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Electrical resistivity and induced-polarization imaging for groundwater exploration

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Electrical methods of geophysics are widely used in addressing a variety of hydrologic problems including groundwater exploration, groundwater quality and contamination studies. This study presents the integration of electrical resistivity techniques with time-domain induced polarization (IP) imaging for groundwater exploration in a sedimentary terrain, southwestern Nigeria. The subsurface was characterized to identify the lithologic units and delineate the underlying aquifer.

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