Station Description Sheet

W01

1. GENERAL INFORMATION

Photo 1: Outside view of the shelter

Photo 2: The W01 station

Station Code: W01
Network: Euroseis
Instrumentation: Check the up-to-date EUROSEISTEST stations history file at http://euroseisdb.civil.auth.gr/stations
Power supply: AC
Housing: in a water pump house in the western part of the Mygdonian basin

2. GEOGRAPHICAL INFORMATION / GEOMORPHOLOGY

Figure 1: Location map of W01 station

Location: in the Mygdonian basin
Elevation (from sea level): 65 m
Station coordinates: 23.273878^{0}E / 40.664956^{0}N
Projection system: WGS84
Site morphology: Valley center (west part of the valley)

3. GEOLOGICAL INFORMATION

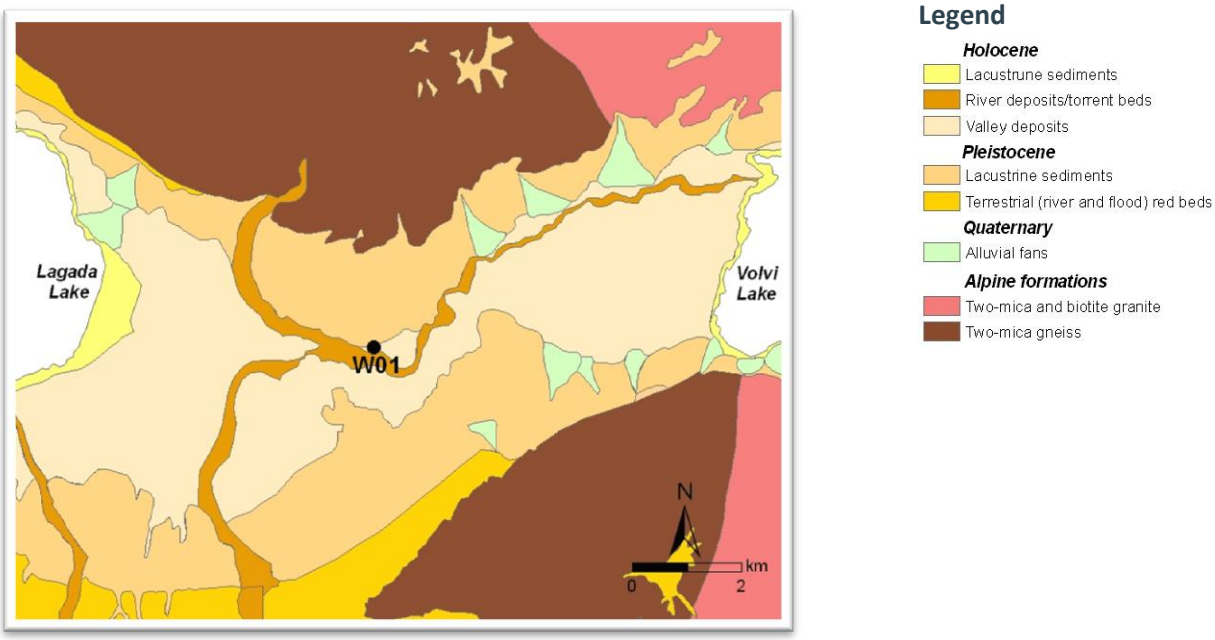

Figure 2: Geological map of the central Mygdonian basin

Surface geology (from geological map): on Holocene valley deposits
Reference for geological map: Geological map of Greece - Scale 1:50000, Map Sheets of "Thermi" and "Zagliverion", (IGME, 1978)
Boreholes (with core description) in the proximity of the station: not known

4. GEOTECHNICAL SITE CHARACTERIZATION

Geotechnical site characterization data for station W01 include:

1. Sampling borehole (EUROSEISTEST Project Reports, 1993-1995).
2. Normal Penetration test (EUROSEISTEST Project Reports, 1993-1995).
3. Cone penetration test (EUROSEISRISK Project Reports, 2002 – 2005).

