

OHA - Drinking Water Program - Surface Water Quality Data Form  
 Slow Sand, Membrane, Diatomaceous Earth Filtration, or Unfiltered Systems

County: Clatsop

Month/Year: May-23

System Name: Arch Cape Water District ID#: 41 00802

WTP: TP - A

| Day | 12 AM [NTU] | 4 AM [NTU] | 8 AM [NTU] | NOON [NTU] | 4 PM [NTU] | 8 PM [NTU] | Highest Reading of the day <sup>1</sup> [NTU] |
|-----|-------------|------------|------------|------------|------------|------------|---|
| 1   | PO          | PO         | 0.02       | 0.02       | 0.03       | 0.03       | 0.19  |
| 2   | 0.02        | PO         | PO         | PO         | PO         | PO         | 0.03  |
| 3   | 0.03        | 0.03       | 0.02       | PO         | PO         | PO         | 0.66  |
| 4   | PO          | PO         | PO         | 0.02       | 0.03       | 0.02       | 0.06  |
| 5   | 0.03        | 0.02       | 0.02       | PO         | PO         | PO         | 0.03  |
| 6   | PO          | PO         | 0.03       | 0.02       | 0.02       | 0.02       | 0.51  |
| 7   | 0.03        | PO         | PO         | PO         | PO         | PO         | 0.18  |
| 8   | 0.02        | 0.02       | 0.02       | 0.02       | 0.02       | PO         | 0.63  |
| 9   | PO          | PO         | PO         | PO         | 0.03       | 0.03       | 0.04  |
| 10  | 0.03        | 0.03       | 0.03       | PO         | PO         | PO         | 0.05  |
| 11  | PO          | PO         | 0.02       | 0.02       | 0.02       | 0.02       | 0.49  |
| 12  | 0.02        | PO         | PO         | PO         | PO         | 0.02       | 0.06  |
| 13  | 0.02        | 0.02       | 0.02       | 0.02       | 0.02       | 0.02       | 0.40  |
| 14  | PO          | PO         | PO         | PO         | 0.02       | 0.02       | 0.04  |
| 15  | 0.03        | 0.02       | 0.02       | PO         | PO         | PO         | 0.72  |
| 16  | PO          | PO         | 0.03       | 0.02       | 0.02       | 0.02       | 0.07  |
| 17  | 0.02        | 0.03       | 0.03       | 0.03       | 0.03       | 0.03       | 0.09  |
| 18  | 0.02        | 0.02       | 0.02       | 0.02       | 0.02       | PO         | 0.06  |
| 19  | PO          | PO         | PO         | PO         | 0.04       | 0.03       | 0.09  |
| 20  | 0.02        | 0.03       | 0.03       | PO         | PO         | PO         | 0.75  |
| 21  | PO          | 0.04       | 0.02       | 0.02       | 0.02       | 0.02       | 0.07  |
| 22  | 0.03        | PO         | PO         | PO         | PO         | PO         | 0.12  |
| 23  | 0.03        | 0.02       | 0.04       | 0.02       | 0.02       | PO         | 0.23  |
| 24  | PO          | PO         | PO         | 0.03       | 0.02       | 0.02       | 0.12  |
| 25  | 0.03        | 0.02       | 0.02       | PO         | PO         | PO         | 0.03  |
| 26  | PO          | 0.03       | 0.03       | 0.02       | 0.02       | 0.02       | 0.24  |
| 27  | 0.03        | PO         | PO         | PO         | PO         | 0.02       | 0.09  |
| 28  | 0.02        | 0.03       | 0.02       | 0.02       | 0.02       | 0.03       | 0.28  |
| 29  | 0.02        | PO         | PO         | PO         | 0.02       | 0.02       | 0.14  |
| 30  | 0.02        | 0.02       | 0.03       | PO         | PO         | PO         | 0.07  |
| 31  | PO          | PO         | 0.02       | 0.02       | 0.04       | 0.02       | 0.08  |

