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**Environmental Management
Department**
Marie Woodin, Director

County of Sacramento

Date: January 30, 2009

To: Well Contractors
Ready-Mixed Cement Suppliers
Environmental Consultants
Well Program Webpage (<http://www.emd.saccounty.net/WP/EMDwells.htm>)

SUBJECT: READY MIXED SAND CEMENT FOR WATER WELL SEALS

This memorandum has been issued as a reminder to members of our regulated community that pursuant to the Department of Water Resources' Bulletin 74-90 (California Well Standards) and Sacramento County Code, Title 6, Chapter 6.28 (Wells and Pumps), the specification for "sand cement" reads as follows:

"Sand cement shall be mixed at a ratio of not more than 188 pounds of sand to one 94-pound sack of Portland cement (2 parts sand to 1 part cement, by weight) and about 7 gallons of clean water, where Type I or Type II Portland cement is used. This is equivalent to a '10.3 sack mix.'"

The Department of Water Resources' Bulletin 74-90 further states:

"Less water shall be used if less sand than 2 parts sand per 1 part cement by weight is used."

In order to avoid the rejection of trucks on water well construction and destruction job sites, we are asking that cement suppliers provide confirmation of the following specifications on each batch slip:

- (1) **10.3 sack sand cement**
- (2) **Sand to cement ratio less than or equal to 2:1, by weight**
- (3) **Water content between 4.5 and 7 gallons per sack**

Alternatively, the batch slip may specify pounds of sand, pounds of cement, and gallons of water per cubic yard of material.

Our entire well and pump ordinance may be accessed online at: http://municipalcodes.lexisnexis.com/codes/sacramento_co/. Please contact us at (916) 875-8400 if you have any questions.