AUSTRALIAN SOIL TESTING PTY LTD. A.B.N. 79 003 493 623
24 Bermill Street, Rockdale, NSW, 2216 P.O. Box 2014, Rockdale D.C. NSW 2216
Tel: 9597 5599, 9597 3286 Fax: 9597 3442 Email: austst@bigpond.com

EFFECTIVE STRESS TRIAXIAL TEST REPORT

CLIENT: URS
Level 3, 116 Miller Street North Sydney NSW 2060

PROJECT: Costco 43217997

Sample Source: BHMW02 3.0-3.5m **Lab No:** 53780

Sample Description: SILTY CLAY: mottled grey and yellow-brown, low plasticity, with fine to coarse sand (pockets of sandy clay), roots present.

Initial Moisture Content (%):	25.3	**Dry Density (t/m^3):**	2.12
Final Moisture Content (%):	20.4		
Sample Diameter (mm):	62.1	**Sample Height (mm):**	119.2
Coefficient of Consolidation (m^2/yr):	0.15	**Rate of Strain (mm):**	0.001

Shear Details at Peak Stress Ratio

Net Confining Pressure (kPa):	50	100	200
Deviator Stress (kPa):	45	73	117
Pore Water Pressure (kPa):	33	65	135
Strain At Failure (%):	2.47	4.80	6.78

From Mohr Circles

Effective Cohesion (kPa):	8
Effective Angle Of Friction (degrees):	25.0

Date Tested: 31.7.09
Job Number: 119-226-2
Sampled By: URS
Tested By: CS

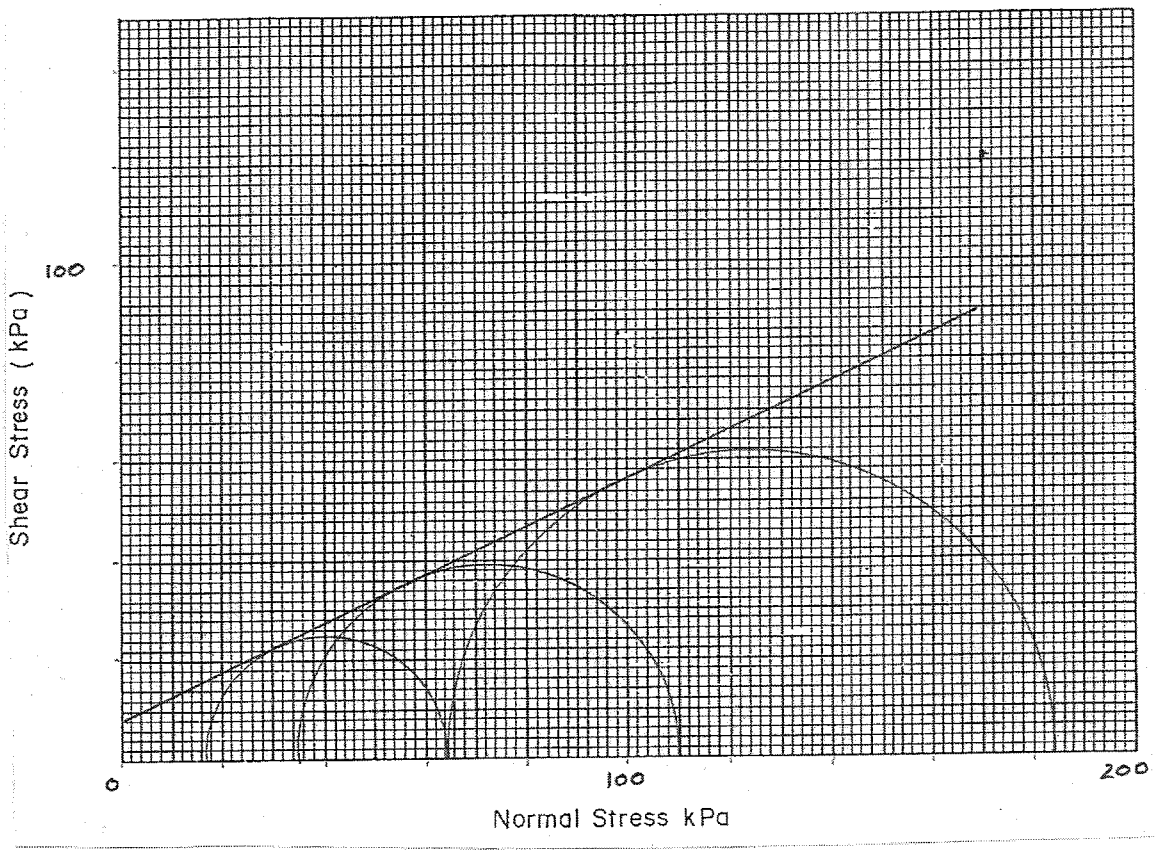
Test Type: Backsaturated, consolidated, multistaged with pore water pressure measurement.
Test procedure: AS 1289 6.4.2 Determination of compressive strength of soil - Compressive strengt of a saturated specimen tested in undrained triaxial compression with measurement of pore water pressure.

