

Release notes

D-Geo Stability 18.1.1.3

10-11-2017

Limitations

MGEOLIB-854	Input files created with versions older than MStab 9.10 (MStab is the predecessor of D-Geo Stability) are no longer supported. When you want to read an old file you can use version 17.1 and save it with a different name.
MST-803	The calculation option "Use friction of end section" is not available anymore.

Fixed bugs

MST-1066	For Uplift-Van method, if the horizontal part of the slip plane coincides with a layer boundary, the control of the weakest layer (2 mm above and below the sliding surface) didn't always take place correctly because the dilatancy angle was not included correctly. In this control, the calculation was always associative ($\psi = \phi$). This is now solved (Known Issue).
MST-1104	If the "Su-calculated with yield stress" shear strength model was used, some slices could use a wrong POP value of -1. This is now solved (Known Issue).
MST-1095 & MST-1110 MST-1074	The shear stress (τ and S_u) per slices displayed in the Stresses window was not correct because divided by the safety factor. This is now solved. During a probabilistic calculation with shear strength model "Su-calculated with POP", the POP values per slice given in the Report are now the design values (instead of the input values)
MST-1016	When using load "Tree on slope", an unexpected warning message about "Input has been changed" was displayed when looking at the results. This is now solved.
MST-1031	For Horizontal Balance method, when selecting "Long Report", some columns in the results per slice were empty. This is now solved.
MST-1127	For Uplift-Van method, if no PL-lines were present, an exception error was displayed. This is now solved.

Improvements

MGEOLIB-894	In the table for input of PL-Lines per layer, a column with the name of the material is added.
MST-1073	For Uplift-Van method, the inputted points in the "Reference Level for Ratio S" window are now used as slice division.

User Manual

MST-1129	The background information about geotextiles (section 16.2.2.2) has been improved.
MST-1114	Equation (16.73) given the active arm for Uplift-Van method has been corrected.
MST-486	Figure 16.13 for Spencer method has been improved.
MST-1066	A note has been added just before section 19.1 to explain how the choice of the material properties is done when the horizontal part of the Uplift-Van slip plane coincides with a layer boundary.

Verification Report

MST-1108	New benchmarks (4-10) have been added to test the choice of the material properties when the horizontal part of the Uplift-Van slip plane coincides with a layer boundary.
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