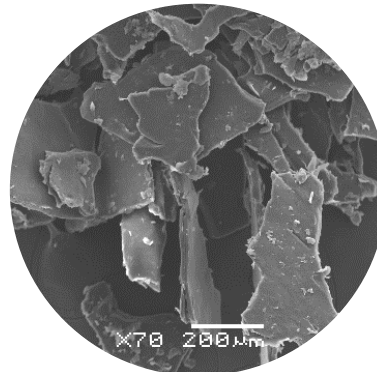


Investigation of microplastics in Hungarian drinking water processing plants

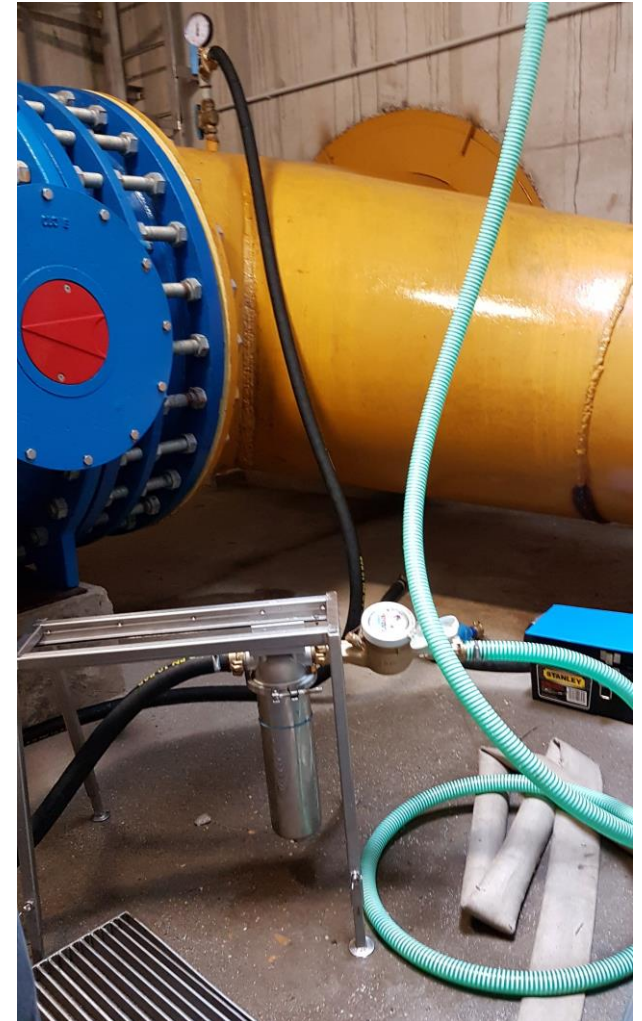
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- Tap water is one of the most important foodstuff
- Microplastics (MPs) are directly consumed, if contamination is present in the samples
- Very limited data available on globally, especially when different technological points of water processing plants (WPPs) are investigated through the whole process

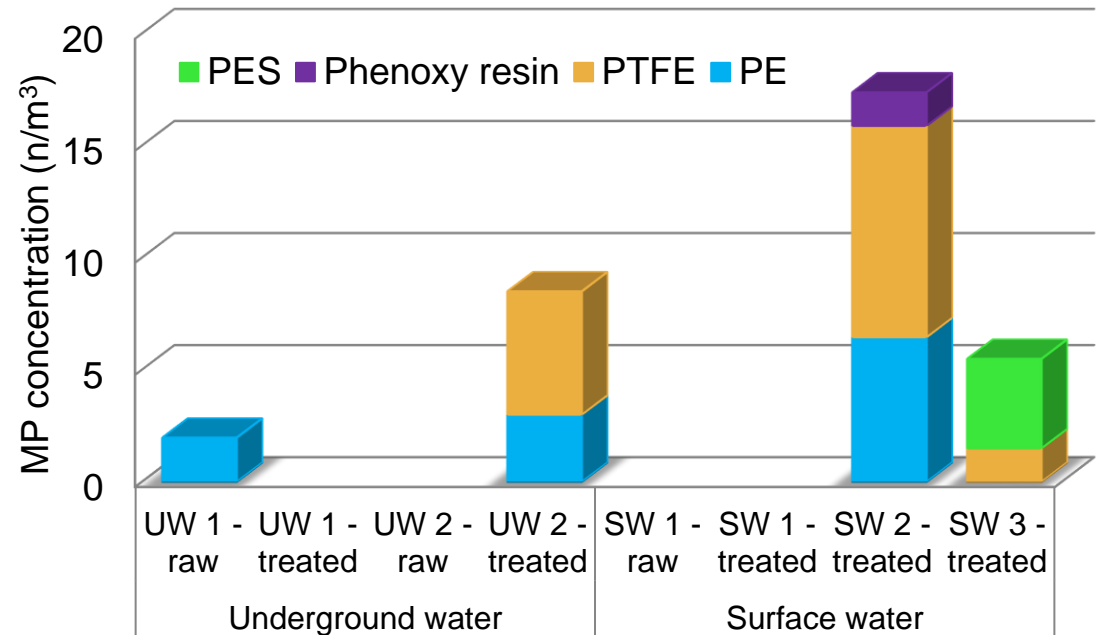


- Different water sources of WPPs
 - Undergorund
 - Surace water (river)
- Raw and treated water sampling
- High volume water needs to be filtered → 2000 L on 15 μm filters was collected
- Particle analysis by $\mu\text{FTIR-ATR}$



RESULTS & CONCLUSIONS

- First study of drinking water MP content in Hungary
- Indication of MPs, but no clear connection between raw and treated water could be drawn
- PE and PTFE dominance
- Need for background contamination check (establishment of QA/QC measures)
- Future tests should be conducted as a set of several repetitions to better compare results and the effect of WPPs → monitoring



ANALYSIS

CONSULTANCY

PLANNING

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Thank you for the attention!

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