

# AGS Laboratories Working Group

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# AGS Laboratories WG

- See our Strategic Plan statements on the website
- We are the only group in the UK representing the Geotechnical Industry on all aspects of Laboratory Testing
- A voice and forum for all Geotechnical and Geo-environmental testing laboratories in the UK

# AGS Laboratories Group

- **Permanent objectives**
- Provide a forum for discussion of commercial issues.
- Provide a forum for discussion of issues affecting the testing sector of the ground industry (e.g. Health and Safety, accreditation, training)
- Facilitate co-ordination of industry views and comments on new legislation, regulations and standards. (e.g. current work in CEN/TC 341)
- Support external accreditation.

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# Our work

## Geotechnical Laboratory Standards:

- UK input into CEN/ISO standards on Geotechnical Laboratory testing
- Parts 1 (water content) and 2 (bulk density) Published **31/12/2014**, BS EN ISO 17892-1 and BS EN ISO 17892-2 Part 3 (Density of Solid Particles) published **15/12/2015** BS EN ISO 17892-3
- Part 4 (Particle Size Distribution) **published 1/11/2016** BS EN ISO 17892-4.
- Parts 5 (Incremental oedometer) and Part 6 (Fall cone) **published 29/03/2017** BS EN ISO 17892-5 and BS EN ISO 17892-6
- Part 7: Unconfined compression tests, Part 8: Unconsolidated undrained triaxial test and Part 9: Consolidated triaxial compression tests. **Enquiry held!!** Comment resolution underway then Formal Vote
- Parts 10 and 11 relating to shearbox/ring shear and permeability testing to come. ENQUIRY
- Part 12 (Determination of liquid and plastic limits). Enquiry closed 23/03/16

# Our work

## Geotechnical Laboratory Standards:

Input into future of BS1377 Parts 1-8 – major changes needed as a result of CEN/ISO standards on Geotechnical Laboratory testing – what is the future?  
Reviewing!!

Consultation will come

- **Revision to Part 3 (Chemical and electro-chemical tests) underway**

# Who is represented

- Your company not attending?
- WHY NOT?

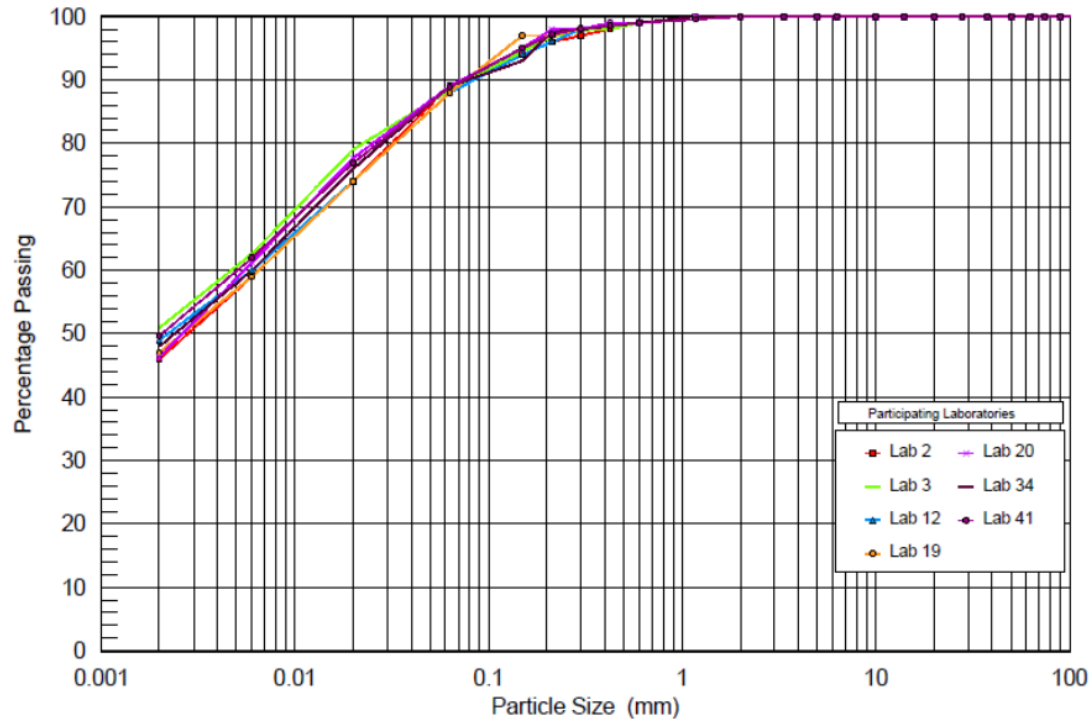
# What should we be doing

- Ensuring quality throughout the industry!

