


**OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration**

System Name: CLACKAMAS RIVER WATER - CLACKAMAS ID #: 4100187 WTP: A Month/Year: Oct-2024

| DAY | 2 AM [NTU] | 6 AM [NTU] | 10 AM [NTU] | 2 PM [NTU] | 6 PM [NTU] | 10 PM [NTU] | Highest Reading of the Day ¹ [NTU] |
|-----|------------|------------|-------------|------------|------------|-------------|---|
| 1 | off | off | 0.05 | 0.06 | 0.07 | 0.07 | 0.07 |
| 2 | off | off | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 |
| 3 | off | off | 0.06 | 0.06 | 0.06 | 0.09 | 0.09 |
| 4 | off | off | 0.09 | 0.08 | 0.06 | 0.07 | 0.09 |
| 5 | off | off | 0.05 | 0.04 | off | off | 0.05 |
| 6 | off | 0.05 | 0.05 | off | off | off | 0.05 |
| 7 | off | off | 0.07 | 0.07 | 0.06 | 0.06 | 0.07 |
| 8 | off | off | off | 0.08 | 0.08 | 0.08 | 0.08 |
| 9 | off | off | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 |
| 10 | off | off | 0.09 | 0.08 | off | off | 0.09 |
| 11 | off | off | 0.08 | 0.08 | 0.06 | 0.07 | 0.08 |
| 12 | off | off | 0.07 | 0.06 | off | off | 0.07 |
| 13 | off | 0.07 | 0.07 | off | off | off | 0.07 |
| 14 | off | off | 0.09 | 0.07 | 0.08 | 0.06 | 0.09 |
| 15 | off | off | 0.07 | 0.07 | 0.07 | 0.05 | 0.07 |
| 16 | off | off | 0.07 | off | 0.08 | 0.06 | 0.08 |
| 17 | off | off | off | 0.06 | 0.07 | 0.07 | 0.07 |
| 18 | off | off | 0.08 | 0.08 | 0.07 | 0.07 | 0.08 |
| 19 | off | off | 0.07 | 0.07 | off | off | 0.07 |
| 20 | off | 0.06 | 0.07 | off | off | off | 0.07 |
| 21 | off | off | 0.06 | 0.06 | 0.08 | 0.07 | 0.08 |
| 22 | off | off | off | 0.06 | 0.06 | 0.06 | 0.06 |
| 23 | off | off | off | 0.02 | 0.08 | 0.06 | 0.08 |
| 24 | off | off | off | 0.05 | 0.08 | 0.08 | 0.08 |
| 25 | off | off | 0.08 | 0.07 | 0.07 | 0.06 | 0.08 |
| 26 | off | off | 0.09 | 0.09 | off | off | 0.09 |
| 27 | off | 0.08 | 0.07 | off | off | off | 0.08 |
| 28 | off | off | 0.07 | 0.08 | off | off | 0.08 |
| 29 | off | off | 0.06 | 0.08 | 0.08 | 0.08 | 0.08 |
| 30 | off | off | off | 0.08 | 0.09 | 0.07 | 0.09 |
| 31 | off | off | 0.07 | 0.07 | off | off | 0.07 |

| | | | |
|--|---|--|--|
| Conventional or Direct Filtration | | Monthly Summary (Answer Yes or No) | |
| 95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes / <input type="radio"/> No | CT's met everyday? (see back) <input checked="" type="radio"/> Yes / <input type="radio"/> No | All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes / <input type="radio"/> No | |
| All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="radio"/> Yes / <input type="radio"/> No | | | |
| All turbidity readings < IFE ² triggers? <input checked="" type="radio"/> Yes / <input type="radio"/> No ² | | | |
| Notes: | PRINTED NAME: STEVE HOUCK | | |
| | SIGNATURE:  | DATE: 11-4-24 | |
| | PHONE #: (503) 793-3691 | CERT #: 341693 | |

¹ Including continuous turbidity data, if applicable, for optimization recording purposes. Compliance values in columns "12 AM" through "8 PM" may not correspond to continuous readings' maximum. ² IFE = Individ. Filter Effl. (OAR 333-061-0040(1)(e)(B&C))

