AGH Research Offer

Mobile laboratory for water quality testing

Technical description:

Mobile water quality testing laboratory based on the M-B Sprinter vehicle. A van-type vehicle with a drive on both axles (4x4), with an off-road reducer. Durable, specialized laboratory equipment made of acid-resistant materials (cabinets and drawers, shelves, laboratory fridge, fume extractor, working lighting) - for testing, measuring and transporting samples in conditions compliant with the requirements. Laboratory equipment: monitoring submersible pump with hoses, aggregate, controller; portable battery pump set; field peristaltic pump with filtration apparatus; samplers for water sampling and others. The mobile laboratory is used to collect samples of groundwater and surface water, to measure physicochemical parameters of water (pH, Eh, PEW, temperature, O_2), to determine the values of unstable components in the field and to transport samples to the stationary laboratory under appropriate conditions. Our equipment allows us to collect samples of clean and polluted waters.

Trade name: Mobile laboratory for water quality testing

More details: /equipment/mobilne-laboratorium-badan-jakosci-wod/

Access type: External

Type of accreditation / certificate: Accreditation

Contact person: Kmiecik Ewa

Contact person url: https://skos.agh.edu.pl/osoba/ewa-kmiecik-5388.html

Responsible body: Department of Hydrogeology and Engineering Geology

Group / laboratory / team: Hydrogeochemical Laboratory

Last update date: May 27, 2023, 3:20 p.m.

Year of commissioning: 2010

IDUB research areas:

(PRA 3) Water-energy-climate: interdisciplinary approach to sustainable development

Research capabilities:

Cleaning and measurement pumping of groundwater from boreholes from a depth not exceeding 90 m; determination of unstable water quality parameters in the field; groundwater sampling; sampling of surface waters from watercourses and surface reservoirs (from land); transport of samples in refrigeration conditions.

Measurement capabilities:

Dependent on the type and model of the measuring equipment used. Portable instruments are used for field measurements, e.g. for measurements of conductivity, pH, Eh, oxygen content, temperature, as well as for photometric analysis.

Conditions for providing infrastructure:

As part of contracts and orders after prior approval by the Head of Laboratory. Tests are performed only by authorized personnel of the Laboratory.