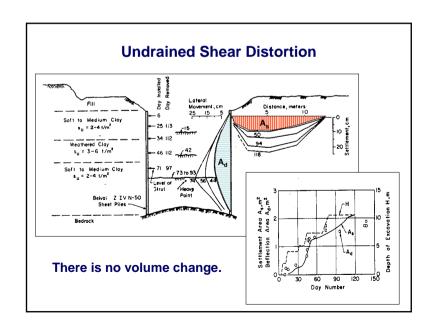
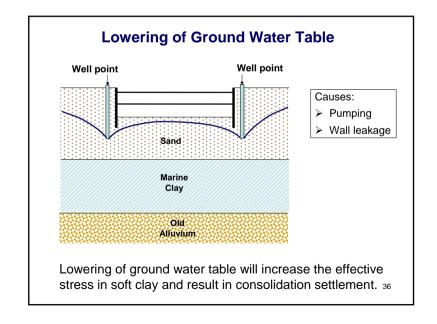


Causes of Ground Settlement

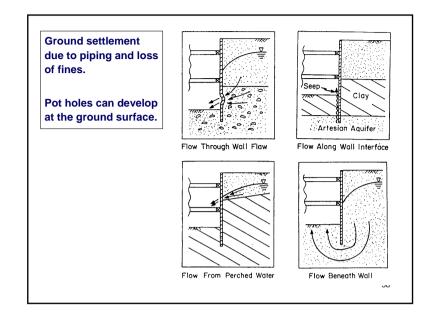
- 1. Undrained shear distortion
- 2. Lowering of ground water table
- 3. Under-drainage
- 4. Seepage through wall without lowering of ground water table
- 5. Leakage through base slab

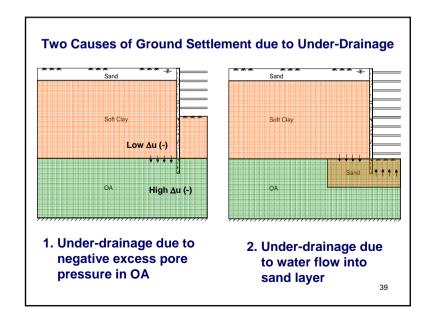
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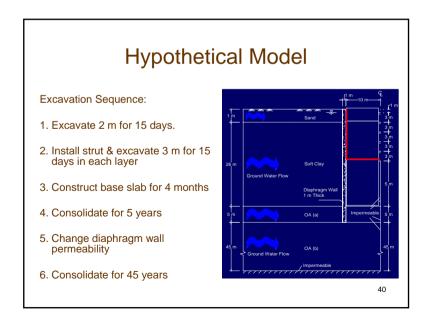