Data are available in ascii format in:
http://euroseisdb.civil.auth.gr/uploads/station/geotechnical/24/Site_characterization_geotechnical_W01.txt

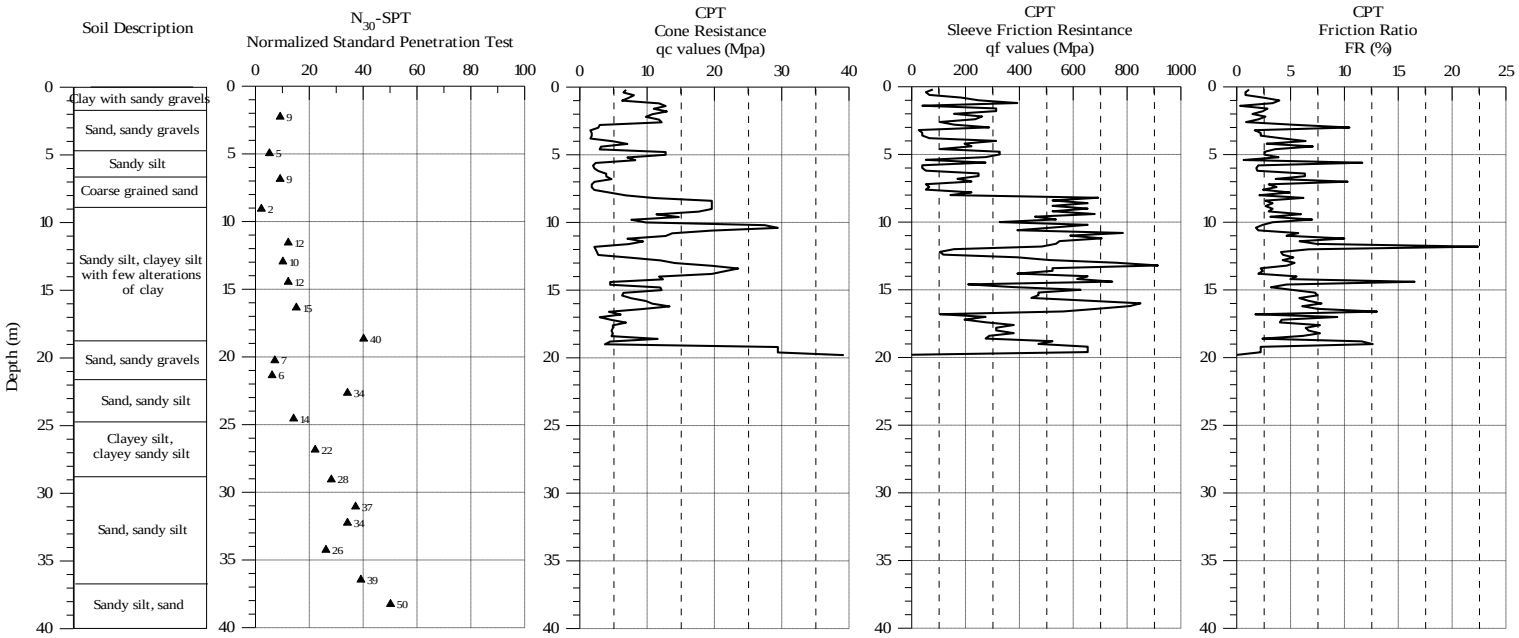

Figure 3: Geotechnical data at station W01

5. GEOPHYSICAL SITE CHARACTERIZATION

Geophysical site characterization data for station W01 include:

1. Shear wave velocity values (Vs) / determined by array SPAC microtremor measurements (Manakou et al., 2010)

Data are available in ascii format in:
http://euroseisdb.civil.auth.gr/uploads/station/geophysical/24/Site_characterization_geophysical_W01.txt

