

# OHA - Drinking Water Program - Turbidity Monitoring Report Form County: Josephine Cartridge or Bag Filtration

System Name: **NPS OREGON CAVES NATL MON ID #: OR4191998** WTP: **WTP-A** Month/Year: **July, 2022**

| DAY | PSI Before Filter | PSI After Filter | PSID | PSID When to Change Filter | Daily Turbidity Reading [NTU] | Highest Reading of the Day <sup>1</sup> [NTU] |
|-----|-------------------|------------------|------|----------------------------|-------------------------------|---|
| 1   | 42                | 31               | 11   | 25                         | .042                          | .12   |
| 2   | 42                | 31               | 11   | 25                         | .044                          | .18   |
| 3   | 42                | 28               | 14   | 25                         | .049                          | .57   |
| 4   | 42                | 26               | 16   | 25                         | .055                          | .20   |
| 5   | 42                | 22               | 20   | 25                         | .063                          | .25   |
| 6   | 42                | 33               | 9    | 25                         | .040                          | 1.0   |
| 7   | 42                | 24               | 18   | 25                         | .042                          | .22   |
| 8   | 42                | 28               | 14   | 25                         | .058                          | .49   |
| 9   | 42                | 30               | 12   | 25                         | .040                          | .47   |
| 10  | 42                | 26               | 16   | 25                         | .044                          | .24   |
| 11  | 42                | 24               | 18   | 25                         | .047                          | .10   |
| 12  | 42                | 22               | 20   | 25                         | .053                          | .14   |
| 13  | 42                | 20               | 22   | 25                         | .057                          | .19   |
| 14  | 42                | 34               | 8    | 25                         | .034                          | .48   |
| 15  | 42                | 32               | 10   | 25                         | .039                          | .96   |
| 16  | 42                | 30               | 12   | 25                         | .052                          | .13   |
| 17  | 42                | 28               | 14   | 25                         | .050                          | .11   |
| 18  | 42                | 24               | 18   | 25                         | .049                          | .10   |
| 19  | 42                | 22               | 20   | 25                         | .054                          | .40   |
| 20  | 42                | 34               | 8    | 25                         | .032                          | .10   |
| 21  | 42                | 26               | 16   | 25                         | .044                          | .14   |
| 22  | 42                | 32               | 10   | 25                         | .040                          | .20   |
| 23  | 42                | 30               | 12   | 25                         | .032                          | .10   |
| 24  | 42                | 32               | 10   | 25                         | .035                          | .18   |
| 25  | 42                | 30               | 12   | 25                         | .040                          | .13   |
| 26  | 42                | 30               | 12   | 25                         | .035                          | .32   |
| 27  | 42                | 32               | 10   | 25                         | .032                          | .40   |
| 28  | 42                | 28               | 14   | 25                         | .042                          | .38   |
| 29  | 42                | 30               | 12   | 25                         | .054                          | .35   |
| 30  | 42                | 32               | 10   | 25                         | .049                          | .20   |
| 31  | 42                | 32               | 10   | 25                         | .035                          | .25   |

|  |  |  |
|--|--|--|
| <b>Cartridge Filtration</b>  | <b>Monthly Summary (Answer Yes or No)</b>  |  |
| 95% of daily turbidity readings ≤ 1 NTU?<br>All daily turbidity readings ≤ 5 NTU?  | CT's met everyday? (see back)<br><input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No | All Cl <sub>2</sub> residual at entry point ≥ 0.2 mg/l?<br><input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No |
| <b>Notes:</b> PSI = pounds per square inch<br>PSID = pounds per square inch difference (before filter - after filter)<br>PSID When to Change Filter = Manufacturer's recommendation; may need to look in manual for manufacturer's specifications when to change the filter, at what PSID. | <b>PRINTED NAME:</b> David M. John   |  |
|  | <b>SIGNATURE:</b> <i>David M. John</i>   | <b>DATE:</b> 08.01.22  |
|  | <b>PHONE #:</b> (541) 1592-2100<br>ex 2256   | <b>CERT #:</b> D-09445   |

<sup>1</sup> Including continuous turbidity data, if applicable, for optimization recording purposes. Compliance values in "Daily Turbidity..."