OHA - Drinking Water Program - Surface Water Quality Data Form

System Name: Clackamas River Water-Clackamas ID#: 4100187 WTP: A Disinfection *Giardia* Log Inactiv: 1

Oct-2024

| Date / Time | Pre-Chlorination Segment | | | | | | | | | Post-Chlorination Segment | | | | | | | | | Total | CT Met? ³ Yes / No | | |
|-------------|---|--|-------------------------------------|--------------------------|----------|---------------------|--------------------------------|-------------------------------|---|--|---|--------------------------------------|---------------------------|-----------|----------------------|--------------------------------|--------------------------------|--|-------|----------------------------------|---|--|
| | Minimum free chlorine residual after pre-chlorination (C) ₃ [ppm or mg/L] | Peak hourly demand flow (Pre) [GPM] | Contact time (Pre) (T) [minutes] | Actual CT (Pre) C X T | pH (Pre) | temp (Pre) [° C] | Required CT (Total) formula | Actual CT / Required CT (Pre) | Percent log inactivation achieved (Pre) | Minimum free chlorine residual after post-chlorination (C) ₃ [ppm or mg/L] | Peak hourly demand flow (Post) [GPM] | Contact Time (Post) (T) [minutes] | Actual CT (Post) C X T | pH (Post) | temp (Post) [° C] | Required CT (Total) formula | Actual CT / Required CT (Post) | Percent log inactivation achieved (Post) | | | Actual CT / Required CT Sum of Pre and Post | Total percent of require log inactivation achieved |
| | | | | | | | | | | | | | | | | | | | | | | |
| 1/ 09:00 | 1.04 | 8798 | 38.2 | 39.7 | 7.85 | 15.0 | 37.5 | 1.1 | 105.9 | 1.29 | 9868 | 75.8 | 97.7 | 7.69 | 15.6 | 35.0 | 2.8 | 279.1 | 3.85 | 385.0 | Y | |
| 2/ 20:00 | 0.78 | 7819 | 37.0 | 28.8 | 8.00 | 16.3 | 35.2 | 0.8 | 81.8 | 1.19 | 9346 | 75.7 | 90.1 | 7.71 | 15.8 | 34.4 | 2.6 | 261.9 | 3.43 | 343.7 | Y | |
| 3/ 17:00 | 0.61 | 12736 | 31.4 | 19.2 | 7.92 | 15.0 | 36.5 | 0.5 | 52.6 | 1.07 | 14541 | 50.5 | 54.0 | 7.71 | 14.3 | 37.4 | 1.4 | 144.4 | 1.97 | 197.0 | Y | |
| 4/ 15:00 | 0.69 | 7881 | 41.7 | 28.8 | 7.89 | 13.9 | 39.3 | 0.7 | 73.3 | 1.20 | 8666 | 82.3 | 98.7 | 7.80 | 13.4 | 41.8 | 2.4 | 236.1 | 3.09 | 309.4 | Y | |
