Chicora Foundation Mortar Analysis Data Sheet

Name: Michael Trinkley

Sample No.: 2004-8

Date: 12/23/04

Origin of Sample: 38CH932, Youghal Plantation, Feature 9, Level 1, mortar sample

Visual Description of sample (color, texture, hardness, inclusions, etc.):
hard, not friable, obvious shell lumps, pinkish gray 7.5YR7/2

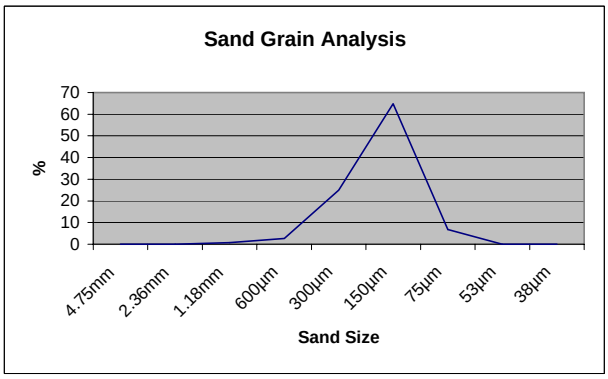
Mortar Analysis

Original weight of powdered sample	22.07
Weight of filter paper	1.62
Weight of filter paper + dry fines	2.50
Weight dry fines	0.88
Weight of dry sand	2.93
% of sand	13.28
% of fines	3.99
% of disolved binder	82.74

Observations (dissolution of binder, color of liquid, reaction):
very aggressive reaction, liquid is a greenish-brown

Characterization of Sand:

Microscopic Examination:
rounded quartz

		wt (gm)	%
wt./% finer than	4.75mm	0.00	0
	2.36mm	0.00	0
	1.18mm	0.02	0.682594
	600µm	0.08	2.730375
	300µm	0.73	24.91468
	150µm	1.90	64.84642
	75µm	0.20	6.825939
	53µm	0.00	0
	38µm	0.00	0
Total sand weight		2.93	

Munsell Color(s) of Sand: light gray 7.5YR7/1