

Project Objective

Geophysical Method Used	Delineating Landfills, Pits, Trenches	Locating UST's, Drums, Pipelines, UXO, and Abandoned Wellheads	Mapping Soil/Groundwater Contaminant Plumes	Resolving Complex Stratigraphy, Mapping Contaminant Pathways and Barriers	Mapping Depth to Bedrock, Regional Geologic Structure, Fault and Fracture Zones	Sinkholes and Cavities	Mapping Leaks in Contaminant Ponds, Landfill Liners/Reservoirs, Inorganic Plumes in Groundwater and the Vadose Zone	Mapping Conductive Fault and Fracture Zones	Salt Water Intrusion	Monitoring Groundwater Contaminant Plume Movement with Depositions, and Subsurface Stratigraphy	Geologic Mapping, Depth to Groundwater, Buried Channel and Soil Stratigraphy, Groundwater Tables, and Subsurface Voids	Locating and Mapping Nonmetallic Pipelines and Debris, Organic Contaminant Plumes, Previously Excavated and Backfilled Areas	Delineating Oil Production Sumps and Mudpits/Acid Mine Drainage	Proposed Hazardous Waste/Landfill Siting	Evaluating Mine Safety Hazards	Conducting Forensic and Archeological Surveys	Conducting Utility Clearance/Identifying Near-Surface Hazards	Evaluating Asphalt/Cont. Road Beds & Bridge Decks	Evaluating Infrastructure for Concrete Degradation, Rebar, Sub-Bottom Profiling, Mapping Stratigraphy Beneath Water, Mapping Depth to the Bottom of a River/Lake/Sea Bed	High Resolution, Near Surface Profiling in Conductive or Saturated Soils, Locating Deep Pipelines	Obtain Seismic Velocities, Rock/Soil Elastic Properties, and Riprapability Information
Electromagnetics (EM)	•	•	•		•		•	•	•	•	•		•	•	•	•				•	
Magnetics	•	•									•			•	•	•					
Gravity / Microgravity				•	•									•	•						
Spontaneous Potential (SP)	•		•		•	•							•								
Electrical Resistivity	•		•	•	•	•	•	•	•	•	•		•	•	•	•					
Seismic Reflection				•	•	•				•				•	•					•	
Seismic Refraction	•			•	•	•				•				•							•
Ground Penetrating Radar (GPR)	•	•	•	•		•					•	•			•	•	•	•	•		
SASW / MASW					•				•												•
Downhole / Crosshole			•	•																	•
Airborne Survey	•	•			•						•			•							
Marine Survey		•			•													•			•