



## Ground Penetrating Radar

Hawaii Geophysical Services, LLC offers a wide range of Ground Penetrating Radar (GPR) services in fields such as general construction, geotechnical, environmental services, and archaeological investigations. Since its inception in 2002, HGS has employed GPR for subsurface surveys that include finding the locations of USTs (underground storage tanks) at over 80 gas stations on Oahu and neighboring Hawaiian Islands, as well as locating over 2 miles of a buried Army communication cables under a dirt road. With much success in this application, HGS expanded GPR services and worked on the pre-construction underground clearance of cell towers on all Hawaiian Islands. The GPR are frequently used to clear the area for environment borings, and have been used to located underground voids pre construction as well as under existing structures. HGS employs full time Geophysical Technicians who operate the GPRs and analyze data collected. We are able to provide in-depth Geophysical Findings Reports to our customers.

**HGS operates USRADAR SBR Scan Ground Penetrating Radars. We utilize a variety of antennas in the following applications:**

- **Utility detection** – metal pipes, PVC, fiber optic lines, manholes
- **Structural**-Rebar in concrete, load beams in floors
- **Geotechnical** – infrastructure, void detection, asphalt layer thickness, concrete stability
- **Geologic interpretation** - stratigraphy, hydrologic investigation, karst caves, bedrock, mining
- **Archaeological investigations** – subsurface structures, ancient living surface topography
- **Law Enforcement** – forensic investigation, tunnel mapping
- **Environmental studies** – bore hole sites, landfill, groundwater flow, sink holes, subsidence

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