



# Hunter Geotechnics Pty Limited

Unit 5 Walter St (PO Box 3003) , Singleton

ph 026572 1234, fx 02 7572 1572

## CALIFORNIA BEARING RATIO REPORT SHEET

Singleton Laboratory

Tamworth Laboratory

Annexe Laboratory

<b>CLIENT:</b>	Specialised Sand & Soil Pty Ltd	<b>REPORT NO:</b>	S1540-01
<b>CLIENT ADDRESS:</b>	PO Box 345, Round Corner NSW 2158		
<b>PROJECT:</b>	Material Evaluation	<b>PROJECT NO:</b>	HGS 1540
<b>DATE OF TESTING:</b>	22/03/2009	<b>DATE OF REPORT:</b>	26/03/2009
<b>TECHNICIAN:</b>	P.K.	<b>DATE SAMPLED:</b>	Unknown
<b>SITE LOCATION:</b>	Maitland Quarry		

### SAMPLE DATA

<b>Sample Number</b>	1
<b>Test Location Layer</b>	Unknown
<b>Material Description</b>	Brown Silty Clay/Clayey Silt

Sample Method: AS 1289.1.2.1

- Clause:  Sampling - Stockpile  
 Sampling - Windrow  
 Sampling - Pavement or Earthworks Layers  
 Sampling - Hander Auger

### LABORATORY COMPACTION DATA

#### Australian Standards

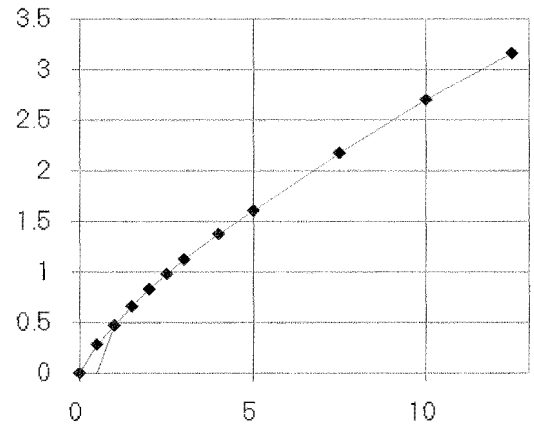
- AS1289.5.1.1 - Standard Compction  
 AS1289.5.2.1 - Modified Compaction  
 AS1289.2.1.1 - Moisture Content - Oven

#### RTA Methods

- RTA T111 - Standard Compaction  
 RTA T112 - Modified Compaction  
 RTA T120 - Moisture Content - Oven

<b>Maximum Dry Density</b>	t/m <sup>3</sup>	1.63
<b>Optimum Moisture Content</b>	%	18.4
<b>Field Moisture Content</b>	%	23.7

### CBR Curve



### CALIFORNIA BEARING RATIO TEST RESULTS

- AS1289.6.1.1  RTA T117

<b>Dry Density (Before soaking)</b>	t/m <sup>3</sup>	1.66
<b>Density Ratio (Before soaking)</b>	%	102
<b>Moisture Content (Before soaking)</b>	%	18.2
<b>Moisture Ratio (Before soaking)</b>	%	99
<b>Days Soaked</b>		10
<b>Surcharge Weight</b>	kg	4.5
<b>Swell (After soaking)</b>	%	0.5
<b>Dry Density (After soaking)</b>	t/m <sup>3</sup>	1.65
<b>Density Ratio (After soaking)</b>	%	101
<b>Moisture Content (Top 30mm)</b>	%	22.4
<b>Moisture Content (Remaining Sample)</b>	%	20.4
<b>CBR Value @ 2.5 /5.0mm Penetration</b>	%	<b>7/8</b>

Sampled By: HG - Singleton / HG - Tamworth / Client / Annexe Lab

Tested By: HG - Singleton / HG - Tamworth / Client / Annexe Lab

Comments: oversize retained on the 19mm sieve was not included in CBR test samples

Material retained on AS 19.0mm sieve % Nil

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ACCREDITED FOR TECHNICAL COMPETENCE

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Signed: Approved Signatory

Signatory Name: P Deasy

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# Hunter Geotechnics Pty Limited

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## SOIL CLASSIFICATION TEST REPORT (AUSTRALIAN STANDARDS METHODS)

Singleton Laboratory

<b>CLIENT:</b>	Specialised Sand & Soil Pty Ltd	<b>REPORT No:</b>	S1540-02
<b>CLIENT ADDRESS:</b>	PO Box 345, Round Corner NSW 2158	<b>PROJECT No:</b>	HGS 1540
<b>PROJECT:</b>	Material Evaluation	<b>DATE OF REPORT:</b>	26/3/09
<b>DATE OF TESTING:</b>	16/3/09	<b>DATE SAMPLED:</b>	Unknown
<b>LOCATION:</b>	Maitland Quarry		
<b>TECHNICIAN:</b>	S.T.		

<b>SAMPLE No:</b>	1		
<b>SAMPLE LOCATION:</b>	Unknown		
<b>MATERIAL DESCRIPTION:</b>	Brown Silty Clay/Clayey Silt		
<b>WASHED / UNWASHED:</b>	-		
<b>AS 1289.3.8.1 Water Type &amp; Temperature:</b>	-		

TEST METHOD	TEST DESCRIPTION				
AS 1289.3.6.1	% Passing Sieve Analysis	75mm	-		
		53mm	-		
		37.5mm	-		
		26.5mm	-		
		19.0mm	-		
		13.2mm	-		
		9.5mm	-		
		6.7mm	-		
		4.75mm	-		
		2.36mm	-		
SAMPLING METHOD AS1289.1.2.1		1.18mm	-		
		600µm	-		
		425µm	-		
		300µm	-		
		150µm	-		
		75µm	-		
AS 1289.3.8.1	EMERSON CLASS No:		-		
AS 1289.2.1.1	MOISTURE CONTENT	%	-		
AS 1289.2.1.4	MOISTURE CONTENT	%	-		
AS 1289.2.1.6	MOISTURE CONTENT	%	-		

### CODE

AS 1289.3.1.1	LIQUID LIMIT	%	-	-		
AS 1289.3.1.2	LIQUID LIMIT	%	2/4	29		
AS 1289.3.2.1	PLASTIC LIMIT	%	2/4	21		
AS 1289.3.3.1	PLASTICITY INDEX	%	2/4	8		
AS 1289.3.4.1	LINEAR SHRINKAGE	%	-	-		

### CODES USED

Sample history for plasticity tests	
Air Dried	1
Low temperature oven (<50°C) dried	2
Other /Unknown	3

Method of preparation for plasticity tests	
Dry sieved	4
Wet sieved	5
Natural	6

<b>Sampled by:</b>	Client
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Approved Signatory

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Signatory Name: P Deasy  
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