

# Geophysical Services in Mining



- **Exploration:** Mapping of vein and disseminated targets...
- **Environmental:** Acid rock drainage mapping; pond liner leak detection...
- **Operations:** Heap characterization and secondary recovery monitoring...
- **Reclamation:** Corrective action monitoring; abandoned mine land mapping...

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Tucson, AZ • Richland, WA



# MINING GEOPHYSICS

**HYDROGEOPHYSICS, INC. HGI** is an innovative, solutions oriented geophysical consulting, services provider, and research organization headquartered in Tucson, AZ with offices in Richland WA. HGI has become a recognized leader in the application of geophysical methods to the characterization and monitoring of environmental waste sites that include solid waste landfills, contaminated disposal areas, and subsurface contaminant plumes. Additionally, HGI has worked extensively on water resource problems, geotechnical applications, geothermal opportunities, and oil and gas production.

The mining industry presents many unique opportunities for geophysical applications that cannot be solved by ordinary characterization or monitoring methods. These applications can be grouped into the broad categories of exploration, operations, environmental, and reclamation.

## EXPLORATION

- mineral resource mapping of vein and disseminated targets
- precious and base metals
- structural mapping
- geologic interpretation
- in-situ recovery monitoring of uranium

## OPERATIONS

- heap characterization
- secondary recovery monitoring
- liner integrity
- pond leak location

## ENVIRONMENTAL

- Acid rock drainage mapping
- Contaminant source identification
- Recharge sources
- Corrective action monitoring
- Grout curtain installation monitoring
- Cap integrity monitoring

## RECLAMATION

- Abandoned mine land mapping
- Acid rock drainage mapping
- Corrective action monitoring
- Cap integrity monitoring

HGI provides innovative solutions and top-quality results that push the scientific envelope. Our proven concepts have been published in many different forums including invited talks, conference proceedings, and peer-reviewed journals. We invite you to peruse the most recent set of literature to see first hand how HGI is at the forefront of the geophysical industry.

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