Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley Sample No.: 2004-6

Date:12/23/04Origin of Sample:38CH932, Youghal Plantation, 340R225,

mortar from pier

Visual Description of sample (color, texture, hardness, inclusions, etc.):

Friable, moderately hard, few lime clumps, no recognizable shell. Color is pink, 7.5YR8/3.

Mortar Analysis

Original weight of powdered sample	17.19
Weight of filter paper	1.66
Weight of filter paper + dry fines	4.50
Weight dry fines	2.84
Weight of dry sand	8.11
% of sand	47.18
% of fines	16.52
% of disolved binder	36.30

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

Moderately strong reaction, complete dissolution of binder. The liquid is a greenish-yellow color.

Characterization of Sand:

			wt (gm)	%
Microscopic Examination:	wt./% finer than	4.75mm	0.00	0
Rounded quartz		2.36mm	0.00	0
		1.18mm	0.03	0.369914
		600µm	0.13	1.602959
		300µm	0.80	9.864365
		150µm	5.93	73.11961
		75µm	1.19	14.67324
		53µm	0.03	0.369914
		38µm	0.00	0
	Total sand weight		8.11	

Munsell Color(s) of Sand: pale brown, 10YR8/2