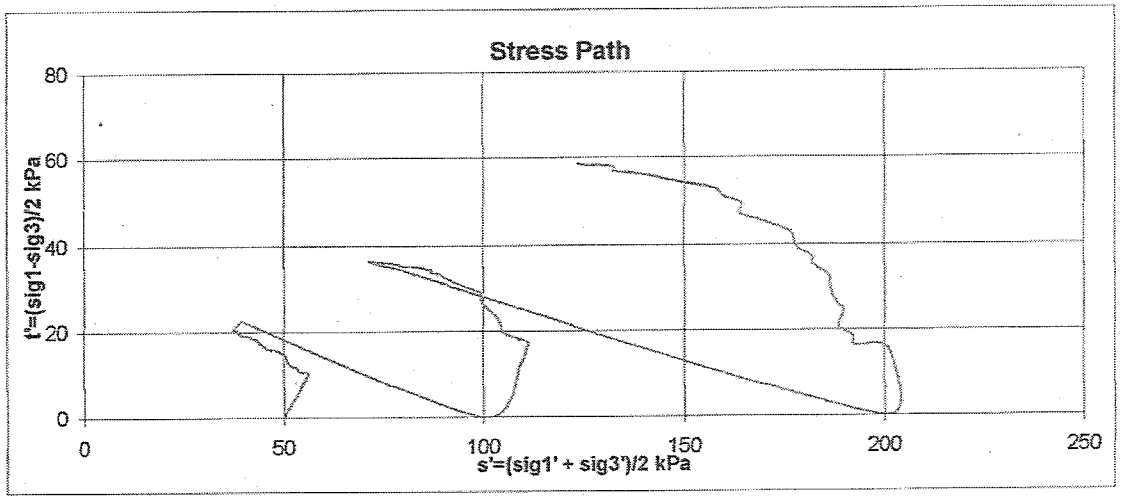
Signed: ..... Name: C. Lloyd
Title: LM Date: 17/8/09

EFFECTIVE STRESS TRIAXIAL TEST REPORT

CLIENT: **URS**
Level 3, 116 Miller Street North Sydney NSW 2060

PROJECT: **Costco 43217997**





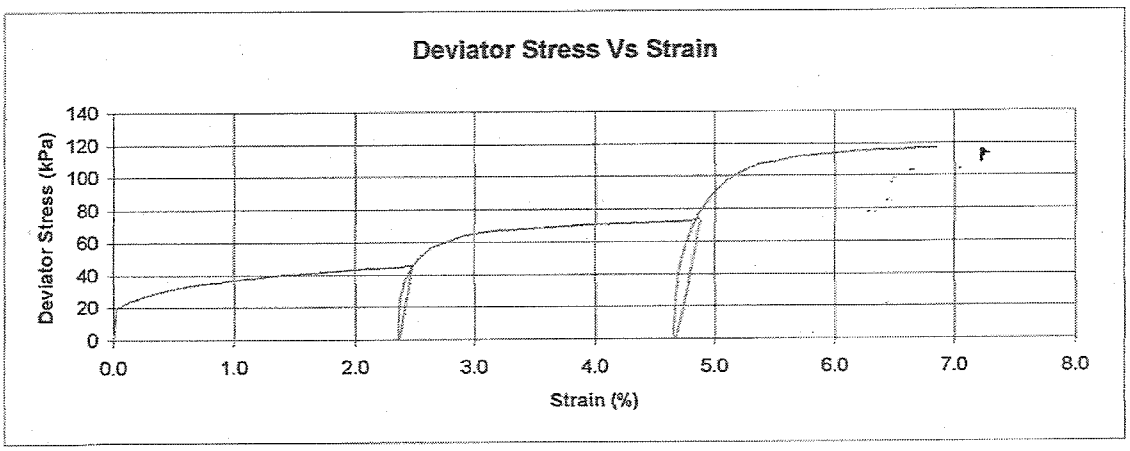
Lab No: 53780 **Sample Source:** BHMW02 3.0-3.5m

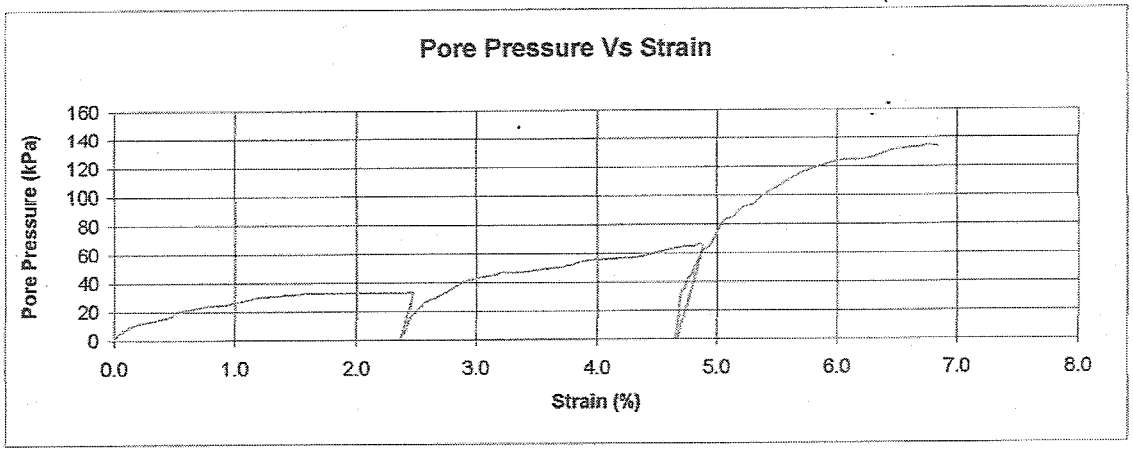
Test procedure: AS 1289 6.4.2 Determination of compressive strength of soil - Compressive strength of a saturated specimen tested in undrained triaxial compression with measurement of pore water pressure.

