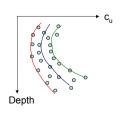




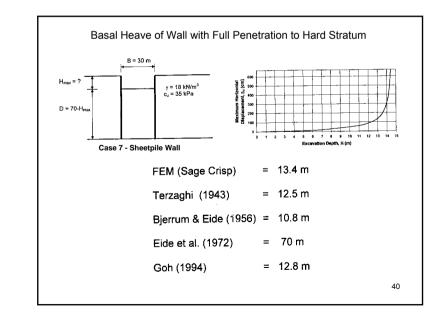
- Field tests: FVT, SPT, CPT, PMT, DMT, BST
- Lab Tests: UU, UC, ICU, CkoTC, CkoTE, CkoDSS
- Others: Fall cone, Torvane, Pocket Penetrometer

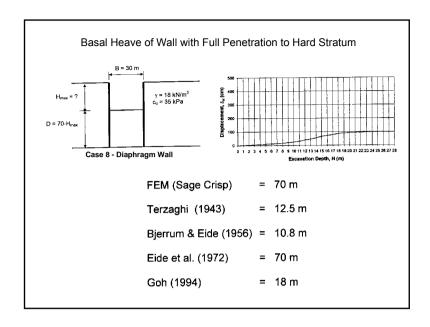
Which strength envelope should we use?

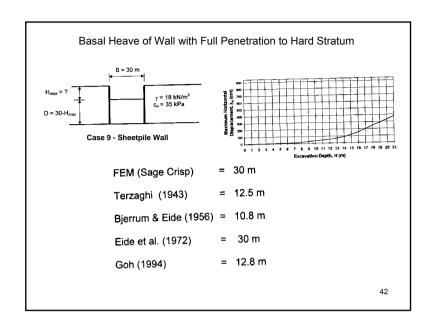
- Most conservative:
- "worst scenario"
- **Best Estimate:** "most probable scenario"
- Most optimistic: "most favourable scenario"

