Mine Water Research Services

Industrial environments and recycling (TUK) unit focuses on developing geoscientific approaches to environmental issues in mining. The research serves the needs of the mining and minerals industries, scientists and policy- makers, and it also benefits the society through the decreased environmental footprint of mining. The research group networks with universities and research organizations around the world as well as clients in private and public sectors.

Mine water management

- Surface and groundwater monitoring method development
- Geological, hydrogeochemical, transport and flow modelling
- Groundwater balance analyses

Water issues in mineral processing

- Water use optimization and recirculation
- Water balance, footprint and quality

Water treatment

- Mine water characterization and quality investigation
- Investigation on passive treatment methods
- Modular, active, water treatment methods and piloting using transportable pilot unit

Environmental safety

- Transport and fate of groundwater and substances in sediments and bedrock
- Prediction of drainage quality from mining wastes

Geological Survey of Finland

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