,016 | | | | | | | | | | 2.35 | 0.89 | 1.88 | |
| | | | | 35,662 | | 24,359 | | | | | | | | | | | | | |

METER LOCATION: Waterloo Plant

I certify that the information in this report is complete and accurate to the best of my knowledge:

REPORTED BY (SIGNATURE): _____

Phone: 618-973-0633

054-87-2943
Cert. Or Reg. No.

12.5% Chlorine Solution Fed
50% Sodium Hydroxide
94% Sulfuric Acid
24% Fluoride Solution Fed
% Orthophosphate

This Agency is authorized to require this information under Ill. Rev. Stat. 1979, Chapter 111 1/2, Section 1019. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 and an additional civil penalty up to \$1,000.00 for each day the failure continued, a fine up to \$1,000.00 and imprisonment up to one year. This form has been approved by the forms Management Center.

Test Kit used: Hach DR 3900



Month: JAN Waterloo Water Treatment Plant

Year: 2026 Softening Operating Log

| Date | Time | Reactor (circle #) | Total Usage X1000 GAL | INWC PSI Differential | Transfer (lbs) | Pellet Size (inches) | Hopper Depth (ft) | Reactor Pressure | NaOH Pressure | pH | | Reactor Ca Hardness | Effluent Ca Hardness | Notes (calibration performed, pellets discharged, seed added, etc) |
|------|-------|--------------------|-----------------------|-----------------------|----------------|----------------------|-------------------|------------------|---------------|---------|----------|---------------------|----------------------|--|
| | | | | | | | | | | Reactor | Effluent | | | |
| 1 | 12:48 | 1 | 710 | 53 | | | | 29.3 | | 7.1 | 7.2 | | | |
| 2 | 9:45 | 1 | 890 | 57.6/42.2 | 500 | 1/16 | 11.0 | 29.1 | 30.0 | 6.9 | 6.9 | | | wasted 6 min |
| 3 | 10:48 | 1 | 680 | 8 | | | | 19.2 | | 6.8 | 7.0 | | | |
| 4 | 12:38 | 1 | 920 | 8 | | | | 19.3 | | 6.9 | 6.9 | | | |
| 5 | 10:42 | 1 | 930 | 55.7/42.0 | 500 | 1\16 | 11.0 | 28.9 | 31.0 | 6.8 | 7.1 | | | Calibrated pH Probes, wasted 7 min |
| 6 | 09:40 | 1 | 750 | 8 | | | | 19.3 | 30.0 | 7.0 | 7.1 | | | |
| 7 | 9:09 | 1 | 840 | 8 | | | | 19.2 | 30.0 | 7.1 | 7.1 | | | |
| 8 | 8:18 | 1 | 770 | 8 | | | | 19.3 | 30.0 | 6.9 | 7.1 | | | |
| 9 | 1:10 | 1 | 810 | 56.7/42.2 | 500 | 3\32 | 11.2 | 28.9 | 30.0 | 7.5 | 7.7 | | | Wasted 6 min, wash basin entry clogged |
| 10 | 11:21 | 1 | 740 | 8 | | | | 19.1 | | 7.0 | 7.1 | | | |
| 11 | 20:00 | 1 | 1,090 | 51 | | | | 29.1 | | 7.2 | 7.3 | | | |
| 12 | 11:05 | 1 | 590 | 8 | | | | 19.2 | 30.0 | 7.0 | 7.0 | | | |
| 13 | 12:28 | 1 | 730 | 57.0/41.3 | 500 | 1\16 | 11.2 | 28.9 | 30.0 | 7.4 | 7.7 | | | wasted 6.5 min |
| 14 | 11:10 | 1 | 860 | 45 | | | | 28.9 | 30.0 | 6.9 | 7.2 | | | |
| 15 | 8:22 | 1 | 730 | 8 | | | | 18.7 | 24.0 | 7.0 | 7.1 | | | |
| 16 | 11:52 | 1 | 830 | 52.9/42.1 | 500 | 1\16 | 11.1 | 28.6 | 30.0 | 6.9 | 7.1 | | | wasted 5.5 min |
| 17 | 14:59 | 1 | 780 | 46 | | | | 29.0 | | 7.4 | 7.4 | | | |
| 18 | 17:03 | 1 | 870 | 49 | | | | 29.2 | | 7.2 | 7.3 | | | |
| 19 | 17:11 | 1 | 860 | 54 | | | | 29.2 | | 7.4 | 7.4 | | | |
| 20 | 11:06 | 1 | 610 | 57.2/40.2 | 500 | 1\16 | 10.9 | 28.8 | 30.0 | 7.1 | 7.3 | | | Wasted 7 min, well 3 lost coms |
| 21 | 10:32 | 1 | 720 | 8 | | | | 19.3 | 30.0 | 7.0 | 7.1 | | | |
| 22 | 12:03 | 1 | 930 | 8 | | | | 19.2 | 30.0 | 7.0 | 7.1 | | | |
| 23 | 12:46 | 1 | 830 | 51.2/40.6 | 500 | 1\16 | 10.9 | 28.7 | 30.0 | 7.2 | 74.0 | | | wasted 4.5 min |
| 24 | 18:05 | 1 | 920 | 45 | | | | 29.1 | | 7.5 | 7.4 | | | |
| 25 | 18:47 | 1 | 890 | 49 | | | | 29.1 | | 7.2 | 7.3 | | | |
| 26 | 12:00 | 1 | 560 | 51.8/39.1 | 500 | 1\16 | 10.7 | 28.9 | 30.0 | 7.3 | 7.6 | | | wasted 5 min, cleaned wash basin entry |
| 27 | 9:35 | 1 | 780 | 8 | | | | 18.9 | 31.0 | 7.0 | 7.1 | | | |
| 28 | 12:19 | 1 | 900 | 8 | | | | 19.1 | 30.0 | 7.0 | 7.1 | | | |
| 29 | 7:44 | 1 | 910 | 8 | | | | 19.2 | 30.0 | 7.2 | 7.1 | | | |
| 30 | 12:44 | 1 | 770 | 55 | | | | 29.4 | 28.0 | 6.7 | 7.1 | | | |
| 31 | 15:27 | 1 | 1,020 | 60 | | | | 29.6 | | 7.3 | 7.4 | | | |
| | | | 25,220 | | | | | | | | | | | |

METER LOCATION: Waterloo Plant

I certify that the information in this report is complete and accurate to the best of my knowledge:

REPORTED BY (SIGNATURE): _____

054-87-2943

Cert. Or Reg. No.

