

Interactive comment on “Flow Intake Control using Dry-weather Forecast” by Otto Icke et al.

Anonymous Referee #1

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In the manuscript entitled “Flow Intake Control using Dry-weather Forecast”, the authors propose an interesting real-time approach to improve the wastewater control in case of flooding events. Some main changes should be addressed before to be keen to recommend this work to be accepted in DWES.

I highlight the following:

The Introduction explains properly the peak discharge issues after heavy rainfall events. However, I miss a clear exposition of what the authors are proposing to do in the paper.

In Section 2 the authors introduce Aquasuite(R). This is well referenced but it would be of interest for the reader if the authors also provide a website where find further information, in case it is available on-line.

In page 3, line 70, the authors claim: “This particular technique is based on the fully

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adaptive forecasting model for short-term drinking water demand (Bakker et al. 2013a) applied on waste water discharge.” This point should be clarified about if the method used is general enough or how it is adapted in this case to also cover the analysis of both drinking and wastewater. The subsequent 2 sentences don’t clarify this point. Please, explain.

At line 81, the authors should reword the paragraph to mean that the 3 phases explanation properly corresponds to the initial statement of “a volume optimisation technique...” which seems quite generic

At line 91, the sentence “The optimisation technique is in principle equal to the predictive control applied in drinking water supply (Bakker et al. 2013b)” is confuse and should be explained.

Subsection 2.4 seems more a case-study introduction than a proper implementation as it is suggested by the title. However, as a case-study is short of details as well as describing the working implementation. The authors should reword this subsection and provide more and better details.

At line 174: “So-called nowcasting...” The authors should explain better what is now-casting and it is a widely used and hugely important topic. The authors should also be more specific in how the current approach

As a side note, it is worth mentioning that the authors should reduce as much as they can the use of "past participles" in the text.

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