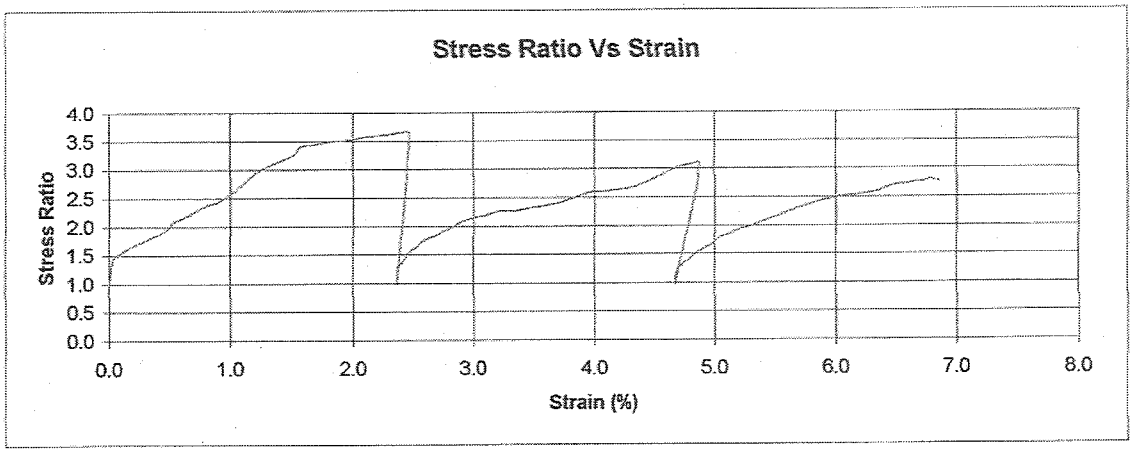
EFFECTIVE STRESS TRIAXIAL TEST REPORT

CLIENT: **URS**
Level 3, 116 Miller Street North Sydney NSW 2060

PROJECT: **Costco 43217997**







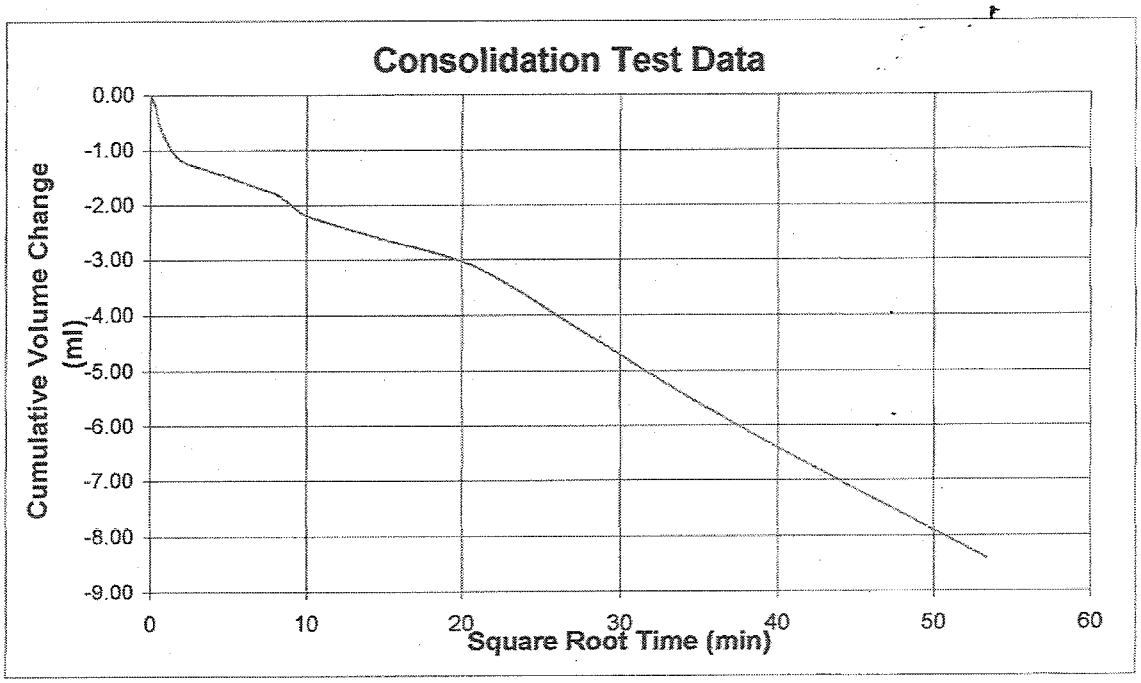
Lab No: 53780 **Sample Source:** BHMW02 3.0-3.5m

Test procedure: AS 1289 6.4.2 Determination of compressive strength of soil - Compressive strength of a saturated specimen tested in undrained triaxial compression with measurement of pore water pressure.

EFFECTIVE STRESS TRIAXIAL TEST REPORT

CLIENT: **URS**
Level 3, 116 Miller Street North Sydney NSW 2060

PROJECT: **Costco 43217997**



Sample Source: BHMW02 3.0-3.5m Lab No: 53780

Drainage Conditions: Bottom, Side

	Stage 1
Net Cell Pressure (kPa):	50
Time for 100% Consolidation (min):	400
Coefficient of Consolidation (m^2/yr):	0.15
B Bar Response:	1.00

Rate Of Strain (mm/min): 0.001

Test procedure: AS 1289 6.4.2 Determination of compressive strength of soil - Compressive strength of a saturated specimen tested in undrained triaxial compression with measurement of pore water pressure.