| 5/ 17:00 | 0.79 | 7243 | 44.0 | 34.8 | 7.99 | 15.4 | 37.3 | 0.9 | 93.3 | 1.08 | 7402 | 97.2 | 105.0 | 7.75 | 14.5 | 37.4 | 2.8 | 280.7 | 3.74 | 374.0 | Y | |
| 6/ 11:00 | 0.74 | 4673 | 59.3 | 43.9 | 7.85 | 13.9 | 39.1 | 1.1 | 112.3 | 1.08 | 5187 | 140.5 | 151.7 | 7.69 | 13.9 | 38.3 | 4.0 | 396.1 | 5.09 | 508.4 | Y | |
| 7/ 20:00 | 0.89 | 8777 | 37.9 | 33.7 | 8.00 | 15.7 | 37.2 | 0.9 | 90.6 | 1.22 | 11805 | 64.2 | 78.3 | 7.66 | 15.1 | 35.4 | 2.2 | 221.2 | 3.12 | 311.8 | Y | |
| 8/ 22:00 | 0.93 | 7215 | 42.8 | 39.8 | 7.80 | 16.0 | 33.9 | 1.2 | 117.4 | 1.08 | 8194 | 92.2 | 99.6 | 7.68 | 15.0 | 35.4 | 2.8 | 281.4 | 3.99 | 398.8 | Y | |
| 9/ 21:00 | 0.93 | 12145 | 32.9 | 30.6 | 8.00 | 15.6 | 37.5 | 0.8 | 81.6 | 1.35 | 13881 | 54.0 | 72.8 | 7.63 | 14.5 | 37.0 | 2.0 | 196.8 | 2.78 | 278.4 | Y | |
| 10/ 09:00 | 0.73 | 7756 | 40.9 | 29.9 | 8.00 | 14.1 | 40.5 | 0.7 | 73.8 | 0.44 | 10874 | 67.2 | 63.1 | 7.70 | 13.9 | 37.6 | 1.7 | 167.8 | 2.42 | 241.6 | Y | |
| 11/ 17:00 | 0.84 | 7166 | 45.3 | 40.4 | 8.00 | 14.3 | 40.9 | 1.0 | 98.8 | 1.24 | 7944 | 90.2 | 110.9 | 7.70 | 12.9 | 41.7 | 2.7 | 265.9 | 3.60 | 364.7 | Y | |
| 12/ 13:00 | 0.76 | 8645 | 38.7 | 29.4 | 8.00 | 14.4 | 39.8 | 0.7 | 73.9 | 1.13 | 9673 | 75.5 | 85.3 | 7.69 | 13.4 | 39.6 | 2.2 | 215.4 | 2.89 | 289.3 | Y | |
| 13/ 14:00 | 0.73 | 7687 | 44.6 | 32.6 | 8.00 | 14.6 | 39.3 | 0.8 | 83.0 | 1.10 | 7979 | 92.7 | 102.0 | 7.69 | 13.2 | 40.1 | 2.5 | 254.4 | 3.37 | 337.3 | Y | |
| 14/ 16:00 | 0.88 | 7194 | 45.4 | 40.0 | 8.00 | 15.4 | 37.9 | 1.1 | 105.5 | 1.00 | 8194 | 88.9 | 88.9 | 7.72 | 13.7 | 38.8 | 2.3 | 229.1 | 3.35 | 334.7 | Y | |
| 15/ 08:00 | 0.67 | 4708 | 46.7 | 31.3 | 8.00 | 16.4 | 34.7 | 0.9 | 90.2 | 1.03 | 8159 | 89.0 | 91.6 | 7.62 | 14.9 | 34.5 | 2.7 | 265.5 | 3.56 | 355.7 | Y | |
| 16/ 20:00 | 0.71 | 11784 | 33.6 | 23.8 | 8.00 | 15.1 | 37.8 | 0.6 | 63.0 | 1.02 | 12409 | 61.2 | 62.4 | 7.75 | 14.1 | 38.4 | 1.6 | 162.5 | 2.26 | 225.5 | Y | |
| 17/ 17:00 | 0.89 | 12687 | 32.2 | 28.7 | 8.00 | 14.3 | 40.7 | 0.7 | 70.5 | 1.34 | 13527 | 56.0 | 75.0 | 7.84 | 13.2 | 43.5 | 1.7 | 172.4 | 2.43 | 242.9 | Y | |
| 18/ 21:00 | 0.85 | 4097 | 62.2 | 52.9 | 8.00 | 13.9 | 41.7 | 1.3 | 126.9 | 1.13 | 5041 | 141.4 | 159.8 | 7.68 | 12.4 | 42.5 | 3.8 | 376.0 | 5.03 | 502.9 | Y | |
