

OHA - Drinking Water Services - Surface Water Quality Data Form

County: Curry

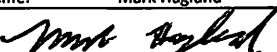
Filtration with UV *Giardia/Crypto* Disinfection

Month/Year: Mar-21

System Name: Rainbow Rock Services

WS ID #: 41-01361

| Day | Turbidity      |               |               |            |               |               |                          | Viral CT's                                  |                            |                 |        |      |                        |                               |
|-----|----------------|---------------|---------------|------------|---------------|---------------|--------------------------|---|----------------------------|-----------------|--------|------|------------------------|-------------------------------|
|     | 12:00 AM [NTU] | 4:00 AM [NTU] | 8:00 AM [NTU] | NOON [NTU] | 4:00 PM [NTU] | 8:00 PM [NTU] | Highest NTU of the day 1 | Minimum Cl2 Residual at 1st User C [mg/L] 2 | Contact Time (T) [minutes] | Actual CT C X T | Temp C | pH   | Required CT Use Tables | Required CT Met? 2 [Yes / No] |
| 1   |                |               | 0.04          | 0.04       |               |               | 0.06                     | 0.54  | 71                         | 38.34           | 11.8   | 7.65 | 6                      | Yes                           |
| 2   |                |               | 0.05          | 0.04       |               |               | 0.05                     | 0.77  | 71                         | 54.67           | 11.2   | 7.18 | 6                      | Yes                           |
| 3   |                |               | 0.04          | 0.05       |               |               | 0.05                     | 0.56  | 71                         | 39.76           | 11.0   | 7.91 | 6                      | Yes                           |
| 4   |                |               | 0.04          | 0.03       |               |               | 0.05                     | 0.94  | 71                         | 66.74           | 11.5   | 7.63 | 6                      | Yes                           |
| 5   |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 6   |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 7   |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 8   |                |               |               | 0.03       |               |               | 0.04                     | 0.47  | 71                         | 33.37           | 11.7   | 7.40 | 6                      | Yes                           |
| 9   |                |               | 0.05          | 0.05       |               |               | 0.12                     | 1.01  | 71                         | 71.71           | 11.3   | 7.75 | 6                      | Yes                           |
| 10  |                |               | 0.04          | 0.03       |               |               | 0.06                     | 0.92  | 71                         | 65.32           | 11.1   | 7.89 | 6                      | Yes                           |
| 11  |                |               |               | 0.04       |               |               | 0.06                     | 0.83  | 71                         | 58.93           | 10.6   | 8.02 | 6                      | Yes                           |
| 12  |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 13  |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 14  |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 15  |                |               | 0.07          | 0.04       |               |               | 0.07                     | 0.35  | 71                         | 24.85           | 10.9   | 7.87 | 6                      | Yes                           |
| 16  |                |               | 0.04          | 0.04       |               |               | 0.06                     | 1.02  | 71                         | 72.42           | 10.9   | 8.17 | 6                      | Yes                           |
| 17  |                |               | 0.04          | 0.04       |               |               | 0.06                     | 0.97  | 71                         | 68.87           | 10.5   | 7.89 | 6                      | Yes                           |
| 18  |                |               | 0.04          | 0.03       |               |               | 0.08                     | 1.41  | 71                         | 100.11          | 10.8   | 7.71 | 6                      | Yes                           |
| 19  |                |               | 0.05          | 0.04       |               |               | 0.08                     | 1.34  | 71                         | 95.14           | 11.2   | 7.63 | 6                      | Yes                           |
| 20  |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 21  |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 22  |                |               | 0.04          | 0.05       |               |               | 0.11                     | 0.60  | 71                         | 42.6            | 11.4   | 7.62 | 6                      | Yes                           |
| 23  |                |               | 0.04          | 0.04       |               |               | 0.09                     | 0.82  | 71                         | 58.22           | 11.0   | 7.50 | 6                      | Yes                           |
| 24  |                |               | 0.03          | 0.04       |               |               | 0.08                     | 1.63  | 71                         | 115.73          | 11.1   | 7.51 | 6                      | Yes                           |
| 25  |                |               | 0.09          | 0.04       |               |               | 0.09                     | 1.55  | 71                         | 110.05          | 11.2   | 7.28 | 6                      | Yes                           |
| 26  |                |               |               | 0.03       |               |               | 0.05                     | 0.74  | 71                         | 52.54           | 11.4   | 7.47 | 6                      | Yes                           |
| 27  |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 28  |                |               |               |            |               |               |                          |   |                            |                 |        |      |                        |                               |
| 29  |                |               |               | 0.04       |               |               | 0.06                     | 0.69  | 71                         | 48.99           | 11.2   | 7.71 | 6                      | Yes                           |
| 30  |                |               |               | 0.04       |               |               | 0.08                     | 0.78  | 71                         | 55.38           | 11.5   | 7.55 | 6                      | Yes                           |
| 31  |                |               |               | 0.04       |               |               | 0.07                     | 1.14  | 71                         | 80.94           | 11.5   | 7.75 | 6                      | Yes                           |

