

Oregon DHS - Drinking Water Services – Turbidity Monitoring Report Form

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

| DAY | 12:00 AM (NTU) | 4:00 AM (NTU) | 8:00 AM (NTU) | NOON (NTU) | 4:00 PM (NTU) | 8:00 PM (NTU) | Highest Reading of the Day ¹ (NTU) | Peak Hourly Demand Flow (GPM) |
|-----|-------------------|------------------|------------------|---------------|------------------|------------------|--|----------------------------------|
| 1 | | | 0.04 | 0.03 | | | 0.04 | 20 |
| 2 | | | 0.09 | 0.03 | 0.03 | | 0.09 | 20 |
| 3 | | | 0.11 | 0.03 | 0.03 | | 0.11 | 20 |
| 4 | | | 0.09 | 0.03 | | | 0.09 | 20 |
| 5 | | | 0.13 | 0.03 | 0.03 | | 0.13 | 20 |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | 0.11 | 0.03 | 0.03 | | 0.11 | 20 |
| 9 | | | | | | | | |
| 10 | | | 0.07 | 0.03 | 0.03 | | 0.07 | 20 |
| 11 | | | 0.11 | 0.03 | 0.03 | | 0.11 | 20 |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | 0.11 | 0.04 | 0.03 | | 0.11 | 20 |
| 17 | | | 0.04 | 0.04 | 0.03 | | 0.04 | 20 |
| 18 | | | 0.17 | 0.04 | 0.04 | | 0.17 | 20 |
| 19 | | | 0.45 | | | | 0.45 | 20 |
| 20 | | | 0.52 | 0.04 | 0.04 | | 0.52 | 20 |
| 21 | | | | | | | | |
| 22 | | | 0.05 | 0.04 | 0.04 | | 0.05 | 20 |
| 23 | | | 0.14 | 0.04 | 0.04 | | 0.14 | 20 |
| 24 | | | 0.13 | 0.04 | 0.04 | | 0.13 | 20 |
| 25 | | | 0.08 | 0.04 | 0.04 | | 0.08 | 20 |
| 26 | | | 0.06 | 0.04 | 0.04 | | 0.06 | 20 |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |

| | |
|---|---|
| <p>Conventional or Direct Filtration Monthly Summary</p> <p>95% of the 4-hour turbidity readings ≤ 0.3 NTU? (Yes)</p> <p>All the 4-hour turbidity readings < 1 NTU? (Yes)</p> <p>All turbidity readings < IFE triggers? ² (YES)</p> <p style="text-align: center;">- OR -</p> <p>Slow Sand/Cartridge/Membrane/DE Filtration</p> <p>95% of turbidity readings ≤ 1 NTU? Yes / No</p> <p>All turbidity readings < 5 NTU? Yes / No</p> | <p>Monthly UV Summary (Circle Yes or No)</p> <p>Is any off-spec water produced in the month? Yes / No</p> <p>PRINTED NAME: <u>Matt Haglund</u></p> <p>SIGNATURE: <u>[Signature]</u></p> <p>PHONE #: <u>(541) 412-0424</u></p> <p>DATE: <u>2/18/21</u> REVISED TWO</p> <p>CERT #: <u>T 6161 FE</u></p> <p>CT_{Viral}: Required = _____ Achieved = _____</p> |
| <p>Is there 4-log virus inactivation provided with <input type="checkbox"/> Chlorine; <input type="checkbox"/> Other _____ Yes / No</p> | |

¹ Including continuous NTU data, if applicable, for optimization recording purposes ² IFE = Individual Filter Effluent

UV and Chlorine

Oregon DHS - Drinking Water Services – Surface Water Quality Data

County: Curry

System Name: Rainbow Rock Services

ID# 41 01361

Month/Year: Feb / 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: 57.5 mJ/cm2

| Date | Peak Hourly Demand Flow [gpm/unit] | Minimum Intensity [^{mW} /cm ²] | Minimum Dose [mJ/cm ²] | All Lamps On? [Y or N] | Daily Water Produced {A} [gal] | Water outside Validated Conditions {B} [gal] | Cumulative % Off-Spec Water Produced (Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%] |
|--|---------------------------------------|---|---------------------------------------|-----------------------------|--------------------------------------|---|--|
| 1 | 20 | | 64.4 | Y | 7405 | 0 | 0 |
| 2 | 20 | | 64.8 | Y | 8078 | 0 | 0 |
| 3 | 20 | | 64.0 | Y | 7555 | 0 | 0 |
| 4 | 20 | | 64.3 | Y | 4413 | 0 | 0 |
| 5 | 20 | | 62.7 | Y | 7330 | 0 | 0 |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | 20 | | 62.8 | Y | 6358 | 0 | 0 |
| 9 | | | | | | | |
| 10 | 20 | | 63.5 | Y | 7031 | 0 | 0 |
| 11 | 20 | | 62.8 | Y | 8752 | 0 | 0 |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | 20 | | 62.2 | Y | 7854 | 0 | 0 |
| 17 | 20 | | 60.3 | Y | 6956 | 0 | 0 |
| 18 | 20 | | 63.8 | Y | 6732 | 0 | 0 |
| 19 | 20 | | 61.2 | Y | 822 | 0 | 0 |
| 20 | 20 | | 60.8 | Y | 8901 | 0 | 0 |
| 21 | | | | | | | |
| 22 | 20 | | 59.6 | Y | 8826 | 0 | 0 |
| 23 | 20 | | 59.0 | Y | 9200 | 0 | 0 |
| 24 | 20 | | 58.8 | Y | 8153 | 0 | 0 |
| 25 | 20 | | 59.1 | Y | 6059 | 0 | 0 |
| 26 | 20 | | 57.5 | Y | 6956 | 0 | 0 |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| Monthly Cumulative % Off-Spec Water Produced | | | | | | | 0 |

