

BACKGROUND

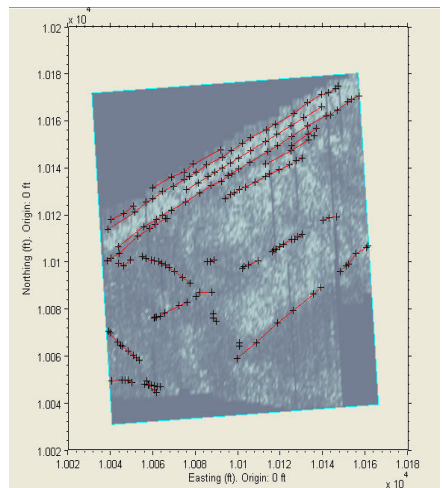
A large consulting company requested a SUE 'Level B' survey of areas around an existing power plant in North Carolina. The geophysical survey was performed prior to construction of a new electric power generating station. The main objective was to confirm the location of underground utilities known to exist, as well as either confirm or deny the existence of utilities that were either mis-located or completely omitted on existing maps.

SCOPE & RESULTS

In general, the GPR data collected at the site was of very good quality. Signal penetration depth was 9.0 feet or greater throughout the area. Approximately 30 distinct targets were tabulated, including apparent subsurface utilities that corresponded with those on available maps, as well as linear targets not shown on maps, and areas of dipping reflectors of probable geologic origin.

METHODOLOGY

The UIT 14-channel TerraVision II® system was employed at the project site. GPS and GPR data were collected together and recorded with the DAS system, the data was later interpreted using proprietary software – SPADE®, and XYZ locations of buried features were transferred to a CAD map.



Above: Features and picks identified and overlain on GPR data at a slice depth of 1.5 feet.