|   |     |   |  |
|---|-----|---|--|
| <b>Conventional or Direct Filtration</b>                              |     | <b>Monthly Summary (Circle Yes or No)</b>   |  |
| 95% of the 4-hour turbidity readings ≤ 0.3 NTU?                       | Yes | Was CT's met everyday?  | All Cl2 residual at entry point ≥ 0.2 mg/L ? |
| All the 4-hour turbidity readings <1 NTU?                             | Yes | Yes   | Yes  |
| All turbidity readings < IFE triggers?                                | Yes |   |  |
| Monthly UV Summary (circle Yes or No)                                 |     | Phone #: 541-412-0424   | Cert #: T-6161 FE                            |
| Was the volume of off-spec water produced less than 5% for the month? | Yes | Date: 4/9/2021  |  |
|   |     | Printed Name: Mark Haglund  |  |
|   |     | Signature:  |  |

- 1 If one NTU value per day measured, value same as Compliance Turbidity. Intended for multiple readings per day. Used for optimization efforts only. Highest NTU of the day is for optimization, not complianc. Highest is only for stat-wide tracking of performance among all treatment systems.
- 2 If CT not met - see chart below or Cl2 at entry point <0.2 mg/L, notify DWS within 24 hours.
- 3 IFE = Individual Filter Effluent (OAE 333-061-0040(1)(e))(B&C)

| Temp C      | 0 - 4.9 | 5.0 - 9.9 | 10.0 - 14.9 | 15.0 - 19.9 | 20 - 24.9 | ≥ 25.0 C |
|-------------|---------|-----------|-------------|-------------|-----------|----------|
| Required CT | 12      | 8         | 6           | 4           | 3         | 2        |

