

# MONTHLY REPORT OF OPERATION WATER TREATMENT PLANT

Report for **Bloomington Water System**

for the Month of **Jun-24**

IDEM Field Rep. **John Summerlin**

Signed **James Hoover**

Title **Operator**

Public Water Supply ID No. **5261001**

Certification Number **140223**

I certify that under penalty of law, by this signature that this document was prepared by me, or under my direction, and the information is to the best of my knowledge and belief, true, accurate, and complete. I am also aware that there are significant penalties for submitting false information. **James Hoover-Operator**

PHYSICAL AND CHEMICAL DATA \*

| Date        | Turbidity |          | Nitrate |          | pH  |          | Hardness |          | Iron    |          | Manganese |          | Phos.    | Fluoride |
|-------------|-----------|----------|---------|----------|-----|----------|----------|----------|---------|----------|-----------|----------|----------|----------|
|             | Raw       | Finished | Raw     | Finished | Raw | Finished | Raw      | Finished | Raw     | Finished | Raw       | Finished | Finished | Finished |
| 1           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 2           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 3           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 4           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 5           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 6           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 7           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 8           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 9           |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 10          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 11          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 12          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 13          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 14          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 15          |           |          |         |          |     | 6.9      |          |          |         |          |           |          |          |          |
| 16          |           |          |         |          |     | 6.9      |          |          |         |          |           |          |          |          |
| 17          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 18          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 19          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 20          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 21          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 22          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 23          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 24          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 25          |           |          |         | 7.7      |     | 6.8      |          |          |         |          |           |          |          |          |
| 26          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 27          |           |          |         |          |     | 6.9      |          |          |         |          |           |          |          |          |
| 28          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 29          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 30          |           |          |         |          |     | 6.8      |          |          |         |          |           |          |          |          |
| 31          |           |          |         |          |     |          |          |          |         |          |           |          |          |          |
| <b>Ave.</b> |           |          |         |          |     | #DIV/0!  | 6.8      | #DIV/0!  | #DIV/0! | #DIV/0!  | #DIV/0!   | #DIV/0!  | #DIV/0!  | #DIV/0!  |

\* All parameters are expressed in mg/l, except pH and turbidity.

