OHA - Drinking Water Services - Surface Water Quality Data Form

Cartridge or Bag Filtration

County: Douglas

Month/Year: Aug 2024

System Name: Umpqua Ranch Cooperative ID#: 41 00714 WTP ID: TP- A

| Day | PSI Before Filter | PSI After Filter | PSID | PSID When to Change Filter | Daily Turbidity Reading [NTU] | Highest Reading of the day [1] [NTU] |
|---|---|---|---|---|---|---|
| 1 | 47 | 46 | 1 | 30 | .03 | .03 |
| 2 | 47 | 45 | 2 | | .03 | .03 |
| 3 | 45 | 43 | 2 | | .03 | .03 |
| 4 | 47 | 45 | 2 | | .04 | .04 |
| 5 | 59 | 51 | 8 | | .2 | .2 |
| 6 | 47 | 46 | 1 | | .04 | .04 |
| 7 | 54 | 52 | 2 | | .1 | .1 |
| 8 | 54 | 52 | 2 | | .2 | .2 |
| 9 | 48 | 47 | 1 | | .06 | .06 |
| 10 | 45 | 44 | 1 | | .07 | .07 |
| 11 | 44 | 43 | 1 | | .07 | .07 |
| 12 | 56 | 52 | 4 | | .19 | .19 |
| 13 | 66 | 60 | 6 | | .18 | .18 |
| 14 | 62 | 60 | 2 | | .18 | .18 |
| 15 | 46 | 44 | 2 | | .07 | .07 |
| 16 | 47 | 43 | 4 | | .07 | .07 |
| 17 | 55 | 46 | 9 | | .06 | .06 |
| 18 | 52 | 43 | 9 | | .06 | .06 |
| 19 | 67 | 66 | 1 | | .11 | .11 |
| 20 | 57 | 56 | 1 | | .20 | .20 |
| 21 | 58 | 56 | 2 | | .10 | .10 |
| 22 | 43 | 42 | 1 | | .04 | .04 |
| 23 | 45 | 44 | 1 | | .04 | .04 |
| 24 | 44 | 43 | 1 | | .04 | .04 |
| 25 | 44 | 43 | 1 | | .04 | .04 |
| 26 | 58 | 52 | 6 | | .18 | .18 |
| 27 | 64 | 54 | 10 | | .19 | .19 |
| 28 | 80 | 55 | 25 | | .15 | .15 |
| 29 | 54 | 44 | 10 | | .04 | .04 |
| 30 | 58 | 43 | 15 | | .04 | .04 |
| 31 | 68 | 43 | 25 | | .04 | .04 |

| Cartridge & Bag Filtration | |
|---|---|
| 95% of daily turbidity readings ≤ 1 NTU? | (Yes) / No |
| All daily turbidity readings ≤ 5 NTU? | (Yes) / No |

| Monthly Summary (Answer Yes or No) | |
|---|---|
| CT's met everyday? (see back) | All Cl2 residual at entry point ≥ 0.2 mg/l? |
| (Yes) / No | (Yes) / No |

Notes: PSI = pounds per square inch

PSID = pounds per square inch difference (before filter - after filter)

PSID When to Change Filter = look in manual for manufacturer's specifications when to change the filter, at what PSID.

PRINTED NAME: Jonathan Woody

SIGNATURE: Jonathan Woody DATE: 9-8-24

PHONE #: (541) 643-6137 CERT #: 7232

[1] Including continuous NTU data, if applicable, for optimization recording purposes. Compliance values in Daily Turbidity Reading column may not correspond to continuous readings' maximum.

