

## ***Interactive comment on “Application of optical tomography in the study of discolouration in drinking water distribution systems” by P. van Thienen et al.***

**P. van Thienen et al.**

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First, the authors would like to thank anonymous referee 1 for his/her review of and comments on the paper.

It appears that four of the points listed by the referee require a reply:

*3. Are substantial conclusions reached? Conclusions are not there yet*

Our original conclusion was that we have a promising method. We have added more specific conclusions:

"A method for studying particle processes in situ has been presented and tested. The

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following can be concluded:

- The mathematical framework presented here is suitable for obtaining meaningful images from light measurements.
- The technical implementation is capable of resolving semi-transparent objects in a test setting."

*5. Are the results sufficient to support the interpretations and conclusions? Need further rewording to make it clear*

The more specific conclusions we have added are a direct condensation of the results presented in the paper.

*6. Is the description of experiments and calculations sufficiently complete and precise to allow their reproduction by fellow scientists (traceability of results)? Hard to say*

We feel that we have given a rather complete description of our approach, but we would be happy to add more information on any issue which is specifically indicated as lacking.

*9. Does the abstract provide a concise and complete summary? May be expanded a little to include the conclusions drawn.*

The abstract now includes our more specific conclusions:

"We conclude that the mathematical framework presented is suitable and that the technical implementation works in a test setting. The described methodology may provide a valuable tool for the study of processes related to drinking water discolouration in the lab."

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Interactive comment on Drink. Water Eng. Sci. Discuss., 4, 39, 2011.

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