

| DATUM DER PROBENAHME | 07.11.1978 | 17.12.1979 | 03.06.1980 | 05.11.1980 | 05.05.1982 | 09.11.1982 | 04.05.1983 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 11.6 | 12.0 | 10.4 | 11.8 | 9.6  | 11.8 | 10.2 |
| Temperatur der Luft              | °C    |      |      |      |      | 10.0 | 12.0 | 10.0 |
| Leitfähigkeit (20°C)             | µS/cm |      |      |      |      |      |      |      |
| Spektr. Absorptionskoeff. 254 nm | l/m   |      |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min |      | 2220 | 1950 | 2100 | 3000 | 3000 | 3600 |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |        |   |  |  |  |  |  |   |
|--------------------------|--------|---|--|--|--|--|--|---|
| PC-Agar (20°C) am 3. Tag |        | 1 |  |  |  |  |  | 2 |
| PC-Agar (30°C) am 3. Tag |        | 3 |  |  |  |  |  | 5 |
| Fäkalkeime               |        |   |  |  |  |  |  |   |
| Escherichia coli         | 100 ml | 0 |  |  |  |  |  | 0 |
| Enterokokken             | 100 ml | 0 |  |  |  |  |  | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 37.7    | 37.5    | 36.2    | 36.2    | 37.6    | 36.6    | 36.7    |
| Karbonathärte                    | °fH  | 31.5    | 31.3    | 30.5    | 30.5    | 31.2    | 31.2    | 31.0    |
| Resthärte                        | °fH  | 6.2     | 6.2     | 5.7     | 5.7     | 6.4     | 5.4     | 5.7     |
| Oxidierbarkeit                   | mg/l | 2.2     | 1.6     | 1.4     | 1.4     | 1.4     | 1.6     | 1.1     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Nitrit                           | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Nitrat                           | mg/l | 28.0    | 31.0    | 32.0    | 34.0    | 30.8    | 28.2    | 28.6    |
| Chlorid                          | mg/l | 20.0    | 21.6    | 19.9    | 17.0    | 18.9    | 18.0    | 17.6    |
| Phosphat (als P)                 | mg/l | < 0.006 | 0.009   | < 0.006 | 0.009   | < 0.006 | 0.006   | < 0.006 |
| Sulfat                           | mg/l |         |         |         |         |         |         |         |
| Eisen                            | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Mangan                           | mg/l | < 0.05  | < 0.05  | < 0.05  | < 0.05  | < 0.05  | < 0.05  | < 0.05  |
| Freie Kohlensäure                | mg/l | 49.0    | 45.0    | 36.6    | 41.5    | 45.0    | 51.4    | 52.9    |
| Sauerstoff (gelöst)              | mg/l | 6.15    | 7.88    | 8.8     | 6.7     | 7.94    | 7.01    | 7.9     |
| Sauerstoffsättigung              | %    | 61.5    | 79.5    | 85.5    | 64.0    | 74.0    | 68.6    | 74.0    |
| pH-Wert                          |      | 7.1     | 7.1     | 7.1     | 7.1     | 7.0     | 7.0     | 7.1     |

**WEITERE METALLE**

|             |      |  |
|-------------|------|--|
| Strontium   | µg/l |  |
| Zink        | µg/l |  |
| Cadmium     | µg/l |  |
| Quecksilber | µg/l |  |
| Blei        | µg/l |  |

| DATUM DER PROBENAHME | 07.11.1983 | 07.05.1984 | 29.10.1984 | 01.04.1985 | 24.10.1985 | 09.04.1986 | 22.10.1986 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 11.8 | 10.0 | 11.4 | 10.2 | 11.3 | 9.9  | 11.4 |
| Temperatur der Luft              | °C    | 7.0  | 12.0 | 3.0  | 13.0 | 6.0  | 10.0 | 9.0  |
| Leitfähigkeit (20°C)             | µS/cm |      |      |      |      |      |      |      |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |      |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min | 3000 | 3000 | 3000 | 3080 | 3000 | 3100 | 9000 |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |   |
|--------------------------|---|
| PC-Agar (20°C) am 3. Tag | 2 |
| PC-Agar (30°C) am 3. Tag | 5 |