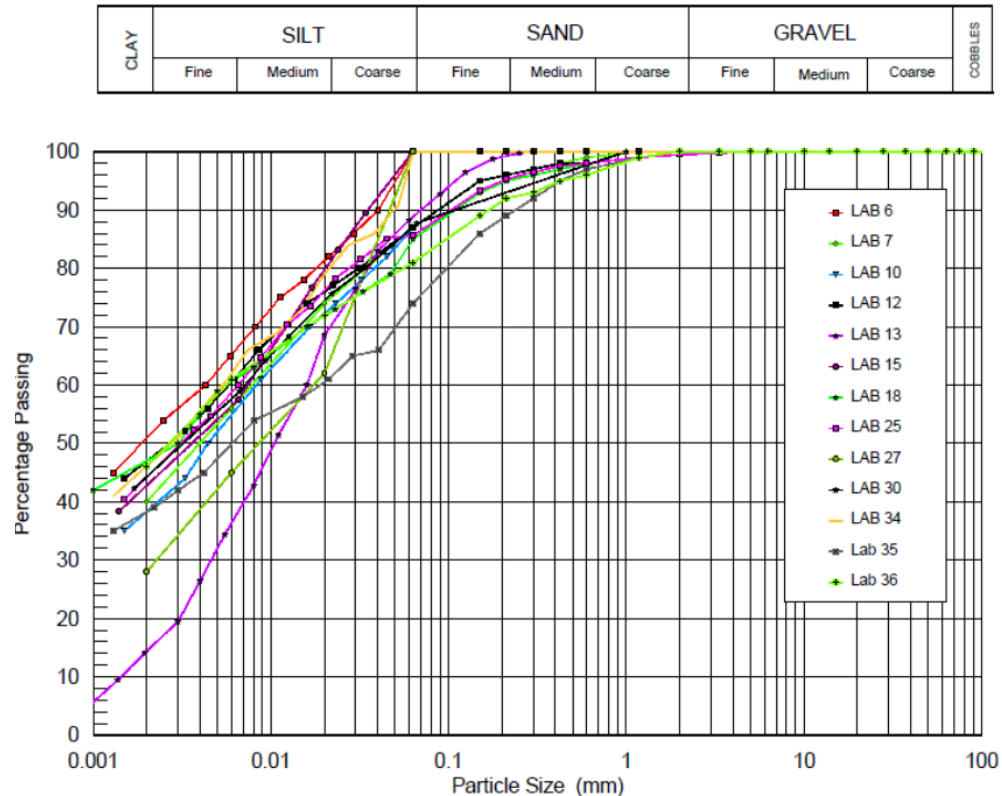


# Proficiency testing - pipette

CLAY	SILT			SAND			GRAVEL			COBBLES
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	