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Signature: *Anna Taylor*

Op Cert #: TE61 FE

Revised Two
Date: 3/18/21

OHA - Drinking Water Services - Surface Water Quality Data Form

County: Curry

Filtration with UV *Giardia/Crypto* Disinfection

Month/Year: Feb-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 Cl ₂ 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 | 0.03 | | | 0.04 | 0.54 | 71 | 38.34 | 11.8 | 6.77 | 6 | Yes |
| 2 | | | 0.09 | 0.03 | 0.03 | | 0.09 | 0.43 | 71 | 30.53 | 11.5 | 6.83 | 6 | Yes |
| 3 | | | 0.11 | 0.03 | 0.03 | | 0.11 | 0.40 | 71 | 28.40 | 11.5 | 7.28 | 6 | Yes |
| 4 | | | 0.09 | 0.03 | | | 0.09 | 0.44 | 71 | 31.24 | 11.3 | 7.66 | 6 | Yes |
| 5 | | | 0.13 | 0.03 | 0.03 | | 0.13 | 0.41 | 71 | 29.11 | 11.3 | 7.52 | 6 | Yes |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | 0.11 | 0.03 | 0.03 | | 0.11 | 0.43 | 71 | 30.53 | 12.2 | 7.53 | 6 | Yes |
| 9 | | | | | | | | | | | | | | |
| 10 | | | 0.07 | 0.03 | 0.03 | | 0.07 | 0.25 | 71 | 17.75 | 11.3 | 7.48 | 6 | Yes |
| 11 | | | 0.11 | 0.03 | 0.03 | | 0.11 | 0.55 | 71 | 39.05 | 11.8 | 8.16 | 6 | Yes |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | 0.11 | 0.04 | 0.03 | | 0.11 | 0.20 | 71 | 14.20 | 12.3 | 7.47 | 6 | Yes |
| 17 | | | 0.04 | 0.04 | 0.03 | | 0.04 | 0.55 | 71 | 39.05 | 12.0 | 6.94 | 6 | Yes |
| 18 | | | 0.17 | 0.04 | 0.04 | | 0.17 | 0.20 | 71 | 14.20 | 12.1 | 7.77 | 6 | Yes |
| 19 | | | 0.45 | | | | 0.45 | 0.60 | 71 | 42.60 | 11.9 | 7.57 | 6 | Yes |
| 20 | | | 0.52 | 0.04 | 0.04 | | 0.52 | 0.35 | 71 | 24.85 | 11.6 | 7.78 | 6 | Yes |
| 21 | | | | | | | | | | | | | | |
| 22 | | | 0.05 | 0.04 | 0.04 | | 0.05 | 0.45 | 71 | 31.95 | 13.1 | 7.53 | 6 | Yes |
| 23 | | | 0.14 | 0.04 | 0.04 | | 0.14 | 0.35 | 71 | 24.85 | 12.1 | 7.49 | 6 | Yes |
| 24 | | | 0.13 | 0.04 | 0.04 | | 0.13 | 0.39 | 71 | 27.69 | 11.2 | 7.58 | 6 | Yes |
| 25 | | | 0.08 | 0.04 | 0.04 | | 0.08 | 0.25 | 71 | 17.75 | 11.6 | 7.64 | 6 | Yes |
| 26 | | | 0.06 | 0.04 | 0.04 | | 0.06 | 0.25 | 71 | 17.75 | 12.6 | 7.77 | 6 | Yes |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |

| | |
|---|--|
| <p>Conventional or Direct Filtration</p> <p>95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>All the 4-hour turbidity readings < 1 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>All turbidity readings < IFE triggers? <input checked="" type="radio"/> Yes <input type="radio"/> No ³</p> <p>Monthly UV Summary (circle Yes or No)</p> <p>Was the volume of off-spec water produced less than 5% for the month? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A</p> | <p>Monthly Summary (Circle Yes or No)</p> <p>Was CT's met everyday? <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> <p>Phone #: 541-412-0400</p> <p>Date: 3/1/21</p> <p>Printed Name: MARK R. ARNOLD</p> <p>Signature: <i>Mark Arnold</i></p> |
|---|--|

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 compliance. 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 |