Hydrol. Earth Syst. Sci. Discuss., 11, C5351–C5353, 2014 www.hydrol-earth-syst-sci-discuss.net/11/C5351/2014/

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## **HESSD**

11, C5351-C5353, 2014

Interactive Comment

## Interactive comment on "Confronting vicinity of the surface water and sea shore in a shallow glaciogenic aquifer in southern Finland" by S. Luoma et al.

S. Luoma et al.

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Received and published: 27 November 2014

Reply to the comments received from Anonymous Referee#2

We appreciate the comments received. We have tried to answer all the comments thoroughly and make all the appropriate suggested improvements. The text in the manuscript has been improved and revised according to the comments received and also the answers to the specific comments are given below:

1. Highlight the main finding and novelty.

#The conclusions were rewritten to make it more concise and more highlight on the C5351

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main finding based on the aims of the study that earlier stated in the introduction part.

2. Hydraulic mapping base on well data and support the chemical data and also Fig. 1 with a bigger observation point on the map.

#The bigger symbol of observation wells were updated on the map and groundwater contour map based on the interpolation of groundwater level data from observation wells was presented in Fig.1.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 8651, 2014.

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## ■ Bedrock Sampling well IIII IIII -12- Elevation contour line (m a.s.l. Sand & gravel · Tvärminne weather station Sand & fine sand Sweden Silt ☐ Clay Peat Baltic Sea Finland Hanko 20° E HANKO Baltic Sea 23°0'0"E Sampling & monitoring well ☆ Groundwater risk areas Peatland - Main road Sampling well Gravel pit +++ Railroad ▲ Surface water sampling Surface water sampling | Concrete factory | Bedrock exposure | Bedrock exposure | Old gravel pit - landscaping after treatment 0.25 0.5 **←** Groundwater flow directions **Baltic Sea** Obs4 Obs12 Grave Lake Sandöträsket 23°6'E 23°9'E

Fig. 1.

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