

APPENDIX B3:F

Geotechnical laboratory test reports



**BRISBANE
LABORATORY**

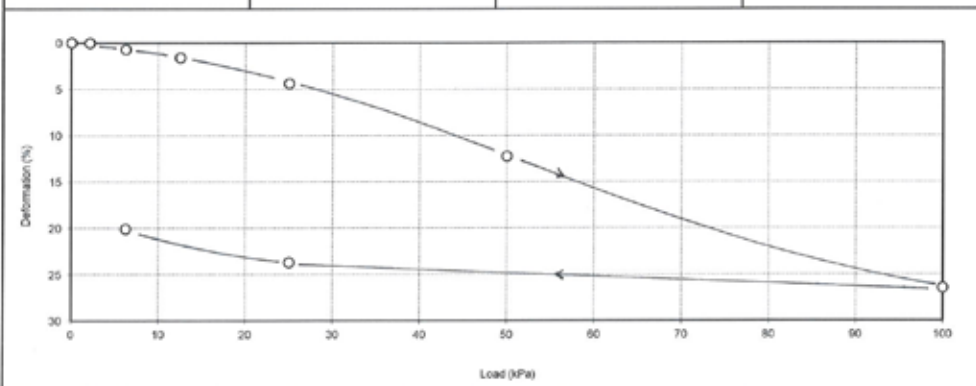
28 Bank Street, West End QLD 4101
PO Box 3427 South Brisbane BC QLD 4101
Phone:(07) 3840 9500 Fax:(07) 3840 9501
www.golder.com.au

CONSOLIDATION TEST SUMMARY

Client :	Sunshine Coast Council	Report No. :	R13892
Address :	11-13 Ocean Street, Maroochydore	Job No. :	127683017
Project :	Sunshine Coast Airport Expansion	Reg'n No. :	12304333
Location :	BH5-U50-001 (2.0 - 2.4m)	Sample No. :	
		Sampled By :	Golder

SPECIMEN DETAILS			
Date Received	11-September-2012	Date Sampled	
Type of Sample	Undisturbed	Specimen Dimensions	15mm x 45mm dia.
Initial Dry Density (t/m ³)	0.683	Type of Test	Saturated
Initial Moisture Content (%)	103.1	Particle Density (t/m ³)	2.70 assumed
Degree of Saturation (%)	94	Swell Pressure (kPa)	0

TEST RESULTS			
Pressure Range (kPa)	Coefficient of Compressibility (M _v) m ² /kN	Coefficient of Consolidation (C _v) m ² /year	Total Consolidation (%)
0 - 2.1	1.3E-04	-	0.0
2.1 - 6.25	1.7E-03	1.45	0.7
6.25 - 12.5	1.4E-03	0.95	1.6
12.5 - 25	2.3E-03	1.00	4.4
25 - 50	3.3E-03	0.18	12.3
50 - 100	3.2E-03	0.17	26.5
100 - 25	5.0E-04	-	23.7
25 - 6.25	2.5E-03	-	20.1



Remarks :

Test Procedure : AS1289.6.6.1

Prepared by *NF* Checked by *clt*

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NATA Nick Farrer Approved Signatory