| 19/ 15:00 | 0.85 | 7673 | 41.4 | 35.2 | 8.00 | 14.8 | 39.4 | 0.9 | 89.3 | 1.08 | 8381 | 85.1 | 92.0 | 7.70 | 13.3 | 40.0 | 2.3 | 230.0 | 3.19 | 319.3 | Y | |
| 20/ 11:00 | 0.73 | 4597 | 55.1 | 40.2 | 8.00 | 14.0 | 40.8 | 1.0 | 98.5 | 1.10 | 5201 | 139.7 | 153.7 | 7.64 | 13.3 | 39.0 | 3.9 | 394.1 | 4.92 | 492.6 | Y | |
| 21/ 20:00 | 0.62 | 8868 | 31.3 | 19.4 | 8.00 | 14.9 | 38.0 | 0.5 | 51.1 | 1.20 | 11784 | 63.3 | 76.0 | 7.66 | 13.7 | 38.8 | 2.0 | 195.9 | 2.47 | 246.9 | Y | |
| 22/ 11:00 | 0.55 | 8763 | 38.7 | 21.3 | 8.00 | 13.8 | 40.5 | 0.5 | 52.6 | 1.17 | 9895 | 72.8 | 85.2 | 7.65 | 13.5 | 39.1 | 2.2 | 217.9 | 2.70 | 270.5 | Y | |
| 23/ 16:00 | 0.63 | 7729 | 35.3 | 22.2 | 8.00 | 13.2 | 42.7 | 0.5 | 52.0 | 1.24 | 9868 | 75.8 | 93.9 | 7.70 | 12.0 | 44.3 | 2.1 | 212.0 | 2.64 | 264.0 | Y | |
| 24/ 18:00 | 0.89 | 12597 | 31.8 | 28.3 | 8.00 | 12.6 | 45.5 | 0.6 | 62.2 | 1.22 | 14020 | 53.6 | 65.3 | 7.66 | 11.3 | 45.8 | 1.4 | 142.6 | 2.05 | 204.8 | Y | |
| 25/ 22:00 | 0.82 | 4611 | 58.2 | 47.7 | 8.00 | 13.2 | 43.5 | 1.1 | 109.7 | 1.07 | 5270 | 137.1 | 146.7 | 7.66 | 11.5 | 44.3 | 3.3 | 331.2 | 4.41 | 440.8 | Y | |
| 26/ 20:00 | 0.77 | 7624 | 40.5 | 31.2 | 8.00 | 14.2 | 40.6 | 0.8 | 76.8 | 1.08 | 7986 | 92.2 | 99.6 | 7.68 | 12.8 | 40.9 | 2.4 | 243.5 | 3.20 | 320.4 | Y | |
| 27/ 14:00 | 0.62 | 8027 | 43.5 | 27.0 | 8.00 | 14.1 | 40.2 | 0.7 | 67.2 | 1.15 | 8034 | 90.8 | 104.4 | 7.67 | 12.8 | 41.1 | 2.5 | 254.0 | 3.21 | 321.2 | Y | |
| 28/ 09:00 | 0.76 | 7368 | 47.1 | 35.8 | 8.00 | 13.6 | 42.0 | 0.6 | 85.2 | 0.81 | 8118 | 89.0 | 72.1 | 7.65 | 12.6 | 39.2 | 1.8 | 183.9 | 2.66 | 269.2 | Y | |
| 29/ 13:00 | 0.64 | 11999 | 34.1 | 21.8 | 8.00 | 12.6 | 44.4 | 0.5 | 49.1 | 1.16 | 12263 | 59.0 | 68.5 | 7.70 | 11.1 | 46.7 | 1.5 | 146.7 | 1.96 | 195.8 | Y | |
| 30/ 19:00 | 0.81 | 9118 | 36.6 | 29.6 | 8.00 | 11.9 | 47.2 | 0.6 | 62.7 | 1.12 | 10888 | 71.1 | 79.6 | 7.73 | 10.7 | 48.2 | 1.7 | 165.1 | 2.28 | 227.9 | Y | |
| 31/ 16:00 | 0.60 | 7319 | 45.2 | 27.1 | 8.00 | 12.1 | 45.7 | 0.6 | 59.3 | 1.01 | 8826 | 82.9 | 83.2 | 7.07 | 10.80 | 46.1 | 1.8 | 180.5 | 2.41 | 239.8 | Y | |

³ If Cl2 at entry point < 0.2 mg/l or CT not met, DWP to be notified by end of next business day.