OHA - Drinking Water Program - Surface Water Quality Data Form

NPS OREGON CAVES NATL MON ID #: OR4191998 WTP: WTP-A Month/Year: July, 2022

| Date / Time | Minimum Cl <sub>2</sub> Residual at 1 <sup>st</sup> User (C) <sup>2</sup> | Contact Time (T) | Actual CT | Temp  | pH  | Required CT | CT Met? <sup>2</sup> | Peak Hourly Demand Flow |
|-------------|---|------------------|-----------|-------|-----|-------------|----------------------|-------------------------|
|             | [ppm or mg/L]   | [minutes]        | CXT       | [° C] |     | Use tables  | Yes / No             | [GPM]                   |
| 1/1770      | 1.45  | 43               | 62.35     | 12    | 7.7 | 29          | YES                  | 10.83                   |
| 2/1090      | 1.38  | 43               | 59.31     | 12    | 7.7 | 28          | YES                  | 13.33                   |
| 3/1000      | <del>1.29</del> 1.29  | 43               | 55.47     | 12    | 7.7 | 28          | YES                  | 10.63                   |
| 4/1000      | <del>1.32</del> 1.32  | 43               | 56.76     | 12    | 7.7 | 28          | YES                  | 14.17                   |
| 5/1030      | <del>1.07</del> 1.07  | 43               | 46.01     | 12    | 7.7 | 28          | YES                  | 14.46                   |
| 6/1040      | .88   | 43               | 37.84     | 12    | 7.7 | 27          | YES                  | 15.21                   |
| 7/1445      | .84   | 43               | 36.12     | 12    | 7.7 | 27          | YES                  | 8.75                    |
| 8/1050      | .94   | 43               | 40.42     | 12    | 7.7 | 27          | YES                  | 11.04                   |
| 9/1090      | 1.32  | 43               | 56.76     | 12    | 7.7 | 28          | YES                  | 11.46                   |
| 10/1050     | 1.29  | 43               | 55.47     | 12    | 7.7 | 28          | YES                  | 10                      |
| 11/1000     | 1.08  | 43               | 46.44     | 12    | 7.7 | 28          | YES                  | 10.63                   |
| 12/1050     | 1.21  | 43               | 52.03     | 12    | 7.7 | 28          | YES                  | 11.04                   |
| 13/1070     | 1.23  | 43               | 52.89     | 12    | 7.7 | 28          | YES                  | 12.71                   |
| 14/1100     | 1.27  | 43               | 54.61     | 12    | 7.7 | 28          | YES                  | 11.46                   |
| 15/1090     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 23.13                   |
| 16/1250     | 1.38  | 43               | 59.31     | 12    | 7.7 | 28          | YES                  | 17.50                   |
| 17/1000     | 1.32  | 43               | 56.76     | 12    | 7.7 | 28          | YES                  | 0                       |
| 18/1030     | 1.30  | 43               | 55.90     | 12    | 7.7 | 28          | YES                  | 0                       |
| 19/1020     | 1.28  | 43               | 55.04     | 12    | 7.7 | 28          | YES                  | 10.21                   |
| 20/1100     | 1.26  | 43               | 54.18     | 12    | 7.7 | 28          | YES                  | 11.25                   |
| 21/1420     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 16.88                   |
| 22/1200     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 9.37                    |
| 23/1090     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 10.42                   |
| 24/1030     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 6.75                    |
| 25/1000     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 11.67                   |
| 26/1030     | 1.20  | 43               | 51.60     | 12    | 7.7 | 28          | YES                  | 8.54                    |
| 27/1000     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 9.38                    |
| 28/1120     | 1.26  | 43               | 54.18     | 12    | 7.7 | 28          | YES                  | 6.67                    |
| 29/1030     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 10.21                   |
| 30/1200     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 6.85                    |
| 31/1030     | 1.25  | 43               | 53.75     | 12    | 7.7 | 28          | YES                  | 7.92                    |

<sup>2</sup> If Cl<sub>2</sub> at entry point < 0.2 mg/l, OR CT not met, notify DWP by end of next business day.

SOURCE NAME: LAKE CREEK

MONTH JULY YEAR 2022

TEST LOCATION CODES:

