



MATROLAB GROUP (PTY.) LTD

- CIVIL ENGINEERING SERVICES -



a SANAS Accredited Testing Laboratory, No. TO239

UNIT 7, PENNYLANE PARK, 64 EBONYFIELD AVE., SPRINGFIELD PARK
P.O.BOX 74663, ROCHDALE PARK, 4034

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TEST RESULTS

STOCKVILLE QUARRY
Attention: Mr. Steve

Project : Quarry
Your Ref :
Our Ref : 067861
Date Reported : 25.03.2011

SIEVE ANALYSIS, ATTERBERG LIMITS, CBR, UCS(TM1:A1-A5,A7,A8)

SAMPLE NO.	725 A			
HOLE NO.	Ex. G5			
ROAD NO.				
DEPTH				
CHAINAGE				
LAYER TYPE				
STABILISED WITH	Natural			
SUPPLIER				
CURING METHOD				
DESCRIPTION	Dark grey brown decomposed granite			

SIEVE ANALYSIS (% PASSING)

75 mm				
63 mm	100			
53 mm	80			
37.5 mm	73			
26.5 mm	63			
19.0 mm	55			
13.2 mm	53			
4.75 mm	35			
2.0 mm	21			
0.425 mm	8			
0.075 mm	2			

SOIL MORTAR

COARSE SAND <2.000mm >0.425mm	62			
FINE SAND <0.425mm >0.075mm	29			
MATERIAL <0.075mm	9			

CONSTANTS

GRADING MODULUS	2.69			
PRA CLASSIFICATION	A-1-a(0)			
TRH CLASSIFICATION	G5			
LIQUID LIMIT (%)	-			
PLASTICITY INDEX (0.425mm)	NP			
LINEAR SHRINKAGE (%)	0.0			

MOD AASHTO

MAXIMUM DRY DENSITY (kg/m ³)	2106			
OPTIMUM MOISTURE CONTENT (%)	5.6			
MOULDING MOISTURE (%)	5.3			

TYPE OF TEST	CBR			
CBR-UCS @ 100% MOD AASHTO	63			
CBR-UCS @ 98% MOD AASHTO	56			
CBR-UCS @ 97% MOD AASHTO	53			
CBR-UCS @ 95% MOD AASHTO	46			
CBR-UCS @ 93% MOD AASHTO	37			
CBR-UCS @ 90% MOD AASHTO	26			

CBR-UCS @ % MOD AASHTO derived from calculation.

% SWELL AT [MOD][NRB][PROC]	0.01	0.02	0.03							
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Remarks : Deviation from TMH 1 : A8 : 90% compaction achieved using mechanical compactor.

FORM: A1

Program ver 3.3R (06.10.2010) Technical Signatory : Lawrence Govender.

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SIEVE ANALYSIS, ATTERBERG LIMITS, CBR, UCS(TM1:A1-A5,A7,A8)

SAMPLE NO.	726 A			
HOLE NO.	Ex. G7			
ROAD NO.				
DEPTH				
CHAINAGE				
LAYER TYPE				
STABILISED WITH	Natural			
SUPPLIER				
CURING METHOD				
DESCRIPTION	Dark yellow brown decomposed granite			

SIEVE ANALYSIS (% PASSING)

75 mm				
63 mm				
53 mm				
37.5 mm	100			
26.5 mm	96			
19.0 mm	93			
13.2 mm	86			
4.75 mm	63			
2.0 mm	42			
0.425 mm	21			
0.075 mm	6			

SOIL MORTAR

COARSE SAND <2.000mm >0.425mm	50			
FINE SAND <0.425mm >0.075mm	36			
MATERIAL <0.075mm	14			

CONSTANTS

GRADING MODULUS	2.31			
PRA CLASSIFICATION	A-1-a(0)			
TRH CLASSIFICATION	G7			
LIQUID LIMIT (%)	-			
PLASTICITY INDEX (0.425mm)	SP			
LINEAR SHRINKAGE (%)	1.0			

MOD AASHTO

MAXIMUM DRY DENSITY (kg/m ³)	2022			
OPTIMUM MOISTURE CONTENT (%)	8.3			
MOULDING MOISTURE (%)	8.5			

TYPE OF TEST	CBR			
CBR-UCS @ 100% MOD AASHTO	45			
CBR-UCS @ 98% MOD AASHTO	37			
CBR-UCS @ 97% MOD AASHTO	34			
CBR-UCS @ 95% MOD AASHTO	28			
CBR-UCS @ 93% MOD AASHTO	20			
CBR-UCS @ 90% MOD AASHTO	12			

CBR-UCS @ % MOD AASHTO derived from calculation.

% SWELL AT [MOD][NRB][PROC]	0.09	0.13	0.88									
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Remarks : Deviation from TMH 1 : A8 : 90% compaction achieved using mechanical compactor.

FORM: A1

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