| Date         | Water Treated |              | Chemicals Used - Pounds |      |             |                   |          |          |                | Filters           |                       | Chlorine Residual |       |             |       | Remarks                        |
|--------------|---------------|--------------|-------------------------|------|-------------|-------------------|----------|----------|----------------|-------------------|-----------------------|-------------------|-------|-------------|-------|--------------------------------|
|              | X1000 gal.    | Salt<br>x100 | Anti<br>Scale           | Lime | Soda<br>Ash | Carbon<br>Dioxide | Chlorine | Fluoride | Phos-<br>phate | Filter<br>Run Hrs | Gal. Per<br>Washx1000 | P.O.E             |       | Dist. Syst. |       |                                |
|              |               |              |                         |      |             |                   |          |          |                |                   |                       | Free              | Total | Free        | Total |                                |
| 1            | 83            |              | 2.9                     |      |             |                   | 1.00     |          |                |                   |                       | 1.2               | 1.3   | 1.2         | 1.3   |                                |
| 2            | 111           |              | 4.3                     |      |             |                   | 1.20     |          |                |                   |                       | 1.4               | 1.4   | 1.1         | 1.2   |                                |
| 3            | 115           |              | 4.4                     |      |             |                   | 1.50     |          |                |                   |                       | 1.4               | 1.4   | 1.2         | 1.2   |                                |
| 4            | 97            |              | 3.5                     |      |             |                   | 1.20     |          |                |                   |                       | 1.2               | 1.2   | 1           | 1.1   |                                |
| 5            | 126           |              | 3.7                     |      |             |                   | 1.50     |          |                |                   |                       | 1.2               | 1.3   | 1.1         | 1.1   |                                |
| 6            | 99            |              | 3                       |      |             |                   | 1.00     |          |                |                   |                       | 1.2               | 1.4   | 1           | 1.1   |                                |
| 7            | 122           |              | 3.8                     |      |             |                   | 1.40     |          |                |                   |                       | 1.3               | 1.4   | 1.1         | 1.2   |                                |
| 8            | 106           |              | 4                       |      |             |                   | 0.40     |          |                |                   |                       | 1.4               | 1.4   | 1.1         | 1.2   |                                |
| 9            | 112           |              | 4.3                     |      |             |                   | 1.50     |          |                |                   |                       | 1.3               | 1.4   | 1.2         | 1.3   |                                |
| 10           | 124           |              | 4.8                     |      |             |                   | 1.50     |          |                |                   |                       | 1.4               | 1.4   | 1.1         | 1.1   |                                |
| 11           | 113           |              | 3.5                     |      |             |                   | 0.90     |          |                |                   |                       | 1.4               | 1.5   | 1.1         | 1.3   |                                |
| 12           | 120           |              | 3.7                     |      |             |                   | 0.90     |          |                |                   |                       | 1.3               | 1.4   | 1.2         | 1.3   |                                |
| 13           | 122           |              | 3.8                     |      |             |                   | 2.40     |          |                |                   |                       | 1.3               | 1.3   | 1.1         | 1.2   |                                |
| 14           | 89            |              | 3.4                     |      |             |                   | 1.00     |          |                |                   |                       | 1.3               | 1.4   | 1.1         | 1.2   |                                |
| 15           | 86            |              | 3.2                     |      |             |                   | 0.90     |          |                |                   |                       | 1.4               | 1.4   | 1.2         | 1.3   |                                |
| 16           | 206           |              | 7.8                     |      |             |                   | 2.60     |          |                |                   |                       | 1.3               | 1.4   | 1.2         | 1.3   |                                |
| 17           | 145           |              | 4.6                     |      |             |                   | 2.30     |          |                |                   |                       | 1.4               | 1.5   | 1.1         | 1.2   |                                |
| 18           | 100           |              | 3.1                     |      |             |                   | 1.20     |          |                |                   |                       | 1.4               | 1.4   | 1.3         | 1.3   |                                |
| 19           | 114           |              | 3.6                     |      |             |                   | 1.40     |          |                |                   |                       | 1.4               | 1.5   | 1.1         | 1.2   |                                |
| 20           | 113           |              | 4.4                     |      |             |                   | 1.30     |          |                |                   |                       | 1.4               | 1.4   | 1.2         | 1.3   |                                |
| 21           | 118           |              | 4.5                     |      |             |                   | 1.40     |          |                |                   |                       | 1.4               | 1.5   | 1.2         | 1.2   | <b>Monthly Water Treatment</b> |
| 22           | 101           |              | 3.7                     |      |             |                   | 2.10     |          |                |                   |                       | 1.4               | 1.4   | 1.1         | 1.2   | <b>Total Gallons</b> 3,391,000 |
| 23           | 159           |              | 4.9                     |      |             |                   | 1.50     |          |                |                   |                       | 1.3               | 1.4   | 1.1         | 1.2   | <b>Max. Day</b> 206,000        |
| 24           | 114           |              | 3.5                     |      |             |                   | 1.30     |          |                |                   |                       | 1.3               | 1.3   | 1           | 1     | <b>Min. Day</b> 83,000         |
| 25           | 116           |              | 3.6                     |      |             |                   | 1.40     |          |                |                   |                       | 1.4               | 1.5   | 1.1         | 1.2   | <b>Avg. Daily</b> 113,033      |
| 26           | 103           |              | 4.1                     |      |             |                   | 1.60     |          |                |                   |                       | 1.5               | 1.5   | 1.2         | 1.2   |                                |
| 27           | 84            |              | 3.2                     |      |             |                   | 1.10     |          |                |                   |                       | 1.4               | 1.4   | 1.1         | 1.1   |                                |
| 28           | 92            |              | 3.5                     |      |             |                   | 1.00     |          |                |                   |                       | 1.3               | 1.4   | 1.2         | 1.2   | <b>Backwash Water Used</b> 0   |
| 29           | 96            |              | 3                       |      |             |                   | 1.10     |          |                |                   |                       | 1.3               | 1.3   | 1.1         | 1.2   |                                |
| 30           | 105           |              | 3.2                     |      |             |                   | 1.30     |          |                |                   |                       | 1.4               | 1.4   | 1.2         | 1.3   |                                |
| 31           |               |              |                         |      |             |                   |          |          |                |                   |                       |                   |       |             |       |                                |
| <b>Ave.</b>  | 113           | ###          |                         | #### |             | #DIV/0!           |          | #DIV/0!  |                | #DIV/0!           | #DIV/0!               | ####              | ####  | 1.13        | 1.207 |                                |
| <b>Total</b> | 3,391         | 0            | 117                     | 0    |             | 0                 | 40.90    | 0        |                | 0                 | 0                     |                   |       |             |       |                                |