



N.A.T.A. Accreditation Number: 10731
Unit 2/2 Lorries Court, MALAGA. W.A. 6090.
as trustee for Qualcon Unit Trust (ABN: 34 736 601 547 ACN: 068 691 369)

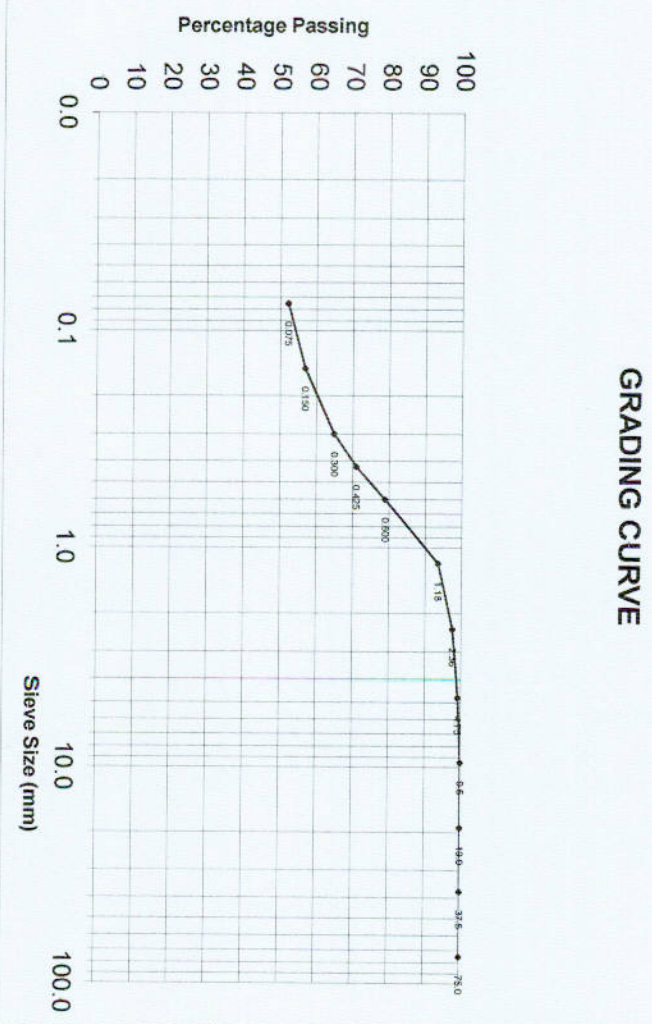
Phone: (08) 9249 9895
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Email: qualcon@inet.net.au

PARTICLE SIZE DISTRIBUTION REPORT

Client Bowman & Associates
Location Allawuna
Sampled By NA
Sample Date 03-Oct-12 (As Received)
Test Method AS1289.3.6.1

Date of Report 26-Nov-12
Report Number QL889-12
Test Number 4435
Sample Description Sandy Clay

Sieve Size (mm)	Percentage Passing
75.0	100
37.5	100
19.0	100
9.5	100
4.75	99
2.36	98
1.18	94
0.600	79
0.425	71
0.300	65
0.150	57
0.075	52



Approved Signatory: G J Donatti



ACCREDITED FOR
TECHNICAL
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CASAGRANDE REPORT

Report Number : QL889-12 _____ Date of Report : 26 November, 2012 _____

Client : Bowman & Associates _____

Location : Allawuna _____

Test Methods : AS1289.3.1.2, AS1289.3.2.1, AS1289.3.3.1, AS1289.3.4.1 _____

Material Description : Sandy Clay (As Received – 3-Oct-2012) _____

Test Number		4435		
Material Status		Oven Dried 50C		
Preparation Method		Dry Sieved		
Liquid Limit (wL)	(%)	46		
Plastic Limit (wP)	(%)	12		
Plasticity Index (IP)	(%)	34		
Linear Shrinkage (LS)	(%)	10.0		
Crack		No		
Curling		Yes		

Notes :

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FALLING HEAD PERMEABILITY REPORT **AS1289.6.7.2**

Report Number	QL889-12	Date of Report	26-Nov-12
Client	Bowman & Associates		
Location	Allawuna		
Sampled By	As Received 3-Oct-2012	Test Number	4435
Prepared By	GD/HH	Date Sampled	NA
Material Description	Sandy Clay	Date Tested	19 to 23-Nov-12

Laboratory Moisture Ratio (%)	99
Laboratory Density Ratio (%)	95
Compactive Effort	Standard
Surcharge (kPa)	3
Percentage of Material retained on 19.0 mm	0
Coefficient of Permeability (m/sec)	2.0 x (10) ⁻¹⁰

Note 1 : MDD/OMC values were obtained from Qualcon Laboratories Pty Ltd Report No. QL889-12, Page 4 of 4.

Note 2 : Permeability remoulded at the following conditions ; 95% Density Ratio & 100% Moisture Ratio.

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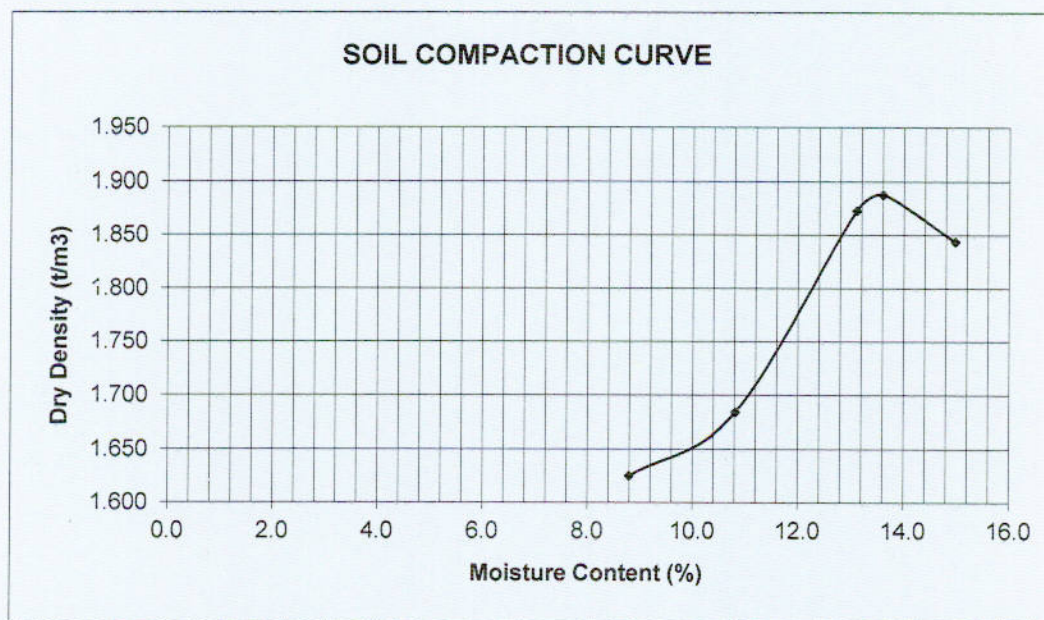
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SOIL COMPACTION REPORT

Report Number	:	QL889-12	Date of Report	:	26-Nov-12
Client	:	Bowman & Associates	Test Number	:	4435
Location	:	Allawuna			
Test Methods	:	AS1289.5.1.1			
Material Type	:	Sandy Clay (As Received - 3-Oct-2012)			
Compaction Type	:	Standard (Small Mould)			

Maximum Dry Density (t/m3)	1.89
Optimum Moisture Content (%)	13.5
Percent Retained on 19.0mm sieve.	0
Percent Retained on 37.5mm sieve.	0



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