


# Oregon OHA - Drinking Water Services - Turbidity Water Quality Data

System Name: Springfield Utility Board ID #: 4100837 WTP: Willamette WTP-A Month / Year: 10 / 2024

| Day | 12 AM [NTU] | 4 AM [NTU] | 8 AM [NTU] | 12 PM [NTU] | 4 PM [NTU] | 8 PM [NTU] | Highest Reading of the Day [NTU] | Peak Hourly Demand Flow [GPM] |
|-----|-------------|------------|------------|-------------|------------|------------|----------------------------------|-------------------------------|
| 1   | 0.276       | 0.252      | 0.228      | 0.209       | 0.241      | 0.311      | 0.325                            | 2,671                         |
| 2   | 0.284       | 0.251      | 0.222      | 0.176       | 0.196      | 0.264      | 0.286                            | 2,862                         |
| 3   | 0.284       | 0.241      | 0.213      | 0.194       | 0.210      | 0.304      | 0.342                            | 2,730                         |
| 4   | 0.336       | 0.273      | 0.228      | 0.201       | 0.203      | 0.221      | 0.336                            | 2,873                         |
| 5   | 0.256       | 0.222      | 0.201      | 0.187       | 0.201      | 0.282      | 0.304                            | 2,756                         |
| 6   | 0.302       | 0.241      | 0.211      | 0.191       | 0.212      | 0.312      | 0.342                            | 2,817                         |
| 7   | 0.330       | 0.257      | 0.217      | 0.193       | 0.251      | 0.364      | 0.386                            | 2,849                         |
| 8   | 0.331       | 0.234      | 0.204      | 0.193       | 0.251      | 0.373      | 0.386                            | 2,836                         |
| 9   | 0.334       | 0.239      | 0.207      | 0.225       | 0.222      | 0.256      | 0.336                            | 2,794                         |
| 10  | 0.236       | 0.182      | 0.165      | 0.157       | 0.169      | 0.227      | 0.257                            | 2,726                         |
| 11  | 0.230       | 0.176      | 0.159      | 0.153       | 0.185      | 0.241      | 0.266                            | 2,672                         |
| 12  | 0.248       | 0.193      | 0.171      | 0.161       | 0.188      | 0.301      | 0.342                            | 2,564                         |
| 13  | 0.319       | 0.217      | 0.182      | 0.171       | 0.204      | 0.317      | 0.354                            | 2,698                         |
| 14  | 0.326       | 0.221      | 0.184      | 0.188       | 0.199      | 0.317      | 0.342                            | 2,551                         |
| 15  | 0.313       | 0.215      | 0.182      | 0.171       | 0.189      | 0.269      | 0.316                            | 2,563                         |
| 16  | 0.245       | 0.201      | 0.186      | 0.180       | 0.193      | 0.260      | 0.273                            | 2,563                         |
| 17  | 0.251       | 0.204      | 0.186      | 0.182       | 0.210      | 0.297      | 0.299                            | 2,555                         |
| 18  | 0.265       | 0.215      | 0.194      | 0.178       | 0.204      | 0.273      | 0.279                            | 2,565                         |
| 19  | 0.250       | 0.204      | 0.186      | 0.178       | 0.210      | 0.319      | 0.342                            | 2,575                         |
| 20  | 0.317       | 0.228      | 0.194      | 0.184       | 0.214      | 0.301      | 0.317                            | 2,476                         |
| 21  | 0.278       | 0.213      | 0.191      | 0.181       | 0.204      | 0.249      | 0.442                            | 2,607                         |
| 22  | 0.234       | 0.194      | 0.181      | 0.174       | 0.182      | 0.192      | 0.326                            | 2,451                         |
| 23  | 0.176       | 0.196      | 0.178      | 0.169       | 0.172      | 0.245      | 0.300                            | 2,668                         |
| 24  | 0.252       | 0.200      | 0.178      | 0.169       | 0.184      | 0.251      | 0.268                            | 2,388                         |
| 25  | 0.248       | 0.200      | 0.178      | 0.169       | 0.171      | 0.245      | 0.279                            | 2,449                         |
| 26  | 0.271       | 0.213      | 0.182      | 0.169       | 0.174      | 0.251      | 0.292                            | 2,102                         |
| 27  | 0.287       | 0.232      | 0.189      | 0.172       | 0.172      | 0.227      | 0.299                            | 3,207                         |
| 28  | 0.236       | 0.191      | 0.169      | 0.180       | 0.206      | 0.279      | 0.328                            | 2,309                         |
| 29  | 0.251       | 0.215      | 0.198      | 0.189       | 0.204      | 0.287      | 0.295                            | 2,037                         |
| 30  | 0.274       | 0.221      | 0.198      | 0.189       | 0.186      | 0.201      | 0.274                            | 2,112                         |
| 31  | 0.208       | 0.193      | 0.182      | 0.176       | 0.178      | 0.219      | 0.219                            | 1,980                         |


|   |  |  |   |
|---|--|--|---|
| <b>Slow Sand Filtration</b>   |  | <b>Monthly UV Summary</b>  |   |
| 95% of turbidity readings ≤ 1 NTU?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>All turbidity readings < 5 NTU?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  | Is the volume of off-spec water produced less than 5% in the month?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |
|   |  | Printed Name: Dave Embleton  |   |
|   |  | Signature:   | Date: 11/7/2024   |
| Is there a 4-log virus inactivation provided with <input checked="" type="checkbox"/> Chlorine; <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |  |  | CT <sub>viral</sub> Required = 4.88<br>Achieved = 45.20 |

