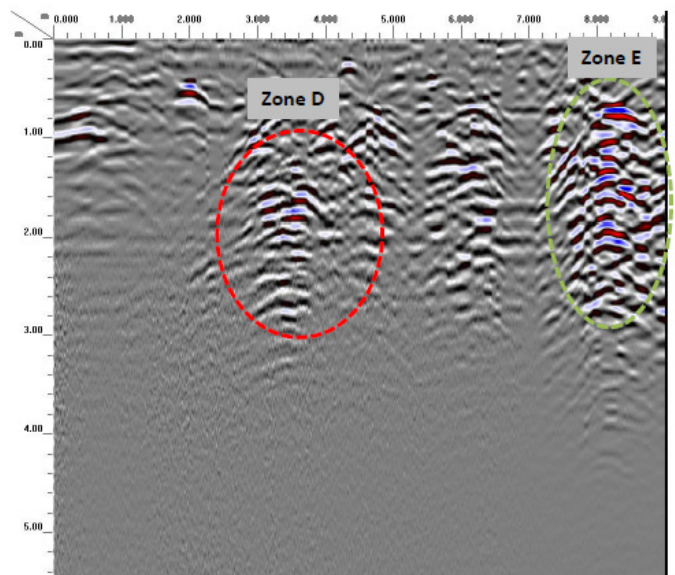
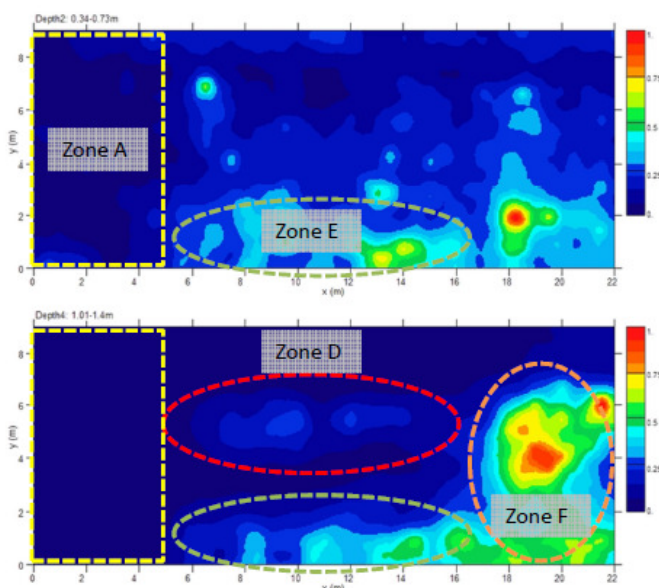


GPR SCANNING OF LEERDAM BASTION AT CASTLE OF GOOD HOPE

The Leerdam Bastion of the Castle of Good Hope in Cape Town was investigated with Ground Penetrating Radar (GPR) to assist an investigation into a prominent bulge observed on the outer wall. The objective of the GPR investigation was to map the presence of possible voids and delamination of the outer stone skin from the stone wall.



A 400MHz antenna was employed on a 1m grid on the outside of the wall to obtain high-resolution images into the stone wall. Data was processed to produce depth slices of reflections at various depths



STRONG REFLECTIONS OBSERVED INDICATING ANOMALOUS GROUND CONDITIONS!

The GPR method and results could be used to identify various anomalous zones for further investigation as can be observed on the processed GPR sections as well as by producing depth slices which represent depth into the stone wall. The high-resolution capability of the GPR technique made it an ideal method to use for these kind of investigations where detailed information is required for shallow depths.