OHA - Drinking Water Services - Surface Water Quality Data Form

| WTP-: | A |
|---|---|
| Disinfection *Giardia* Log Inactiv: | 0.5 |

System Name: Umpqua Ranch Cooperative ID#: 41 00714 Month/Year: Aug 2024

| Date / Time | Minimum $Cl_2$ Residual at 1st User ( C ) [2] | Contact Time (T) | Actual CT | Temp | pH | Required CT | CT Met? [2] | Peak Hourly Demand Flow |
|---|---|---|---|---|---|---|---|---|
| | [ppm or mg/L] | [minutes] | C X T | [° C] | | formula | Yes / No | [GPM] |
| 1 | .64 | 105 | 67 | 19 | 7.86 | 18 | yes | 60 |
| 2 | .61 | 105 | 64 | 21 | 7.59 | 13 | yes | 60 |
| 3 | 1.30 | 105 | 136 | 21 | 7.86 | 14 | yes | 60 |
| 4 | 1.26 | 105 | 132 | 20 | 7.57 | 14 | yes | 60 |
| 5 | 1.11 | 105 | 117 | 19 | 7.63 | 19 | yes | 60 |
| 6 | 1.41 | 105 | 148 | 18 | 7.41 | 16 | yes | 60 |
| 7 | 1.17 | 105 | 123 | 17 | 7.58 | 19 | yes | 60 |
| 8 | 1.34 | 105 | 141 | 18 | 7.51 | 19 | yes | 60 |
| 9 | 1.18 | 105 | 123 | 19 | 7.55 | 19 | yes | 60 |
| 10 | 1.11 | 105 | 116 | 19 | 7.46 | 15 | yes | 60 |
| 11 | 1.19 | 105 | 124 | 19 | 7.85 | 19 | yes | 60 |
| 12 | 1.26 | 105 | 132 | 18 | 7.57 | 19 | yes | 60 |
| 13 | 1.13 | 105 | 119 | 17 | 7.48 | 15 | yes | 60 |
| 14 | 1.12 | 105 | 118 | 17 | 7.54 | 19 | yes | 60 |
| 15 | 1.12 | 105 | 118 | 18 | 7.50 | 15 | yes | 60 |
| 16 | 1.12 | 105 | 118 | 18 | 7.47 | 15 | yes | 60 |
| 17 | 1.21 | 105 | 127 | 18 | 7.57 | 19 | yes | 60 |
| 18 | 1.14 | 105 | 119 | 18 | 7.44 | 15 | yes | 60 |
| 19 | 1.21 | 105 | 127 | 18 | 7.40 | 16 | yes | 60 |
| 20 | 1.08 | 105 | 113 | 17 | 7.48 | 15 | yes | 60 |
| 21 | 1.06 | 105 | 111 | 17 | 7.44 | 15 | yes | 60 |
| 22 | 1.05 | 105 | 110 | 18 | 7.44 | 15 | yes | 60 |
| 23 | 1.07 | 105 | 112 | 17 | 7.22 | 15 | yes | 60 |
| 24 | 1.27 | 105 | 133 | 16 | 7.20 | 16 | yes | 60 |
| 25 | .96 | 105 | 100 | 16 | 7.34 | 15 | yes | 60 |
| 26 | 1.24 | 105 | 130 | 16 | 7.44 | 16 | yes | 60 |
| 27 | 1.12 | 105 | 118 | 16 | 7.43 | 15 | yes | 60 |
| 28 | 1.36 | 105 | 143 | 16 | 7.35 | 16 | yes | 60 |
| 29 | 1.00 | 105 | 105 | 16 | 7.32 | 15 | yes | 60 |
| 30 | 1.07 | 105 | 112 | 17 | 7.41 | 15 | yes | 60 |
| 31 | 1.14 | 105 | 119 | 18 | 7.41 | 15 | yes | 60 |

[2] If Cl2 at entry point < 0.2 mg/l or CT not met, notify DWS within 24 hours.

Revised July 2018

**Return by 10th of following month by email, fax, or mail to:**

dwp.dmce@state.or.us; 971-673-0694; or Drinking Water Services, PO Box 14350, Portland, OR 97293-0350

