



**Average water quality at Pitkääkoski, Vanhankaupunki and Kuninkaanlähde  
water treatment plants 1.1. - 31.12.2025**

| Analysis                                  | Unit       | Drinking water                                |                                                    |                                              | Quality<br>recommendation/<br>requirement <sup>c)</sup> |
|-------------------------------------------|------------|-----------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------------|
|                                           |            | Pitkääkoski, surface<br>water treatment plant | Vanhakaupunki,<br>surface water<br>treatment plant | Kuninkaanlähde, ground<br>water intake plant |                                                         |
| Temperature                               | °C         | 7,0                                           | 6,6                                                | 7,0                                          |                                                         |
| Alkalinity, HCO <sub>3</sub> <sup>-</sup> | mmol/l     | 0,73                                          | 0,72                                               | 1,03                                         |                                                         |
| Ammonium, NH <sub>4</sub> <sup>+</sup>    | mg/l       | 0,13                                          | 0,13                                               | 0,10                                         | 0,5                                                     |
| Total chlorine, Cl <sub>2</sub>           | mg/l       | 0,46                                          | 0,45                                               | 0,39                                         |                                                         |
| Permanent hardness                        | °dH        | 3,0                                           | 3,0                                                | 3,5                                          |                                                         |
| Total organic carbon, TOC                 | mg/l       | 2,0                                           | 2,1                                                | 0,7                                          | b)                                                      |
| KMnO <sub>4</sub> -index                  | # mg/l     | 4,8                                           | 5,4                                                | -                                            |                                                         |
| pH                                        |            | 8,4                                           | 8,5                                                | 8,5                                          | 6,5–9,5                                                 |
| Turbidity                                 | FNU        | 0,05                                          | 0,06                                               | <0,05                                        | a)                                                      |
| Conductivity                              | µS/cm      | 154                                           | 156                                                | 240                                          | 2500                                                    |
| Iron, Fe                                  | µg/l       | 25                                            | 18                                                 | <10                                          | 200                                                     |
| Aluminium, Al                             | # µg/l     | 5                                             | 5                                                  | -                                            | 200                                                     |
| Fluoride, F                               | # mg/l     | 0,1                                           | 0,1                                                | -                                            | 1,5                                                     |
| Cadmium, Cd                               | # µg/l     | <0,02                                         | <0,02                                              | -                                            | 5,0                                                     |
| Potassium, K                              | # mg/l     | 1,2                                           | 1,3                                                | -                                            |                                                         |
| Calcium, Ca                               | # mg/l     | 17                                            | 17                                                 | -                                            |                                                         |
| Chloride, Cl                              | # mg/l     | 5,8                                           | 6,4                                                | -                                            | 250                                                     |
| Chromium, Cr                              | # µg/l     | <0,05                                         | <0,05                                              | -                                            | 50                                                      |
| Copper, Cu                                | # µg/l     | 0,3                                           | 1,0                                                | -                                            | 2000                                                    |
| Lead, Pb                                  | # µg/l     | <0,1                                          | <0,1                                               | -                                            | 10                                                      |
| Magnesium, Mg                             | # mg/l     | 1,5                                           | 1,5                                                | -                                            |                                                         |
| Manganese, Mn                             | # µg/l     | <3                                            | <3                                                 | -                                            | 50                                                      |
| Sodium, Na                                | # mg/l     | 6,0                                           | 6,6                                                | -                                            | 200                                                     |
| Zinc, Zn                                  | # µg/l     | <5                                            | <5                                                 | -                                            |                                                         |
| Sulphate sulphur, SO <sub>4</sub> -S      | # mg/l     | 8,1                                           | 8,1                                                | -                                            |                                                         |
| Sum of PFAS compounds                     | # ng/l     | <10                                           | <10                                                | -                                            | 100                                                     |
| Heterotrophic plate count 22°C            | cfu/ml     | 0                                             | 0                                                  | 0                                            |                                                         |
| <i>Escherichia coli</i>                   | mpn/100 ml | 0                                             | 0                                                  | 0                                            | 0                                                       |
| Coliform bacteria                         | mpn/100 ml | 0                                             | 0                                                  | 0                                            | 0                                                       |
| Intestinal enterococci                    | mpn/100 ml | 0                                             | 0                                                  | 0                                            | 0                                                       |
| Odour, dilution number 25°C               |            | 0,0                                           | 0,0                                                | 0,1                                          | a)                                                      |
| Flavour, dilution number 25°C             |            | 0,0                                           | 0,0                                                | 0,2                                          | a)                                                      |

# Analysis subcontracted. The subcontractor is MetropoliLab Oy.

a) Acceptable to consumers, no abnormal changes

b) No abnormal changes

c) Decree of the Ministry of Social Affairs and Health Relating to the Quality and Monitoring of Water Intended for Human Consumption 1352/2015