Nhm 21/9/11 Senior Technical Officer NATA Accred. No. : 1961

Golder Form No. R11 Consol Log Time
RL4 - 21/07/11

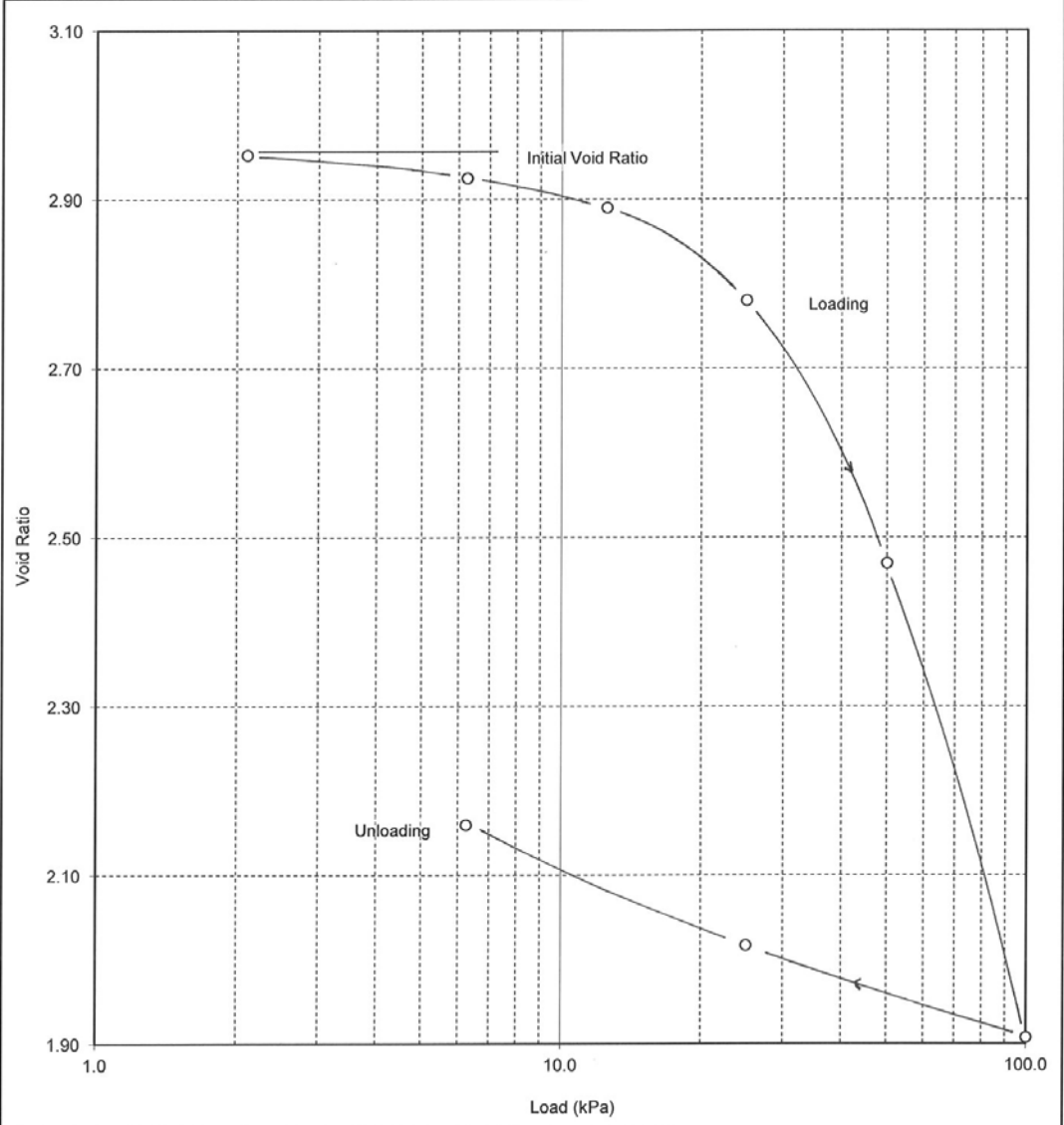


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CONSOLIDATION TEST Void Ratio Vs. Log Pressure

Client :	Sunshine Coast Council	Report No. :	R13892
Address :	11-13 Ocean Street, Maroochydore	Job No. :	127683017
Project :	Sunshine Coast Airport Expansion	Reg'n No. :	12304333
Location :	BH5-U50-001 (2.0 - 2.4m)	Sample No. :	
		Sampled By :	Golder