**Treatment Report**
**Bench Sheet**

**Water System:** Umpqua Ranch Coop Sys# 41-00714 **Month/Year** August, 2024

| Date | River Water Meter Reading | Daily Flow From River (GPD) | Finished Water Meter Reading (River Plus Wells) | Daily Finished Water Flow (GPD) | Reservoir Level (%) | Sand Filters PSID In-Out= PSID | Filter RM 5 Micron Pentek Filters PSID In-Out PSID | Filter RM Harmsco LT2 Filters PSID | Disinfection Room Pentek filters PSID In-Out= PSID | Turbidity Raw | Turbidity Finished | pH Raw | pH 1st user | Temp (C) Raw | Temp (C) 1st User | Cl2 Residual (For Distribution Samples, Take at Office on Tuesday, Birchwood on Thursday) Pre-chlorine | Cl2 Residual Plant | Cl2 Residual 1st user | Cl2 Residual Distribution System (2x weekly) | Chemical Pump Settings Pre-Chlorine | Chemical Pump Settings Finished Chlorine | pH Meter Slope | Operator Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15031300 | 10200 | 24869000 | 14000 | 75 | 95-96-1 | 96-97-1 | 47-46-1 | 41-47-6 | 3.90 | .03 | 8.60 | 7.86 | 19 | 19 | .04 | 1.24 | .64 | .69 | | 85 | -5.146 | JB | |
| 2 | 15044500 | 10800 | 24883000 | 14700 | 75 | 92-93-1 | 129-135-6 | 47-45-2 | 48-51-3 | 4.96 | .03 | 7.16 | 7.59 | 21 | 21 | .09 | 2.38 | .61 | — | | 85 | -54.48 | ST | |
| 3 | 15055300 | 9800 | 24897700 | 13700 | 75 | 99-100-1 | 147-150-3 | 45-43-2 | 45-47-2 | 4.03 | .03 | 8.30 | 7.86 | 20 | 21 | .08 | 2.29 | 1.30 | — | | 85 | -54.43 | ST | |
| 4 | 15065100 | 10400 | 24911400 | 14300 | 70 | 95-96-1 | 148-149-1 | 47-45-2 | 44-47-3 | 4.17 | .04 | 6.80 | 7.57 | 19 | 20 | .08 | 1.60 | 1.26 | — | | 70 | -54.24 | ST | |
| 5 | 15075500 | 19300 | 24925700 | 22600 | 10 | 67-68-1 | 68-69-1 | 54-51-8 | 48-52-4 | 6.07 | .2 | 6.98 | 7.63 | 19 | 19 | .09 | 1.68 | 1.11 | — | | 70 | -56.72 | JB | |
| 6 | 15093800 | 17300 | 24948300 | 21900 | 50 | 86-85-1 | 85-87-2 | 47-46-1 | 44-49-5 | 5.15 | .04 | 6.75 | 7.41 | 18 | 18 | .09 | 2.23 | 1.41 | 1.14 | | 60 | -56.63 | JB | |
| 7 | 15111100 | 17300 | 24970200 | 21500 | 75 | 66-65-1 | 65-64-1 | 54-52-2 | 53-57-1 | 5.85 | .1 | 7.11 | 7.58 | 17 | 17 | .06 | 1.91 | 1.17 | — | | 60 | -56.13 | JB | |
| 8 | 15128900 | 11100 | 24991700 | 14400 | 100 | 63-62-1 | 62-63-1 | 54-52-2 | 48-53-5 | 12.5 | .2 | 7.37 | 7.51 | 18 | 18 | .06 | 1.56 | 1.34 | 1.31 | | 55 | -56.17 | JB | |
| 9 | 15139500 | 15600 | 25006100 | 19600 | 80 | 95-94-1 | 139-142-3 | 48-47-1 | 46-47-2 | 4.25 | .06 | 6.75 | 7.55 | 18 | 19 | .10 | 1.70 | 1.18 | — | | 55 | -65.39 | ST | |
| 10 | 15155100 | 8300 | 25025100 | 11400 | 90 | 95-96-1 | 140-143-3 | 45-44-1 | 44-47-3 | 4.12 | .07 | 6.86 | 7.46 | 18 | 19 | .09 | 1.54 | 1.11 | — | | 55 | -55.48 | ST | |
| 11 | 15163400 | 10600 | 25037100 | 14600 | 80 | 97-98-1 | 143-145-2 | 44-43-1 | 44-47-3 | 4.81 | .07 | 8.83 | 7.85 | 18 | 19 | .09 | 1.60 | 1.19 | — | | 55 | 55.38 | ST | |
| 12 | 15174000 | 15900 | 25051700 | 19800 | 60 | 65-64-1 | 64-65-1 | 56-52-4 | 58-61-3 | 7.92 | .19 | 6.88 | 7.57 | 17 | 18 | .05 | 1.59 | 1.26 | — | | 55 | -55.25 | JB | |
| 13 | 15189800 | 15600 | 25071500 | 19600 | 80 | 75-74-1 | 74-76-2 | 66-60-6 | 51-60-3 | 6.51 | .18 | 6.77 | 7.48 | 16 | 17 | .08 | 1.61 | 1.13 | 1.32 | | 55 | -55.06 | JB | |
| 14 | 15205100 | 9900 | 25091100 | 13100 | 100 | 70-69-1 | 69-71-2 | 62-60-2 | 48-52-4 | 7.29 | .18 | 6.88 | 7.54 | 17 | 17 | .10 | 2.09 | 1.12 | — | | 55 | -54.95 | JB | |