1 - INFORMATION BOOTH

2 - Chalet

3 - WATER FOUNTAIN

4 - V.C

5 - CHATEAU

6 - GUIDE HOUSE

152,600  
gals made

ADDRESS: OREGON CAVES NATIONAL MONUMENT

19000 CAVES HIGHWAY

CAVE JUNCTION, OREGON 97523

1-541-592-2100

PSW ID#: 419 1998

4729400

| DAY | INITIALS | CHLORINE |     | TIME | TEST LOCATION | B TANK CHLORINE ADDED | CHLORINE |      | METER READING | GAL USED | TURBIDITY |          | REMARKS                        |
|-----|----------|----------|-----|------|---------------|-----------------------|----------|------|---------------|----------|-----------|----------|--------------------------------|
|     |          | RESIDUAL |     |      |               |                       | Set.     | Res. |               |          | RAW       | FINISHED |                                |
|     |          | 4        | SYS |      |               |                       |          |      |               |          |           |          |                                |
| 1   | BN       | 1.45     | 2   | 1230 | 2             | 0                     | 4.5      | 1.45 | 4722400       | 5200     | .274      | .042     | NO CHANGES                     |
| 2   | BN       | 1.38     | 2   | 0900 | 2             | 0                     | 4.5      | 1.38 | 4723100       | 6400     | .274      | .044     | NO CHANGES                     |
| 3   | BN       | 1.29     | 2   | 1000 | 2             | 0                     | 4.5      | 1.29 | 4723600       | 5100     | .274      | .049     | NO CHANGES                     |
| 4   | BN       | 1.32     | 2   | 1000 | 2             | 0                     | 4.5      | 1.32 | 4724800       | 6800     | .275      | .055     | NO CHANGES                     |
| 5   | BN       | 1.07     | 2   | 1030 | 2             | 0                     | 4.5      | 1.07 | 4724800       | 5500     | .276      | .063     | NO CHANGES                     |
| 6   | BN       | .88      | 2   | 0740 | 2             | 0                     | 4.5      | .88  | 4725900       | 7300     | .276      | .040     | CHANGED 1,2,3,4                |
| 7   | BN       | .84      | 2   | 1445 | 2             | 0                     | 5.0      | .84  | 4725900       | 8200     | .275      | .042     | NO CHANGES                     |
| 8   | BN       | .94      | 2   | 0850 | 2             | 4000                  | 5.0      | .94  | 4726200       | 5300     | .274      | .058     | BATCHED 4000 ML CHANGE LA 4    |
| 9   | BN       | 1.32     | 2   | 0930 | 2             | 0                     | 5.0      | 1.32 | 47270700      | 5500     | .274      | .078     | CHANGED 1,2,8,3                |
| 10  | BN       | 1.29     | 2   | 1000 | 2             | 0                     | 5.0      | 1.29 | 4727560       | 4800     | .274      | .044     | NO CHANGES                     |
| 11  | BN       | 1.08     | 2   | 1000 | 2             | 0                     | 5.5      | 1.08 | 4728000       | 5700     | .274      | .047     | NO CHANGES                     |
| 12  | BN       | 1.21     | 2   | 1000 | 2             | 0                     | 5.5      | 1.21 | 4728900       | 5200     | .274      | .057     | NO CHANGES                     |
| 13  | BN       | 1.23     | 2   | 1030 | 2             | 0                     | 5.5      | 1.23 | 4728200       | 6100     | .274      | .057     | NO CHANGES                     |
| 14  | BN       | 1.27     | 2   | 1100 | 2             | 6000ML                | 5.5      | 1.27 | 4729500       | 5500     | .274      | .034     | CHANGED 1,2,3,4 BATCH 6000 ML  |
| 15  | BN       | 1.25     | 2   | 0930 | 2             | 0                     | 5.5      | 1.25 | 4730800       | 11,100   | .274      | .039     | NO CHANGES                     |
| 16  | BN       | 1.58     | 2   | 1350 | 2             | 0                     | 5.5      | 1.38 | 4731700       | 8400     | .274      | .052     | NO CHANGES                     |
| 17  | BN       | 1.32     | 2   | 1000 | 2             | 0                     | 5.5      | 1.32 | 4731700       | 0        | .274      | .050     | NO CHANGES                     |
| 18  | BN       | 1.30     | 2   | 1030 | 2             | 0                     | 6.0      | 1.30 | 4731700       | 0        | .274      | .049     | NO CHANGES                     |
| 19  | BN       | 1.28     | 2   | 0830 | 2             | 0                     | 6.0      | 1.28 | 4732400       | 4900     | .274      | .054     | NO CHANGES                     |
| 20  | BN       | 1.26     | 2   | 1100 | 2             | 0                     | 6.0      | 1.26 | 4732900       | 5400     | .274      | .032     | CHANGED 1,2,3,4                |
| 21  | BN       | 1.25     | 2   | 1400 | 2             | 5700ML                | 6.0      | 1.25 | 47335400      | 8100     | .274      | .044     | BATCHED 5700 ML                |
| 22  | DmJ      | 1.25     | 2   | 1200 | 2             | 0                     | 6.0      | 1.25 | 4733900       | 4500     | .274      | .040     | NO CHANGES                     |
| 23  | DmJ      | 1.25     | 2   | 0900 | 2             | 0                     | 6.0      | 1.25 | 47344900      | 5000     | .274      | .032     | NO CHANGES                     |
| 24  | DmJ      | 1.25     | 2   | 0800 | 2             | 0                     | 6.0      | 1.25 | 47347900      | 3000     | .272      | .035     | NO CHANGES                     |
| 25  | DmJ      | 1.25     | 2   | 1000 | 2             | 0                     | 6.0      | 1.25 | 47353500      | 5600     | .272      | .040     | CHANGED #1,2,3,4 Filters       |
| 26  | DmJ      | 1.20     | 2   | 0800 | 2             | 0                     | 6.0      | 1.20 | 47357600      | 4100     | .270      | .048     | NO CHANGES                     |
| 27  | DmJ      | 1.25     | 2   | 0900 | 2             | 0                     | 6.0      | 1.25 | 47362100      | 4500     | .274      | .045     | NO CHANGES                     |
| 28  | DmJ      | 1.26     | 2   | 1300 | 2             | 0                     | 6.0      | 1.26 | 47365300      | 3200     | .270      | .053     | NO CHANGES                     |
| 29  | DmJ      | 1.25     | 2   | 0800 | 2             | 6000                  | 6.0      | 1.25 | 47370200      | 4900     | .274      | .045     | CHANGED #2,3,4 Batched 6000 ML |
| 30  | DmJ      | 1.25     | 2   | 1200 | 2             | 0                     | 6.0      | 1.25 | 4737400       | 3200     | .274      | .035     | NO CHANGES                     |
| 31  | DmJ      | 1.25     | 2   | 0900 | 2             | 0                     | 6.0      | 1.26 | 47377200      | 3800     | .274      | .032     | NO CHANGES                     |