
APPENDIX C
Results of Laboratory Tests



RESULT OF CALIFORNIA BEARING RATIO TEST

Client : COCHLEAR

Project No. : 45298

Project : MACQUARIE UNI SOUTH PRECINCT

Report No. : S07-292

Location : MACQUARIE UNI

Report Date : 09/01/08

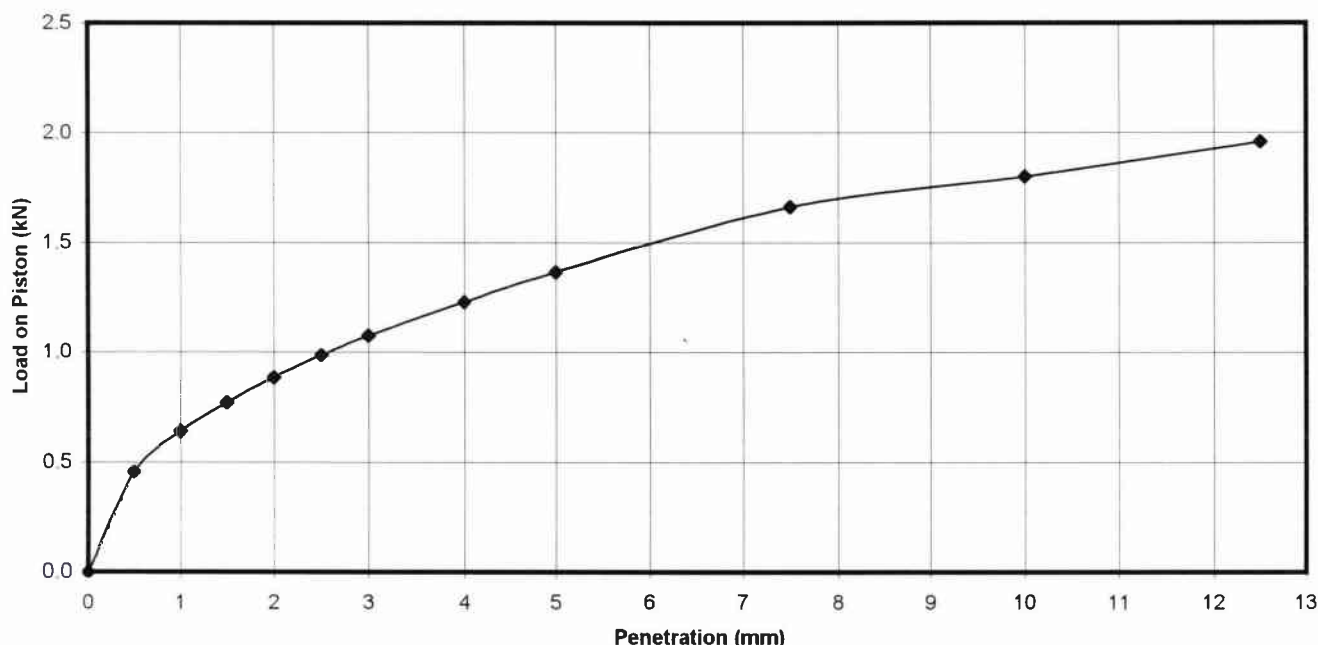
Test Location : BH3

Date Sampled : N/A

Depth / Layer : 0.3-1.0m

Date of Test : 19/12/07

Page: 1 of 1



Description: SILTY CLAY - Red and orange silty clay

Test Method(s): AS 1289.6.1.1-1998, AS 1289.2.1.1-2005

Sampling Method(s): AS 1289.1.2.1-1998, AS 1289.1.1-2001

Percentage > 19mm: 0.0%

LEVEL OF COMPACTION: 101% of STD MDD

SURCHARGE: 4.5 kg

SWELL: 0.6%

MOISTURE RATIO: 96% of STD OMC

SOAKING PERIOD: 4 days

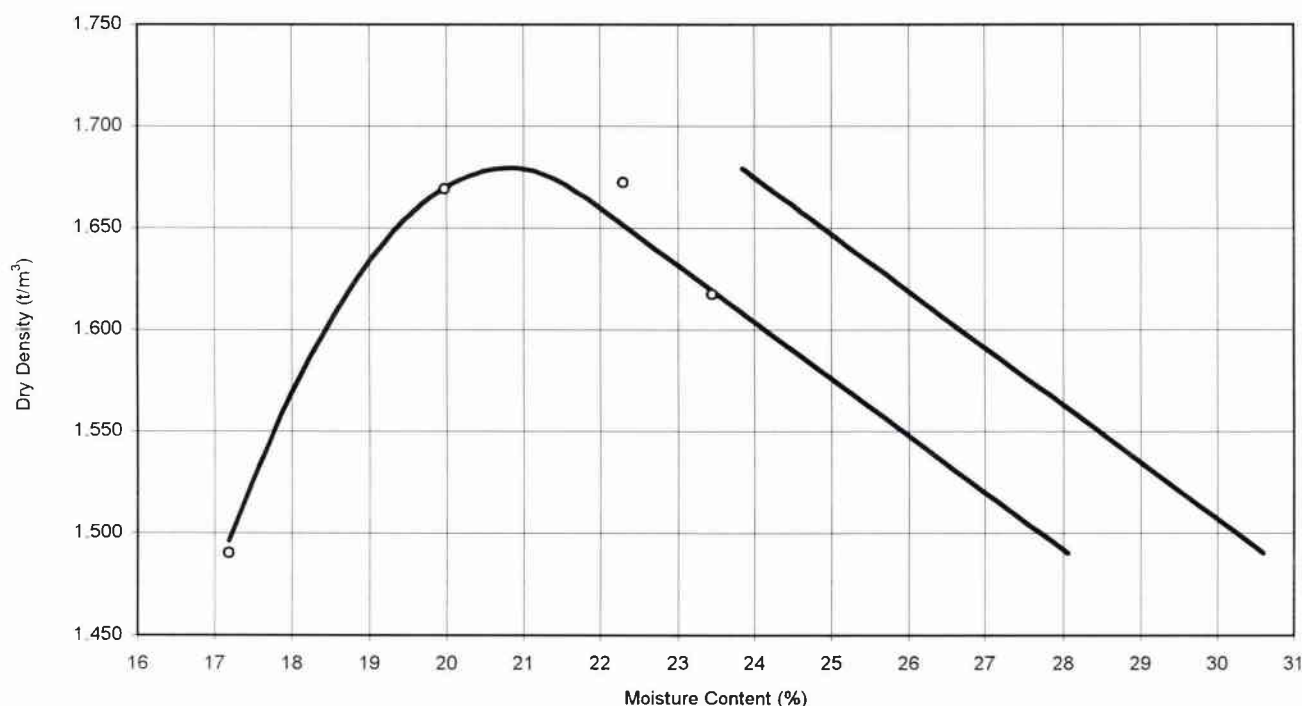
CONDITION	MOISTURE CONTENT %	DRY DENSITY t/m ³
At compaction	20.0	1.70
After soaking	21.9	1.69
After test		
Top 30mm of sample	21.8	-
Remainder of sample	20.7	-
Field values	22.3	-
Standard Compaction	20.9	1.68

RESULTS		
TYPE	PENETRATION	CBR (%)
TOP	2.5 mm	7
	5.0 mm	7



RESULTS OF COMPACTION TEST

Client :	COCHLEAR	Project No. :	45298
Project :	MACQUARIE UNI SOUTH PRECINCT	Report No. :	S07-292
Location :	MACQUARIE UNI	Report Date :	09/01/08
		Date of Test:	19/12/07
		Page:	1 of 1



Sample Details **Location:** BH3
Depth: 0.3-1.0m

Particles > 19mm: 0%

Description: SILTY CLAY - Red and Orange silty clay.

Maximum Dry Density: 1.68 t/m³

Optimum Moisture Content: 21.0 %

Remarks:

Test Methods: AS 1289.5.1.1-2003 (STD), AS 1289.2.1.1-1998

Sampling Methods: AS 1289.1.1.1-1998, AS1289.1.2.1-2001