Fäkalkeime

|                  |        |   |
|------------------|--------|---|
| Escherichia coli | 100 ml | 0 |
| Enterokokken     | 100 ml | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 37.2    | 36.5    | 37.0    | 37.3    | 35.5    | 37.4    | 35.8    |
| Karbonathärte                    | °fH  | 31.4    | 30.3    | 30.8    | 30.0    | 28.4    | 29.8    | 28.8    |
| Resthärte                        | °fH  | 5.8     | 6.2     | 6.2     | 7.3     | 7.1     | 7.6     | 7.0     |
| Oxidierbarkeit                   | mg/l | 1.9     | 2.1     | 1.6     | 1.0     | 1.3     | 1.4     | 1.3     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Nitrit                           | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Nitrat                           | mg/l | 27.7    | 30.8    | 34.5    | 41.8    | 38.7    | 38.7    | 38.1    |
| Chlorid                          | mg/l | 18.8    | 20.2    | 20.8    | 23.0    | 22.5    | 25.6    | 23.4    |
| Phosphat (als P)                 | mg/l | < 0.006 | 0.009   | 0.021   | 0.031   | < 0.006 | 0.006   | 0.006   |
| Sulfat                           | mg/l |         |         |         |         |         |         |         |
| Eisen                            | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Mangan                           | mg/l | < 0.05  | < 0.05  | < 0.05  | < 0.05  | < 0.05  | < 0.02  | < 0.02  |
| Freie Kohlensäure                | mg/l | 41.4    | 47.7    | 37.3    | 42.0    | 42.2    | 42.0    | 45.3    |
| Sauerstoff (gelöst)              | mg/l | 7.0     | 8.1     | 7.91    | 9.1     | 7.81    | 8.38    | 7.38    |
| Sauerstoffsättigung              | %    | 68.4    | 76.1    | 76.6    | 85.8    | 75.5    | 78.4    | 71.5    |
| pH-Wert                          |      | 7.0     | 7.1     | 7.1     | 7.1     | 7.1     | 7.0     | 7.0     |

**WEITERE METALLE**

|             |      |  |
|-------------|------|--|
| Strontium   | µg/l |  |
| Zink        | µg/l |  |
| Cadmium     | µg/l |  |
| Quecksilber | µg/l |  |
| Blei        | µg/l |  |

| DATUM DER PROBENAHME | 06.04.1987 | 19.10.1987 | 11.04.1988 | 17.10.1988 | 10.04.1989 | 03.04.1990 | 07.08.1990 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 10.2 | 11.3 | 10.5 | 12.1 | 10.8 | 11.0 | 10.8 |
| Temperatur der Luft              | °C    | 4.0  | 8.0  |      | 14.0 | 10.0 |      | 14.0 |
| Leitfähigkeit (20°C)             | µS/cm |      |      |      |      |      |      | 637  |
| Spektr. Absorptionskoeff. 254 nm | l/m   |      |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min | 3167 | 3100 | 3250 | 3167 | 3000 | 3166 | 3100 |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |        |   |  |   |  |  |  |  |
|--------------------------|--------|---|--|---|--|--|--|--|
| PC-Agar (20°C) am 3. Tag |        | 0 |  | 2 |  |  |  |  |
| PC-Agar (30°C) am 3. Tag |        | 2 |  | 4 |  |  |  |  |
| Fäkalkeime               |        |   |  |   |  |  |  |  |
| Escherichia coli         | 100 ml | 0 |  | 0 |  |  |  |  |
| Enterokokken             | 100 ml | 0 |  | 0 |  |  |  |  |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 37.1    | 36.8    | 37.5    | 37.0    | 37.7    | 37.0    | 36.8    |
| Karbonathärte                    | °fH  | 30.0    | 30.0    | 30.3    | 30.8    | 31.9    | 31.1    | 31.2    |
| Resthärte                        | °fH  | 7.1     | 6.8     | 7.2     | 6.2     | 5.8     | 5.9     | 5.6     |
| Oxidierbarkeit                   | mg/l | 1.1     | 1.3     | 1.6     | 1.3     | 0.8     | 1.4     | 1.1     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Nitrit                           | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Nitrat                           | mg/l | 37.2    | 42.5    | 40.3    | 31.9    | 37.7    | 24.8    | 28.8    |
| Chlorid                          | mg/l | 23.6    | 24.4    | 21.4    | 20.3    | 20.0    | 18.0    | 18.6    |
| Phosphat (als P)                 | mg/l | 0.006   | 0.009   | 0.009   | < 0.006 | 0.012   | 0.009   | 0.009   |
| Sulfat                           | mg/l |         |         |         |         |         |         | 20.0    |
| Eisen                            | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Mangan                           | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Freie Kohlensäure                | mg/l | 47.3    | 46.4    | 49.9    | 38.9    | 50.5    | 52.6    | 58.4    |
| Sauerstoff (gelöst)              | mg/l | 9.1     | 7.76    | 10.03   | 8.16    | 7.64    | 9.38    | 7.92    |
| Sauerstoffsättigung              | %    | 85.8    | 75.0    | 95.2    | 80.3    | 73.0    | 90.0    | 75.7    |
| pH-Wert                          |      | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     | 7.1     | 7.0     |

