



Developing confidence in critical state soil mechanics

12. Closing Remarks

Mike Jefferies, PEng

Dr. Dawn Shuttle, PEng

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What was not covered

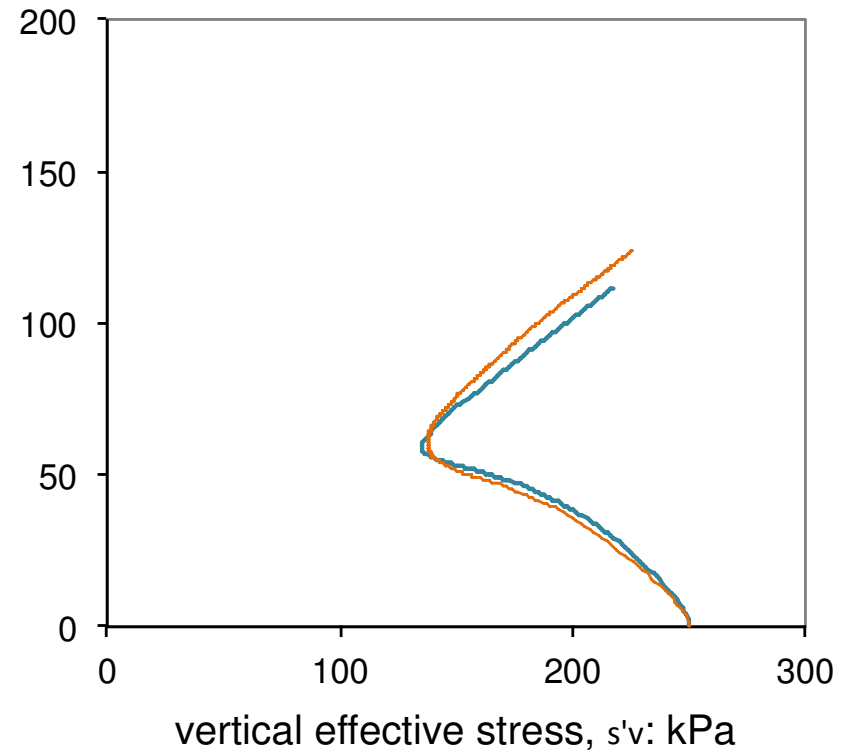
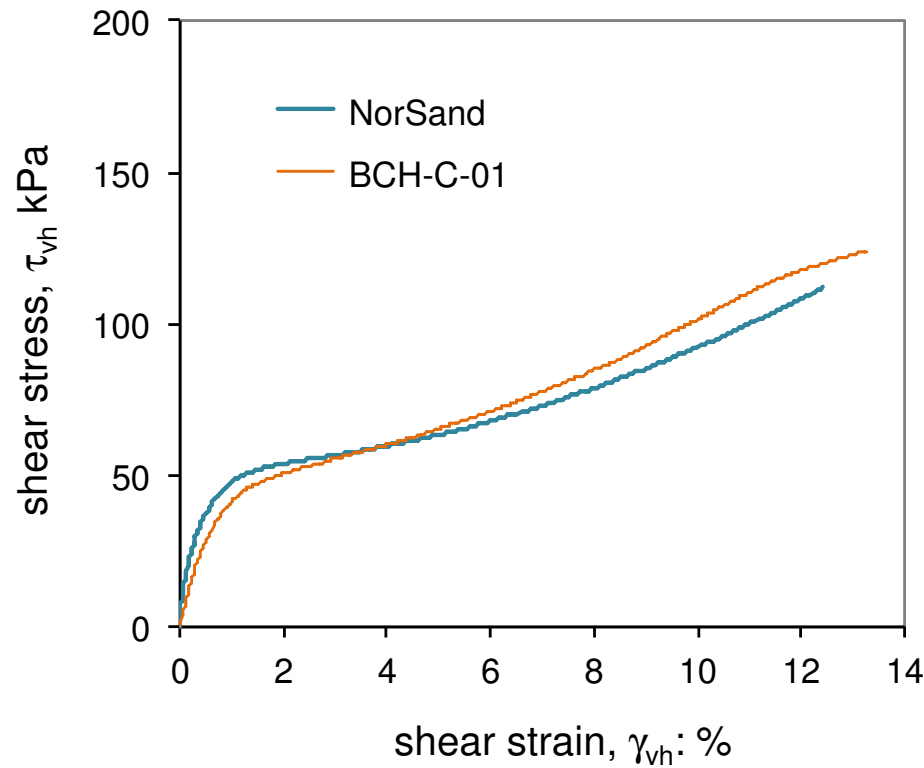
- OCR....
 - It is in the vba code
 - A “dead” zone of elastic only until loadpath meets YS
 - Idea simple, convoluted code
 - Very useful in fitting moist tamped tests