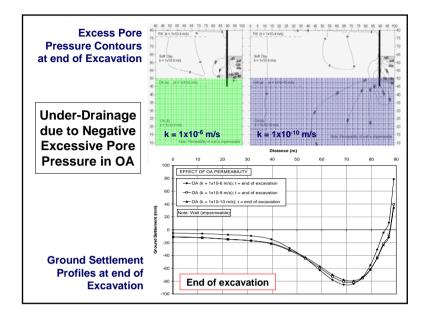


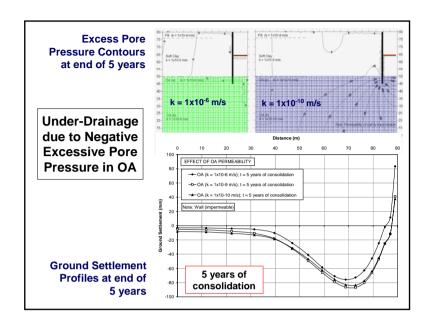


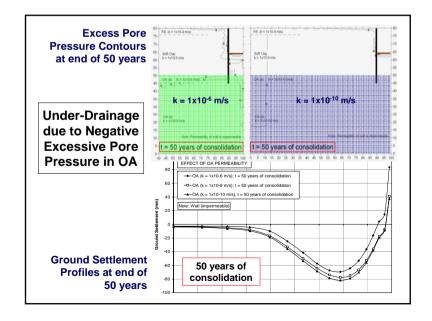


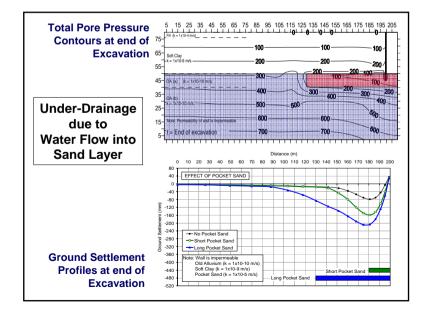


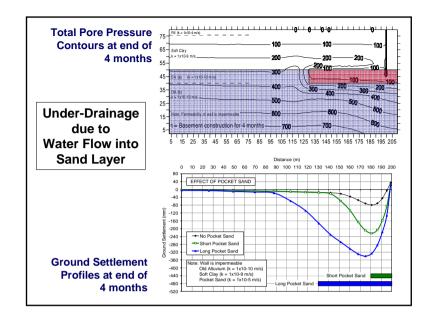


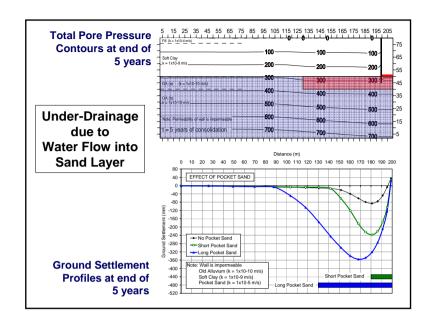


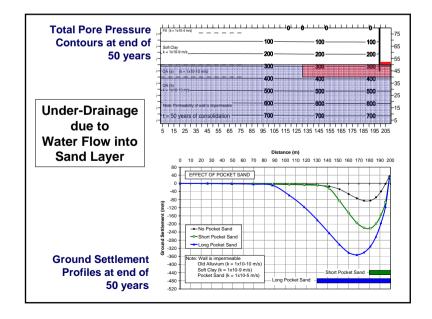


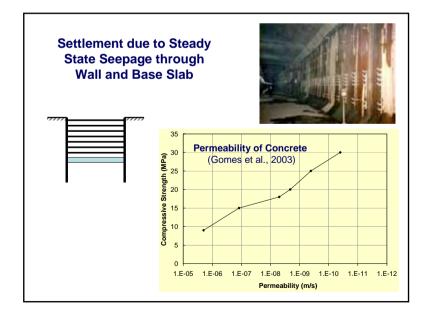


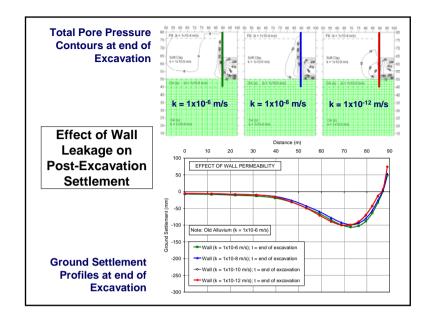


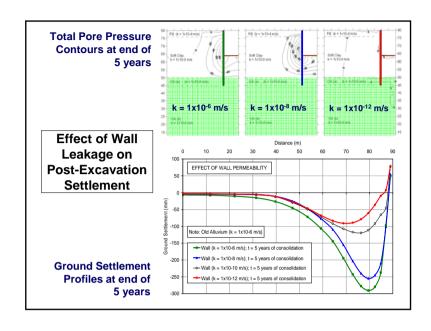


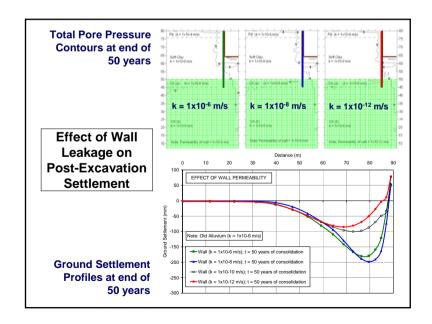


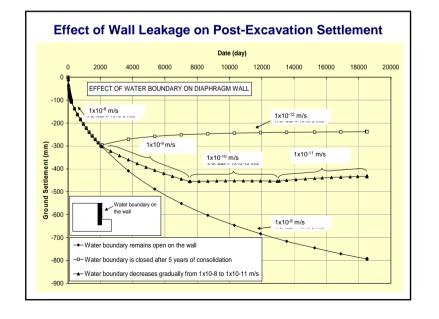


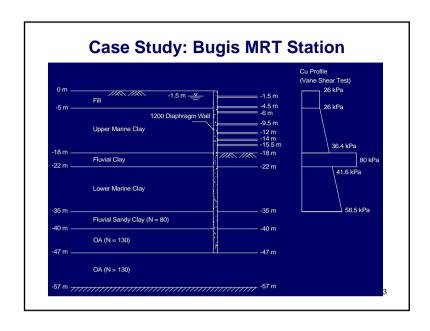


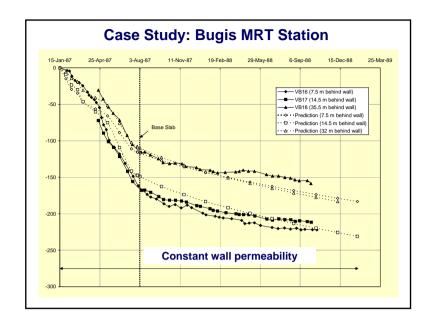


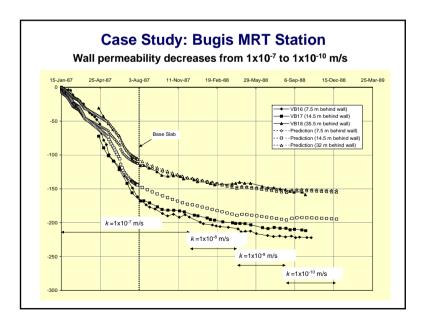












Conclusions on Ground Settlement

- Most ground settlement comes from immediate settlement due to undrained shear distortion.
- Effect of under-drainage on ground settlement due to negative excess pore pressure in Old Alluvium is not significant.
- Effect of under-drainage due to water flow into sand layer is significant.
- Effect of wall leakage on ground settlement is also significant.
- It is important to arrest all observable leakages in the wall and base slab as soon as possible.

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