

Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley **Sample No.:** 2004-3
Date: 12/23/04 **Origin of Sample:** 38DR141, Tranquil Hill Plantation, main house mortar from brick wall

Visual Description of sample (color, texture, hardness, inclusions, etc.):
 Soft, friable, moderate amount of white to gray shell fragments that appear to range in size from 1 to 5 mm (generally small). Color is a very pale orange, 10YR8/2

Mortar Analysis

Original weight of powdered sample	25.82
Weight of filter paper	0.87
Weight of filter paper + dry fines	3.49
Weight dry fines	2.62
Weight of dry sand	11.47
% of sand	44.42
% of fines	10.15
% of dissolved binder	45.43

Observations (dissolution of binder, color of liquid, reaction):

Characterization of Sand:

Microscopic Examination:
 rounded quartz, small white uid clumps

	wt. % finer than		wt (gm)	%
	4.75mm		0.00	0
	2.36mm		0.01	0.087184
	1.18mm		0.09	0.784656
	600µm		0.23	2.005231
	300µm		3.38	29.46818
	150µm		6.62	57.71578
	75µm		0.97	8.456844
	53µm		0.17	1.482127
	38µm		0.00	0
Total sand weight			11.47	

Munsell Color(s) of Sand: white, 5 YR8/1

