

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

County: Clatsop

Month/Year: Feb-22

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   | 0.03        | PO         | PO         | PO         | 0.03       | 0.03       | 0.15  |
| 2   | PO          | PO         | PO         | PO         | PO         | PO         | 0.62  |
| 3   | 0.04        | 0.04       | 0.04       | 0.04       | 0.04       | PO         | 0.43  |
| 4   | PO          | PO         | PO         | PO         | PO         | 0.04       | 1.59  |
| 5   | 0.04        | 0.07       | 0.04       | PO         | PO         | PO         | 1.38  |
| 6   | PO          | PO         | PO         | 0.04       | 0.06       | 0.04       | 0.22  |
| 7   | 0.04        | 0.04       | PO         | PO         | PO         | PO         | 0.09  |
| 8   | PO          | 0.06       | 0.04       | 0.04       | 0.04       | 0.04       | 1.84  |
| 9   | PO          | PO         | PO         | PO         | PO         | PO         | 0.47  |
| 10  | 0.06        | 0.04       | 0.04       | 0.03       | PO         | PO         | 0.16  |
| 11  | PO          | PO         | PO         | PO         | 0.04       | 0.04       | 0.13  |
| 12  | 0.04        | 0.04       | 0.03       | PO         | PO         | PO         | 0.03  |
| 13  | PO          | 0.03       | 0.03       | 0.03       | 0.03       | 0.03       | 0.35  |
| 14  | PO          | PO         | PO         | PO         | PO         | PO         | 0.27  |
| 15  | 0.04        | 0.04       | 0.05       | 0.04       | PO         | PO         | 0.32  |
| 16  | PO          | PO         | PO         | PO         | 0.05       | 0.04       | 0.24  |
| 17  | 0.04        | 0.04       | PO         | PO         | PO         | PO         | 0.04  |
| 18  | PO          | PO         | 0.04       | 0.04       | 0.04       | 0.04       | 0.30  |
| 19  | 0.04        | PO         | PO         | PO         | PO         | PO         | 0.44  |
| 20  | 0.06        | 0.04       | 0.05       | 0.04       | 0.04       | PO         | 0.33  |
| 21  | PO          | PO         | PO         | PO         | 0.03       | 0.03       | 0.07  |
| 22  | 0.03        | 0.03       | PO         | PO         | PO         | PO         | 0.06  |
| 23  | PO          | PO         | PO         | 0.04       | 0.04       | 0.04       | 1.27  |
| 24  | 0.04        | 0.06       | PO         | PO         | PO         | PO         | 0.08  |
| 25  | PO          | 0.07       | 0.04       | 0.04       | 0.04       | 0.04       | 0.77  |
| 26  | 0.05        | PO         | PO         | 0.04       | 0.04       | PO         | 0.63  |
| 27  | PO          | PO         | 0.04       | 0.04       | PO         | PO         | 0.31  |
| 28  | PO          | PO         | PO         | PO         | PO         | PO         | PO  |
| 29  |             |            |            |            |            |            |   |
| 30  |             |            |            |            |            |            |   |
| 31  |             |            |            |            |            |            |   |

|  |  |
|--|--|
| <p><b>Slow Sand/Membrane/DE Filtration/Unfiltered</b></p> <p>95% of daily turbidity readings ≤ 1 NTU?<sup>2</sup> <input checked="" type="radio"/> Yes / <input type="radio"/> No</p> <p>All daily turbidity readings ≤ 5 NTU? <input checked="" type="radio"/> Yes / <input type="radio"/> No</p> | <p><b>Monthly Summary (Answer Yes or No)</b></p> <p>CT's met everyday? (see back) <input checked="" type="radio"/> Yes / <input type="radio"/> No</p> <p>All Cl2 residual at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes / <input type="radio"/> No</p> |
|--|--|

Notes:

|                          |                  |
|--------------------------|------------------|
| PRINTED NAME: Phil Chick | DATE: 3-7-22     |
| SIGNATURE: Phil Chick    | CERT #: T: 08177 |
| PHONE #: (503) 436-2790  | D: 08178         |

<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.