**WEITERE METALLE**

|             |      |  |  |  |  |  |  |       |
|-------------|------|--|--|--|--|--|--|-------|
| Strontium   | µg/l |  |  |  |  |  |  | 270   |
| Zink        | µg/l |  |  |  |  |  |  | 30    |
| Cadmium     | µg/l |  |  |  |  |  |  | < 0.2 |
| Quecksilber | µg/l |  |  |  |  |  |  | < 0.2 |
| Blei        | µg/l |  |  |  |  |  |  | < 2   |

| DATUM DER PROBENAHME             |       | 26.02.1991 | 23.09.1991 | 16.03.1992 | 05.08.1992 | 08.03.1993 | 15.03.1994 | 06.09.1994 |
|----------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|
| <b>PHYSIKALISCHE PARAMETER</b>   |       |            |            |            |            |            |            |            |
| Temperatur des Wassers           | °C    | 11.6       | 11.4       | 11.2       | 11.3       | 11.8       | 11.6       | 12.0       |
| Temperatur der Luft              | °C    |            | 14.0       | 5.0        |            | 2.0        | 9.0        | 17.0       |
| Leitfähigkeit (20°C)             | µS/cm | 659        |            |            | 644        | 665        |            | 625        |
| Spektr. Absorptionskoeff. 254 nm | l/m   |            |            |            |            |            |            |            |
| Ergiebigkeit / Pumpmenge         | l/min |            | 3000       | 3000       | 3000       | 3167       | 3000       | 2900       |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

PC-Agar (20°C) am 3. Tag

0

0

PC-Agar (30°C) am 3. Tag

1

0

Fäkalkeime

Escherichia coli

100 ml

0

0

Enterokokken

100 ml

0

0

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 37.5    | 38.4    | 37.5    | 36.5    | 37.4    | 39.1    | 35.8    |
| Karbonathärte                    | °fH  | 31.7    | 32.0    | 30.9    | 30.5    | 30.6    | 31.5    | 29.8    |
| Resthärte                        | °fH  | 5.8     | 6.4     | 6.6     | 6.0     | 6.8     | 7.6     | 6.0     |
| Oxidierbarkeit                   | mg/l | 1.7     | 1.0     | 1.6     | 1.0     | 1.4     | 1.0     | 1.0     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Nitrit                           | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Nitrat                           | mg/l | 33.2    | 33.7    | 33.7    | 31.7    | 39.4    | 39.1    | 32.7    |
| Chlorid                          | mg/l | 22.1    | 18.9    | 20.3    | 20.7    | 21.5    | 20.0    | 17.6    |
| Phosphat (als P)                 | mg/l | < 0.006 | 0.006   | 0.009   | 0.006   | 0.006   | 0.009   | 0.006   |
| Sulfat                           | mg/l | 19.0    |         |         | 23.9    | 25.6    | 28.7    | 23.7    |
| Eisen                            | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Mangan                           | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  |
| Freie Kohlensäure                | mg/l | 54.2    | 55.5    | 49.3    | 48.6    | 56.5    | 60.1    | 53.5    |
| Sauerstoff (gelöst)              | mg/l | 7.59    | 7.27    | 7.58    | 8.18    | 7.39    | 7.44    | 7.43    |
| Sauerstoffsättigung              | %    | 73.9    | 70.4    | 73.0    | 79.1    | 72.2    | 72.4    | 73.0    |
| pH-Wert                          |      | 7.0     | 7.1     | 7.0     | 7.0     | 7.0     | 7.0     | 7.1     |