**Slow Sand/Membrane/DE Filtration/Unfiltered**

95% of daily turbidity readings ≤ 1 NTU? <sup>2</sup>  Yes /  No

All daily turbidity readings ≤ 5 NTU?  Yes /  No

**Monthly Summary (Answer Yes or No)**

CT's met everyday? (see back)  Yes /  No

All Cl2 residual at entry point ≥ 0.2 mg/l?  Yes /  No

Notes:

PRINTED NAME: Matthew R. Goodner

SIGNATURE: *Matthew R. Goodner*

PHONE #: 503, 436 2790

DATE: 6/6/23

CERT #: T-09382

<sup>1</sup> Including continuous NTU data, if applicable, for optimization recording purposes. Compliance values in columns 12 AM through 8 PM may not correspond to continuous readings' maximum. <sup>2</sup> Filtered systems only. D-09383

OHA - Drinking Water Program - Surface Water Quality Data Form

|  |         |
|--|---------|
| County:                                  | Clatsop |
| WTP- :                                   | A       |
| Disinfection <i>Giardia</i> Log Inactiv: | 0.50    |

System Name: Arch Cape Water District ID#: 41 00802 Month/Year: May-23

| Date / Time | Minimum Cl <sub>2</sub> Residual at 1st User (C) <sup>3</sup> | Contact Time (T) | Actual CT | Temp  | pH   | Required CT | CT Met? <sup>3</sup> | Peak Hourly Demand Flow |
|-------------|---|------------------|-----------|-------|------|-------------|----------------------|-------------------------|
|             | [ppm or mg/L]   | [minutes]        | C X T     | [° C] |      | formula     | Yes / No             | [GPM]                   |
| 1           | 0.82  | 275              | 225.8     | 11.1  | 7.13 | 18.4        |                      | 77                      |
| 2           | 0.82  | 373              | 305.8     | 11.2  | 7.10 | 18.1        |                      | 60                      |
| 3           | 0.8   | 294              | 235.2     | 11.1  | 7.12 | 18.3        |                      | 74                      |
| 4           | 0.79  | 236              | 186.3     | 11.1  | 7.14 | 18.4        |                      | 87                      |
| 5           | 0.77  | 301              | 231.8     | 10.9  | 7.15 | 18.7        |                      | 75                      |
| 6           | 0.76  | 236              | 179.4     | 10.9  | 7.17 | 18.8        |                      | 91                      |
| 7           | 0.79  | 248              | 195.8     | 11.0  | 7.15 | 18.6        |                      | 90                      |
| 8           | 0.8   | 255              | 204.0     | 11.1  | 7.19 | 18.8        |                      | 88                      |
| 9           | 0.79  | 73               | 57.5      | 11.2  | 7.10 | 18.1        |                      | 293                     |
| 10          | 0.82  | 275              | 225.8     | 11.4  | 7.21 | 18.6        |                      | 80                      |
| 11          | 0.8   | 260              | 208.2     | 11.4  | 7.18 | 18.3        |                      | 82                      |
| 12          | 0.78  | 275              | 214.8     | 11.7  | 7.21 | 18.1        |                      | 81                      |
| 13          | 0.77  | 285              | 219.5     | 12.0  | 7.19 | 17.6        |                      | 78                      |
| 14          | 0.76  | 210              | 159.5     | 12.6  | 7.15 | 16.4        |                      | 103                     |
| 15          | 0.77  | 220              | 169.3     | 13.2  | 7.27 | 16.5        |                      | 103                     |
| 16          | 0.76  | 249              | 188.9     | 13.7  | 7.20 | 15.6        |                      | 85                      |
| 17          | 0.85  | 243              | 206.7     | 14.4  | 7.18 | 14.9        |                      | 92                      |
| 18          | 0.84  | 255              | 214.0     | 14.6  | 7.23 | 15.0        |                      | 87                      |
| 19          | 0.82  | 193              | 158.7     | 14.4  | 7.24 | 15.2        |                      | 111                     |
| 20          | 0.83  | 209              | 173.5     | 14.4  | 7.18 | 14.9        |                      | 109                     |
| 21          | 0.8   | 213              | 170.1     | 14.5  | 7.25 | 15.1        |                      | 101                     |
| 22          | 0.8   | 271              | 216.9     | 14.1  | 7.25 | 15.5        |                      | 89                      |
| 23          | 0.8   | 268              | 214.3     | 13.9  | 7.26 | 15.8        |                      | 83                      |
| 24          | 0.78  | 203              | 158.5     | 14.1  | 7.32 | 15.9        |                      | 105                     |
| 25          | 0.78  | 287              | 223.6     | 13.5  | 7.25 | 16.1        |                      | 79                      |
| 26          | 0.77  | 188              | 144.7     | 14.5  | 7.34 | 15.6        |                      | 115                     |
| 27          | 0.78  | 230              | 179.3     | 13.6  | 7.35 | 16.6        |                      | 97                      |
| 28          | 0.78  | 215              | 167.9     | 13.5  | 7.32 | 16.5        |                      | 103                     |
| 29          | 0.77  | 226              | 174.2     | 13.5  | 7.34 | 16.6        |                      | 98                      |
| 30          | 0.76  | 266              | 202.5     | 13.3  | 7.36 | 17.0        |                      | 85                      |
| 31          | 0.74  | 228              | 168.5     | 13.3  | 7.36 | 16.9        |                      | 94                      |