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OHA - Drinking Water Program - Surface Water Quality Data Form

County: Clatsop

WTP-: A

System Name: Arch Cape Water District ID#: 41 00802 Month/Year: Feb-22

Disinfection *Giardia* Log Inactiv: 0.50

| 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           | 0.85  | 329              | 279.7     | 8.4   | 7.25 | 23.0        | YES                  | 68                      |
| 2           | 0.85  | 323              | 274.8     | 8.3   | 7.17 | 22.5        |                      | 69                      |
| 3           | 0.85  | 296              | 252.0     | 8.1   | 7.15 | 22.6        |                      | 75                      |
| 4           | 0.83  | 310              | 257.5     | 8.4   | 7.23 | 22.8        |                      | 71                      |
| 5           | 0.82  | 270              | 221.8     | 8.1   | 7.20 | 23.0        |                      | 84                      |
| 6           | 0.8   | 307              | 245.8     | 8.3   | 7.18 | 22.5        |                      | 69                      |
| 7           | 0.8   | 358              | 286.7     | 8.2   | 7.15 | 22.4        |                      | 63                      |
| 8           | 0.83  | 336              | 278.6     | 7.9   | 7.15 | 22.9        |                      | 65                      |
| 9           | 0.84  | 354              | 297.4     | 8.3   | 7.23 | 23.0        |                      | 63                      |
| 10          | 0.82  | 314              | 257.2     | 8.1   | 7.20 | 23.0        |                      | 72                      |
| 11          | 0.85  | 312              | 265.0     | 8.3   | 7.14 | 22.3        |                      | 70                      |
| 12          | 0.82  | 330              | 270.8     | 8.2   | 7.12 | 22.2        |                      | 69                      |
| 13          | 0.82  | 261              | 214.4     | 8.3   | 7.10 | 21.9        |                      | 84                      |
| 14          | 0.84  | 286              | 240.2     | 8.8   | 7.10 | 21.2        |                      | 78                      |
| 15          | 0.89  | 335              | 298.1     | 8.7   | 7.20 | 22.3        |                      | 67                      |
| 16          | 0.87  | 316              | 275.1     | 9.0   | 7.16 | 21.5        |                      | 69                      |
| 17          | 0.87  | 280              | 243.3     | 9.0   | 7.10 | 21.0        |                      | 81                      |
| 18          | 0.85  | 277              | 235.5     | 8.6   | 7.12 | 21.7        |                      | 79                      |
| 19          | 0.84  | 285              | 239.4     | 8.7   | 7.14 | 21.7        |                      | 79                      |
| 20          | 0.83  | 263              | 218.5     | 8.4   | 7.12 | 21.9        |                      | 85                      |
| 21          | 0.8   | 223              | 178.7     | 8.4   | 7.10 | 21.7        |                      | 98                      |
| 22          | 0.82  | 302              | 247.6     | 8.0   | 7.20 | 23.1        |                      | 75                      |
| 23          | 0.79  | 329              | 260.0     | 7.7   | 7.21 | 23.6        |                      | 64                      |
| 24          | 0.83  | 328              | 272.4     | 7.2   | 7.24 | 24.8        |                      | 69                      |
| 25          | 0.82  | 265              | 217.5     | 6.8   | 7.05 | 23.7        |                      | 82                      |
| 26          | 0.84  | 299              | 251.3     | 7.1   | 7.07 | 23.5        |                      | 75                      |
| 27          | 0.83  | 377              | 313.3     | 7.3   | 7.05 | 23.0        |                      | 58                      |
| 28          | 0.81  | 330              | 267.5     | 7.6   | 7.30 | 24.6        |                      | 64                      |
| 29          |   | #DIV/0!          | #DIV/0!   |       |      | 4.2         |                      |                         |
| 30          |   | #DIV/0!          | #DIV/0!   |       |      | 4.2         |                      |                         |
| 31          |   | #DIV/0!          | #DIV/0!   |       |      | 4.2         |                      |                         |

<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.