### Oregon DHS - Drinking Water Services – Turbidity Monitoring Report Form

**System Name:** Rainbow Rock Services      **ID#** 41-01361      **Month/Year:** Mar / 2021

| DAY | 12:00 AM<br>(NTU) | 4:00 AM<br>(NTU) | 8:00 AM<br>(NTU) | NOON<br>(NTU) | 4:00 PM<br>(NTU) | 8:00 PM<br>(NTU) | Highest Reading of the Day <sup>1</sup><br>(NTU) | Peak Hourly Demand<br>Flow (GPM) |
|-----|-------------------|------------------|------------------|---------------|------------------|------------------|--|----------------------------------|
| 1   |                   |                  | 0.04             | 0.04          |                  |                  | 0.06   |                                  |
| 2   |                   |                  | 0.05             | 0.04          |                  |                  | 0.05   |                                  |
| 3   |                   |                  | 0.04             | 0.05          |                  |                  | 0.05   |                                  |
| 4   |                   |                  | 0.04             | 0.03          |                  |                  | 0.05   |                                  |
| 5   |                   |                  |                  |               |                  |                  |  |                                  |
| 6   |                   |                  |                  |               |                  |                  |  |                                  |
| 7   |                   |                  |                  |               |                  |                  |  |                                  |
| 8   |                   |                  |                  | 0.03          |                  |                  | 0.04   |                                  |
| 9   |                   |                  | 0.05             | 0.05          |                  |                  | 0.12   |                                  |
| 10  |                   |                  | 0.04             | 0.03          |                  |                  | 0.06   |                                  |
| 11  |                   |                  |                  | 0.04          |                  |                  | 0.06   |                                  |
| 12  |                   |                  |                  |               |                  |                  |  |                                  |
| 13  |                   |                  |                  |               |                  |                  |  |                                  |
| 14  |                   |                  |                  |               |                  |                  |  |                                  |
| 15  |                   |                  | 0.07             | 0.04          |                  |                  | 0.07   |                                  |
| 16  |                   |                  | 0.04             | 0.04          |                  |                  | 0.06   |                                  |
| 17  |                   |                  | 0.04             | 0.04          |                  |                  | 0.06   |                                  |
| 18  |                   |                  | 0.04             | 0.03          |                  |                  | 0.08   |                                  |
| 19  |                   |                  | 0.05             | 0.04          |                  |                  | 0.08   |                                  |
| 20  |                   |                  |                  |               |                  |                  |  |                                  |
| 21  |                   |                  |                  |               |                  |                  |  |                                  |
| 22  |                   |                  | 0.04             | 0.05          |                  |                  | 0.11   |                                  |
| 23  |                   |                  | 0.04             | 0.04          |                  |                  | 0.09   |                                  |
| 24  |                   |                  | 0.03             | 0.04          |                  |                  | 0.08   |                                  |
| 25  |                   |                  | 0.09             | 0.04          |                  |                  | 0.09   |                                  |
| 26  |                   |                  |                  | 0.03          |                  |                  | 0.05   |                                  |
| 27  |                   |                  |                  |               |                  |                  |  |                                  |
| 28  |                   |                  |                  |               |                  |                  |  |                                  |
| 29  |                   |                  |                  | 0.04          |                  |                  | 0.06   |                                  |
| 30  |                   |                  |                  | 0.04          |                  |                  | 0.08   |                                  |
| 31  |                   |                  |                  | 0.04          |                  |                  | 0.07   |                                  |

|  |  |
|--|--|
| <b>Conventional or Direct Filtration Monthly Summary</b>                           | <b>Monthly UV Summary (Circle Yes or No)</b>                           |
| 95% of the 4-hour turbidity readings ≤ 0.3 NTU?      Yes                           | Is any off-spec water produced in the month?<br><br><b>No</b>          |
| All the 4-hour turbidity readings < 1 NTU?      Yes                                |  |
| All turbidity readings < IFE triggers? <sup>2</sup> Yes                            |  |
| - OR -   | PRINTED NAME: Mark Haglund   |
| <b>Slow Sand/Cartridge/Membrane/DE Filtration</b>                                  | SIGNATURE: <i>Mark Haglund</i> DATE: 4/9/21                            |
| 95% of turbidity readings ≤ 1 NTU?      Yes / No                                   | PHONE #: ( 541 ) 412-0724      CERT #: T-6161 FE                       |
| All turbidity readings < 5 NTU?      Yes / No                                      |  |
| Is there 4-log virus inactivation provided with <input type="checkbox"/> Chlorine; | <input checked="" type="checkbox"/> Other - We use Cl2 and UV      Yes |
|  | CT <sub>Viral</sub> : Required =<br>Achieved =                         |

<sup>1</sup> Including continuous NTU data, if applicable, for optimization recording purposes