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Approved Signatory:

Tested:	RR
Checked:	NW

Norman Weimann

Norman Weimann
Laboratory Manager



RESULTS OF MOISTURE CONTENT, PLASTICITY AND LINEAR SHRINKAGE TESTS

Client: COCHLEAR		Project No: 45298	
Project: MACQUARIE UNIVERSITY SOUTH PRECINCT		Report No: S08-003	
Location: MACQUARIE UNIVERSITY		Report Date: 16/01/08	
		Date Sampled: N/A	
		Date of Test: 10/01/08	
		Page: 1 of 1	

TEST LOCATION	DEPTH (m)	DESCRIPTION	CODE	W _F %	W _L %	W _P %	PI %	*LS %
BH1	1.0	SILTY CLAY - Red brown silty clay.	2,5	10.7	35	20	15	8

Legend:

W_F Field Moisture Content
W_L Liquid limit
W_P Plastic limit
PI Plasticity index
LS Linear shrinkage from liquid limit condition (Mould length 150mm)

Test Methods:

Moisture Content: AS 1289 2.1.1 - 2005
Liquid Limit: AS 1289 3.1.2 - 1995, 3.1.1 - 1995
Plastic Limit: AS 1289 3.2.1 - 1995
Plasticity Index: AS 1289 3.3.1 - 1995
Linear Shrinkage: AS 1289 3.4.1 - 1995
Cone Liquid Limit: AS 1289 3.9.1 - 2002
AS 1289 1.3.1 - 1999

Code

Sample history for plasticity tests

1. Air dried
2. Low temperature (<50°C) oven dried
3. Oven (105°C) dried
4. Unknown

Method of preparation for plasticity tests

5. Dry sieved
6. Wet sieved
7. Natural

*Specify if sample crumbled CR or curled CU

Sampling Method(s): AS 1289.1.2.1-1998, AS 1289.1.1-2001

Remarks:

Approved Signatory:

Norman Weimann
Laboratory Manager



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Tested: AI
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