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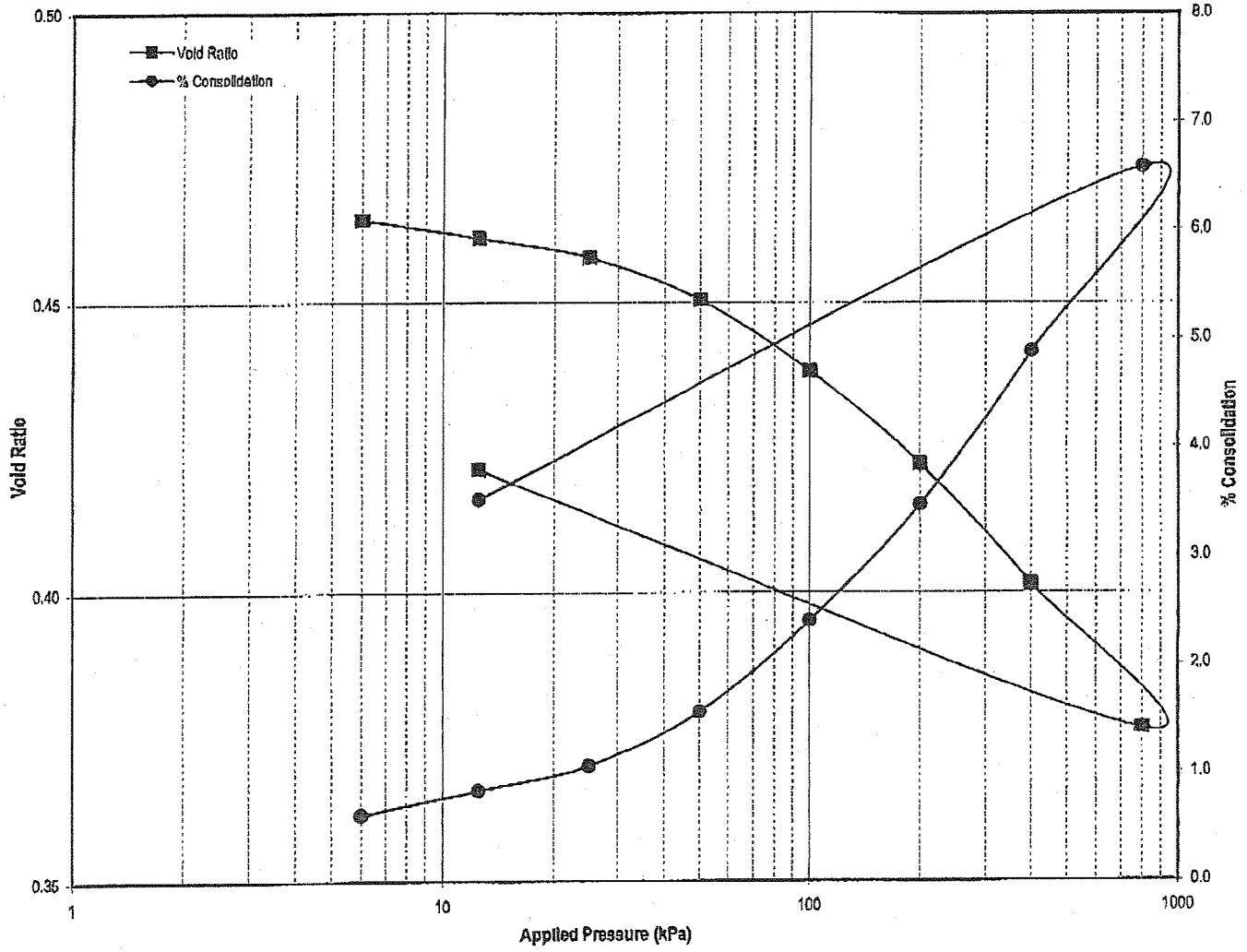
OEDOMETER TEST REPORT

Test Method: AS1289.6.6.1

Client:	URS	**Lab No.:**	52826
Project:	43217997	**Test Date:**	22.6.09
		Report Date:	1.7.09
Client Id.:	BH12	**Depth (m):**	3.4-3.8m

Description: SILTY CLAY: mottled grey & dark-grey, low plasticity, with fine sand.



Dry Density (t/m^3): 1.80	Initial Moisture (%): 17.9	Test Condition: Inundated on load
Assumed Particle Density (t/m^3): 2.65	Initial Voids Ratio: 0.473	Initial Degree of Saturation (%): 100.2
Undisturbed sample supplied by the client	Remarks:	Page 1 of 2

Signed: ..... Name: C Lloyd

Title: Lab Date: 1/7/09

0295973442

OEDOMETER TEST REPORT

Test Method: AS1289.6.6.1

Client:	URS	**Lab No.:**	52826
Project:	43217997	**Test Date:**	22.6.09
		Report Date:	1.7.09
Client Id.:	BH12	**Depth (m):**	3.4-3.8m

Description: SILTY CLAY: mottled grey & dark-grey, low plasticity, with fine sand.