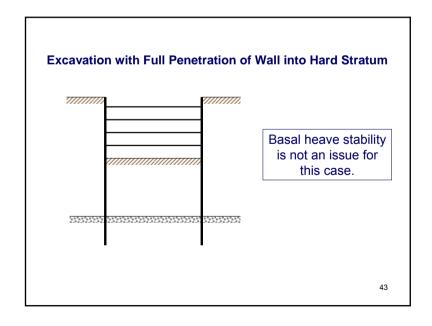


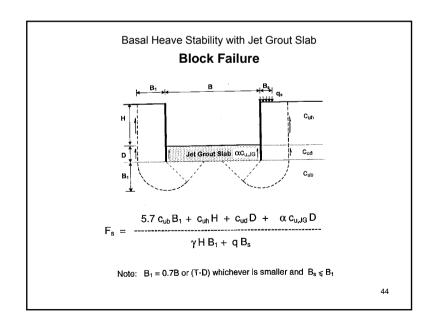
39

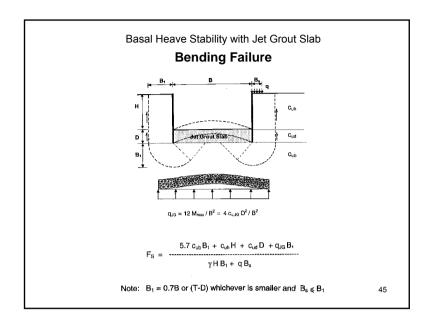


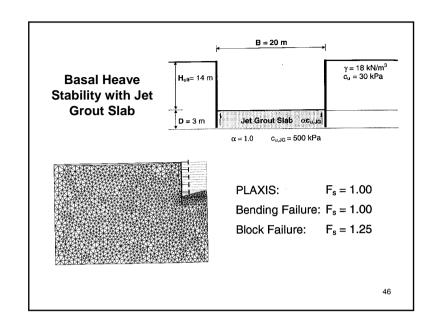


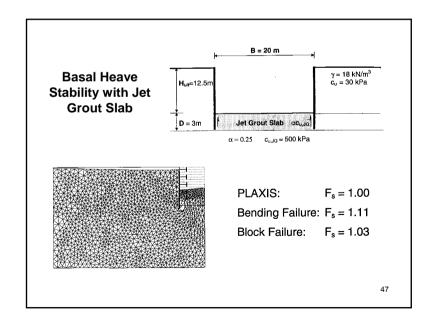


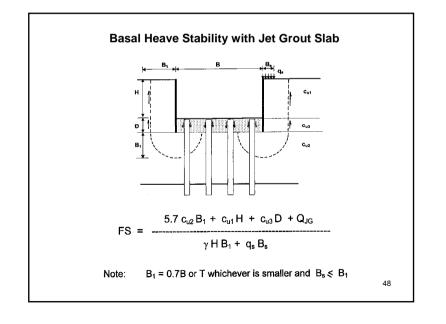


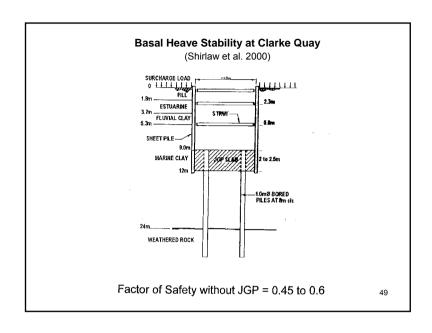


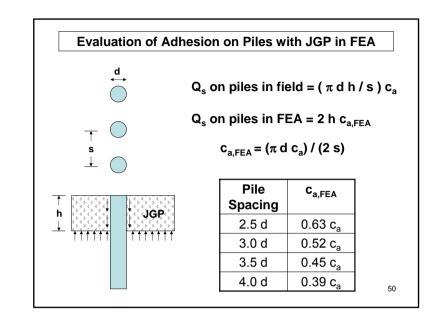


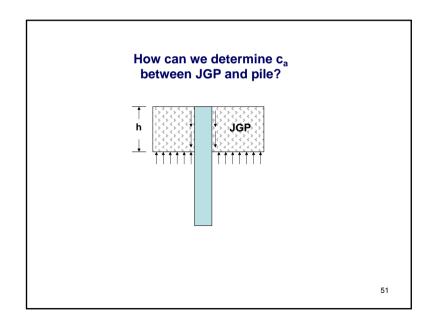




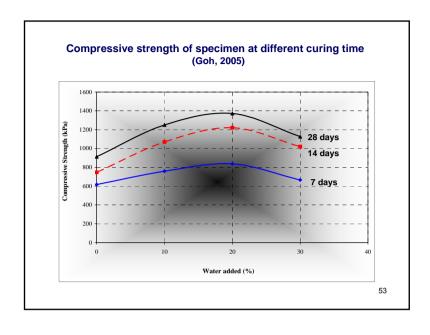


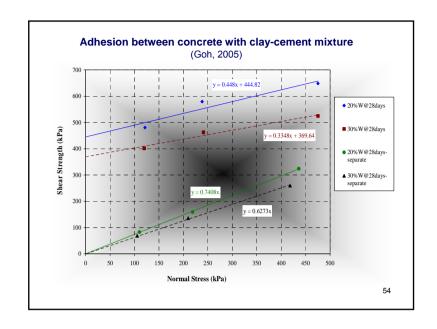


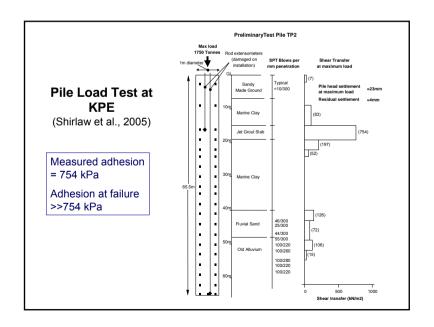


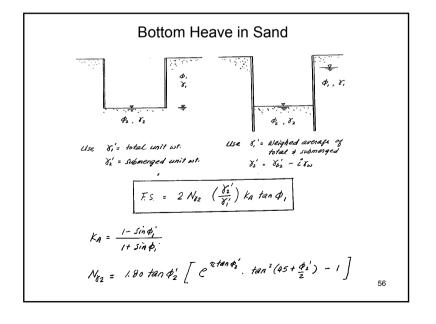




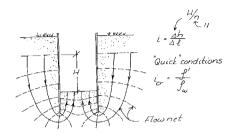








Piping in Sand



Piping is a phenomenon of water rushing up through pipeshaped channels due to upward seepage under high gradient. It can lead to total collapse of the system. Sufficient penetration of sheetpile must be used to lengthen the seepage path and to reduce the hydraulic gradient.

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