# Proficiency testing - hydrometer

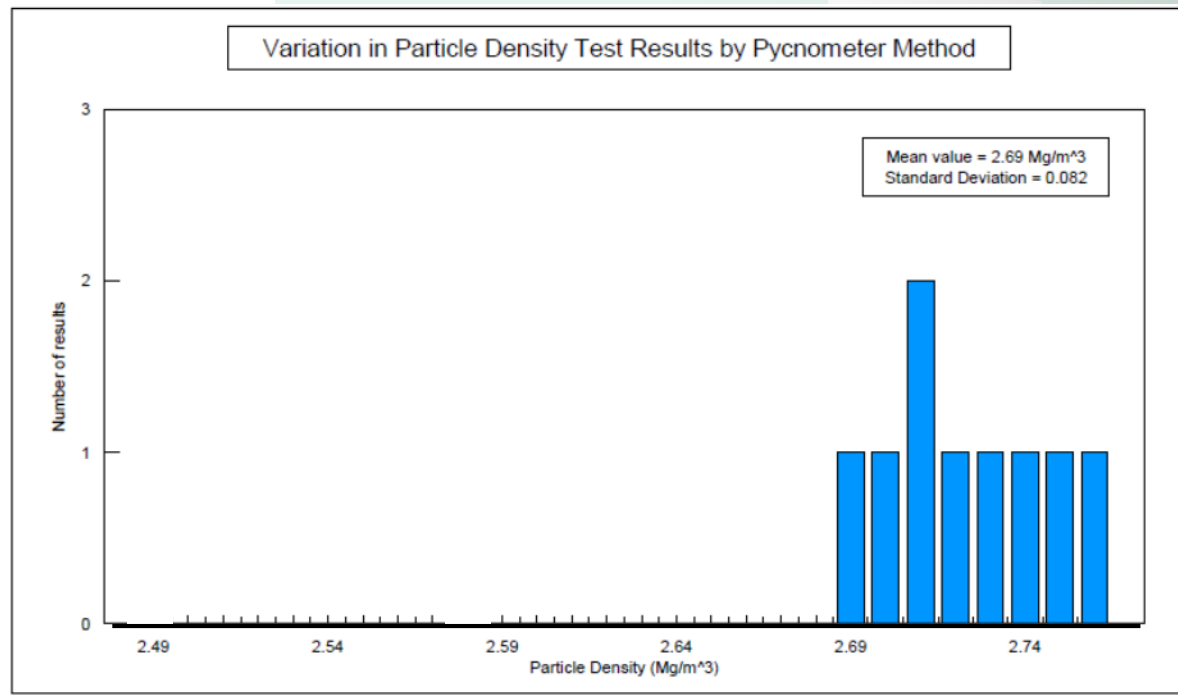


Please Note: LAB 13 used a non-BS1377 procedural technique. The data recorded is re-produced here and in the summary table but not used in the statistical analysis.

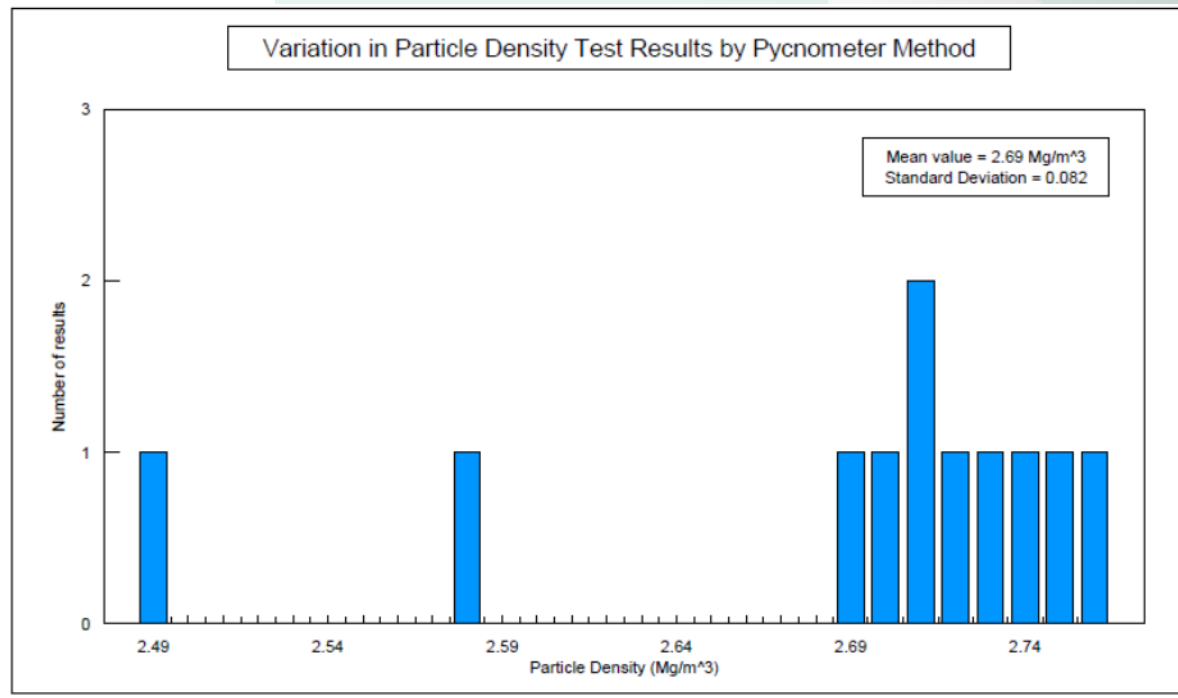
# Proficiency testing

- Why perpetuate poorer test methods?
- How would you know?

