

## SUMMARY

### Quaternary cover and index boulders in Gelvonai environs /GELVONAI

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The Quaternary sedimentary cover of Gelvonai environs was formed by the glacial activity of the Nemunas glaciation Baltic stage South Lithuanian phase. The deltaic sediments of fluvioglacial mixed grain-size composition are specific, they had formed after the breakthrough of glacial melting waters into the Širvintai–Musninkai ice lake.

After having carried out the petrographic analysis of gravel-pit sediments in Bagdyšiai and Zubeliai locations of Gelvonai environs it was established that the erratic material was brought by glaciers from south-west Finland, the Aland Islands and the northern part of the Central Baltic. More porphyric structure rocks are found in finer (pebbles) fractions, and they are rarer among big boulders.