

Dear Christian Stamm,

thank you for your comment on the revised version of our manuscript. Please find our responses below.

L. 140 – 147: Unless there is a clear reason not to do so, please provide the exact information on buildings and facades for all buildings in the SI.

See line 132: We added the following table in the Appendix and added a reference in L133.

Table A1: Footprint, height and facade area of buildings.

House No	Footprint size [m ²]	Height [m]	Approximate facade area covered by paints and renders [m ²]
1	624	13	634
2	559	13	577
3	468	13	525
4	446	13	484
5	364	13	426
6	299	13	369
7	257	13	343
8	214	13	296

L. 176: I suggest to write “... are not necessarily representative of the entire rain event.” (You don’t know whether they were representative or not. Therefore, you cannot make a positive statement that they weren’t.)

See line 164: Thank you for your suggestion. We changed the sentence accordingly.

L. 196 (figure caption): I suggest to write “Colors correspond to the steps of the experimental procedure and sampling sites.”

See line 182: Thank you for your suggestion. We changed the figure caption accordingly.

L. 239 – 241: Please add a sentence explaining why the low recovery was not an issue in your case. The low values should not go uncommented.

See line 229: We added the following explanation:

Terbuthylazin-2-hydroxy and terbumeton had lower recovery rates compared to the other compounds. Hence, the results of the two TPs should be treated with more caution and values might be underestimated. If positive results are obtained despite the mediocre recovery rate, insights into the fate of both TPs can already be obtained.

Please note, we changed the colors of figures 5, 6, 7, 8, 9 and 10 to clarify visual differences of TPs of Terbutryn.

L: 333: I am not convinced by the water solubility explanation. Even for the parent compounds the solubility cannot be limiting being in the mg/L range (Tab. 3). Please reconsider the argument.

See line 313: Thank you for pointing this out. We agree with your argument and we deleted this sentence: “Higher water solubility of most TPs compared to biocides might lead to more wash-off of TPs and thus easier detection of TPs.” We deleted “Additionally,” in the following sentence.