



Program Details

ART.-No.

ggu-02-006

OPERATING SYSTEM

Windows 95/98/ME, NT/2000/XP

Description

GGU-SSFLOW2D

Calculation of steady-state groundwater flow in
horizontal
vertical
axially symmetrical
systems using the finite element method.

Capabilities:

- Powerful mesh generator with mesh condenser and optimizer
- Import of ASCII-Data
- Consideration of seepage lines and the unsaturated zone
- Definition of layer boundaries using fixed values or an interpolation mesh (data import of ASCII-Data of GGU-Program ISO)

- Graphically oriented data input and editor for fixed boundary conditions such as potentials and single, line or area flux
- Powerful evaluation tools
- Color supported presentation of results such as normal, colored or 3-dimensional ISO-lines, tables or circle diagrams

- Evaluation and presentation of potentials, velocities v_x , v_y and flux in any cross-section

- Evaluation and presentation of groundwater level, aquifer thickness, groundwater distance from surface, "artesian" areas and "dry" areas

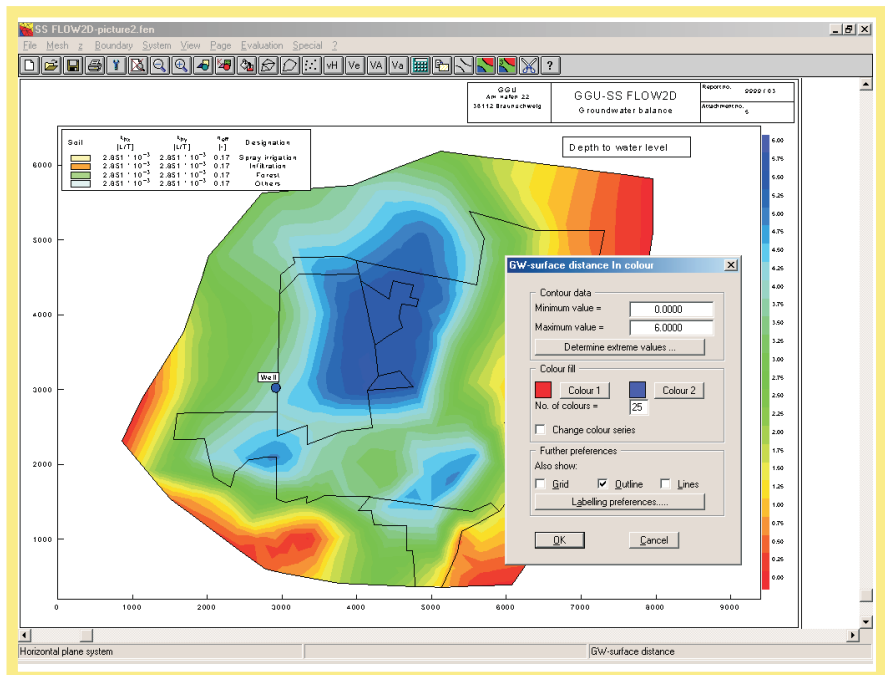
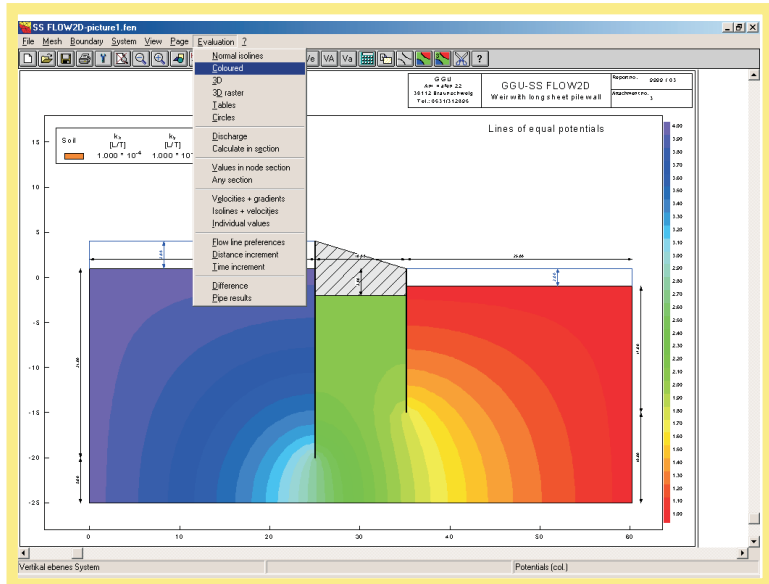
- Evaluation and presentation of flow lines with path and time increment

- Calculation of differential-maps of two previous calculations and presentation as normal, colored or 3-dimensional ISO-lines

- Automatic export of transient data for the programs GGU-TRANSIENT, GGU-CONTAM FE / RW

- Interface for the program GGU-SS-FLOW3D (3-dimensional groundwater systems)

- Free design of graphical data output



Copy of screen windows and paste in word processing programs

PROGRAM GGU-SS FLOW 2D
GEOTECHNICAL COMPUTATION

GGU
Am Hafen 22
38112 Braunschweig

Report no. 9999 / 03
Attachment no. 5

GGU-SS FLOW2D

Steady state groundwater flow

Vertical plane groundwater system

Lines of equal water levels along dam section

Soil	k_x [L/T]	k_y [L/T]	n_{eff} [-]	Designation
Subsoil	$1.000 \cdot 10^{-5}$	$1.000 \cdot 10^{-5}$	0.20	Subsoil
Dam	$1.000 \cdot 10^{-4}$	$1.000 \cdot 10^{-4}$	0.20	Dam
Loam	$1.000 \cdot 10^{-7}$	$1.000 \cdot 10^{-7}$	0.20	Loam
Filter	$1.000 \cdot 10^{-2}$	$1.000 \cdot 10^{-2}$	0.20	Filter