**WEITERE METALLE**

|             |      |       |  |  |       |       |  |       |
|-------------|------|-------|--|--|-------|-------|--|-------|
| Strontium   | µg/l | 270   |  |  | 290   | 260   |  | 300   |
| Zink        | µg/l | 70    |  |  | 50    | < 20  |  | 60    |
| Cadmium     | µg/l | < 0.2 |  |  | < 0.2 | < 0.2 |  | < 0.2 |
| Quecksilber | µg/l | < 0.2 |  |  | < 0.2 | < 0.2 |  | < 0.2 |
| Blei        | µg/l | < 2   |  |  | < 2   | < 2   |  | < 2   |

| DATUM DER PROBENAHME | 01.03.1995 | 05.09.1995 | 06.03.1996 | 01.10.1996 | 03.09.1997 | 01.09.1998 | 02.03.1999 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 12.0 | 11.4 | 11.6 | 12.4 | 11.6 | 11.8 | 11.4 |
| Temperatur der Luft              | °C    | 3.0  |      |      | 9.0  | 18.0 | 14.0 |      |
| Leitfähigkeit (20°C)             | µS/cm | 628  |      |      | 647  | 658  | 664  | 680  |
| Spektr. Absorptionskoeff. 254 nm | l/m   |      |      |      |      |      |      |      |
| Ergiebigkeit / Pumpmenge         | l/min | 2200 | 2900 | 2700 | 2830 | 3400 | 3300 | 3300 |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |        |   |  |  |   |   |   |   |
|--------------------------|--------|---|--|--|---|---|---|---|
| PC-Agar (20°C) am 3. Tag |        | 1 |  |  | 0 | 1 | 0 | 1 |
| PC-Agar (30°C) am 3. Tag |        | 2 |  |  | 1 | 5 | 1 | 0 |
| Fäkalkeime               |        |   |  |  |   |   |   |   |
| Escherichia coli         | 100 ml | 0 |  |  | 0 | 0 | 0 | 0 |
| Enterokokken             | 100 ml | 0 |  |  | 0 | 0 | 0 | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                       |      |         |         |         |         |         |         |         |
|---------------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                           | °fH  | 35.8    | 34.3    | 35.9    | 36.1    | 35.9    | 36.1    | 36.5    |
| Karbonathärte                         | °fH  | 30.3    | 29.3    | 30.5    | 29.3    | 29.6    | 30.6    | 31.0    |
| Resthärte                             | °fH  | 5.5     | 5.0     | 5.4     | 6.8     | 6.3     | 5.5     | 5.5     |
| Oxidierbarkeit                        | mg/l | 1.7     | 1.1     | 1.3     | 1.1     | 1.0     | 1.3     | 1.4     |
| Totaler organ. Kohlenstoff (TOC) mg/l |      |         |         |         |         |         |         |         |
| Ammonium                              | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | 0.02    | < 0.01  |
| Nitrit                                | mg/l | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.002 | < 0.002 |
| Nitrat                                | mg/l | 32.6    | 32.3    | 28.7    | 27.7    | 28.0    | 27.5    | 29.0    |
| Chlorid                               | mg/l | 17.8    | 19.8    | 20.2    | 23.7    | 26.2    | 26.0    | 26.0    |
| Phosphat (als P)                      | mg/l | 0.006   | 0.006   | 0.009   | 0.011   | 0.013   | 0.008   | 0.009   |
| Sulfat                                | mg/l | 20.8    | 20.3    | 22.4    | 24.4    | 25.1    | 27.0    | 25.0    |
| Eisen                                 | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.01  | 0.01    |
| Mangan                                | mg/l | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.02  | < 0.01  | < 0.01  |
| Freie Kohlensäure                     | mg/l | 44.5    | 41.5    | 45.5    | 39.8    | 34.5    | 41.0    | 39.0    |
| Sauerstoff (gelöst)                   | mg/l | 8.8     | 7.2     | 8.0     | 6.66    | 7.25    | 7.65    | 8.0     |
| Sauerstoffsättigung                   | %    | 86.4    | 69.8    | 77.9    | 66.0    | 70.5    | 75.0    | 78.0    |
| pH-Wert                               |      | 7.0     | 7.0     | 7.1     | 7.0     | 7.1     | 7.1     | 7.15    |

