

Slide Analysis Information

Odlagalisce Padna

Project Summary

File Name: Padna_P1-19_brez nasipa
 Slide Modeler Version: 7.013
 Project Title: Odlagalisce Padna
 Analysis: Analiza stabilnosti profila P1-19
 Author: B.Praznik,u.d.i.geol.
 Company: GECKO d.o.o.
 Date Created: Stabilnost leve brežine brez nasipa

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 [kN/m³]: 9.81
 Advanced Groundwater Method: None

Seismic

Advanced seismic analysis: No
 Staged pseudostatic analysis: No

Material Properties

Property	GM	Fliš
Color		
Strength Type	Mohr-Coulomb	Generalized Hoek-Brown
Unit Weight [kN/m ³]	19	23
Cohesion [kPa]	0	
Friction Angle [deg]	35	
Unconfined Compressive Strength (intact) [kPa]		3000
nmb		0.431795
ns		0.000172232
na		0.538237
Water Surface	Water Table	Water Table
Hu Value	1	0.8

Global Minimums

Method: bishop simplified

FS	0.962204
Center:	398033.513, 38367.220
Radius:	42.046
Left Slip Surface Endpoint:	397995.904, 38348.418
Right Slip Surface Endpoint:	398036.008, 38325.247
Resisting Moment:	92012.8 kN-m
Driving Moment:	95627.1 kN-m
Total Slice Area:	206.461 m ²
Surface Horizontal Width:	40.1037 m
Surface Average Height:	5.14818 m