

Interactive comment on “Hydrogeological effects of dredging navigable canals through lagoon shallows. A case study in Venice” by Pietro Teatini et al.

Anonymous Referee #1

Received and published: 28 June 2017

The manuscript is very interesting and has a large amount of data (hydrological, geochemical, geophysical) that are integrated with a modeling. I suggest some modifications that will help to better understand the analysis of data and to make reading more enjoyable. - The manuscript is very extensive and its reading is complicated in the current format. I suggest clearly indicating the methodology, results, discussion and conclusion in separate items. - Add a more detailed description of the chemical results. - I understand that labile oligoelement is that fraction of sediments that is readily transformed into soluble. But, is really soluble when the ship transits on the channel? Justify the desorption of these elements. - I suggest inserting the sediment chemistry data into the profiles of Figure 2 and deleting Tables 1 and 5 - Replace mg/l per mg/L -

C1

I do not specialize in models, I suggest that another reviewer see these items.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2017-317>, 2017.

C2