Guided Wave Testing Case Study 4
Inspection of Pipelines at Soil to Air Interface

Earth walls are a common feature in petrochemical plants and tank farms where corrosion is often located at the soil/air interface.

**Job Details**
- 14" light crude line
- Painted pipe surface
- Bitumen coating within the buried section
- Wall section is 2.3m wide

**Main Findings**
- Soil/air interface and buried section inspected
- Medium (Category 2) corrosion identified at the entrance location
- Defect axial position and circumferential orientation highlighted for follow up and repair

**Equipment:**
- Wavemaker® G3
- Inflatable Ring

An overview of the pipe at the earth penetration

Corrosion patch detected at the entrance location.

Clock position

Amplitude (dB)

Distance (m)