Revised February 2012

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    | 329                      | 26.4                        | 18,381                   | 0.0375              | 18,197                           | 68                     | 268                     | 8                  | 1,600            | 4,176                            | 61                      |
| 2    | 323                      | 26.3                        | 18,381                   | 0.0375              | 18,128                           | 69                     | 263                     | 8                  | 1,600            | 4,176                            | 61                      |
| 3    | 296                      | 26.2                        | 18,381                   | 0.0375              | 18,059                           | 75                     | 241                     | 8                  | 1,600            | 4,176                            | 56                      |
| 4    | 310                      | 25.9                        | 18,381                   | 0.0375              | 17,853                           | 71                     | 251                     | 8                  | 1,600            | 4,176                            | 59                      |
| 5    | 270                      | 26.9                        | 18,381                   | 0.0375              | 18,542                           | 84                     | 221                     | 8                  | 1,600            | 4,176                            | 50                      |
| 6    | 307                      | 24.7                        | 18,381                   | 0.0375              | 17,025                           | 69                     | 247                     | 8                  | 1,600            | 4,176                            | 61                      |
| 7    | 358                      | 26.7                        | 18,381                   | 0.0375              | 18,404                           | 63                     | 292                     | 8                  | 1,600            | 4,176                            | 66                      |
| 8    | 336                      | 25.6                        | 18,381                   | 0.0375              | 17,646                           | 65                     | 271                     | 8                  | 1,600            | 4,176                            | 64                      |
| 9    | 354                      | 26.3                        | 18,381                   | 0.0375              | 18,128                           | 63                     | 288                     | 8                  | 1,600            | 4,176                            | 66                      |
| 10   | 314                      | 26.7                        | 18,381                   | 0.0375              | 18,404                           | 72                     | 256                     | 8                  | 1,600            | 4,176                            | 58                      |
| 11   | 312                      | 25.6                        | 18,381                   | 0.0375              | 17,646                           | 70                     | 252                     | 8                  | 1,600            | 4,176                            | 60                      |
| 12   | 330                      | 27                          | 18,381                   | 0.0375              | 18,611                           | 69                     | 270                     | 8                  | 1,600            | 4,176                            | 61                      |
| 13   | 261                      | 25.8                        | 18,381                   | 0.0375              | 17,784                           | 84                     | 212                     | 8                  | 1,600            | 4,176                            | 50                      |
| 14   | 286                      | 26.3                        | 18,381                   | 0.0375              | 18,128                           | 78                     | 232                     | 8                  | 1,600            | 4,176                            | 54                      |
| 15   | 335                      | 26.5                        | 18,381                   | 0.0375              | 18,266                           | 67                     | 273                     | 8                  | 1,600            | 4,176                            | 62                      |
| 16   | 316                      | 25.6                        | 18,381                   | 0.0375              | 17,646                           | 69                     | 256                     | 8                  | 1,600            | 4,176                            | 61                      |
| 17   | 280                      | 26.8                        | 18,381                   | 0.0375              | 18,473                           | 81                     | 228                     | 8                  | 1,600            | 4,176                            | 52                      |
| 18   | 277                      | 25.7                        | 18,381                   | 0.0375              | 17,715                           | 79                     | 224                     | 8                  | 1,600            | 4,176                            | 53                      |
| 19   | 285                      | 26.6                        | 18,381                   | 0.0375              | 18,335                           | 79                     | 232                     | 8                  | 1,600            | 4,176                            | 53                      |
| 20   | 263                      | 26.4                        | 18,381                   | 0.0375              | 18,197                           | 85                     | 214                     | 8                  | 1,600            | 4,176                            | 49                      |
| 21   | 223                      | 25.7                        | 18,381                   | 0.0375              | 17,715                           | 98                     | 181                     | 8                  | 1,600            | 4,176                            | 43                      |
| 22   | 302                      | 26.8                        | 18,381                   | 0.0375              | 18,473                           | 75                     | 246                     | 8                  | 1,600            | 4,176                            | 56                      |
| 23   | 329                      | 24.5                        | 18,381                   | 0.0375              | 16,888                           | 64                     | 264                     | 8                  | 1,600            | 4,176                            | 65                      |
| 24   | 328                      | 26.8                        | 18,381                   | 0.0375              | 18,473                           | 69                     | 268                     | 8                  | 1,600            | 4,176                            | 61                      |
| 25   | 265                      | 25.5                        | 18,381                   | 0.0375              | 17,577                           | 82                     | 214                     | 8                  | 1,600            | 4,176                            | 51                      |
| 26   | 299                      | 26.5                        | 18,381                   | 0.0375              | 18,266                           | 75                     | 244                     | 8                  | 1,600            | 4,176                            | 56                      |
| 27   | 377                      | 25.7                        | 18,381                   | 0.0375              | 17,715                           | 58                     | 305                     | 8                  | 1,600            | 4,176                            | 72                      |
| 28   | 330                      | 24.6                        | 18,381                   | 0.0375              | 16,956                           | 64                     | 265                     | 8                  | 1,600            | 4,176                            | 65                      |
| 29   | #DIV/0!                  |                             | 18,381                   | 0.0375              | 0                                |                        | #DIV/0!                 | 8                  | 1,600            | 4,176                            | #DIV/0!                 |
| 30   | #DIV/0!                  |                             | 18,381                   | 0.0375              | 0                                |                        | #DIV/0!                 | 8                  | 1,600            | 4,176                            | #DIV/0!                 |
| 31   | #DIV/0!                  |                             | 18,381                   | 0.0375              | 0                                |                        | #DIV/0!                 | 8                  | 1,600            | 4,176                            | #DIV/0!                 |