



BROOKSIDE LABORATORIES, INC.
GEOTECHNICAL DIVISION
NEW KNOXVILLE, OH 45871

**** PHYSICAL ANALYSIS REPORT ****

S008 - Physical Lab/Quality

File Number: 40735

Date Received/Started : 03/08/2002

Date Completed/Reported: 03/14/2008

Submitted By: Home Office

Lab Number	0197
Sample Description	S008/QC
Sample Condition	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Other (see comments)

Method References

ASTM D421
ASTM F1632
ASTM F1647

*New BM QC #2 TUB #4

** This report may only be reproduced in its entirety.
* These results represent the sample submitted only.*



BUNKER SAND CHARACTERIZATION

S008 - Physical Lab/Quality Control

File Number : 40735

** Date of Analysis **

Start Date : 03/08/2002

Completed : 03/14/2008

Submitted By: Home Office

Reviewed by:

Jackie Brackman

Lab Number 0197
 Sample Description S008/QC

Particle Size Analysis

Clay <.002mm	%	0.33
Silt .002mm - .05mm	%	1.09
Sand .05mm - 2.00mm	%	98.50
Gravel > 2.0mm	%	0.08

Org Mat (360 deg C ash) 1.24

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.08
18 - 1.0	Very Coarse Sand	4.22
35 - .500	Coarse Sand	38.64
60 - .250	Medium Sand	43.47
100 - .150	Fine Sand	10.17
140 - .106	Very Fine Sand	1.68
270 - .053	Very Fine Sand	0.32

*COLOR 3/2 2.5Y VERY DARK BROWN

*CRUSTING CHARACTERISTICS NONE

VISUAL CLASSIFICATION Medium
 sphericity/subangular
 to subrounded

*BALL LIE RATING KG/CM2 2.50

*CALCIUM CARBONATE EQUIVALENT% 32.1