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Corrigendum

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Corrigendum: Cutter-disc consumption during earth pressure balance tunneling in mixed strata

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The authors would like to present their sincere acknowledgements for the discussor's valuable comments on the original article (Elbaz *et al.*, 2018a, 2018b), which the authors have found useful to enhance the technical soundness of the article. The authors regret that errors have been identified in two sections of the text and in Figures 13 and 14, corrections for which are detailed below.

The location of the sinkhole is not within zone 6, but within zone 1, as mentioned in an earlier publication by the corresponding author (Cui *et al.*, 2015). The cause of the formation of this sinkhole is most likely owing to instability of the excavation face. During the initial tunnel construction stage (100 rings), the pressure applied to the foam to ensure excavation face stability was still under adjustment. Unfortunately, the foam spilled out from the ground surface while erecting the initial 100 rings, thereby triggering formation of the sinkhole.

The last three paragraphs in section 4-6 ('Challenges and problems faced') have been replaced by the paragraph below.

In December 2013, an incident involving a ground surface collapse occurred while erecting ring 44 within zone 1 of weathered limestone. The cause of the formation of this sinkhole is most likely owing to instability of the excavation face. During the initial tunnel construction stage (100 rings), the pressure applied to the foam to ensure excavation face stability was still under adjustment. Unfortunately, the foam spilled out from the ground surface while erecting the initial 100 rings, thereby triggering the 5 m long, 2 m deep sinkhole. No casualties were recorded for this incident. This sinkhole was then filled with mortar, while the karst caverns nearby were treated using the binary slurry. The replacement of excavation tools, machine maintenance and additional ground investigation resulted in a significant delay of 5 months.

Figure 13. Relationship between the construction schedule and the tunnelling distance for the Ma-Lian section

The last point in section 5 ('Conclusions') has been replaced by the paragraph below.

- (d) The pressure applied to the foam failed to maintain the excavation face stability most likely because of its adjustment during the initial tunnel construction stage (within 100 rings), thereby triggering a 5 m long, 2 m deep sinkhole. This sinkhole and nearby karst caverns were treated immediately following this incident to prevent further development.

Figure 13 has been revised to reflect the updated information.

Figure 14 has been removed from the article.

The authors sincerely apologise for the errors and any inconvenience caused.

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