

## Hydrogeological and geoelectrical investigations for the delineation of shallow aquifer geometry and interface between fresh and saline aquifers in Neill Island, Andaman-Nicobar islands, India

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The results of 25 Vertical Electrical Soundings together with the hydrogeological data from nearby existing well lithology are used to delineate the shallow aquifer geometry and interface between fresh and saline aquifers in Neill island of Andaman-Nicobar islands. An interpretative fence diagram obtained across the study area, clearly depicted the occurrence of fresh water aquifer over the saline water aquifer. This section displays various litho-units down to conductive stratum saturated with saline water. Any well penetrating beyond this interface depth will contaminate the fresh water aquifer as saline water aquifer.

Keywords: Resistivity sounding; Schlumberger; configuration; Aquifer geometry; litho units