- Anisotropic tests
 - It is in VBA code as K_0
 - But, why bother with txl... loose data

- Plane strain
 - Principle of integration exactly the same
 - But no longer have $\sigma_2 = \sigma_3$, and $\epsilon_2 = \epsilon_3$, , so lots more to calculate
 - J&S (2002) or Book
 - VBA code available; SS more useful

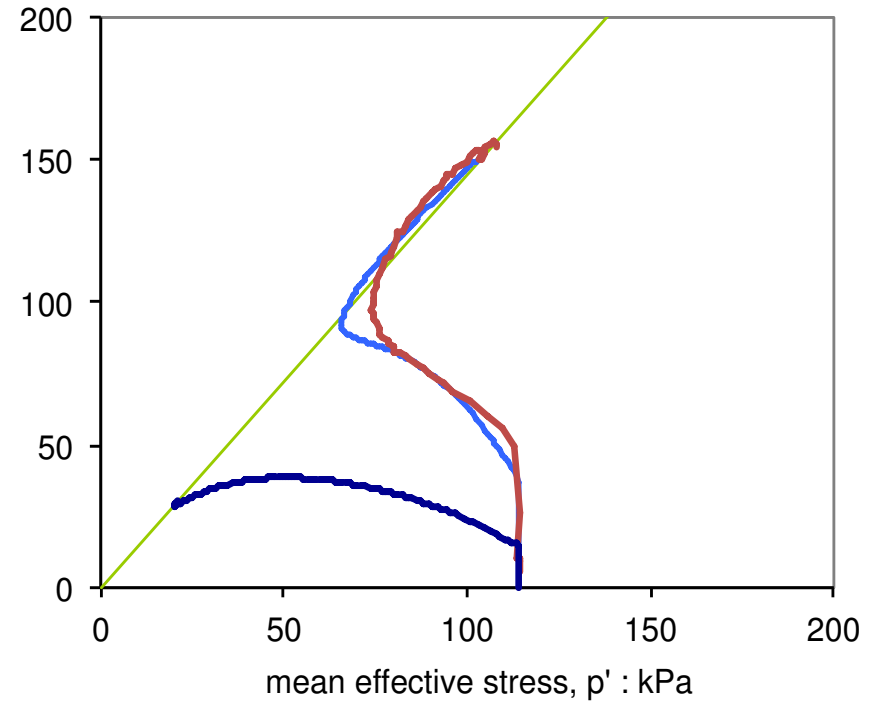
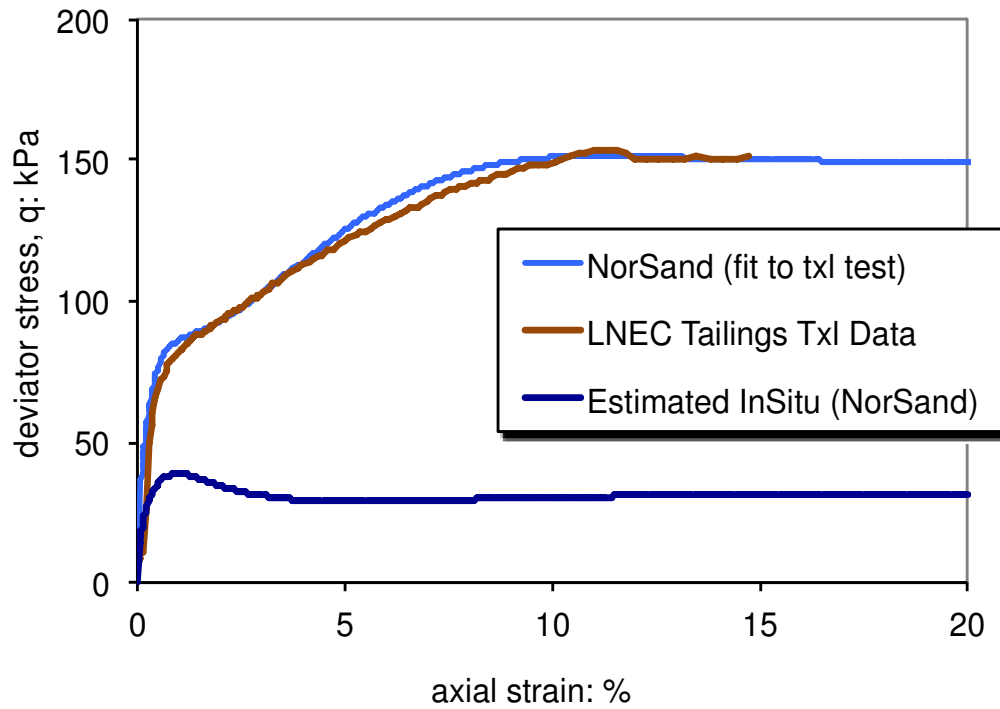


