Program Details

Operating System
Windows XP/Vista/7/8/10
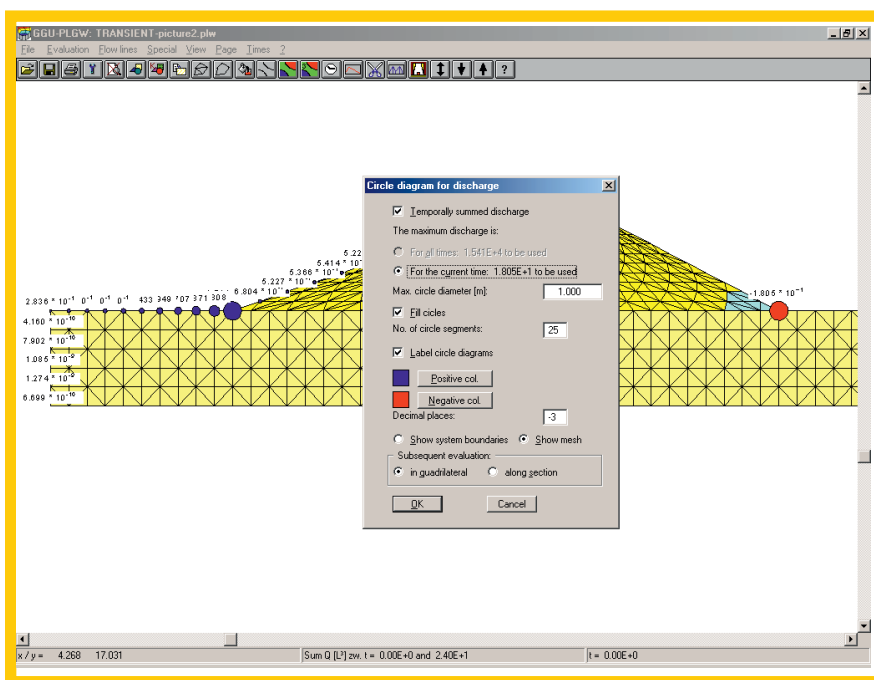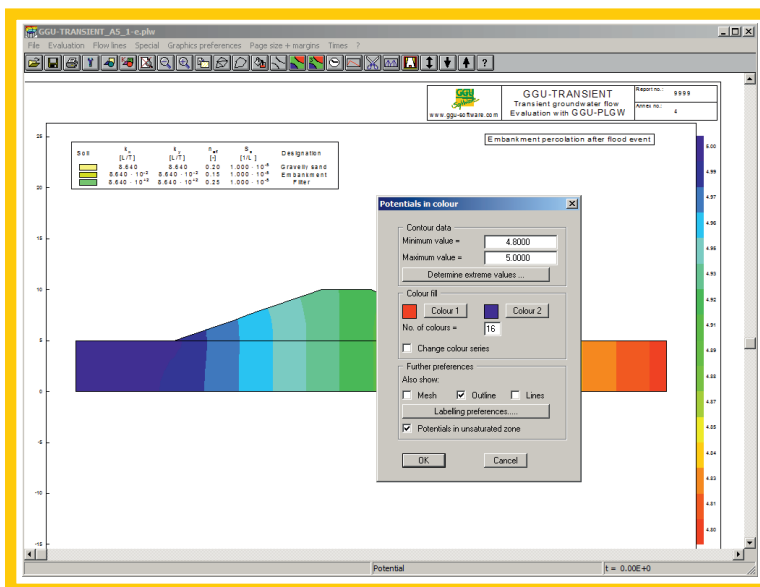
Article number
ggu-02-007

Description

GGU-TRANSIENT – *Analysis of transient groundwater flow using the finite-element method, based on a groundwater system modelled using GGU-SS-FLOW2D.*

Capabilities:
- *Adoption of the steady-state GW data, soil colours, etc. from GGU-SS-FLOW2D*
- *Consideration of phreatic lines and unsaturated zones*
- *Graphic-oriented input and modification of time boundary conditions, e.g. polygon courses for time-data pairs, potentials or sources*
- *Graphic-oriented input and modification of fixed boundary conditions, e.g. potentials, point, line and diffuse sources*
- *Import and export ASCII data*
- *Function permeability k = f(time)*
- *Standard values for nw = f(u) for soils*

*Evaluation and graphical visualisation of analysis results using the supplementary program **GGU-PLGW**:*
- *Coloured visualisation of GW potentials in the system cross-section*
- *Determination and visualisation of potentials, velocities and gradients as normal, colour-filled or 3D contours*
- *Visualisation of discharges in a circle diagram or between two points in time*
- *Calculation of a groundwater-filled volume*
- *Determination and (coloured) visualisation of groundwater thickness, groundwater-surface distance and confined regions*
- *Analysis and visualisation of flow lines with distance and time increments*
- *Visualisation of potentials as hydrographs for individual system nodes*
- *Time-correlated visualisation of potentials, seepage velocities and gradients in user-definable sections*
- *Visualisation of phreatic lines*
- *Visualisation of differential contours*
- *Animated, on-screen visualisation of potential history with time*
- *User-designed output sheet*
- *Print or copy screen sections, e.g. for transfer to a word processor*
- *Integrated Mini-CAD system for additional annotation of graphics*

	GGU-TRANSIENT	Report no.:	9999
	Transient groundwater flow	Annex no.:	4
www.ggu-software.com	Evaluation with GGU-PLGW		

Embankment percolation after flood event

Outline

578 · 434 · 322 · 180

potential

8.5

8.0

7.5

7.0

6.5

6.0

5.5

5.0

0   2   4   6   8   10   12   14   16   18   20   22   24   Zeit

434
322
180
578