**WEITERE METALLE**

|             |      |  |  |  |       |  |  |  |
|-------------|------|--|--|--|-------|--|--|--|
| Strontium   | µg/l |  |  |  | 330   |  |  |  |
| Zink        | µg/l |  |  |  | 60    |  |  |  |
| Cadmium     | µg/l |  |  |  | < 0.2 |  |  |  |
| Quecksilber | µg/l |  |  |  | < 0.2 |  |  |  |
| Blei        | µg/l |  |  |  | < 2   |  |  |  |

| DATUM DER PROBENAHME             |       | 08.09.1999 | 07.03.2000 | 05.09.2000 | 13.03.2001 | 19.09.2001 | 20.03.2002 | 25.09.2002 |
|----------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|
| <b>PHYSIKALISCHE PARAMETER</b>   |       |            |            |            |            |            |            |            |
| Temperatur des Wassers           | °C    | 13.7       | 11.4       | 12.3       | 11.7       | 13.4       | 11.7       | 13.2       |
| Temperatur der Luft              | °C    | 21.0       | 1.0        | 13.0       | 7.0        | 17.0       | 12.0       | 5.5        |
| Leitfähigkeit (20°C)             | µS/cm |            |            | 643        | 671        |            |            | 632        |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |            |            |            |            |            |            |            |
| Ergiebigkeit / Pumpmenge         | l/min | 3333       | 3250       | 3250       |            |            |            |            |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |        |  |  |   |   |   |   |   |
|--------------------------|--------|--|--|---|---|---|---|---|
| PC-Agar (20°C) am 3. Tag |        |  |  | 0 | 0 | 2 | 2 | 1 |
| PC-Agar (30°C) am 3. Tag |        |  |  | 3 | 2 | 3 | 6 | 5 |
| Fäkalkeime               |        |  |  |   |   |   |   |   |
| Escherichia coli         | 100 ml |  |  | 0 | 0 | 0 | 0 | 0 |
| Enterokokken             | 100 ml |  |  | 0 | 0 | 0 | 0 | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |        |         |         |         |         |         |         |
|----------------------------------|------|--------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °H   | 34.9   | 35.2    | 34.7    | 36.0    | 35.4    | 35.3    | 33.3    |
| Karbonathärte                    | °H   | 29.6   | 30.9    | 30.1    | 31.5    | 31.0    | 31.9    | 29.4    |
| Resthärte                        | °H   | 5.3    | 4.3     | 4.6     | 4.5     | 4.4     | 3.4     | 3.9     |
| Oxidierbarkeit                   | mg/l | 1.0    | 1.6     | 1.0     | 1.0     | 0.8     | 1.4     | 1.6     |
| Totaler organ. Kohlenstoff (TOC) | mg/l |        |         |         |         |         |         |         |
| Ammonium                         | mg/l | < 0.01 | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Nitrit                           | mg/l |        | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Nitrat                           | mg/l | 27.0   | 25.0    | 24.5    | 24.5    | 24.0    | 21.0    | 21.5    |
| Chlorid                          | mg/l | 28.0   | 25.0    | 25.5    | 24.0    | 24.5    | 22.5    | 20.0    |
| Phosphat (als P)                 | mg/l | 0.009  | 0.01    | 0.003   | 0.009   | 0.008   | 0.009   | 0.008   |
| Sulfat                           | mg/l | 28.0   | 23.0    | 24.0    | 24.5    | 25.5    | 22.5    | 22.0    |
| Eisen                            | mg/l | 0.07   | 0.09    | < 0.01  | < 0.01  | 0.01    | 0.04    | 0.01    |
| Mangan                           | mg/l | 0.01   | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Freie Kohlensäure                | mg/l | 35.0   | 35.0    | 40.0    | 41.0    | 37.0    | 40.0    | 34.0    |
| Sauerstoff (gelöst)              | mg/l | 7.25   | 8.7     | 7.3     | 7.25    | 6.9     | 7.45    | 5.3     |
| Sauerstoffsättigung              | %    | 74.0   | 84.0    | 72.0    | 71.0    | 70.0    | 73.0    | 54.0    |
| pH-Wert                          |      | 7.1    | 7.35    | 7.15    | 7.15    | 7.2     | 7.25    | 7.1     |

