

Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley **Sample No.:** 2004-7
Date: 12/23/04 **Origin of Sample:** 38CH932, mortar floor, base of ice house

Visual Description of sample (color, texture, hardness, inclusions, etc.):
 Soft, only slightly friable, very pale brown, 10YR8/2 with white lumps, no shell.

Mortar Analysis

Original weight of powdered sample	20.14
Weight of filter paper	3.26
Weight of filter paper + dry fines	4.62
Weight dry fines	1.36
Weight of dry sand	12.51
% of sand	62.12
% of fines	6.75
% of dissolved binder	31.13

Observations (dissolution of binder, color of liquid, reaction):
 Aggressive foaming, green-yellow liquid

Characterization of Sand:

	wt. % finer than		wt (gm)	%
Microscopic Examination: rounded quartz		4.75mm	0.00	0
		2.36mm	0.00	0
		1.18mm	0.07	0.559552
		600µm	0.45	3.597122
		300µm	2.92	23.34133
		150µm	8.19	65.46763
		75µm	0.84	6.714628
		53µm	0.04	0.319744
		38µm	0.00	0
		Total sand weight		12.51

Munsell Color(s) of Sand: white, 10YR8/1

