

BACKGROUND

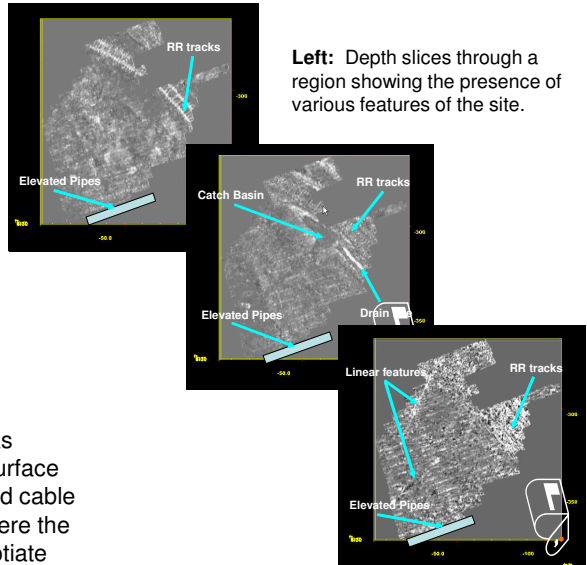
A SUE 'Level B' survey was requested over selected areas in proximity to a power plant in North Carolina. Construction of new facilities were planned that included excavations for new footings. The main objective of this survey was to confirm the location of underground utilities known to exist at the site. It was also suspected by the client that subsurface utilities were either mis-located on existing maps, or omitted entirely.

SCOPE & RESULTS

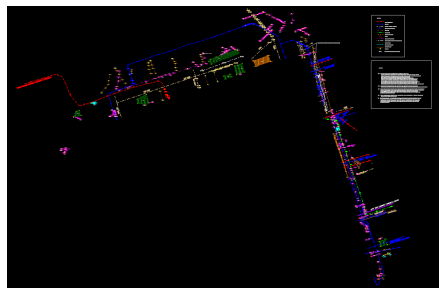
GPR signal penetration of 5+ feet was achieved, despite much of the near surface soil being a reddish silty clay. Pipe and cable locators were used in many areas where the TerraVision II® system could not negotiate obstacles. Over 120 numerous and varied features were identified including buried utilities, buried train tracks, and old concrete structures.

METHODOLOGY

The 14-channel UIT TerraVision II® system and standard pipe and cable locators were employed at the project site. GPS and GPR data were collected together and recorded with the UIT DAS system. GPR data was interpreted using SPADE® proprietary software. GPR and pipe and cable locator data were mapped separately and then transferred to a common CAD for delivery.



Left: Depth slices through a region showing the presence of various features of the site.



Above: CAD map of all utilities found with pipe and cable locators and TerraVisionII®