<sup>2</sup> IFE = Individual Filter Effluent

**Oregon DHS - Drinking Water Services – Surface Water Quality Data**

**County:** Curry

**System Name:** Rainbow Rock Services

**ID#** 41 01361

**Month/Year:** Mar / 2021

Minimum UVT [%] during month: -

Duty sensor variation from reference sensor %: -

Minimum Validated UVT : {Insert Req'd Value}

Min. UV Dose achieved/intended this month: 44.3 / 40 mJ/cm2

| Date   | Peak Hourly Demand Flow | Minimum Intensity                  | Minimum Dose          | All Lamps On? | Daily Water Produced {A} | Water outside Validated Conditions {B} | Cumulative % Off-Spec Water Produced    |
|--|-------------------------|------------------------------------|-----------------------|---------------|--------------------------|--|---|
|  | [gpm/unit]              | [ <sup>mW</sup> /cm <sup>2</sup> ] | [mJ/cm <sup>2</sup> ] | [ Y or N ]    | [gal]                    | [gal]                                  | (Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%] |
| 1  | 20                      |                                    | 58.4                  | Y             | 7854                     | 0                                      | 0                                       |
| 2  | 20                      |                                    | 57.1                  | Y             | 6732                     | 0                                      | 0                                       |
| 3  | 20                      |                                    | 56.5                  | Y             | 7555                     | 0                                      | 0                                       |
| 4  | 20                      |                                    | 54.8                  | Y             | 7854                     | 0                                      | 0                                       |
| 5  |                         |                                    |                       |               |                          |  |   |
| 6  |                         |                                    |                       |               |                          |  |   |
| 7  |                         |                                    |                       |               |                          |  |   |
| 8  | 20                      |                                    | 55.8                  | Y             | 6882                     | 0                                      | 0                                       |
| 9  | 20                      |                                    | 55.3                  | Y             | 7704                     | 0                                      | 0                                       |
| 10   | 20                      |                                    | 55.0                  | Y             | 6956                     | 0                                      | 0                                       |
| 11   | 20                      |                                    | 52.8                  | Y             | 6433                     | 0                                      | 0                                       |
| 12   |                         |                                    |                       |               |                          |  |   |
| 13   |                         |                                    |                       |               |                          |  |   |
| 14   |                         |                                    |                       |               |                          |  |   |
| 15   | 20                      |                                    | 54.1                  | Y             | 6882                     | 0                                      | 0                                       |
| 16   | 20                      |                                    | 51.6                  | Y             | 7779                     | 0                                      | 0                                       |
| 17   | 20                      |                                    | 52.7                  | Y             | 7630                     | 0                                      | 0                                       |
| 18   | 20                      |                                    | 52.0                  | Y             | 6208                     | 0                                      | 0                                       |
| 19   | 20                      |                                    | 51.5                  | Y             | 7854                     | 0                                      | 0                                       |
| 20   |                         |                                    |                       |               |                          |  |   |
| 21   |                         |                                    |                       |               |                          |  |   |
| 22   | 20                      |                                    | 50.0                  | Y             | 7106                     | 0                                      | 0                                       |
| 23   | 20                      |                                    | 50.3                  | Y             | 7630                     | 0                                      | 0                                       |
| 24   | 20                      |                                    | 49.5                  | Y             | 7630                     | 0                                      | 0                                       |
| 25   | 20                      |                                    | 50.3                  | Y             | 7106                     | 0                                      | 0                                       |
| 26   | 20                      |                                    | 51.2                  | Y             | 7256                     | 0                                      | 0                                       |
| 27   |                         |                                    |                       |               |                          |  |   |
| 28   |                         |                                    |                       |               |                          |  |   |
| 29   | 20                      |                                    | 44.3                  | Y             | 7405                     | 0                                      | 0                                       |
| 30   | 20                      |                                    | 45.5                  | Y             | 5834                     | 0                                      | 0                                       |
| 31   | 20                      |                                    | 45.7                  | Y             | 7480                     | 0                                      | 0                                       |
| Monthly Cumulative % Off-Spec Water Produced |                         |                                    |                       |               |                          |  |   |

Signature: *James Hagedorn*

Op Cert #: T-6161 FE

Date: 4/9/2021