

PWS ID # 4100731

Sample Period: December 2022

Salem Public Works Department

Chlorine/Turbidity/Fluoride Monitoring Report

Marion County

| | Finished Water Turbidity * | Finished Water Total Daily Flow | Minimum Chlorine Residual at First User | Fluoride Grab | Fluoride Feed Rate |
|-------------------|----------------------------|---------------------------------|---|---------------|--------------------|
| Location: | Geren Island | Geren Island | Aldersgate** | Aldersgate** | Geren Island |
| Source ID: | WTP-A | WTP-A | EP-A | EP-A | WTP-A |
| Unit | ntu | MGD | mg/L | mg/L | GPD |
| 12/1/2022 | 0.04 | 21.6 | 1.26 | 0.66 | 55 |
| 12/2/2022 | 0.04 | 21.6 | 1.24 | 0.61 | 56 |
| 12/3/2022 | 0.04 | 20.9 | 1.26 | 0.62 | 53 |
| 12/4/2022 | 0.04 | 19.9 | 1.39 | 0.62 | 50 |
| 12/5/2022 | 0.04 | 21.2 | 1.54 | 0.60 | 54 |
| 12/6/2022 | 0.04 | 23.6 | 1.55 | 0.59 | 60 |
| 12/7/2022 | 0.04 | 22.4 | 1.56 | 0.64 | 59 |
| 12/8/2022 | 0.04 | 22.0 | 1.58 | 0.68 | 58 |
| 12/9/2022 | 0.04 | 22.1 | 1.56 | 0.66 | 58 |
| 12/10/2022 | 0.04 | 22.1 | 1.54 | 0.66 | 58 |
| 12/11/2022 | 0.04 | 22.1 | 1.47 | 0.67 | 59 |
| 12/12/2022 | 0.04 | 22.1 | 1.51 | 0.67 | 58 |
| 12/13/2022 | 0.04 | 23.0 | 1.53 | 0.68 | 61 |
| 12/14/2022 | 0.04 | 23.4 | 1.50 | 0.67 | 62 |
| 12/15/2022 | 0.04 | 23.4 | 1.50 | 0.69 | 62 |
| 12/16/2022 | 0.04 | 22.7 | 1.51 | 0.67 | 61 |
| 12/17/2022 | 0.04 | 21.9 | 1.52 | 0.69 | 58 |
| 12/18/2022 | 0.04 | 23.7 | 1.40 | 0.67 | 63 |
| 12/19/2022 | 0.04 | 24.5 | 1.55 | 0.68 | 66 |
| 12/20/2022 | 0.04 | 24.4 | 1.51 | 0.64 | 65 |
| 12/21/2022 | 0.04 | 22.4 | 1.49 | 0.63 | 59 |
| 12/22/2022 | 0.04 | 22.7 | 1.51 | 0.63 | 60 |
| 12/23/2022 | 0.04 | 23.8 | 1.40 | 0.64 | 64 |
| 12/24/2022 | 0.04 | 24.0 | 1.29 | 0.64 | 64 |
| 12/25/2022 | 0.04 | 24.1 | 1.50 | 0.64 | 64 |
| 12/26/2022 | 0.04 | 24.5 | 1.44 | 0.64 | 65 |
| 12/27/2022 | 0.04 | 20.7 | 1.48 | 0.62 | 54 |
| 12/28/2022 | 0.04 | 20.9 | 1.46 | 0.61 | 54 |
| 12/29/2022 | 0.04 | 22.2 | 1.38 | 0.62 | 59 |
| 12/30/2022 | 0.04 | 22.2 | 1.39 | 0.62 | 57 |
| 12/31/2022 | 0.04 | 22.3 | 1.42 | 0.61 | 58 |
| | | | | | |
| Total | | 698.1 | | | 1,834 |
| Average | 0.04 | 22.5 | 1.5 | 0.64 | |

*Finished water turbidity results are the highest reading of the day from combined filter effluent samples prior to reservoir

