

TABLE IV.

| Sample taken. | Parts per million. | | | Grains per gallon. | | | Hardness Wanklyn's scale. | Grains per gallon. Suspended matter in unfiltered water. |
|-----------------------|--------------------|---------------------|---------------------------------|-------------------------|-----------|---|---------------------------|---|
| | Free ammonia. | Albuminoid ammonia. | Oxygen absorbed in ten minutes. | Total solids at 150° C. | Chlorine. | Nitrates as N ₂ O ₅ . | | |
| 1888. | | | | | | | | |
| July 7 ... | — | ·2 | 3 | 20·44 | 2·1 | ·016 | — | ·98 |
| July 21 ... | ·03 | ·2 | 2·2 | 16·38 | 1·35 | ·022 | — | 4·2 |
| August 4 ... | ·08 | ·17 | 2·8 | 14·21 | 1·05 | ·022 | — | 29·96 |
| August 20 ... | ·048 | ·065 | 3 | 10·01 | ·4 | ·266 | — | 116·13 |
| September 1 ... | ·07 | ·1 | 3·2 | 9·59 | ·25 | ·222 | — | 161·84 |
| September 22 ... | ·044 | ·11 | 2·3 | 8·96 | ·2 | ·133 | — | 114·52 |
| October 6 ... | ·026 | ·115 | 2·05 | 8·54 | ·2 | ·133 | 5·7 | 73·92 |
| October 20 ... | ·01 | ·1 | 2·2 | 8·75 | ·18 | ·155 | 5·8 | 64·75 |
| November 3 ... | — | ·2 | 2·5 | 9·59 | ·17 | ·133 | 6·2 | 56·91 |
| November 17 ... | ·01 | ·07 | 2·9 | 8·68 | ·25 | ·155 | 6·1 | 33·81 |
| December 8 ... | ·01 | ·06 | 2·2 | 8·82 | ·2 | ·122 | 6·3 | 18·34 |
| December 22 ... | — | ·08 | 2·8 | 9·52 | ·2 | ·077 | 6·1 | 14·63 |
| 1889. | | | | | | | | |
| January 5 ... | — | ·1 | 3·2 | 9·24 | ·25 | ·072 | 6·2 | 9·52 |
| January 19 ... | ·018 | ·1 | 3·3 | 9·8 | ·35 | ·094 | 5·9 | 8·96 |
| February 2 ... | — | ·09 | 2·95 | 10·64 | ·5 | ·033 | 6·2 | 7·14 |
| February 16 ... | ·01 | ·1 | 2·8 | 12·11 | ·8 | ·027 | 6·3 | 6·09 |
| March 2 ... | — | ·1 | 2·8 | 13·65 | 1 | ·026 | 6·9 | 4·2 |
| March 16 ... | ·01 | ·11 | 3·2 | 14·14 | 1·25 | ·022 | 8·2 | 3·5 |
| April 6 ... | — | ·12 | 2·9 | 16·11 | 1·55 | ·044 | 8·7 | 4·13 |
| April 20 ... | — | ·11 | 2·7 | 18·06 | 1·85 | ·038 | 8·7 | 2·8 |
| May 4 ... | ·01 | ·11 | 2·8 | 18·45 | 2·1 | ·044 | 8·9 | 2·24 |
| May 18 ... | ·01 | ·11 | 2·9 | 20·3 | 2·4 | ·055 | 8·9 | 1·19 |
| June 8 ... | ·02 | ·16 | 2·7 | 19·81 | 2·8 | ·066 | 8·9 | 2·31 |
| Average ... | ·017 | ·116 | 2·7 | 12·86 | ·93 | ·086 | 7 | 32·26 |
| Winter } average } | ·005 | ·104 | 2·85 | 12·8 | ·92 | ·067 | 7·1 | 12·39 |
| New River ... | ·012 | ·066 | 2·48 | 17·6 | 1·1 | ·94 | 15 | |