TEST RESULTS

Stage	Load (kPa)	Cc	Cv (m^2/yr) t_{50}	Cv (m^2/yr) t_{90}	Mv ($kPa^{-1}x10^{-3}$)	C_α x 10^{-3}	% Consolidation
1	6-12.5	0.010	6.16	12.15	0.339	0.00	0.8
2	12.5-25	0.011	0.63	2.56	0.185	0.25	1.1
3	25-50	0.024	1.10	2.50	0.201	0.62	1.6
4	50-100	0.041	1.77	3.88	0.171	0.56	2.4
5	100-200	0.053	2.31	3.49	0.110	1.09	3.5
6	200-400	0.069	2.65	3.74	0.073	0.91	4.9
7	400-800	0.083	4.68	8.71	0.045	1.13	6.6
8	800-12.5	-	-	-	-	-	3.5

Remarks:

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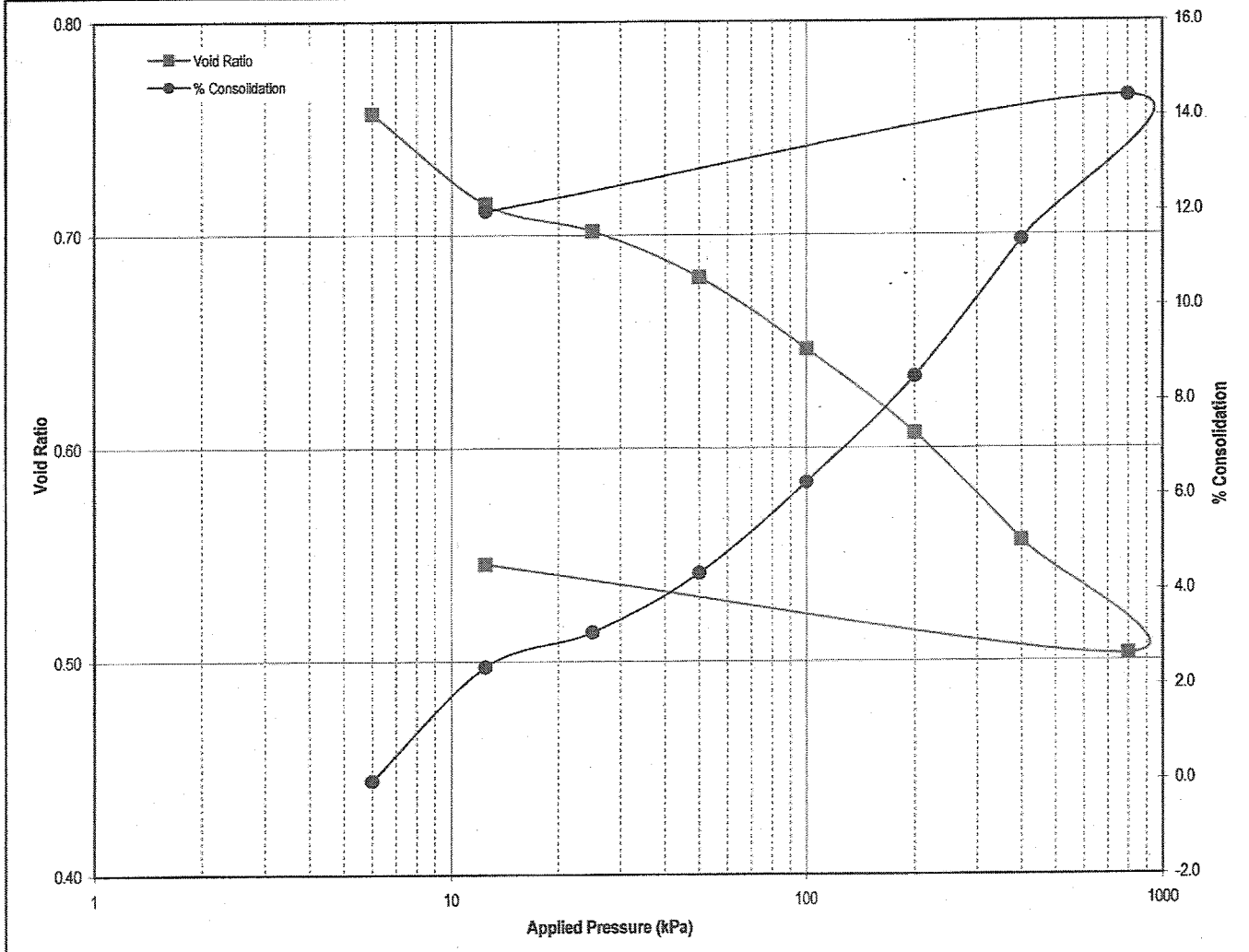
OEDOMETER TEST REPORT

Test Method: AS1289.6.6.1

Client: URS	**Lab No.:** 53780
Project: Costco	**Test Date:** 4.8.09
	Report Date: 17.8.09
Client Id.: 43217997	**Depth (m):** BHMW02 3.0-3.5m

Description: SILTY CLAY: mottled grey & brown, low plasticity, with fine to coarse sand.



Dry Density (t/m^3): 1.51	Initial Moisture (%): 30.9	Test Condition: Inundated on load
Assumed Particle Density (t/m^3): 2.65	Initial Voids Ratio: 0.756	Initial Degree of Saturation (%): 108.5
Undisturbed sample supplied by the client	Remarks:	Page 1 of 2

Signed: .....

Title: .....