# Proficiency testing

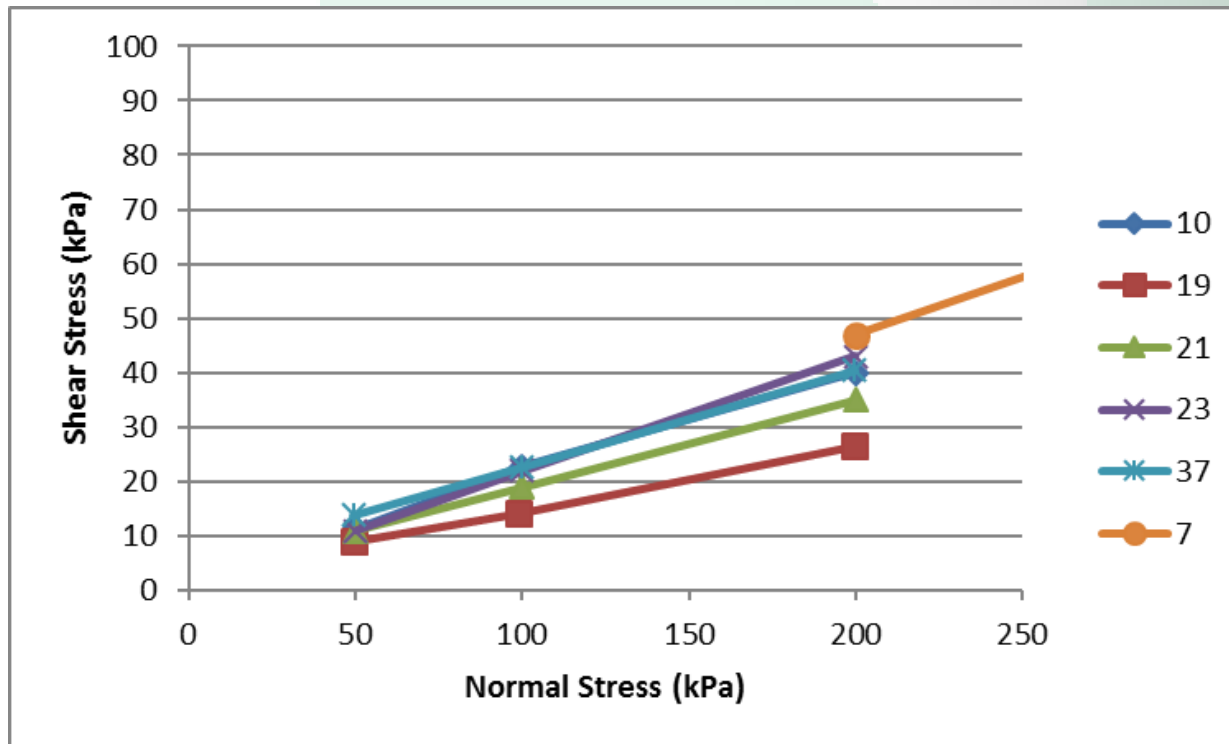


# Proficiency testing



How would you know

# Proficiency testing - ring shear



How would you know

# Proficiency testing

- Do we need it???
- What do you think!!!

# Oh and by the way

## Reviews launching on 15th April 2017

- EN ISO 22282:2012: Geotechnical investigation and testing – Geohydraulic testing –

- P

- P

- P

- P

- P

- P

**Don't leave it to OTHERS**

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## Revi

- IS

- Part 1: Electrical cone and piezocone penetration test

- Part 4: Ménard pressuremeter test

- Part 5: Flexible dilatometer test

- Part 7: Borehole jack test



# AGS Laboratories WG

Finally  
Thanks to all of the Working Group  
and  
Thank You for listening