**WEITERE METALLE**

|             |      |  |
|-------------|------|--|
| Strontium   | µg/l |  |
| Zink        | µg/l |  |
| Cadmium     | µg/l |  |
| Quecksilber | µg/l |  |
| Blei        | µg/l |  |

| DATUM DER PROBENAHME | 12.03.2003 | 06.10.2004 | 21.03.2005 | 20.09.2006 | 26.03.2007 | 14.10.2008 | 20.09.2010 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 11.4 | 12.7 | 11.5 | 11.7 | 11.7 | 13.1 | 12.2 |
| Temperatur der Luft              | °C    | 12.0 | 20.0 | 12.0 | 16.0 |      | 18.0 | 7.0  |
| Leitfähigkeit (20°C)             | µS/cm | 671  | 665  | 670  | 668  | 642  | 585  | 635  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   |      | 1.1  | 1.4  |      | 0.9  | 1.4  | 1.2  |
| Ergiebigkeit / Pumpmenge         | l/min |      |      |      |      |      |      |      |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |  |   |   |   |   |   |   |   |
|--------------------------|--|---|---|---|---|---|---|---|
| PC-Agar (20°C) am 3. Tag |  | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| PC-Agar (30°C) am 3. Tag |  | 1 | 2 | 0 | 0 | 0 | 1 | 2 |

Fäkalkeime

|                  |        |   |   |   |   |   |   |   |
|------------------|--------|---|---|---|---|---|---|---|
| Escherichia coli | 100 ml |   | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterokokken     | 100 ml | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 35.6    | 34.8    | 35.1    | 33.6    | 33.2    | 31.4    | 32.9    |
| Karbonathärte                    | °fH  | 31.6    | 30.1    | 30.1    | 29.7    | 29.4    | 28.1    | 28.9    |
| Resthärte                        | °fH  | 4.0     | 4.7     | 5.0     | 3.9     | 3.8     | 3.3     | 4.0     |
| Oxidierbarkeit                   | mg/l | 1.1     | 1.0     |         |         |         |         |         |
| Totaler organ. Kohlenstoff (TOC) | mg/l |         | 0.6     | 0.6     | 0.6     | 0.6     | 0.7     | 0.7     |
| Ammonium                         | mg/l | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Nitrit                           | mg/l | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Nitrat                           | mg/l | 21.5    | 22.5    | 24.5    | 20.5    | 21.0    | 19.5    | 21.0    |
| Chlorid                          | mg/l | 25.0    | 24.5    | 34.5    | 39.0    | 32.5    | 22.0    | 36.0    |
| Phosphat (als P)                 | mg/l | 0.007   | 0.007   | 0.003   | 0.007   | 0.006   | < 0.002 | 0.01    |
| Sulfat                           | mg/l | 23.0    | 29.0    | 25.5    | 26.0    | 24.5    | 19.5    | 23.0    |
| Eisen                            | mg/l | 0.03    | < 0.01  | 0.07    | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Mangan                           | mg/l | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Freie Kohlensäure                | mg/l | 42.0    | 37.0    | 32.0    | 31.0    | 30.0    | 18.0    | 30.0    |
| Sauerstoff (gelöst)              | mg/l | 6.95    | 7.2     | 7.6     | 7.75    | 8.0     | 6.65    | 7.3     |
| Sauerstoffsättigung              | %    | 68.0    | 72.0    | 74.0    | 75.0    | 78.0    | 67.0    | 72.0    |
| pH-Wert                          |      | 7.15    | 7.15    | 7.25    | 7.55    | 7.3     | 7.4     | 7.35    |

