

## **Abstract**

Vineyard land is one of the types of agricultural land. In addition to environmental problems, they face problems of contamination due to pesticides when applied over a long period of time. In the framework of the bachelor thesis, samples for geochemical analyses were collected from small family winegrowers who have their vineyards as a hobby and their products are mainly for their own use. The analyses were used to measure active and exchangeable soil acidity (pH/H<sub>2</sub>O and pH/KCl), and the samples were also prepared for cation exchange capacity (CEC) and inductively coupled plasma mass spectrometry (ICP MS). The aim of the bachelor thesis was to determine the degree of soil contamination, soil quality and trace element concentrations in selected vineyard soils using geochemical analytical methods. It includes a research paper on the subject for a broader insight and understanding of the management practices on vineyard soils.

**Keywords:** soil, composition, properties