

A large, black silhouette of a windmill stands against a clear sky. The sun is positioned behind the windmill's cap, creating a bright glow and casting the structure into shadow. The windmill has a tall, lattice-like tower and a circular cap with many blades. The background shows some trees and a clear horizon line.

GHD Hydrogeology- Groundwater Services

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

“While groundwater is often hidden, it cannot be ignored.”

Robert Virtue, Hydrogeology Service Line Leader Asia Pacific

Groundwater can be a lifesaving resource in times of drought, a cost-effective way to store seasonal water supplies, a critical source for drinking, irrigation and environmental flows.., On the other hand, it can also be a significant hindrance to mining and construction projects, and a pathway for contaminants

Identifying needs

Our clients require reliable and sustainable water supplies, predictable inflow rates and groundwater management costs, and confidence that the risks of impacts of their projects on other groundwater users and groundwater-dependent ecosystems are minimised.

Services

GHD's hydrogeologists provide comprehensive groundwater services for mining, civil, agriculture, water supply and wastewater management. These services include:

- Groundwater exploration, data acquisition, resource assessment, development and management
- Aquifer Storage and Recovery (ASR), Managed Aquifer Recharge (MAR) or water banking.
- Groundwater contamination assessment remediation and management
- Integrated surface water and groundwater flow and contaminant transport modelling
- Borefield design and installation
- Dewatering investigations and groundwater management for excavations, mines and tunnels
- Dam seepage assessment
- Soil salinity
- Acid and Metalliferous Drainage (AMD) or Acid Rock Drainage (ARD) assessment
- Acid sulfate soils
- Down-hole geophysics and camera investigations
- Groundwater impact studies.

Our hydrogeology services are delivered by integrated connected network of professionals around the world, providing local knowledge backed up by global experience. Our team members range from cost-effective but experienced field personnel to hydrogeologists and modellers from related disciplines with more than 30 years of experience.

Benefits

GHD can provide you with a one-stop-shop, linking the hydrogeological components of water supply development, excavation and mine dewatering, impact assessment or contamination management, with your requirements for environmental approvals, licencing, detailed design and construction.

Groundwater management draws upon a range of auxiliary services, including process engineering, geotechnical services, civil engineering, hydrology, aquatic ecosystem and general environmental services and stakeholder engagement. As a multidisciplinary team, we can minimise the time and cost to you by integrating each of these project elements.

We are leaders in the application of new assessment and management technologies. We remain deliberately unaffiliated with specific equipment or technology providers, enabling us to independently assess and recommend tools tailored to your needs.

What to expect

GHD's hydrogeologists and groundwater engineers will work with you to simply develop practical solutions to your needs. We can help you manage potential environmental impacts and support you in seeking community acceptance and regulatory approval for your project.

We will provide you with a single local or project discipline-based contact, who will assemble the team to meet your needs and to save you valuable time.

To learn more about how GHD's hydrogeologists can help you and to get a local hydrogeological contact or specialist, go to:

<http://www.ghd.com/global/services/hydrogeology/>