**Aldersgate sample site: Aldersgate 7790 Marion Rd. SE, Turner OR. Entry Point A

Treatment: SSF

OHA-Drinking Water Program- Surface Water Quality Form

County Marion

Salem Public Works

ID# OR4100731

WTP-A

Mo/Yr

December,2022

| DATE | Time 0000-2400 | Minimum Cl2 Residual at first user (C) mg/L | Contact Time (T) Minutes | Actual CT C X T | Temp (Deg. C) | pH | Required CT | CT Met? Yes/No | Peak Hourly Demand Flow (MGD) |
|------|-------------------|--|-----------------------------------|---------------------------|----------------------|-----|----------------|--------------------------|---|
| 1 | 2133 | 1.44 | 461 | 664 | 8.1 | 7.5 | 64 | Y | 12.6 |
| 2 | 1756 | 1.35 | 460 | 621 | 8.2 | 7.6 | 76 | Y | 12.6 |
| 3 | 914 | 1.40 | 465 | 651 | 8.0 | 7.5 | 62 | Y | 12.5 |
| 4 | 1945 | 1.56 | 550 | 858 | 8.0 | 7.5 | 64 | Y | 10.5 |
| 5 | 1931 | 1.54 | 397 | 612 | 8.0 | 7.5 | 64 | Y | 14.6 |
| 6 | 1524 | 1.54 | 396 | 610 | 7.8 | 7.5 | 64 | Y | 14.6 |
| 7 | 1405 | 1.56 | 398 | 621 | 7.6 | 7.5 | 64 | Y | 14.6 |
| 8 | 1820 | 1.57 | 446 | 701 | 8.4 | 7.5 | 64 | Y | 13.0 |
| 9 | 1335 | 1.58 | 451 | 712 | 7.8 | 7.4 | 64 | Y | 12.9 |
| 10 | 1812 | 1.45 | 446 | 647 | 8.0 | 7.5 | 64 | Y | 13.0 |
| 11 | 1649 | 1.54 | 446 | 687 | 8.0 | 7.4 | 64 | Y | 13.0 |
| 12 | 1543 | 1.54 | 446 | 687 | 7.7 | 7.5 | 64 | Y | 13.0 |
| 13 | 2310 | 1.52 | 397 | 604 | 8.1 | 7.4 | 64 | Y | 14.6 |
| 14 | 1628 | 1.49 | 387 | 576 | 7.8 | 7.5 | 64 | Y | 15.0 |
| 15 | 1624 | 1.50 | 401 | 601 | 7.6 | 7.5 | 64 | Y | 14.5 |
| 16 | 2015 | 1.63 | 406 | 661 | 7.2 | 7.4 | 65 | Y | 14.3 |
| 17 | 1250 | 1.52 | 414 | 630 | 7.0 | 7.4 | 64 | Y | 14.0 |
| 18 | 1428 | 1.50 | 483 | 725 | 6.6 | 7.4 | 64 | Y | 12.0 |
| 19 | 1922 | 1.56 | 387 | 603 | 7.3 | 7.4 | 64 | Y | 15.0 |
| 20 | 1813 | 1.59 | 379 | 603 | 6.9 | 7.4 | 64 | Y | 15.3 |
| 21 | 1407 | 1.47 | 374 | 550 | 7.3 | 7.4 | 64 | Y | 15.5 |
| 22 | 1434 | 1.45 | 398 | 578 | 7.0 | 7.5 | 64 | Y | 14.6 |
| 23 | 1456 | 1.40 | 400 | 560 | 6.7 | 7.5 | 62 | Y | 14.5 |
| 24 | 1100 | 1.40 | 403 | 565 | 7.2 | 7.6 | 76 | Y | 14.4 |
| 25 | 1155 | 1.54 | 375 | 577 | 6.1 | 7.6 | 77 | Y | 15.5 |
| 26 | 922 | 1.50 | 373 | 560 | 7.2 | 7.6 | 77 | Y | 15.6 |
| 27 | 1720 | 1.52 | 387 | 588 | 7.8 | 7.5 | 64 | Y | 15.0 |
| 28 | 2348 | 1.49 | 422 | 629 | 8.2 | 7.6 | 77 | Y | 13.7 |
| 29 | 1220 | 1.46 | 429 | 626 | 8.8 | 7.4 | 64 | Y | 13.5 |
| 30 | 900 | 1.49 | 414 | 617 | 8.7 | 7.6 | 77 | Y | 14.0 |
| 31 | 1734 | 1.43 | 428 | 612 | 8.2 | 7.4 | 64 | Y | 13.6 |