- 12.5% Chlorine Solution Fed
- 50% Sodium Hydroxide
- 94% Sulfuric Acid
- 24% Fluoride Solution Fed
- % Orthophosphate

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Test Kit used: Hach DR 3900



Month: JAN

Year: 2026

| Date | Time | Well #1 | | Well #2 | | Well #3 | | Total Usage | Notes |
|------|-------|---------|-------|----------|-------|----------|-------|-------------|--|
| | | Reading | Usage | Reading | Usage | Reading | Usage | | |
| 31 | 10:30 | 70.5 | | 309883.3 | | 363046.3 | | 0 | |
| 1 | 12:44 | 70.5 | 0 | 309890.4 | 7.1 | 363046.3 | 0 | 7.1 | |
| 2 | 09:43 | 70.5 | 0 | 309899.3 | 8.9 | 363046.3 | 0 | 8.9 | |
| 3 | 10:42 | 70.5 | 0 | 309906.1 | 6.8 | 363046.3 | 0 | 6.8 | |
| 4 | 12:34 | 70.5 | 0 | 309915.3 | 9.2 | 363046.3 | 0 | 9.2 | |
| 5 | 10:38 | 70.5 | 0 | 309924.6 | 9.3 | 363046.3 | 0 | 9.3 | |
| 6 | 09:36 | 70.5 | 0 | 309932.1 | 7.5 | 363046.3 | 0 | 7.5 | |
| 7 | 09:06 | 70.5 | 0 | 309932.1 | 0 | 363054.7 | 8.4 | 8.4 | |
| 8 | 8:16 | 70.5 | 0 | 309939.8 | 7.7 | 363054.7 | 0 | 7.7 | |
| 9 | 12:28 | 70.5 | 0 | 309939.8 | 0 | 363062.8 | 8.1 | 8.1 | |
| 10 | 11:16 | 70.5 | 0 | 309947.2 | 7.4 | 363062.8 | 0 | 7.4 | |
| 11 | 19:58 | 70.5 | 0 | 309950.8 | 3.6 | 363070.1 | 7.3 | 10.9 | |
| 12 | 11:02 | 70.5 | 0 | 309956.7 | 5.9 | 363070.1 | 0 | 5.9 | |
| 13 | 12:25 | 70.5 | 0 | 309956.7 | 0 | 363077.4 | 7.3 | 7.3 | |
| 14 | 11:00 | 70.5 | 0 | 309956.7 | 0 | 363086 | 8.6 | 8.6 | |
| 15 | 08:15 | 70.5 | 0 | 309964 | 7.3 | 363086 | 0 | 7.3 | |
| 16 | 11:45 | 70.5 | 0 | 309964.0 | 0.0 | 363094.3 | 8.3 | 8.3 | |
| 17 | 14:56 | 70.5 | 0 | 309966.5 | 2.5 | 363099.6 | 5.3 | 7.8 | |
| 18 | 17:01 | 70.5 | 0 | 309973.3 | 6.8 | 363101.5 | 1.9 | 8.7 | |
| 19 | 17:07 | 70.5 | 0 | 309974.8 | 1.5 | 363108.6 | 7.1 | 8.6 | |
| 20 | 11:04 | 70.5 | 0 | 309980.9 | 6.1 | 363108.6 | 0 | 6.1 | |
| 21 | 10:25 | 70.5 | 0 | 309987.8 | 6.9 | 363108.9 | 0.3 | 7.2 | |
| 22 | 12:00 | 70.5 | 0 | 309987.8 | 0 | 363118.2 | 9.3 | 9.3 | Tightened Packing 1 Complete Turn on Well #2 |
| 23 | 12:41 | 70.5 | 0 | 309996.1 | 8.3 | 363118.2 | 0 | 8.3 | |
| 24 | 18:01 | 70.5 | 0 | 309998 | 1.9 | 363125.5 | 7.3 | 9.2 | Lubrication Port Loose on Motor at Well 3, Tightened, Oil Level OK |
| 25 | 18:43 | 70.5 | 0 | 310005 | 7 | 363127.4 | 1.9 | 8.9 | |
| 26 | 10:17 | 70.5 | 0 | 310010.6 | 5.6 | 363127.4 | 0 | 5.6 | |
| 27 | 09:32 | 70.5 | 0 | 310010.6 | 0 | 363135.2 | 7.8 | 7.8 | |
| 28 | 12:12 | 70.5 | 0 | 310019.6 | 9 | 363135.2 | 0 | 9 | Tightened Packing 1/2 Turn on Well #3 |
| 29 | 7:41 | 70.5 | 0 | 310019.6 | 0 | 363144.3 | 9.1 | 9.1 | |
| 30 | 11:48 | 70.5 | 0 | 310027.3 | 7.7 | 363144.3 | 0 | 7.7 | |
| 31 | 15:21 | 70.5 | 0 | 310028 | 0.7 | 363153.8 | 9.5 | 10.2 | |
| | | | 0 | | 144.7 | | 107.5 | 252.2 | |

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