



## Resource Materials Testing, Inc.

*"Specialists in Fly Ash Testing"*

24 Fine Drive Murphy, NC 28906 828.506.7636

### REPORT OF STABILIZER ANALYSIS

TO: Ash Grove Resources, LLC  
Attn: Mr. Brady Pryor  
5375 SW 7<sup>th</sup> Street, Suite 400  
Topeka, KS 66606-2552

PROJECT NO. RMT-467  
SAMPLE NO. 17498  
DATE REC.: 04-20-10  
DATE REP.: 06-02-10

PROJECT NAME: Ash Grove Durabase® CKD Quality Assurance Program  
SAMPLE ID: Chanute, KS Ash Grove Durabase® CKD

#### CHEMICAL ANALYSIS, ignited basis, wt%:                      RESULTS:

Silicon Dioxide, SiO <sub>2</sub>	17.89
Aluminum Oxide, Al <sub>2</sub> O <sub>3</sub>	6.38
Iron Oxide, Fe <sub>2</sub> O <sub>3</sub>	3.08
Sum of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub>	27.35
Calcium Oxide, CaO	59.85
Magnesium Oxide, MgO	1.80
Sodium Oxide, Na <sub>2</sub> O	0.63
Potassium Oxide, K <sub>2</sub> O	3.90
Sulfur Trioxide, SO <sub>3</sub>	5.56
Moisture Content	0.10
Loss on Ignition	8.95
Available Lime Index, %CaO	25.39

#### PHYSICAL TESTING:

Amount Retained on A No. 325 Sieve,%	16.6
C 109 Cubes w/o cement, psi	
3-day	30
7-day	288
28-day	525
Water Requirement, ml	272
Density	2.85

By Robert L. Smith  
Robert L. Smith, Ph.D.