



CONCRETE TESTING CTAC ADHERENCE COLLABORATION®

Aaron Kjolhede
Regional Services Manager



ConcreteState

JT Mesite
Program Manager



**COLORADO READY MIXED
CONCRETE ASSOCIATION**

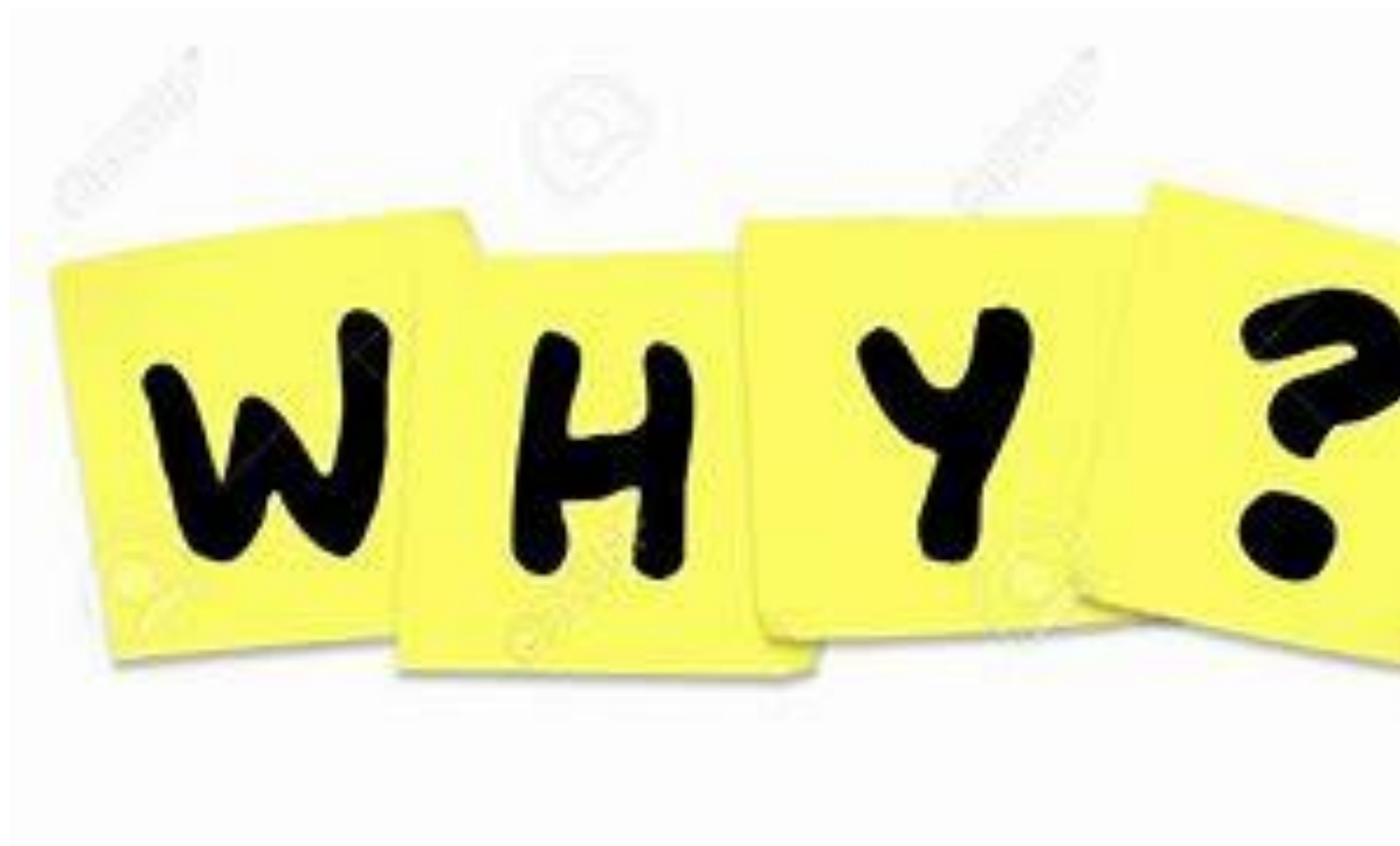
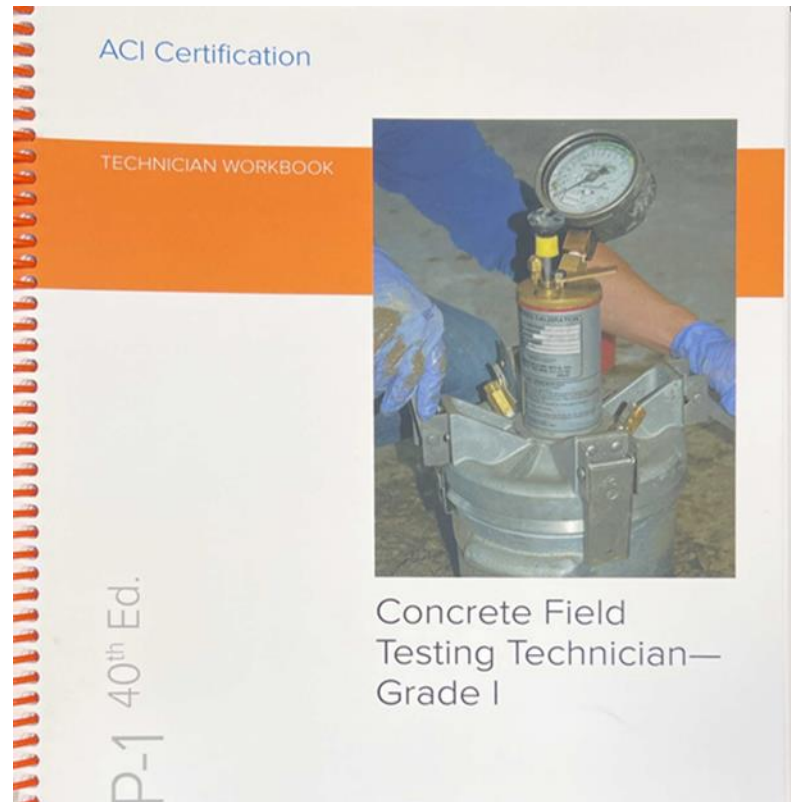


