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QUALITY OF ARANCA RIVER WATERS IN SÂNNICOLAU MARE AREA

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Abstract:

The aim of paper is to study the water quality of the Aranca River in the Sânnicolau Mare area. The following parameters were analysed: pH, nitrate, nitrite, ammonium and phosphate content.

• Results and discussions

Figure 1. The area for water sampling

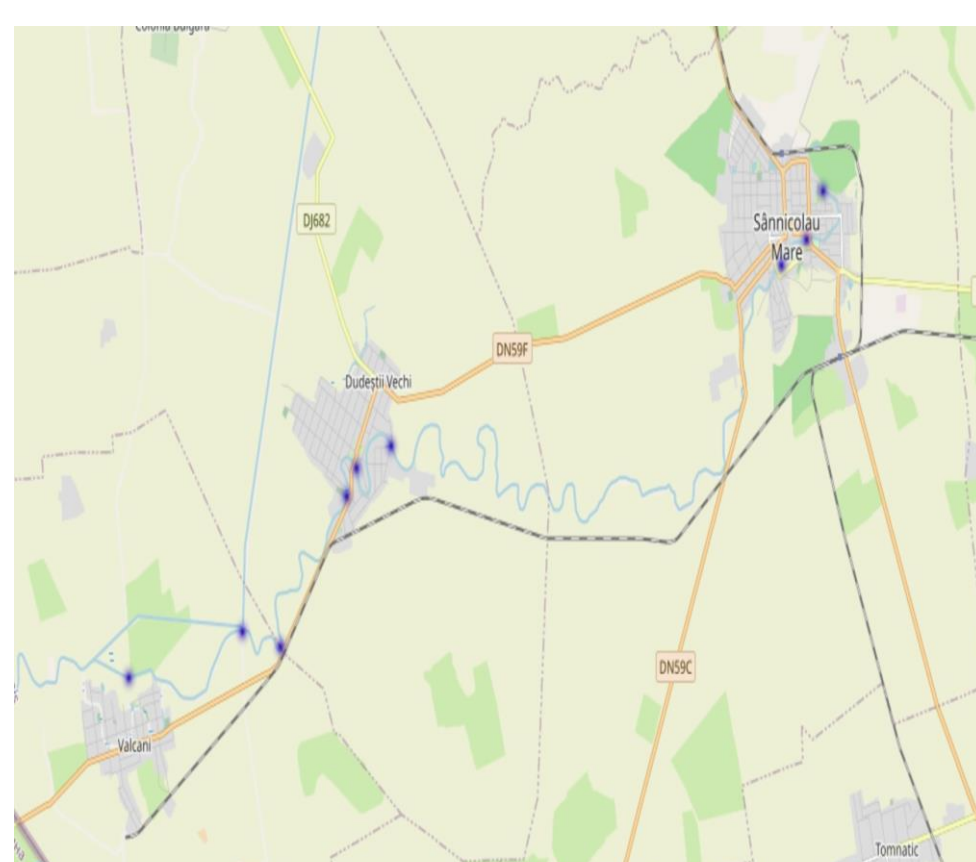


Figure 2. Nitrate and nitrite content of
water samples

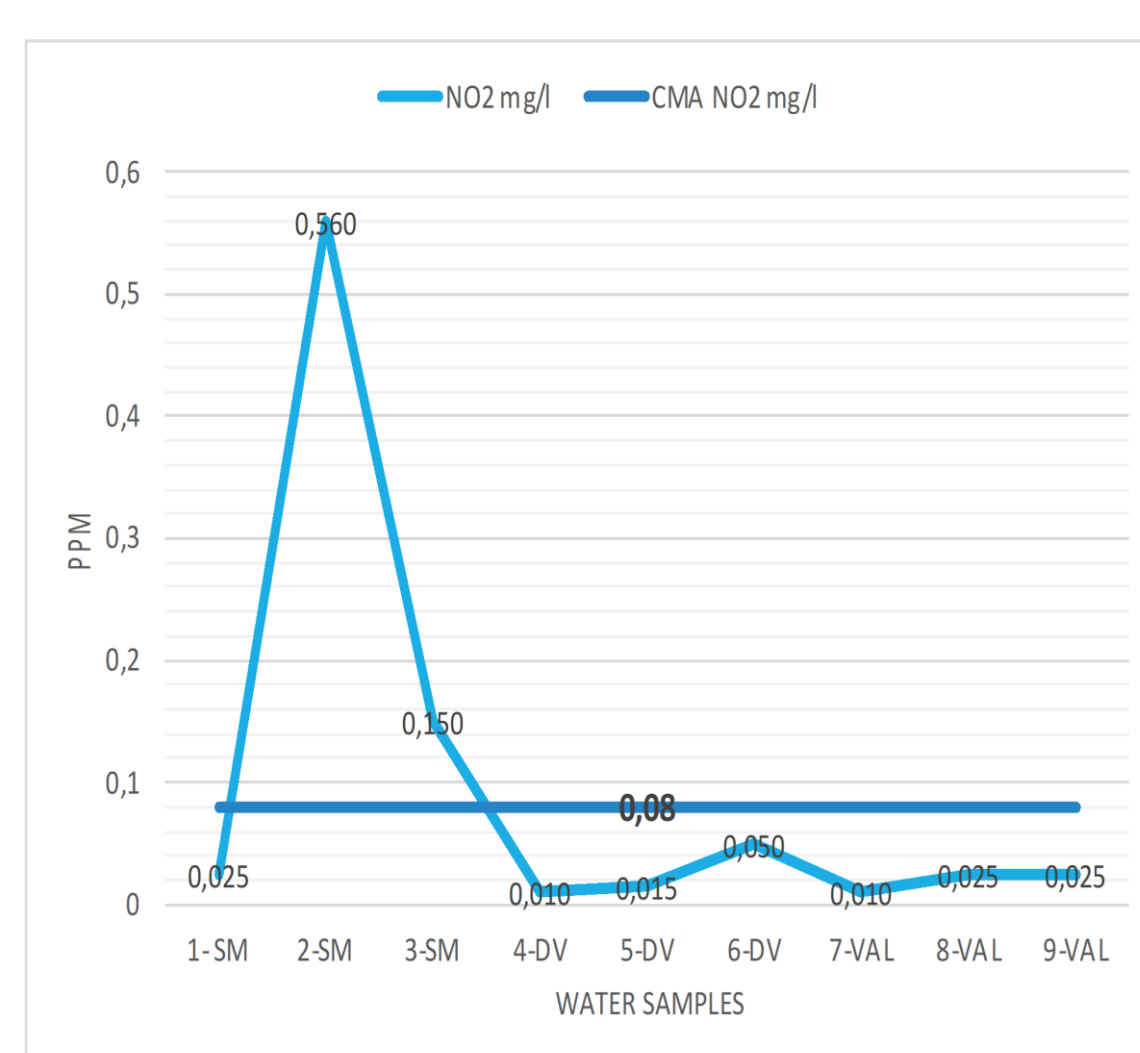
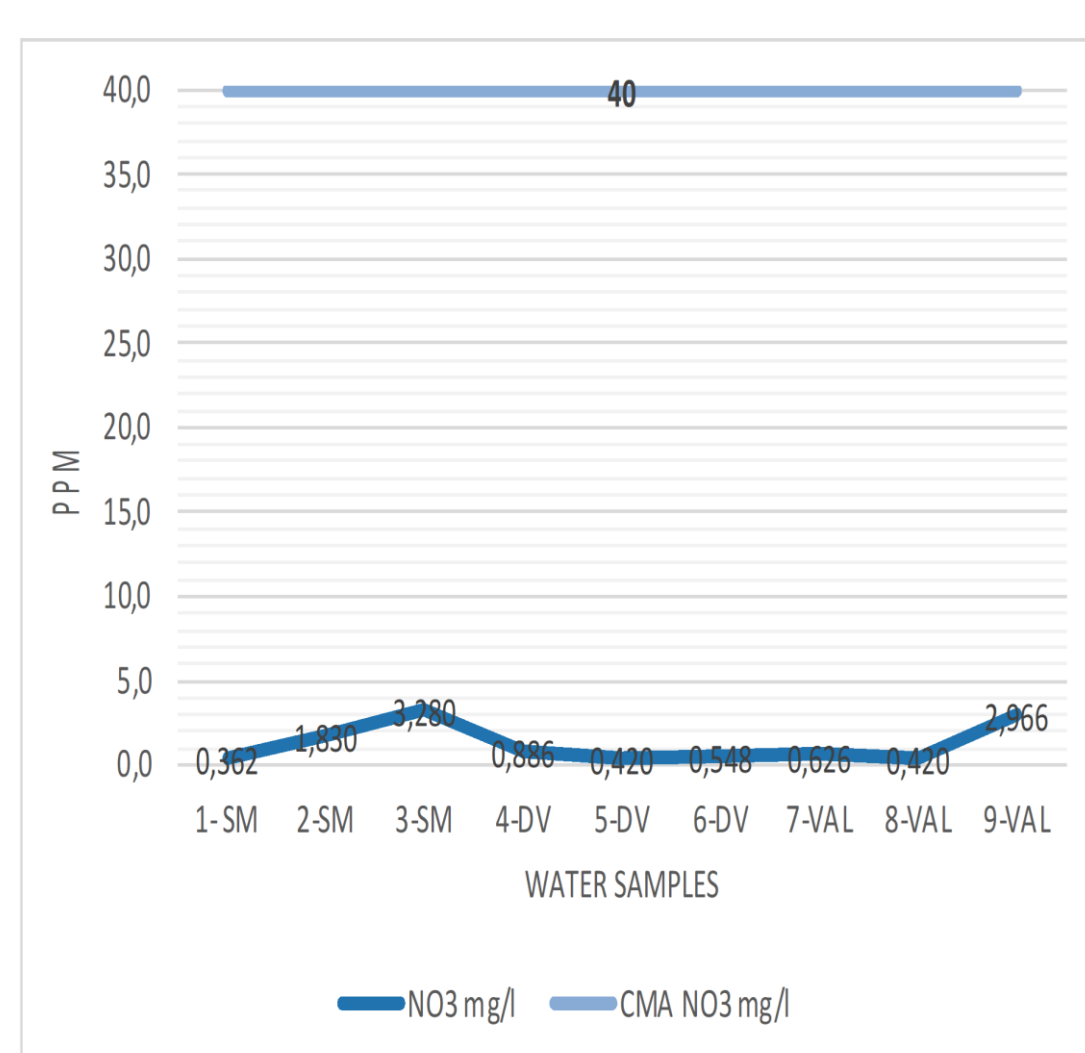
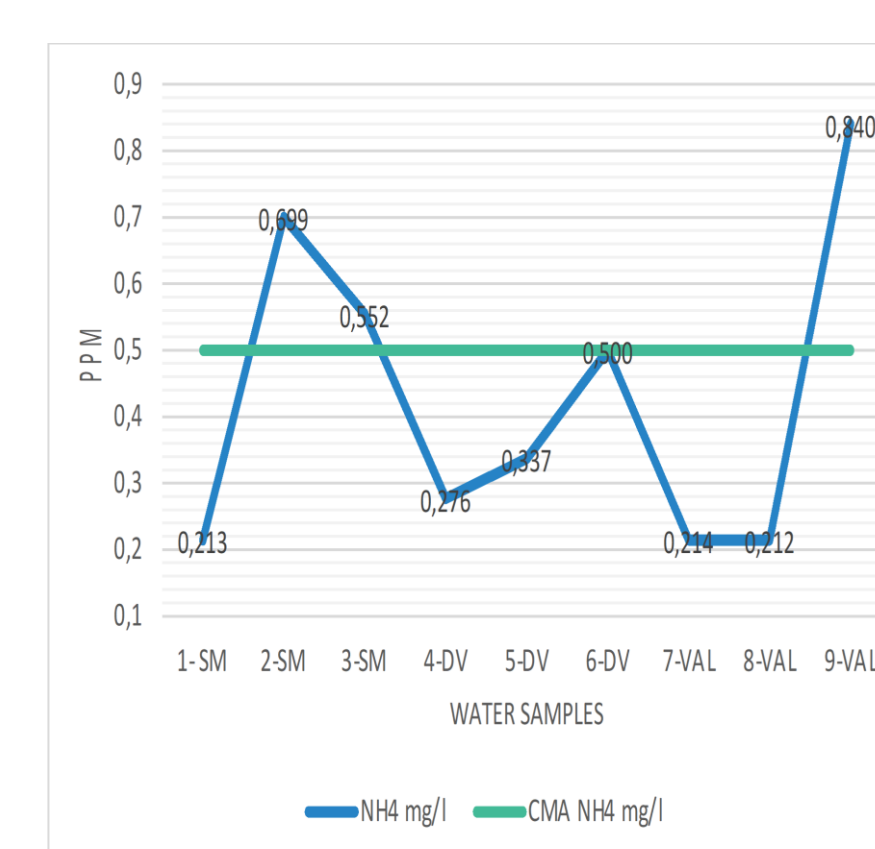


Figure 3. Ammonium content of
water samples



• Conclusions

The nitrate concentration is, in all water samples collected and analysed, below the maximum permissible limit value.

Regarding nitrite concentration, there are two water samples 2SM and 3SM in which the nitrite value exceeds the maximum permissible limit. The two values are 0.560 and 0.150 ppm.

In the case of ammonium ion, in two samples, 2SM and 9VAL, high concentrations of 0.699 ppm and 0.840 ppm respectively were determined, exceeding the maximum allowed values. For samples 3SM and 6DV, the values are very close to the maximum permissible limit.

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