**WEITERE METALLE**

|             |      |  |       |  |  |  |  |       |
|-------------|------|--|-------|--|--|--|--|-------|
| Strontium   | µg/l |  | 277   |  |  |  |  | 276   |
| Zink        | µg/l |  | 133   |  |  |  |  | 7     |
| Cadmium     | µg/l |  | < 0.2 |  |  |  |  | < 0.2 |
| Quecksilber | µg/l |  | < 0.2 |  |  |  |  | < 0.2 |
| Blei        | µg/l |  | < 1   |  |  |  |  | < 1   |

| DATUM DER PROBENAHME | 14.03.2011 | 09.10.2012 | 08.04.2013 | 23.09.2014 | 12.03.2015 | 26.09.2016 | 22.03.2017 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 11.5 | 13.6 | 11.7 | 13.2 | 12.4 | 13.5 | 12.1 |
| Temperatur der Luft              | °C    |      |      |      |      |      |      |      |
| Leitfähigkeit (20°C)             | µS/cm | 656  | 648  | 659  | 631  | 653  | 606  | 703  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   | 1.1  | 1.2  | 1.1  | 1.1  | 1.1  | 1.0  | 1.0  |
| Ergiebigkeit / Pumpmenge         | l/min |      |      |      |      |      |      |      |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |        |   |   |   |   |   |   |    |
|--------------------------|--------|---|---|---|---|---|---|----|
| PC-Agar (20°C) am 3. Tag |        | 0 |   |   |   |   |   |    |
| PC-Agar (30°C) am 3. Tag |        | 0 | 0 | 0 | 0 | 5 | 0 | 0  |
| Fäkalkeime               |        |   |   |   |   |   |   |    |
| Escherichia coli         | 100 ml | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| Enterokokken             | 100 ml | 0 | 0 | 0 | 0 | 0 | 0 | 17 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 34.2    | 33.4    | 33.9    | 32.4    | 33.7    | 31.3    | 32.7    |
| Karbonathärte                    | °fH  | 29.8    | 30.5    | 30.3    | 29.7    | 30.8    | 29.0    | 29.8    |
| Resthärte                        | °fH  | 4.4     | 2.9     | 3.6     | 2.7     | 2.9     | 2.3     | 2.9     |
| Oxidierbarkeit                   | mg/l |         |         |         |         |         |         |         |
| Totaler organ. Kohlenstoff (TOC) | mg/l | 0.6     | 0.6     | 0.6     | 0.6     | 0.5     | 0.3     | 0.3     |
| Ammonium                         | mg/l | < 0.01  | < 0.05  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Nitrit                           | mg/l | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Nitrat                           | mg/l | 21.5    | 21.0    | 20.8    | 17.4    | 18.4    | 17.2    | 19.2    |
| Chlorid                          | mg/l | 40.0    | 32.0    | 39.6    | 32.7    | 34.7    | 28.2    | 32.2    |
| Phosphat (als P)                 | mg/l | 0.008   | 0.01    | 0.005   | 0.009   | 0.011   | 0.011   | 0.008   |
| Sulfat                           | mg/l | 26.0    | 22.5    | 20.4    | 24.5    | 23.5    | 22.1    | 24.2    |
| Eisen                            | mg/l | < 0.01  | < 0.01  | < 0.01  |         |         |         |         |
| Mangan                           | mg/l | < 0.01  | < 0.01  | < 0.01  |         |         |         |         |
| Freie Kohlensäure                | mg/l | 25.0    | 28.0    | 22.0    | 29.0    | 24.0    | 19.0    | 19.0    |
| Sauerstoff (gelöst)              | mg/l | 8.15    | 7.65    | 8.2     | 6.2     | 7.7     | 7.75    | 8.35    |
| Sauerstoffsättigung              | %    | 79.0    | 78.0    | 80.0    | 63.0    | 76.0    | 79.0    | 82.0    |
| pH-Wert                          |      | 7.4     | 7.4     | 7.5     | 7.35    | 7.45    | 7.4     | 7.7     |

**WEITERE METALLE**

|             |      |  |
|-------------|------|--|
| Strontium   | µg/l |  |
| Zink        | µg/l |  |
| Cadmium     | µg/l |  |
| Quecksilber | µg/l |  |
| Blei        | µg/l |  |



| DATUM DER PROBENAHME | 22.08.2018 | 27.02.2019 | 23.09.2020 | 02.03.2021 | 13.09.2022 | 09.03.2023 |
|----------------------|------------|------------|------------|------------|------------|------------|
|----------------------|------------|------------|------------|------------|------------|------------|