Simple shear (plane strain)... silt



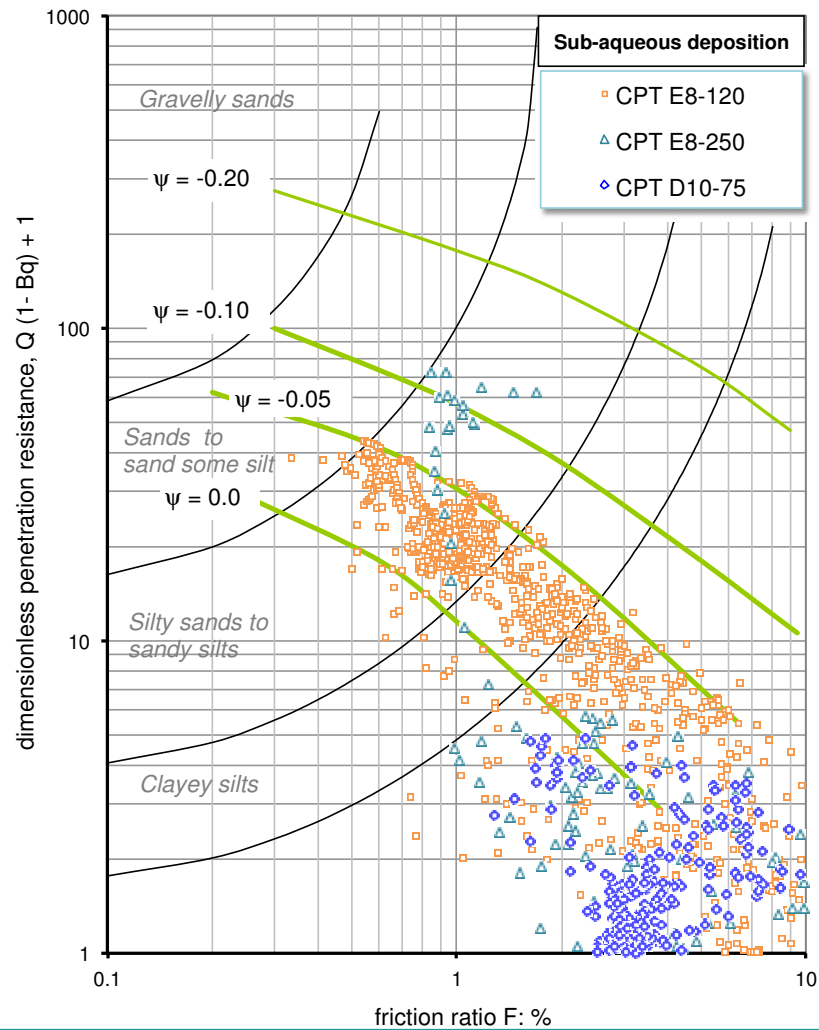


Correcting for sample disturbance





State as a geological principle





Stuff to come

- PPT files
- More notes
- Working xls examples



Learnings

- If looked at in CSSM framework soil properties are “true” and do not change with stress level or void ratio

- Cam Clay was interesting
 - But has an incorrect (and unnecessary) assumption
 - That assumption limits OCC from working for most real soils
 - MMC is an abomination

- NorSand is true expression of CSSM
 - OCC is special case of NorSand
 - Validated over a wide range
 - Variations on NorSand exist



Wrap up

- Hope you have enjoyed the two days... CSSM is an acquired taste
- Bolton did not overstate the significance of CSSM
 - It is the only “good” framework we have for soils
- You may be feeling a bit overwhelmed....
 - We’ll answer questions that occur to you
- **Going forward... PLEASE SHARE !**