

Slide Analysis Information

Deponija Sv.Peter

Project Summary

File Name: Profil SV1-15_brez nasutja_levo.slim
 Slide Modeler Version: 6.005
 Project Title: Deponija Sv.Peter
 Analysis: Analiza stabilnosti v profilu SV1-15
 Author: B.Praznik,u.d.i.geol.
 Company: GECKO d.o.o.
 Comments:

Analiza stabilnosti leve brežine pred nasipom.

Design Standard




Selected Type: Eurocode 7 - Design Approach 3

Type	Partial Factor
Permanent Actions: Unfavourable	1
Permanent Actions: Favourable	1
Variable Actions: Unfavourable	1.3
Variable Actions: Favourable	0
Effective cohesion	1.25
Coefficient of shearing resistance	1.25
Undrained strength	1.4
Weight density	1
Shear strength (other models)	1.25
Earth resistance	1
Tensile and plate strength	1
Shear strength	1
Compressive strength	1
Bond strength	1
Seismic Coefficient	1

Groundwater Analysis

Groundwater Method: Water Surfaces
 Pore Fluid Unit Weight: 9.81 kN/m³
 Advanced Groundwater Method: None

Material Properties

Property	GM	Fliš	Star nasip
Color			
Strength Type	Mohr-Coulomb	Generalised Hoek-Brown	Mohr-Coulomb
Unit Weight [kN/m3]	19	23	19.5
Cohesion [kPa]	0		0
Friction Angle [deg]	35		30
Unconfined Compressive Strength (intact) [kPa]		3000	
nmb		0.431795	
ns		0.000172232	
na		0.538237	
Water Surface	Water Table	Water Table	Water Table
Hu Value	1	0.8	1

Global Minimums

Method: bishop simplified

FS: 1.151310
 Center: 25.888, 19.065
 Radius: 11.375
 Left Slip Surface Endpoint: 17.178, 11.749
 Right Slip Surface Endpoint: 27.265, 7.774
 Resisting Moment=629.574 kN-m
 Driving Moment=546.832 kN-m