

## ***Interactive comment on “Application of time domain induced polarization to the mapping of lithotypes in a landfill site” by A. Gazoty et al.***

### **Anonymous Referee #1**

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Comments HESSD 9,983-1011 Authors A. Gazoty et al. This well structured and written paper is an excellent case history example of the application of geophysical methods to a very worrying problem. It considers a landfill without any impermeable membrane and leachate collection system and delineates the geological units that drive the waste water below. The combined use of DC and TDIP (Time Domain Induced Polarisation) facilitated both the landfill and the aquitard limit locations. It merits to be published as it is but more complementary information would be relevant: How was the contamination (page 987) characterised in the landfill itself and in the plume? By fluid sampling in the logged boreholes (page 990) and taking into account the log data? Are landfills without impermeable layer underneath numerous? Is the one of Vojens representative in terms of geological and water management contexts ?

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