<sup>3</sup> If Cl<sub>2</sub> at entry point < 0.2 mg/l or CT not met, DWP to be notified by end of next business day.

Enter data in green shaded cells.

| Date | Total Contact Time (min) | Lowest Reservoir Level (ft) | Volume/ft of depth (gal) | Baffling Factor (%) | Effective Reservoir Volume (gal) | Peak Hour Demand (gpm) | Tank Contact Time (min) | Pipe Diameter (in) | Pipe Length (ft) | Pipe Volume (gal) (baffling = 1) | Pipe Contact Time (min) |
|------|--------------------------|-----------------------------|--------------------------|---------------------|----------------------------------|------------------------|-------------------------|--------------------|------------------|----------------------------------|-------------------------|
| 1    | 275                      | 24.7                        | 18,381                   | 0.0375              | 17,025                           | 77                     | 221                     | 8                  | 1,600            | 4,176                            | 54                      |
| 2    | 373                      | 26.4                        | 18,381                   | 0.0375              | 18,197                           | 60                     | 303                     | 8                  | 1,600            | 4,176                            | 70                      |
| 3    | 294                      | 25.5                        | 18,381                   | 0.0375              | 17,577                           | 74                     | 238                     | 8                  | 1,600            | 4,176                            | 56                      |
| 4    | 236                      | 23.7                        | 18,381                   | 0.0375              | 16,336                           | 87                     | 188                     | 8                  | 1,600            | 4,176                            | 48                      |
| 5    | 301                      | 26.7                        | 18,381                   | 0.0375              | 18,404                           | 75                     | 245                     | 8                  | 1,600            | 4,176                            | 56                      |
| 6    | 236                      | 25.1                        | 18,381                   | 0.0375              | 17,301                           | 91                     | 190                     | 8                  | 1,600            | 4,176                            | 46                      |
| 7    | 248                      | 26.3                        | 18,381                   | 0.0375              | 18,128                           | 90                     | 201                     | 8                  | 1,600            | 4,176                            | 46                      |
| 8    | 255                      | 26.5                        | 18,381                   | 0.0375              | 18,266                           | 88                     | 208                     | 8                  | 1,600            | 4,176                            | 47                      |
| 9    | 73                       | 24.9                        | 18,381                   | 0.0375              | 17,163                           | 293                    | 59                      | 8                  | 1,600            | 4,176                            | 14                      |
| 10   | 275                      | 25.9                        | 18,381                   | 0.0375              | 17,853                           | 80                     | 223                     | 8                  | 1,600            | 4,176                            | 52                      |
| 11   | 260                      | 24.9                        | 18,381                   | 0.0375              | 17,163                           | 82                     | 209                     | 8                  | 1,600            | 4,176                            | 51                      |
| 12   | 275                      | 26.3                        | 18,381                   | 0.0375              | 18,128                           | 81                     | 224                     | 8                  | 1,600            | 4,176                            | 52                      |
| 13   | 285                      | 26.2                        | 18,381                   | 0.0375              | 18,059                           | 78                     | 232                     | 8                  | 1,600            | 4,176                            | 54                      |
| 14   | 210                      | 25.3                        | 18,381                   | 0.0375              | 17,439                           | 103                    | 169                     | 8                  | 1,600            | 4,176                            | 41                      |