Test Procedure : AS1289.6.6.1
 Prepared by *MF* | Checked by *GA*

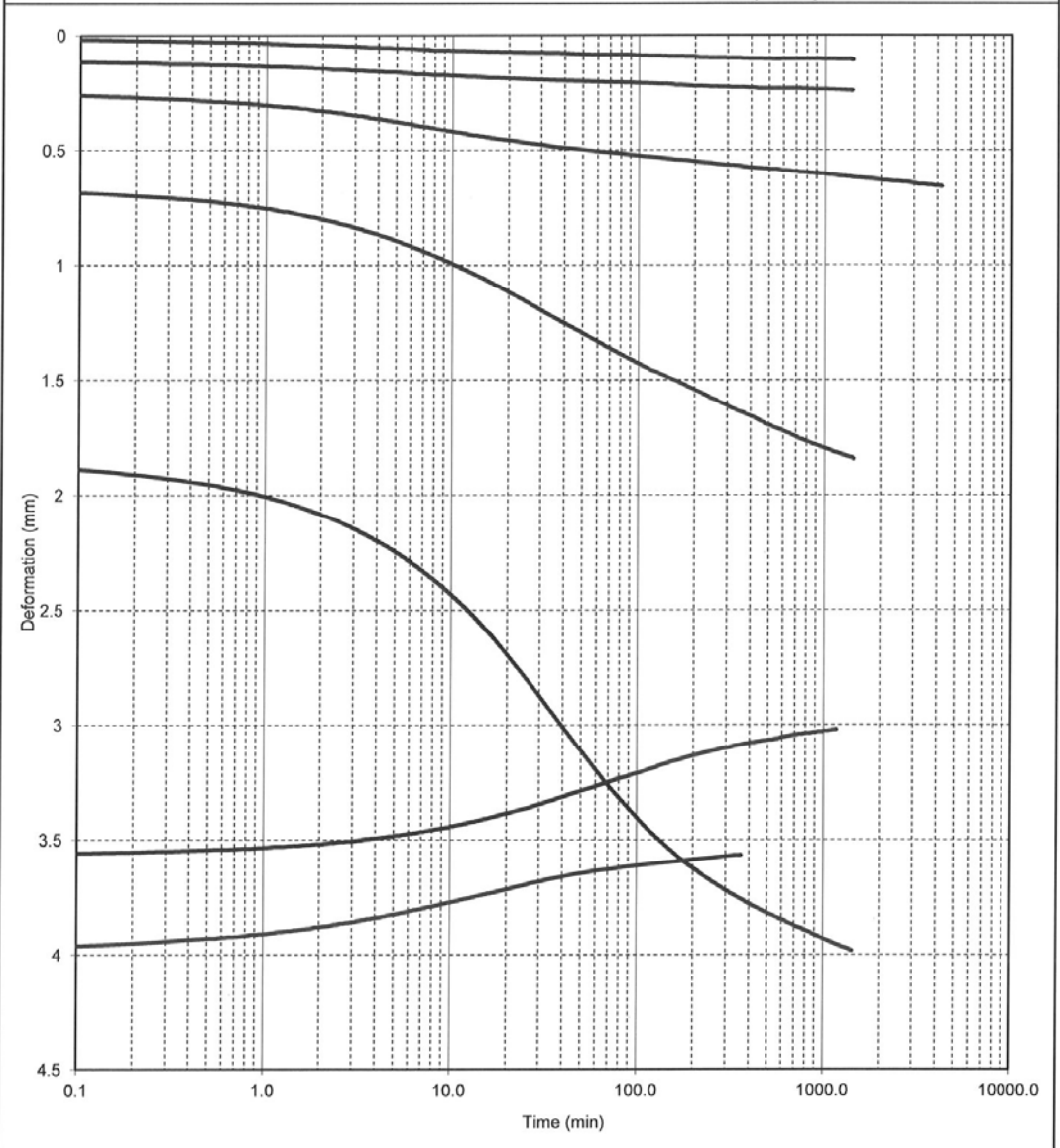


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CONSOLIDATION TEST Deformation Vs. Log Time