* Site: Line 1 Aldersgate CT sample point, 7790 Marion Rd. SE Turner, OR

OHA-Drinking Water Program- Surface Water Quality Form

County Marion

Salem Public Works

ID# OR4100731

WTP-A

Mo/Yr

December,2022

| DATE | Time 0000-2400 | Minimum Cl2 Residual at first user (C) mg/L | Contact Time (T) Minutes | Actual CT C X T | Temp (Deg. C) | pH | Required CT | CT Met? Yes/No | Peak Hourly Demand Flow (MGD) |
|------|-------------------|--|-----------------------------------|---------------------------|----------------------|-----|----------------|--------------------------|---|
| 1 | 143 | 1.26 | 856 | 1,079 | 9.4 | 7.6 | 76 | Y | 10.0 |
| 2 | 1054 | 1.24 | 860 | 1,066 | 8.9 | 7.6 | 76 | Y | 9.9 |
| 3 | 641 | 1.26 | 731 | 921 | 8.8 | 7.6 | 76 | Y | 11.7 |
| 4 | 228 | 1.39 | 834 | 1,159 | 8.8 | 7.5 | 64 | Y | 10.2 |
| 5 | 404 | 1.54 | 619 | 954 | 8.7 | 7.5 | 64 | Y | 13.8 |
| 6 | 1848 | 1.55 | 860 | 1,333 | 8.6 | 7.5 | 64 | Y | 9.9 |
| 7 | 4 | 1.56 | 764 | 1,192 | 8.3 | 7.5 | 64 | Y | 11.2 |
| 8 | 140 | 1.58 | 852 | 1,346 | 8.6 | 7.5 | 64 | Y | 10.0 |
| 9 | 403 | 1.56 | 856 | 1,336 | 8.5 | 7.5 | 65 | Y | 10.0 |
| 10 | 651 | 1.54 | 897 | 1,381 | 8.5 | 7.5 | 64 | Y | 9.5 |
| 11 | 622 | 1.47 | 897 | 1,318 | 8.5 | 7.5 | 64 | Y | 9.5 |
| 12 | 455 | 1.51 | 897 | 1,354 | 8.4 | 7.4 | 64 | Y | 9.5 |
| 13 | 240 | 1.53 | 753 | 1,152 | 8.4 | 7.4 | 64 | Y | 11.3 |
| 14 | 2303 | 1.50 | 875 | 1,312 | 8.3 | 7.5 | 64 | Y | 9.7 |
| 15 | 542 | 1.50 | 863 | 1,295 | 8.2 | 7.5 | 64 | Y | 9.9 |
| 16 | 1249 | 1.51 | 726 | 1,097 | 7.8 | 7.5 | 64 | Y | 11.7 |
| 17 | 1442 | 1.52 | 775 | 1,177 | 7.7 | 7.5 | 64 | Y | 11.0 |
| 18 | 1556 | 1.40 | 775 | 1,084 | 7.5 | 7.5 | 64 | Y | 11.0 |
| 19 | 1021 | 1.55 | 852 | 1,321 | 7.5 | 7.5 | 64 | Y | 10.0 |
| 20 | 1814 | 1.51 | 851 | 1,285 | 7.4 | 7.4 | 64 | Y | 10.0 |
| 21 | 530 | 1.49 | 609 | 907 | 7.4 | 7.5 | 64 | Y | 14.0 |
| 22 | 1345 | 1.51 | 634 | 957 | 7.3 | 7.5 | 64 | Y | 13.4 |
| 23 | 2332 | 1.40 | 811 | 1,136 | 7.2 | 7.5 | 64 | Y | 10.5 |
| 24 | 1830 | 1.29 | 789 | 1,018 | 7.3 | 7.6 | 76 | Y | 10.8 |
| 25 | 2257 | 1.50 | 802 | 1,203 | 6.9 | 7.7 | 77 | Y | 10.6 |
| 26 | 2316 | 1.44 | 801 | 1,153 | 7.8 | 7.6 | 77 | Y | 10.6 |
| 27 | 2013 | 1.48 | 602 | 891 | 7.8 | 7.6 | 77 | Y | 14.2 |
| 28 | 1251 | 1.46 | 673 | 983 | 8.1 | 7.6 | 77 | Y | 12.7 |
| 29 | 1314 | 1.38 | 902 | 1,244 | 8.3 | 7.6 | 76 | Y | 9.5 |
| 30 | 152 | 1.39 | 897 | 1,247 | 8.4 | 7.5 | 62 | Y | 9.5 |
| 31 | 705 | 1.42 | 891 | 1,265 | 8.3 | 7.5 | 62 | Y | 9.6 |

* Site: Line 2 at Aldersgate CT point, 7790 Marion Rd. SE. Turner, OR



Chlorine/Turbidity/CT Summary Report

| | |
|--|---|
| PWS ID#: 4100731 System Name: <i>Salem Public Works Department</i> Address: 1410 20th St SE, Bldg 2 Salem OR 97302 Contact Person: Dwayne Barnes, Utility Operations Manager Contact Number: 503-588-6483 Source Water: North Santiam River Treatment Type: Slow Sand Filtration Sample Location: Aldersgate and Geren Island | Sample Period: December 2022 Laboratory Results: <i>Willow Lake Lab</i> OHD-Certified Lab: OR100010 Date Report Issued: 1/5/2023 Contact Person: Paul Mitchell Contact Number: 503-588-6380 Sampler: Treatment Operators Sample Date: As reported Source ID #: EP-A and WTP-A |
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Summary Table

| | | |
|---------------------|---|------------|
| 1. Turbidity | Were 95 percent of the turbidity readings less than or equal to 1.0 NTU for the month? | Yes |
| 2. Turbidity | Were all turbidity readings less than or equal to 5.0 NTU for the month? | Yes |
| 3. CT | Were all CTs values met each day of the month? | Yes |
| 4. Chlorine | Were all entry point chlorine residuals readings greater than or equal to 0.2 mg/L for the month? | Yes |
| 5. Chlorine | Was a detectable chlorine residual measured in at least 95% of the samples measured for the month? | Yes |

Print Name: Dwayne Barnes, Utility Operations Manager

Signature:

Date: January 6, 2023