Name: C Lloyd

Date: 17/8/09

OEDOMETER TEST REPORT

Test Method: AS1289.6.6.1

Client:	URS	**Lab No.:**	53780
Project:	Costco	**Test Date:**	4.8.09
		Report Date:	17.8.09
Client Id.:	43217997	**Depth (m):**	BHMW02 3.0-3.5m

Description: SILTY CLAY: mottled grey & brown, low plasticity, with fine to coarse sand.

TEST RESULTS

Stage	Load (kPa)	Cc	Cv (m^2/yr) t_{50}	Cv (m^2/yr) t_{90}	Mv ($kPa^{-1}x10^{-3}$)	C_a x 10^{-3}	% Consolidation
1	6-12.5	0.132	0.95	1.62	3.690	1.06	2.4
2	12.5-25	0.042	0.68	1.70	0.595	1.06	3.1
3	25-50	0.073	0.73	2.60	0.514	0.76	4.4
4	50-100	0.112	1.12	3.04	0.401	1.90	6.3
5	100-200	0.130	1.25	2.49	0.238	3.21	8.5
6	200-400	0.168	1.56	3.47	0.157	3.12	11.4
7	400-800	0.177	2.16	3.48	0.085	2.85	14.4
8	800-12.5	-	-	-	-	-	12.0

Remarks:

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POINT LOAD STRENGTH INDEX TEST REPORT

CLIENT: URS
Level 3, 116 Miller street, North Sydney 2060
PROJECT: 43217997

LAB. NO.	SAMPLE SOURCE BH 7	LITHOLOGY	PLATEN SEPARATION DIAM (mm)	PLATEN SEPARATION HEIGHT (mm)	MOISTURE CONTENT (%)	DRY DENSITY (t/m^3)	TEST ORIENTATION	POINT LOAD STRENGTH Is (MPa)	POINT LOAD STRENGTH Is 50 (MPa)
52828	8.67m	Siltstone	51.5	38.9	N/A "	N/A "	Diametral Axial	0.29 0.34	0.29 0.34
52829	9.29m	Siltstone	51.5	46.6	N/A "	N/A "	Diametral Axial	0.42 0.31	0.43 0.33

NOTES TO TESTING

Testing Device: ELE Point Load Tester
Sample History: Unsoaked
Sampled by: Client
Job Number: 119-226
Date Tested: 9.06.09
Test method: AS 4133.4.1 1993

Form R04 File C:\Excel Reports\Point Load Strength Index Issue 4 September 2001 CWS

Signed: .....
Title: LM
Name: C. Lloyd
Date: 1/7/09

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POINT LOAD STRENGTH INDEX TEST REPORT

CLIENT: URS
Level 3, 116 Miller street, North Sydney 2060
PROJECT: 43217997

LAB. NO.	SAMPLE SOURCE	LITHOLOGY	PLATEN SEPARATION		MOISTURE CONTENT	DRY DENSITY	TEST ORIENTATION	POINT LOAD STRENGTH	POINT LOAD STRENGTH
			DIAM	HEIGHT					
	BH 14		(mm)	(mm)	(%)	(t/m^3)		Is (MPa)	Is 50 (MPa)
52830	8.51m	Siltstone	51.4		N/A	N/A	Diametral	0.09	0.09
				44.5	"	"	Axial	0.32	0.33
52831	9.56m	Siltstone	51.4		N/A	N/A	Diametral	0.27	0.28
				48.7	"	"	Axial	0.63	0.67

NOTES TO TESTING

Testing Device: ELE Point Load Tester
Sample History: Unsoaked
Sampled by: Client
Job Number: 119-226
Date Tested: 9.06.09
Test method: AS 4133.4.1 1993

Page 1 of 1

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Signed: .....
Title: LM
Name: E. Lloyd
Date: 1/7/09

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AUSTRALIAN SOIL TESTING PTY LTD. A.B.N. 79 003 493 523
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POINT LOAD STRENGTH INDEX TEST REPORT

CLIENT: URS
Level 3, 116 Miller street, North Sydney 2060
PROJECT: 43217997

LAB. NO.	SAMPLE SOURCE	LITHOLOGY	PLATEN SEPARATION		MOISTURE CONTENT	DRY DENSITY	TEST ORIENTATION	POINT LOAD STRENGTH	POINT LOAD STRENGTH
			DIAM	HEIGHT					
	BH 22		(mm)	(mm)	(%)	(t/m^3)		Is (MPa)	Is 50 (MPa)
52832	7.08m	Siltstone	51.2		N/A	N/A	Diametral	0.72	0.73
				38.8	"	"	Axial	0.60	0.60
52833	8.05m	Siltstone	51.3		N/A	N/A	Diametral	0.50	0.51
				34.8	"	"	Axial	0.50	0.49

NOTES TO TESTING

Testing Device: ELE Point Load Tester
Sample History: Unsoaked
Sampled by: Client
Job Number: 119-226
Date Tested: 9.06.09
Test method: AS 4133.4.1 1993

Form R04 File C:\Excel Reports\Point Load Strength Index Issue 4 September 2001 CWS

Signed: .....
Title: .....
Name: C. Lloyd
Date: 1/7/09

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POINT LOAD STRENGTH INDEX TEST REPORT

CLIENT: URS
Level 3, 116 Miller Street, North Sydney, NSW 2060

PROJECT: 43217997

LAB. NO.	SAMPLE SOURCE BH MW03D	LITHOLOGY	PLATEN SEPARATION DIAM (mm)	PLATEN SEPARATION HEIGHT (mm)	TEST ORIENTATION	POINT LOAD STRENGTH Is (MPa)	POINT LOAD STRENGTH $Is_{(50)}$ (MPa)
53828	5.83m	Siltstone	58.47	41.53	Diametral Axial	0.03 0.09	0.03 0.09
53829	8.73m	Siltstone	59.87	50.81	Diametral Axial	0.39 0.27	0.43 0.30
53830	11.34m	Siltstone	60.15	46.49	Diametral Axial	0.27 0.62	0.29 0.67

NOTES TO TESTING

Testing Device:	ELE Point Load Tester
Sample History:	Unsoaked
Sampled by:	Client
Job Number:	119-226-3
Date Tested:	04.08.09
Test method:	AS 4133.4.1 2007

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Signed: .....
Title: .....

