

File > Import > CSV

The second file format is currently supported within the GeoTechnical tools is CSV (comma delimited values). This is an extremely flexible format in that the first line of the file lists the composition of the file, therefore, the data can be in any order. Note all files must have the borehole_name in order to import correctly. The borehole file should be imported first, followed by the Material or SPT data. (Order on these two does not matter.) If the format changes partway through the file, COLUMN HEADER (in caps) may be included on one line, followed by another row of key words. There is no limit to the number of COLUMN HEADER lines per file.

Three files are utilized:

- Borehole – contains borehole location information
- Material – contains material and stratum information. Note each line can have only one stratum, however, each borehole may have as many lines as needed.
- SPT

The Borehole file contains the following. Note not all fields are required. The minimum information is borehole_name, chain_name, station / offset or location_point_x and location_point_y.

borehole_name
description
chain_name
station
offset
depth
water_elev_0
water_elev_24
water_elev_type 0=DOC 1=strata
rok_elev (2)
rok_elev_type 0=DOC 1=strata
elevation
location_point_x
location_point_y

(2) Referred to as Refusal in the GeoTechnical dialogs.

One sample borehole file is depicted below. Note if any key words are not utilized, they are not included in the file.

Borehole_name, station, offset, chain_name

101, 10+00, -100, NB

102, 12+50, -50, NB

Note the keywords are in the first line separated by commas. The data follows in the same order as the first line. Another sample is depicted below.

Chain_name, offset, station, borehole_name

NB, -100, 10+00, 101

NB, -50, 12+50, 102

Another sample utilizes X, Y coordinates in lieu of station / offset.

Borehole_name, location_point_x, location_point_y, elevation

101, 234567.345, 234456.85, 456.24

102, 2346646.352,234450.35, 461.35

The second file is material and supports the following key words. . Note each line can have only one stratum, however, each borehole may have as many lines as needed. To accommodate some of the GPS equipment, the borehole_name may be set to 0. When this is encountered, GEOPAK utilizes the borehole_name from the previous line. The use of the actual borehole_name in multiple lines is also supported.

borehole_name

material_name

type_of_elev DOC=DOC Strata = SE

description

doc_or_se (depth of cover or strata elevation)

include_rock_data (1) Yes =1 No = 0

record_percentage

required_percentage

(1) referred to as **Core** Data in the GeoTechnical dialogs.

One sample file is depicted below:

Borehole_name, material_name, type_of_elev, doc_or_se

101, clay,DOC, 1.3

101, silt, DOC, 2.6

101, peat, DOC, 4.9

102, sand, SE, 475.45

0, silt, SE, 475.15

0, peat, SE, 475.05

The third file is SPT and supports the following key words. Note the borehole_name must be included. To accommodate some of the GPS equipment, the borehole_name may be set to 0. When this is encountered, GEOPAK utilizes the borehole_name from the previous line. The use of the actual borehole_name in multiple lines is also supported.

borehole_name
type_of_elev DOC=DOC Strata = SE
doc_or_se Depth of cover or strata elevation
total_count
count_1
count_2
count_3

One sample file is depicted below.

borehole_name,doc_or_se,type_of_elev, total_count, count_1, count_2, count_3

7001, 0.3,doc,6,1,2,3

7001, 1.5,doc,15,4,5,6

7001, 6.0,doc,24,7,8,9

7005, 5.0,doc,10,5,5

- The Project Files should be created prior to any file importation, in order to fully populate the Borehole Navigator.

When importing a file and the borehole name already exists, an Alert message is displayed.

If **Append** is selected, the data for current borehole is maintained and just the fields that are being imported change. If **Replace** is selected, the current borehole in the database is deleted and the imported information is utilized. The option can be applied to a single borehole, or to all boreholes in the current process. If **Cancel** is selected, the Alert message closes and no changes occur, returning the user to the Borehole Navigator.