| 15   | 220                      | 26.8                        | 18,381                   | 0.0375              | 18,473                           | 103                    | 179                     | 8                  | 1,600            | 4,176                            | 41                      |
| 16   | 249                      | 24.6                        | 18,381                   | 0.0375              | 16,956                           | 85                     | 199                     | 8                  | 1,600            | 4,176                            | 49                      |
| 17   | 243                      | 26.4                        | 18,381                   | 0.0375              | 18,197                           | 92                     | 198                     | 8                  | 1,600            | 4,176                            | 45                      |
| 18   | 255                      | 26.1                        | 18,381                   | 0.0375              | 17,990                           | 87                     | 207                     | 8                  | 1,600            | 4,176                            | 48                      |
| 19   | 193                      | 25.1                        | 18,381                   | 0.0375              | 17,301                           | 111                    | 156                     | 8                  | 1,600            | 4,176                            | 38                      |
| 20   | 209                      | 27                          | 18,381                   | 0.0375              | 18,611                           | 109                    | 171                     | 8                  | 1,600            | 4,176                            | 38                      |
| 21   | 213                      | 25.1                        | 18,381                   | 0.0375              | 17,301                           | 101                    | 171                     | 8                  | 1,600            | 4,176                            | 41                      |
| 22   | 271                      | 26.2                        | 18,381                   | 0.0375              | 18,059                           | 82                     | 220                     | 8                  | 1,600            | 4,176                            | 51                      |
| 23   | 268                      | 26.2                        | 18,381                   | 0.0375              | 18,059                           | 83                     | 218                     | 8                  | 1,600            | 4,176                            | 50                      |
| 24   | 203                      | 24.9                        | 18,381                   | 0.0375              | 17,163                           | 105                    | 163                     | 8                  | 1,600            | 4,176                            | 40                      |
| 25   | 287                      | 26.8                        | 18,381                   | 0.0375              | 18,473                           | 79                     | 234                     | 8                  | 1,600            | 4,176                            | 53                      |
| 26   | 188                      | 25.3                        | 18,381                   | 0.0375              | 17,439                           | 115                    | 152                     | 8                  | 1,600            | 4,176                            | 36                      |
| 27   | 230                      | 26.3                        | 18,381                   | 0.0375              | 18,128                           | 97                     | 187                     | 8                  | 1,600            | 4,176                            | 43                      |
| 28   | 215                      | 26.1                        | 18,381                   | 0.0375              | 17,990                           | 103                    | 175                     | 8                  | 1,600            | 4,176                            | 41                      |
| 29   | 226                      | 26.1                        | 18,381                   | 0.0375              | 17,990                           | 98                     | 184                     | 8                  | 1,600            | 4,176                            | 43                      |
| 30   | 266                      | 26.8                        | 18,381                   | 0.0375              | 18,473                           | 85                     | 217                     | 8                  | 1,600            | 4,176                            | 49                      |
| 31   | 228                      | 25                          | 18,381                   | 0.0375              | 17,232                           | 94                     | 183                     | 8                  | 1,600            | 4,176                            | 44                      |