WE GET THE BIG PICTURE

HGI is an innovative, solution-oriented geophysical consulting company and service provider to the environmental, engineering, ground water, mining, oil & gas, and natural resource exploration industries. We specialize in the application of 3D geophysical methods for time lapse subsurface characterization and monitoring of fluid flow through geologic materials.

Innovation, quality of work, detailed focus, and flexibility are hallmarks of HGI’s service. Our ability to create custom-fit solutions based on individual client needs makes us an industry leader in the field of geophysics and geosciences.

For more information on HGI’s products and services, please visit us at hgiworld.com or call us at:
1-866-447-3215

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509-946-7111

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Tucson, Arizona
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713-966-6169

www.hgiworld.com

Cover Monitoring

For more information [HeapSolutions.com]

Subsurface Imaging

Innovative Solutions

A Broader Understanding

Waste piles undergo natural and annual cycles that affect internal temperature, moisture, and vapor movement. When combined with external precipitation, monitoring covers to understand performance can be challenging unless a holistic approach is used. Geophysical characterization and monitoring provide information over a broad swath of landscapes, giving perspective to various components affecting cover performance.

Methodologies

Are Your Covers Effective?

Waste piles are common facilities at industrial sites, and if left untreated can pose a severe environmental impact. Many of these facilities contain sulfide-rich minerals that when oxidized generate acid rock drainage. One important mechanism for containment is to eliminate the influence of meteoric water by designing a cover system that significantly reduces the vertical hydraulic conductivity.

HGI has over 18 years of experience in monitoring the effectiveness of covers and determining weak spots, focused infiltration, thinning regions from erosion and deep percolation. Our investigative techniques can be applied to landfills, tailings, saline-sodic, shale overburden, reclaimed mine lands and pits, industrial waste facilities, coal ash and other similar facilities.

HGI professionals have the skills and experience to support every aspect of your project from concept and design to acquisition and interpretation.

Accurate

Innovative

Performance

The example above shows seasonal changes occurring in the waste and cover. With the exception of a small weak spot, the cover appears to be working properly.