Name: Lloyd
Date: 10/8/09

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POINT LOAD STRENGTH INDEX TEST REPORT

CLIENT: URS
Level 3, 116 Miller Street, North Sydney, NSW 2060

PROJECT: 43217997

LAB. NO.	SAMPLE SOURCE BH MW04D	LITHOLOGY	PLATEN SEPARATION DIAM (mm)	PLATEN SEPARATION HEIGHT (mm)	TEST ORIENTATION	POINT LOAD STRENGTH Is (MPa)	POINT LOAD STRENGTH $Is_{(50)}$ (MPa)
53831	9.21m	Siltstone	58.47	41.53	Diametral Axial	0.03 0.09	0.03 0.09
53832	9.88m	Siltstone	59.93	47.07	Diametral Axial	0.33 0.63	0.36 0.69
53833	11.62m	Siltstone	59.96	43.21	Diametral Axial	0.55 0.78	0.59 0.83

NOTES TO TESTING

Testing Device:	ELE Point Load Tester
Sample History:	Unsoaked
Sampled by:	Client
Job Number:	119-226-3
Date Tested:	04.08.09
Test method:	AS 4133.4.1 2007

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Signed: .....
Title: LM

Name: Lloyd
Date: 10/8/09

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POINT LOAD STRENGTH INDEX TEST REPORT

CLIENT: URS
Level 3 Miller Street, North Sydney, NSW 2060

PROJECT: 43217997

LAB. NO.	SAMPLE SOURCE BH MW01D	LITHOLOGY	PLATEN SEPARATION DIAM (mm)	PLATEN SEPARATION HEIGHT (mm)	TEST ORIENTATION	POINT LOAD STRENGTH Is (MPa)	POINT LOAD STRENGTH $Is_{(50)}$ (MPa)
53751	8.18-8.40m	Siltstone	60.65	45.64	Diametral Axial	0.15 0.37	0.17 0.40
53752	9.77-9.96m	Siltstone	60.66	54.08	Diametral Axial	0.53 0.18	0.58 0.21
53753	11.45-11.55m	Siltstone	60.79	53.59	Diametral Axial	0.48 0.36	0.53 0.40
53754	14.76-15.04m	Siltstone	60.87	46.81	Diametral Axial	0.68 0.58	0.74 0.63

NOTES TO TESTING

Testing Device:	ELE Point Load Tester
Sample History:	Unsoaked
Sampled by:	Client
Job Number:	119-226-2
Date Tested:	30.07.09
Test method:	AS 4133.4.1 2007

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Signed: .....
Title: LM
Name: C. Lloyd
Date: 10/8/09

AUSTRALIAN SOIL TESTING PTY LTD. A.B.N: 79 003 493 623

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POINT LOAD STRENGTH INDEX TEST REPORT

CLIENT: URS
Level 3, 116 Miller Street, North Sydney, NSW 2060

PROJECT: 43217997

LAB. NO.	SAMPLE SOURCE BH MW02D	LITHOLOGY	PLATEN SEPARATION DIAM (mm)	PLATEN SEPARATION HEIGHT (mm)	TEST ORIENTATION	POINT LOAD STRENGTH Is (MPa)	POINT LOAD STRENGTH $Is_{(50)}$ (MPa)
53785	7.73-7.88m	Siltstone	60.75	57.27	Diametral Axial	0.66 0.37	0.72 0.42
53756	9.00-9.10m	Siltstone	60.83	51.05	Diametral Axial	0.01 0.41	0.01 0.46
53757	10.60-10.79m	Siltstone	60.9	44.97	Diametral Axial	0.87 0.79	0.95 0.85
53758	12.85-13.00m	Siltstone	60.82	44.3	Diametral Axial	0.25 1.33	0.27 1.43
53759	14.16-14.32m	Siltstone	60.8	56.35	Diametral Axial	0.69 0.66	0.76 0.75

NOTES TO TESTING

Testing Device:	ELE Point Load Tester
Sample History:	Unsoaked
Sampled by:	Client
Job Number:	119-226-2
Date Tested:	30.07.09
Test method:	AS 4133.4.1 2007

Form R04 File C:\Excel Reports\Point Load Strength Index Issue 4 September 2001 CWS

Signed: ..... Name: C. Lloyd

Title: LH Date: 10/8/09

Laboratory Acid Sulfate Soils Analytical Results
17-21 Parramatta Road, Lidcombe, NSW
URS Job No. 43217997

