

## ***Interactive comment on “Revegetation in abandoned quarries with landfill stabilized waste and gravels: water dynamics and plant growth – a case study” by Cheng-liang Zhang et al.***

**Anonymous Referee #2**

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The paper is presenting important finding to management of abandoned quarry soil and mined soil rehabilitation. The methodology used was comprehensive – soil engineering and plant physiology – and the results were discussed in a balanced way. The work was sufficiently proven. The results and conclusions were robust and show a substantial contribution to scientific world. The tables and figures supported the novel findings. I may suggest some corrections on: (a) P 2-3 Line 41-42 Keywords: municipal solid waste; and landfill may be merged in one phrase; and the entry revegetation may be added; (b) P 7 Line 118-119 MPN of colliforms were tested. Is there any result of that test? The data would confirm the safety of the research site; (c) P 8 Line 139, crusgalli should be written crus-galli; (d) P 13 Line 254-255, I would suggest the add of the

C1

name of plant: ruderals or the target species?; (e) P 20-21 Line 416 and Line 420, Author name Jomaa may proceed Jordán; (f) P 21 Line 434-435; 437-438; and 440-441 the different indentation of the references; (g) P 22-23 Line 469-471, this reference (Zhang et al., 2016) is not cited in the paper; (h) P 24 Line 476, the Slit may be changed to Silt; and the adding of its unit, i.e. mm; (i) I have a question regarding the word “intermediate” (P 2 line 34, P 12 line 225, and P 18 line 351). Intermediate tells the position between two things. It's clear, though, that the LSW:gravel ratio shows the compaction. The word “moderate compaction” was clear to the reader; (j) The adding of map of study; (k) The adding of description of physical soil appearance over time to add the discussion qualitatively; (l) The adding of the author of plant scientific names, e.g. *Robinia pseudoacacia* L.; (m) The adding of the books, which the authors reference the scientific names. I suggest this paper could be published after some minor corrections.

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C2