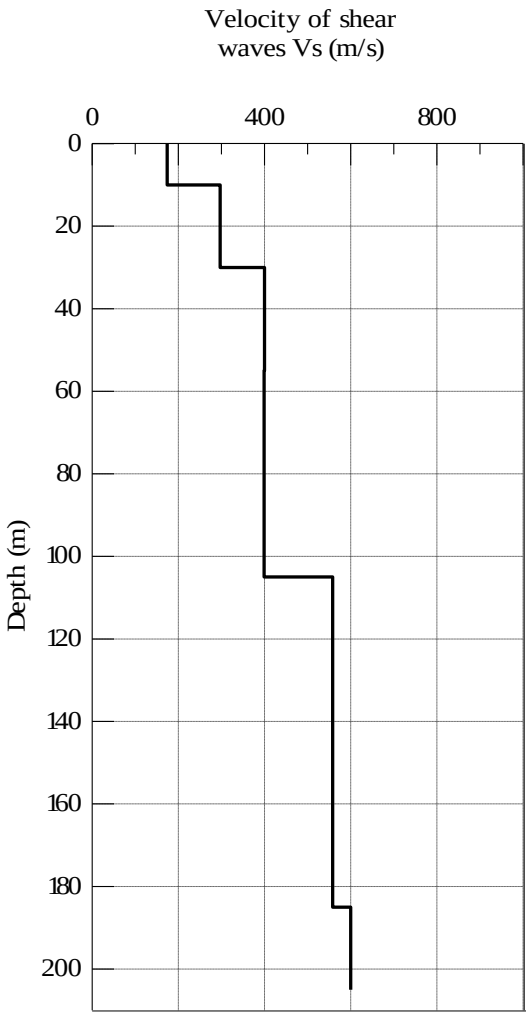

Figure 4: Shear wave velocity values at station W01

6. SITE RESPONSE

Site response data for station W01 include:

1. Horizontal-to-vertical spectral ratios (HVSR) / applied on array SPAC microtremor measurements (Manakou et al., 2010)

Data are available in ascii format in:
http://euroseisdb.civil.auth.gr/uploads/station/response/24/Site_response_W01.txt

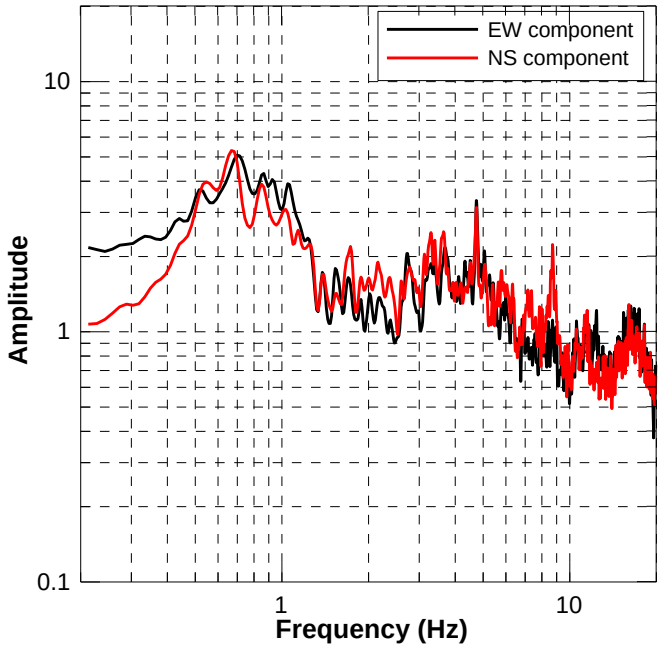

Figure 5: Horizontal-to-Vertical Spectral Ratios (HVSR) for the two horizontal components at station W01. Ratios are based on array SPAC microtremor measurements

7. REFERENCES

EUROSEISTEST Project Reports, 1993–1995. *(Available in PDF upon request)*
EUROSEISRISK Project Reports, 2002–2005. *(Available in PDF upon request)*
IGME, 1978. Geological map of Greece - Scale 1:50.000. Map Sheets of "Thermi" and "Zagliverion".
Manakou M., D. Raptakis, F. J. Chavez-Garcia, P. Apostolidis and K. Pitilakis, 2010. 3D soil structure of the Mygdonian basin for site response analysis. Soil Dynamics and Earthquake Engineering, Vol. 30, pp. 1198-1211.