Table 2. Low Strength Example for $f'_c = 4,000$ psi ⁽¹⁾						
(1) Test No.	(2) Individual CYL Strengths (psi)		(3) Strength Test AVG of A & B (psi)	(4) AVG of 3 Consecutive Strengths (psi)	(5) REQ #1 Satisfied?	(6) REQ #2 Satisfied?
	A	B				
1	3,620	3,550	3,585 ⁽²⁾	—	YES	—
2	3,970	4,060	4,015	—	YES	—
3	4,080	4,000	4,040	3,880 ⁽⁴⁾	YES	NO
4	4,860	4,700	4,780	4,278	YES	YES
5	3,390	3,110	3,250 ⁽³⁾	4,023	NO	YES
¹ Modified from CIP 9 – Low Concrete Cylinder Strength, Concrete in Practice, National Ready Mix Concrete Association, www.nrmca.org . ² Acceptable strength because 3,585 psi does not fall below 4,000 psi by more than 500 psi ³ Low strength because 3,250 psi falls below 4,000 psi by more than 500 psi (3,250 is less than 3,500 psi) ⁴ Low strength because 3,880 psi falls below 4,000 psi						

how

Training



Communication



Coaching



WHO?

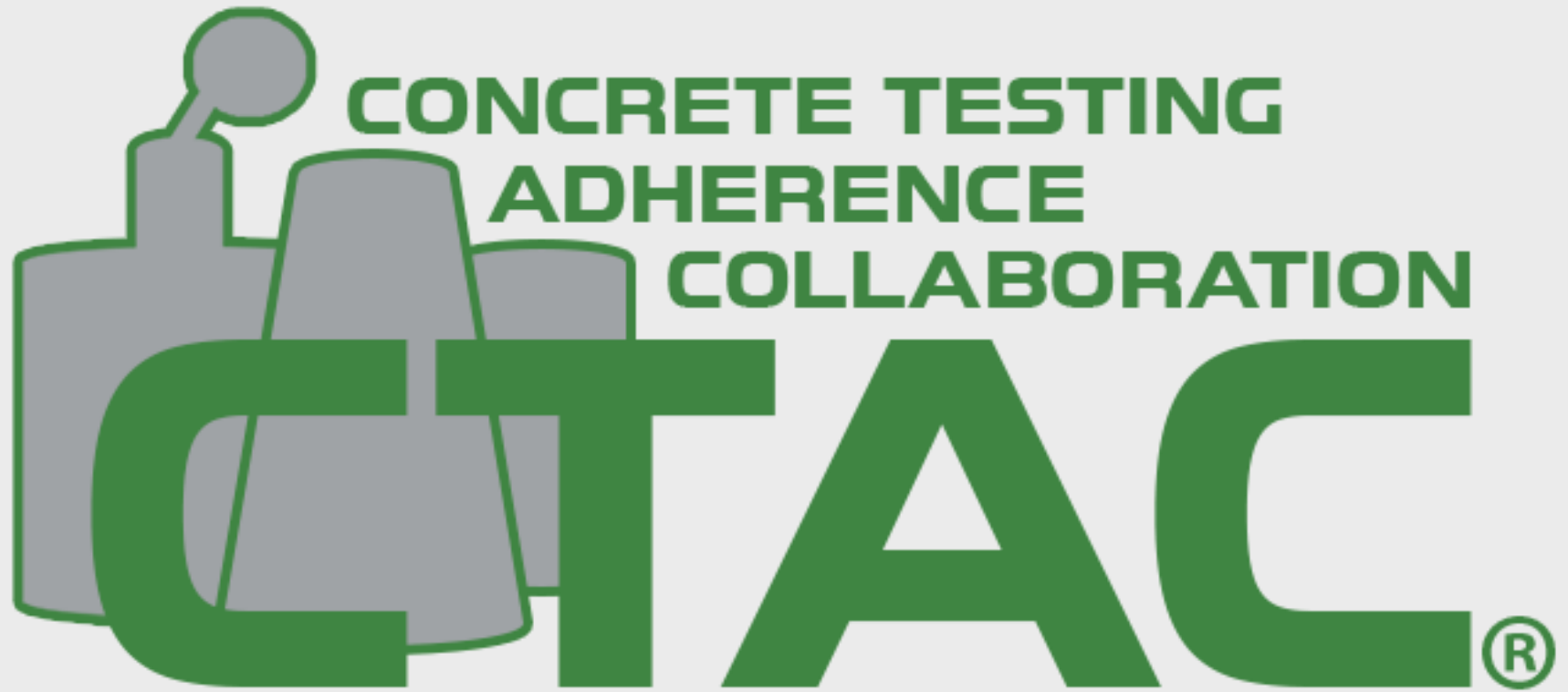


Thank you!



WHAT?

Strength
in Numbers



Strength
in Numbers



Concrete Industry Expectations



Technicians must be certified



Technicians must know procedures



Technicians should know WHY testing is needed and meaning of tests



Managers should know who tests correctly and consistently



Managers should know if training is working



Producers should know their results are not due to "poor" testing



Owners must feel at ease with testing and results

Strength
in Numbers

Current Main Questions

ACI CERTIFIED...?

Is the testing technician currently ACI Field 1 certified to test concrete?

SAMPLED CORRECTLY...?

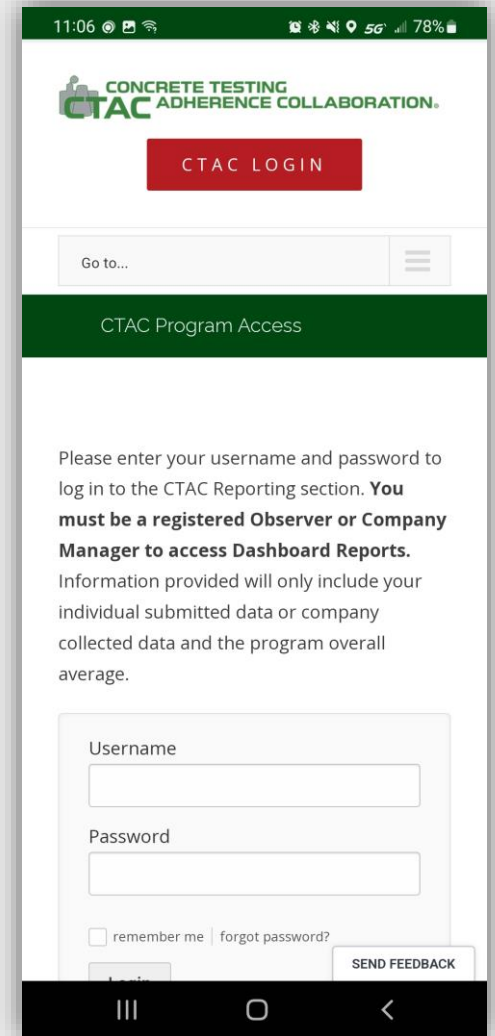
Excluding preliminary check tests, was the concrete sampled in accordance with ASTM C172?

TESTS DONE CORRECTLY...?

Where physical property tests completed and strength specimens molded (if required for cast) in accordance with the appropriate ASTM procedures?

SPECIMENS PROPERLY CURING...?

