

**GREENBOOK COMMITTEE
NEW MATERIALS-SURFACE SUBCOMMITTEE
CONCRETE AD HOC GROUP**

MINUTES
March 13, 2014

Chairman, Ken Sears called the meeting to order at 9:35 am. The meeting was held in the conference room at:

CTS Cement
11065 Knott Avenue, Suite A
Cypress, CA 90630

1. Self-introductions were made by the participants (from the sign-in sheet):

Ken Sears	Headwaters Resources
Steve Martindale	OCPW
Darrell Caddy	BASF
Matt Jabbari	CTS Cement
Tom Meyer	Cell-Crete

Conference Call Participants

Gary Kirk	CalPortland
Javier Soto	OCPW
Don Vivant	Sully Miller
Mike Serra	Pacific Aggregates
Jeff Pollard	Vulcan Materials

2. The minutes from February were reviewed and approved with the following edits:
- a. 1. Javier Soto edited to **Javier** Soto
 - b. 2. The minutes from January were **available to review, were reviewed and approved.**
 - c. 3(A). Portland Cement Update **The review was completed and distributed.**
 - d. 3(E). BG edited to **GB** (abbr. for Greenbook).
 - e. 3(F). BG edited to **GB** (abbr. for Greenbook)
3. Current Business –
- A. Portland Cement Update, K. McDonald (not present)
 - Section review was completed and distributed, with corrected page number references. A suggestion was made to now go through the document and change PORTLAND CEMENT from ALL CAPS in BLUE or RED to its correct format: **black**, with underlines (for additions) and ~~strike-throughs (for omits)~~.
 - B. Change No. 244NS - Pervious Concrete, K. Sears

- Edits suggested in February were completed by Sears and distributed to the GROUP after the March meeting. Document is placed on 30-day hold for **Ad-Hoc** review. Vote pending in April.
- No ACI or ASTM specification governing Evaporative Retardants could be found. It was suggested to leave the verbiage as is, where its use is “with Engineer approval.”

C. Returned Fresh Concrete (Cal Trans), D. Vivant

- Vivant reported that returned fresh concrete will be metered by weight, not volume.
- Appears producers prefer volume; DMS prefers weight to verify.
- The most cost effective way to achieve this, at this time, is thought crane scales set up at the batching facility.
- It is suggested that **Ad-Hoc** should review weight vs volume, and how it impacts our specification in the future.

D. Change No. 235NS – Steel Fiber, Ferris

- At **Main Cmte** for review and approval.

E. Change No. 246NS - ASR Testing Requirements, Group

- It was suggested that expansion per ASTM 1260 should be 0.10 percent at 16 days (not 0.15% as previously submitted).
- It was suggested to add:
 - If aggregate has greater than 0.10 percent expansion at 16 days, or unless otherwise specified by the Engineer, the cementitious portion of the concrete shall contain 25 percent...
- Mitigation: discussion focused on how mitigation will impact the already published class tables. It is agreed by ALL that we do not want to contaminate the class tables, and do not desire to create a new column to the class table. Proposal discussed was allowing a 10% addition of Class F fly ash or approved SCM **on top of** the cement contents defined in the Alternate Class Table (which are 15% SCM) when required to mitigate, essentially creating a total of 25% SCM, without reducing the cement content.
- Vivant will submit proposed language; Sears will edit.

F. Cellular Concrete / Annular Fill, Meyer

- Placement limits were edited to read ‘Not to exceed 4’ without the approval by the Engineer’. Still under review for content.
- Additional references will need to be edited to reflect the current GB numbering format, and optimum placement in the GB.

G. Expansive Cement proposal, Jabbari

It was suggested to resubmit the changes as:

- Type K Cement to be written as a separate section within the Cement section (as **201-1.2.1(D) Expansive Hydraulic Cement**).
- Type K Component to be written as a separate section in the Supplementary Cementitious Materials section (as **201-1.2.5.5 Shrinkage Compensating Material**). *NOTE: Do not refer to this as SCM, it is too*

*confusing as the GB (and industry) already recognizes **SCM** as referring to a “Supplementary Cementitious Material.”*

4. New Business

- A. **257NS** - It was requested by the **Main Cmte** for **Ad-Hoc** to review the proposal in **Sections 200-1** and **203-12** for gradation changes impacting asphalt and chip seal. Any questions, comments or concerns should be brought to our April meeting for finalization of our forum’s review. **263NS** (Nov 2013) was also provided for reference for this review.
- B. The deadline to make the 2015 publication of the Greenbook is June

5. Our next meeting will be held **Thursday, April 10, 2014**, at **9:30 am**, at the same location (CTS Cement, Cypress).

6. Meeting adjourned at 11:20 am.

Submitted By:

Ken Sears
Chair

2014 Meeting Schedule

January 9	February 13	March 13	April 10	May 8	June 12
July 10	August 14	September 11	October 9	November 13	No December Meeting