| 15 | 15215300 | 12800 | 25104200 | 16800 | 40 | 90-91-1 | 91-92-1 | 46-44-2 | 47-47-5 | 4.08 | .07 | 6.79 | 7.50 | 18 | 18 | .07 | 1.91 | 1.12 | 1.06 | | 55 | -54.85 | JB | |
| 16 | 15228100 | 14700 | 25121000 | 18300 | 85 | 93-94-1 | 140-142-2 | 47-43-4 | 47-50-3 | 4.81 | .07 | 7.39 | 7.47 | 18 | 18 | .07 | 1.73 | 1.12 | — | | 55 | -55.27 | ST | |
| 17 | 15242800 | 10200 | 25134300 | 14200 | 90 | 95-96-1 | 140-143-3 | 55-46-9 | 44-47-3 | 5.50 | .06 | 7.10 | 7.57 | 17 | 18 | .08 | 1.49 | 1.21 | — | | 55 | -54.67 | JB | |
| 18 | 15253000 | 9700 | 25153500 | 13500 | 95 | 99-100-1 | 144-147-3 | 52-43-9 | 44-47-3 | 5.87 | .06 | 6.85 | 7.44 | 17 | 18 | .04 | 1.50 | 1.14 | — | | 55 | -54.54 | ST | |
| 19 | 15262700 | 13300 | 25167300 | 17200 | 90 | 94-92-2 | 92-93-1 | 67-66-1 | 43-47-4 | 4.04 | .11 | 7.08 | 7.40 | 17 | 18 | .09 | 1.52 | 1.21 | — | | 55 | -56.76 | JB | |
| 20 | 15276000 | 15200 | 25184500 | 19500 | 90 | 66-65-1 | 65-66-1 | 57-56-1 | 58-53-5 | 6.19 | .20 | 6.83 | 7.48 | 16 | 17 | .06 | 1.67 | 1.08 | 1.28 | | 55 | -56.17 | JB | |
| 21 | 15291200 | 11300 | 25200000 | 15300 | 90 | 72-73-1 | 73-74-1 | 58-56-2 | 48-54-4 | 7.55 | .17 | 6.90 | 7.44 | 16 | 17 | .10 | 1.70 | 1.06 | — | | 55 | -56.21 | JB | |
| 22 | 15302500 | 14000 | 25219300 | 15700 | 90 | 94-93-1 | 93-95-2 | 43-42-1 | 41-46-5 | 5.28 | .04 | 6.66 | 7.44 | 17 | 18 | .10 | 1.58 | 1.05 | .97 | | 55 | -56.12 | JB | |
| 23 | 15316500 | 11200 | 25235000 | 16200 | 90 | 100-99-1 | 140-143-3 | 45-44-1 | 46-47-2 | 6.28 | .04 | 6.78 | 7.22 | 16 | 17 | .14 | 1.80 | 1.07 | — | | 55 | -55.59 | ST | |
| 24 | 15327700 | 9000 | 25251200 | 13500 | 95 | 99-98-1 | 143-146-3 | 44-43-1 | 47-49-2 | 6.66 | .04 | 6.63 | 7.20 | 15 | 16 | .13 | 1.85 | 1.27 | — | | 55 | -51.45 | ST | |
| 25 | 15336700 | 9500 | 25264700 | 13800 | 80 | 98-97-1 | 146-148-3 | 44-43-1 | 44-47-3 | 6.39 | .04 | 6.52 | 7.34 | 15 | 16 | .12 | 1.79 | .96 | — | | 55 | -55.33 | | |
| 26 | 15346200 | 14100 | 25278500 | 19200 | 70 | 66-65-1 | 65-67-2 | 58-52-6 | 48-52-4 | 6.77 | .18 | 6.46 | 7.44 | 15 | 16 | .10 | 1.80 | 1.24 | — | | 55 | -56.50 | JB | |
| 27 | 15360300 | 16200 | 25297700 | 20600 | 70 | 75-74-1 | 74-75-1 | 64-54-10 | 48-54-6 | 5.30 | .19 | 6.39 | 7.43 | 16 | 16 | .22 | 1.80 | 1.12 | .76 | | 55 | -56.31 | JB | |
| 28 | 15376500 | 10400 | 25318300 | 14700 | 90 | 89-88-1 | 88-89-1 | 90-55-25 | 46-51-5 | 5.95 | .15 | 6.64 | 7.35 | 15 | 16 | .06 | 1.72 | 1.36 | — | | 55 | -55.98 | JB | |
| 29 | 15386900 | 9900 | 25333000 | 14100 | 90 | 97-98-1 | 98-99-1 | 54-44-10 | 44-48-4 | 5.43 | .04 | 6.65 | 7.32 | 15 | 16 | .06 | 1.71 | 1.00 | .93 | | 50 | -55.71 | JB | |
| 30 | 15396800 | 9800 | 25347100 | 13900 | 85 | 95-96-1 | 150-152-2 | 58-43-15 | 44-47-3 | 5.68 | .04 | 7.11 | 7.41 | 17 | 17 | .06 | 1.59 | 1.07 | — | | 50 | -56.05 | ST | |
| 31 | 15406300 | 9400 | 25361000 | 13600 | 90 | 96-97-1 | 146-150-4 | 68-43-25 | 49-52-3 | 6.12 | .04 | 6.39 | 7.41 | 17 | 18 | .04 | 1.62 | 1.14 | — | | 50 | -55.40 | ST | |

**Notes:**

**Chemical Mix Ratio**

Chlorine

1 Gal Cl2 to 5 Gal Water

| pH | Lot# |
|---|---|
| 4 | 36C916 |
| 7 | 36C914 |
| 10 | 36C825 |

**Monthly Water Production- Finished Water**

| | |
|---|---|
| Meter Reading 1st of this Month: | 24869000 |
| Meter Reading 1st of Last Month: | 24358500 |
| Monthly Total (Gallons): | = 510,500 |
| Monthly Average Gal/ Day: | 16,467 |

11 gpm Average