**PHYSIKALISCHE PARAMETER**

|                                  |       |      |      |      |      |      |      |
|----------------------------------|-------|------|------|------|------|------|------|
| Temperatur des Wassers           | °C    | 12.9 | 13.2 | 13.3 | 12.8 | 12.8 | 13.5 |
| Temperatur der Luft              | °C    |      |      |      |      |      |      |
| Leitfähigkeit (20°C)             | µS/cm | 658  | 651  | 643  | 655  | 689  | 650  |
| Spektr. Absorptionskoeff. 254 nm | 1/m   | 1.0  | 1.1  | 0.9  | 1.0  | 0.9  | 1.0  |
| Ergiebigkeit / Pumpmenge         | l/min |      |      |      |      |      |      |

**BAKTERIOLOGIE**

Aerobe mesophile Keime pro 1 ml

|                          |        |   |    |   |   |   |   |
|--------------------------|--------|---|----|---|---|---|---|
| PC-Agar (20°C) am 3. Tag |        |   |    |   |   |   |   |
| PC-Agar (30°C) am 3. Tag |        | 0 | 20 | 5 |   | 2 | 4 |
| Fäkalkeime               |        |   |    |   |   |   |   |
| Escherichia coli         | 100 ml | 0 | 0  | 0 | 0 | 0 | 0 |
| Enterokokken             | 100 ml | 0 | 0  | 0 | 0 | 0 | 0 |

**CHEMISCHE HAUPT- UND NEBENPARAMETER**

|                                  |      |         |         |         |         |         |         |
|----------------------------------|------|---------|---------|---------|---------|---------|---------|
| Gesamthärte                      | °fH  | 33.2    | 32.7    | 32.8    | 33.1    | 32.8    | 32.7    |
| Karbonathärte                    | °fH  | 29.8    | 29.6    | 29.8    | 30.1    | 29.8    | 29.6    |
| Resthärte                        | °fH  | 3.4     | 3.1     | 3.0     | 3.0     | 3.0     | 3.1     |
| Oxidierbarkeit                   | mg/l |         |         |         |         |         |         |
| Totaler organ. Kohlenstoff (TOC) | mg/l | 0.4     | 0.5     | 0.7     | 0.8     | 0.9     | 0.6     |
| Ammonium                         | mg/l | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  | < 0.01  |
| Nitrit                           | mg/l | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 | < 0.002 |
| Nitrat                           | mg/l | 18.3    | 22.3    | 18.6    | 19.6    | 18.2    | 20.0    |
| Chlorid                          | mg/l | 37.7    | 35.9    | 32.1    | 33.8    | 45.4    | 35.0    |
| Phosphat (als P)                 | mg/l | 0.01    | 0.011   | 0.012   | 0.012   | 0.01    | 0.01    |
| Sulfat                           | mg/l | 26.9    | 24.4    | 25.7    | 23.5    | 31.9    | 24.6    |
| Eisen                            | mg/l |         |         |         |         |         |         |
| Mangan                           | mg/l |         |         |         |         |         |         |
| Freie Kohlensäure                | mg/l | 25.0    | 20.0    | 28.0    | 32.0    | 30.0    | 28.0    |
| Sauerstoff (gelöst)              | mg/l | 7.2     | 8.95    | 7.2     | 8.5     | 6.5     | 7.7     |
| Sauerstoffsättigung              | %    | 72.0    | 90.0    | 72.0    | 85.0    | 65.0    | 78.0    |
| pH-Wert                          |      | 7.4     | 7.7     | 7.4     | 7.2     | 7.3     | 7.3     |

**WEITERE METALLE**

|             |      |  |  |  |  |  |  |
|-------------|------|--|--|--|--|--|--|
| Strontium   | µg/l |  |  |  |  |  |  |
| Zink        | µg/l |  |  |  |  |  |  |
| Cadmium     | µg/l |  |  |  |  |  |  |
| Quecksilber | µg/l |  |  |  |  |  |  |
| Blei        | µg/l |  |  |  |  |  |  |