

Bergel, T., Pawelek, J., Rulka, Z. Turbidity of Water Provided by the Water Supply Systems in the Malopolskie Voivodeship. *Ochrona Srodowiska* 2009, Vol. 31, No. 4, pp. 61–64.

Abstract: The water supplied to the users in the Malopolskie Voivodeship in 2007 was analyzed for turbidity. The analysis covered 703 waterworks regularly monitored by the Regional Sanitary and Epidemiological Station. A total of 1794 water samples was made subject to analysis (167 surface water samples, 1261 groundwater samples and 366 mixed water samples) to determine the minimal, maximal and average turbidity levels, as well as the number of episodes when the admissible turbidity value (1 NTU) was exceeded. The study has produced the following findings. According to the water source being used, the turbidity of the tap water supplied varied from 0.1 to 8.7 NTU (av. 0.97 NTU) for surface water, from 0.01 to 26.0 NTU (av. 0.84 NTU) for groundwater, and from 0.02 to 10.0 NTU (av. 0.93 NTU) for mixed water. The majority of episodes with the 1 NTU value being exceeded were observed in the waterworks using surface water (29.3% of samples). Significantly lower was the number of such episodes in the waterworks where use was made of groundwater (12.4% of samples) or mixed water (4.1% of samples). In most instances the exceeded turbidity values were within the range of 1 to 5 NTU.

Keywords: Tap water, water quality, turbidity.