Notes: \* Willamette Wellfield Off



## Oregon OHA - Drinking Water Services - UV Surface Water Quality Data

System Name: Springfield Utility Board ID #: 4100837 WTP: Willamette WTP-A Month / Year: 10 / 2024

| Minimum UVT [%] during month: N/A                   |                                       |  |  | Duty Sensor variation from reference sensor: 4.52% |                                   |   |   |
|---|---------------------------------------|--|--|--|-----------------------------------|---|---|
| Minimum Validated UVT: 97.1%                        |                                       |  | Min. UV Dose achieved/intended this month: 39.0 / 38 mJ/cm <sup>2</sup>                        |  |                                   |   |   |
| Day   | Peak Hourly Demand Flow<br>[gpm/unit] | Minimum Intensity<br>[mW/cm <sup>2</sup> ] | Minimum Dose<br>[mJ/cm <sup>2</sup> ]  | All Lamps On?<br>[Yes/No]                          | Daily Water Produced {A}<br>[gal] | Water Outside Validated Conditions {B}<br>[gal] | Cumulative Off-Spec Water Produced<br>({B}/{A})*100 [%] |
| 1   | 2,671                                 | 4.9  | 45.1   | Yes  | 3,650,000                         | 0   |   |
| 2   | 2,862                                 | 4.9  | 42.8   | Yes  | 3,802,000                         | 0   |   |
| 3   | 2,730                                 | 4.8  | 43.3   | Yes  | 3,630,000                         | 0   |   |
| 4   | 2,873                                 | 4.5  | 44.9   | Yes  | 3,762,000                         | 0   |   |
| 5   | 2,756                                 | 4.8  | 43.6   | Yes  | 3,754,000                         | 0   |   |
| 6   | 2,817                                 | 4.8  | 44.3   | Yes  | 3,747,000                         | 0   |   |
| 7   | 2,849                                 | 5.0  | 43.7   | Yes  | 3,832,000                         | 0   |   |
| 8   | 2,836                                 | 4.8  | 44.3   | Yes  | 3,748,000                         | 0   |   |
| 9   | 2,794                                 | 4.9  | 45.0   | Yes  | 3,353,000                         | 0   |   |
| 10  | 2,726                                 | 4.6  | 46.1   | Yes  | 2,980,000                         | 0   |   |
| 11  | 2,672                                 | 4.8  | 43.3   | Yes  | 3,651,000                         | 0   |   |
| 12  | 2,564                                 | 4.8  | 45.3   | Yes  | 3,543,000                         | 0   |   |
| 13  | 2,698                                 | 4.5  | 45.0   | Yes  | 3,538,000                         | 0   |   |
| 14  | 2,551                                 | 4.6  | 42.8   | Yes  | 3,523,000                         | 0   |   |
| 15  | 2,563                                 | 4.7  | 42.9   | Yes  | 3,558,000                         | 0   |   |
| 16  | 2,563                                 | 4.7  | 43.4   | Yes  | 3,558,000                         | 0   |   |
| 17  | 2,555                                 | 4.6  | 43.2   | Yes  | 3,521,000                         | 0   |   |
| 18  | 2,565                                 | 4.8  | 43.0   | Yes  | 3,525,000                         | 0   |   |
| 19  | 2,575                                 | 4.7  | 44.7   | Yes  | 3,498,000                         | 0   |   |
| 20  | 2,476                                 | 5.0  | 43.2   | Yes  | 3,488,000                         | 0   |   |
| 21  | 2,607                                 | 4.7  | 43.1   | Yes  | 3,571,000                         | 0   |   |
| 22  | 2,451                                 | 4.7  | 45.5   | Yes  | 2,161,000                         | 0   |   |
| 23  | 2,668                                 | 5.5  | 44.6   | Yes  | 3,246,000                         | 0   |   |
| 24  | 2,388                                 | 4.6  | 45.2   | Yes  | 3,379,000                         | 0   |   |
| 25  | 2,449                                 | 4.6  | 45.0   | Yes  | 3,203,000                         | 0   |   |
| 26  | 2,102                                 | 4.5  | 50.4   | Yes  | 2,966,000                         | 0   |   |
| 27  | 3,207                                 | 4.6  | 39.0   | Yes  | 3,016,000                         | 0   |   |
| 28  | 2,309                                 | 4.8  | 49.6   | Yes  | 2,792,000                         | 0   |   |
| 29  | 2,037                                 | 4.8  | 51.2   | Yes  | 2,429,000                         | 0   |   |
| 30  | 2,112                                 | 4.6  | 50.2   | Yes  | 2,357,000                         | 0   |   |
| 31  | 1,980                                 | 4.2  | 45.3   | Yes  | 2,482,000                         | 0   |   |
| <b>Monthly Cumulative % Off-Spec Water Produced</b> |                                       |  |  |  |                                   |   | 0.00%   |
| Print Name: Dave Embleton                           |                                       |  | Signature:  |  | Cert #: D6098/T6098               |   | Date: 11/7/2024   |

Notes: \* Willamette Wellfield Off