Primary Sample Location	MW01D_3.5_25/07/09	MW01D_4.0_25/07/09	MW01D_6.0_25/07/09	MW02D_1.8_26/07/09	MW02D_2.9_26/07/09	MW02D_4.6_26/07/09
Sample ID	MW01D_3.5_25/07/09	MW01D_4.0_25/07/09	MW01D_6.0_25/07/09	MW02D_1.8_26/07/09	MW02D_2.9_26/07/09	MW02D_4.6_26/07/09
Date Sampled	25/07/2009	25/07/2009	25/07/2009	26/07/2009	26/07/2009	26/07/2009
Sample Type	PS	PS	PS	PS	PS	PS

Analyte grouping/Analyte	LOR	Units						
EA029-A: pH Measurements								
pH KCl (23A)	0.1	pH Unit	**5.7**	**5.4**	**5.3**	**5.4**	**4.1**	**6.7**
pH OX (23B)	0.1	pH Unit	**6.9**	**4.8**	**2.9**	**4.2**	**3.9**	**2.1**
EA029-B: Acidity Trail								
Titratable Actual Acidity (23F)	2	mole H+ / t	**6**	**20**	**11**	**14**	**39**	<2
Titratable Peroxide Acidity (23G)	2	mole H+ / t	<2	**102**	**268**	**102**	**52**	**1280**
Titratable Sulfidic Acidity (23H)	2	mole H+ / t	<2	**82**	**257**	**88**	**13**	**1280**
sulfidic - Titratable Actual Acidity (s-23F)	0.02	% pyrite S	<0.02	**0.03**	<0.02	**0.02**	**0.06**	<0.02
sulfidic - Titratable Peroxide Acidity (s-23G)	0.02	% pyrite S	<0.02	**0.16**	**0.43**	**0.16**	**0.08**	**2.04**
sulfidic - Titratable Sulfidic Acidity (s-23H)	0.02	% pyrite S	<0.02	**0.13**	**0.41**	**0.14**	**0.02**	**2.04**
EA029-C: Sulfur Trail								
KCl Extractable Sulfur (23Ce)	0.02	% S	<0.02	<0.02	**0.02**	<0.02	**0.04**	**0.1**
Peroxide Sulfur (23De)	0.02	% S	<0.02	**0.05**	**0.58**	**0.16**	**0.08**	**2.28**
Peroxide Oxidisable Sulfur (23E)	0.02	% S	<0.02	**0.05**	**0.56**	**0.16**	**0.04**	**2.19**
acidity - Peroxide Oxidisable Sulfur (a-23E)	10	mole H+ / t	<10	**33**	**348**	**98**	**25**	**1360**
EA029-D: Calcium Values								
KCl Extractable Calcium (23Vh)	0.02	% Ca	**0.1**	**0.16**	**0.04**	**0.08**	<0.02	**0.15**
Peroxide Calcium (23Wh)	0.02	% Ca	**0.12**	**0.2**	**0.08**	**0.12**	**0.02**	**0.2**
Acid Reacted Calcium (23X)	0.02	% Ca	**0.03**	**0.04**	**0.04**	**0.05**	<0.02	**0.04**
acidity - Acid Reacted Calcium (a-23X)	10	mole H+ / t	**14**	**19**	**20**	**24**	<10	**23**
sulfidic - Acid Reacted Calcium (s-23X)	0.02	% S	**0.02**	**0.03**	**0.03**	**0.04**	<0.02	**0.04**
EA029-E: Magnesium Values								
KCl Extractable Magnesium (23Sm)	0.02	% Mg	**0.03**	**0.04**	**0.06**	**0.03**	**0.03**	**0.11**
Peroxide Magnesium (23Tm)	0.02	% Mg	**0.03**	**0.04**	**0.09**	**0.04**	**0.03**	**0.12**
Acid Reacted Magnesium (23U)	0.02	% Mg	<0.02	<0.02	**0.03**	<0.02	<0.02	<0.02
Acidity - Acid Reacted Magnesium (a-23U)	10	mole H+ / t	<10	<10	**23**	<10	<10	<10
sulfidic - Acid Reacted Magnesium (s-23U)	0.02	% S	<0.02	<0.02	**0.04**	<0.02	<0.02	<0.02
EA029-F: Excess Acid Neutralising Capacity								
Excess Acid Neutralising Capacity (23Q)	0.02	% CaCO3	**0.08**	-	-	-	-	-
acidity - Excess Acid Neutralising Capacity (	10	mole H+ / t	**17**	-	-	-	-	-
sulfidic - Excess Acid Neutralising Capacity (	0.02	% S	**0.03**	-	-	-	-	-
EA029-G: Retained Acidity								
Net Acid Soluble Sulfur (20Je)	0.02	% S	-	-	-	-	**0.02**	-
acidity - Net Acid Soluble Sulfur (a-20J)	10	mole H+ / t	-	-	-	-	<10	-
sulfidic - Net Acid Soluble Sulfur (s-20J)	0.02	% pyrite S	-	-	-	-	<0.02	-
HCl Extractable Sulfur (20Be)	0.02	% S	-	-	-	-	**0.06**	-
EA029-H: Acid Base Accounting								
ANC Fineness Factor	0.5		**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**
Net Acidity (sulfur units)	0.02	% S	<0.02	**0.08**	**0.58**	**0.18**	**0.12**	**2.09**
Net Acidity (acidity units)	10	mole H+ / t	<10	**52**	**359**	**111**	**74**	**1300**
Liming Rate	1	kg CaCO3/t	<1	**4**	**27**	**8**	**6**	**98**

Legend
PS : Primary Sample
LD : Laboratory Duplicate
- : Not analysed

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