Were the concrete specimens (if required to cast) stored in an initial curing environment following ASTM C31, section 10.1.2?



The screenshot shows a mobile application interface for the Concrete Testing Adherence Collaboration (CTAC). At the top, the status bar shows the time 11:06, signal strength, and battery level at 78%. The app header features the CTAC logo and the text "CONCRETE TESTING ADHERENCE COLLABORATION." Below this is a red "CTAC LOGIN" button. A "Go to..." search bar is present. The main section is titled "CTAC Program Access" and contains instructions: "Please enter your username and password to log in to the CTAC Reporting section. **You must be a registered Observer or Company Manager to access Dashboard Reports.** Information provided will only include your individual submitted data or company collected data and the program overall average." Below the text are input fields for "Username" and "Password". There are checkboxes for "remember me" and a link for "forgot password?". A "SEND FEEDBACK" button is located at the bottom right of the login section. The bottom of the screen shows standard Android navigation icons.





Strength
in Numbers

Observations in the Field

Record through mobile app

- On-site Observations
- Input by experienced ACI Certified individuals
- QA, QC, Inspector, Contractor, Engineer, Owner Rep

NOT a “*Finger Pointing*” device

- Drives accountability
- Provides Training initiatives
- Security in reliable results
- Shared responsibility

CTAC Report Privacy

CTAC Log-in

- User specific
- Approved by Partner

Dashboard Data

- Only see your data
- Based on authorization (Observer, Company Manager, etc.)

Company Review

- Comparison vs. regional average
- Marketing

Strength
in Numbers

QUESTIONS?

COMMENTS?



www.concretetac.com
ctac@coloradocaa.org



Aaron Kjolhede
Regional Services Manager, IRMCA
akjolhede@concretestate.org



JT Mesite, P.E.
Program Manager, CRMCA
jt@coloradocaa.org



Strength
in Numbers