Client :	Sunshine Coast Council	Report No. :	R13892
Address :	11-13 Ocean Street, Maroochydore	Job No. :	127683017
Project :	Sunshine Coast Airport Expansion	Reg'n No. :	12304333
Location :	BH5-U50-001 (2.0 - 2.4m)	Sample No. :	
		Sampled By :	Golder



Test Procedure : AS1289.6.6.1
 Prepared by *MF* | Checked by *W*



**BRISBANE
LABORATORY**

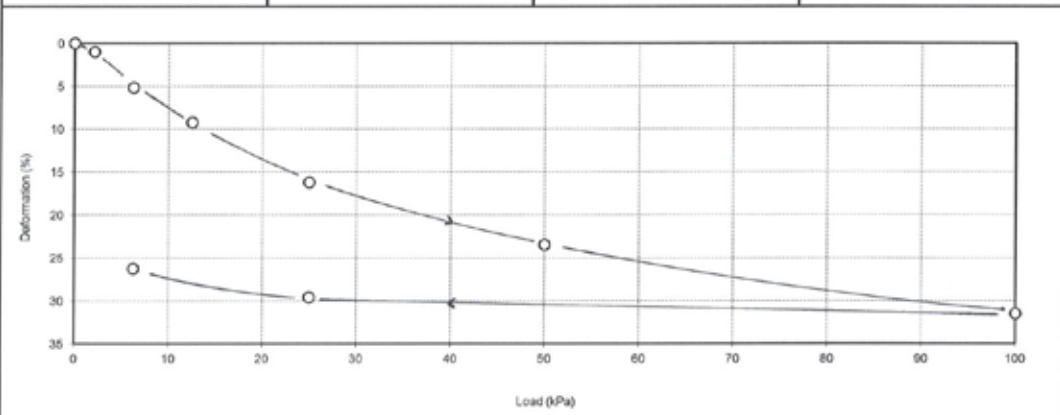
28 Bank Street, West End QLD 4101
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CONSOLIDATION TEST SUMMARY

Client :	Sunshine Coast Council	Report No. :	R13893
Address :	11-13 Ocean Street, Maroochydore	Job No. :	127683017
Project :	Sunshine Coast Airport Expansion	Reg'n No. :	12304334
Location :	BH7-U50-001 (2.0 - 2.2m)	Sample No. :	
		Sampled By :	Golder

SPECIMEN DETAILS			
Date Received	11-September-2012	Date Sampled	
Type of Sample	Undisturbed	Specimen Dimensions	15mm x 45mm dia.
Initial Dry Density (t/m ³)	0.818	Type of Test	Saturated
Initial Moisture Content (%)	81.1	Particle Density (t/m ³)	2.70 assumed
Degree of Saturation (%)	95	Swell Pressure (kPa)	0

TEST RESULTS			
Pressure Range (kPa)	Coefficient of Compressibility (M _v) m ² /kN	Coefficient of Consolidation (C _v) m ² /year	Total Consolidation (%)
0 - 2.1	4.7E-03	-	1.0
2.1 - 6.25	1.0E-02	0.24	5.2
6.25 - 12.5	6.8E-03	0.13	9.2
12.5 - 25	6.1E-03	0.16	16.2
25 - 50	3.5E-03	0.13	23.5
50 - 100	2.1E-03	0.17	31.5
100 - 25	3.7E-04	-	29.6
25 - 6.25	2.5E-03	-	26.2



Remarks :

Test Procedure : AS1289.6.6.1

Prepared by *NK* Checked by *GH*

This document is issued in accordance with NATA's accreditation requirements.



Nick Farrer
Approved Signatory

NK 21/9/11

Senior Technical Officer
NATA Accred. No. : 1961

Golder Form No. R11 Consol Log Time
RL4 - 21/07/11

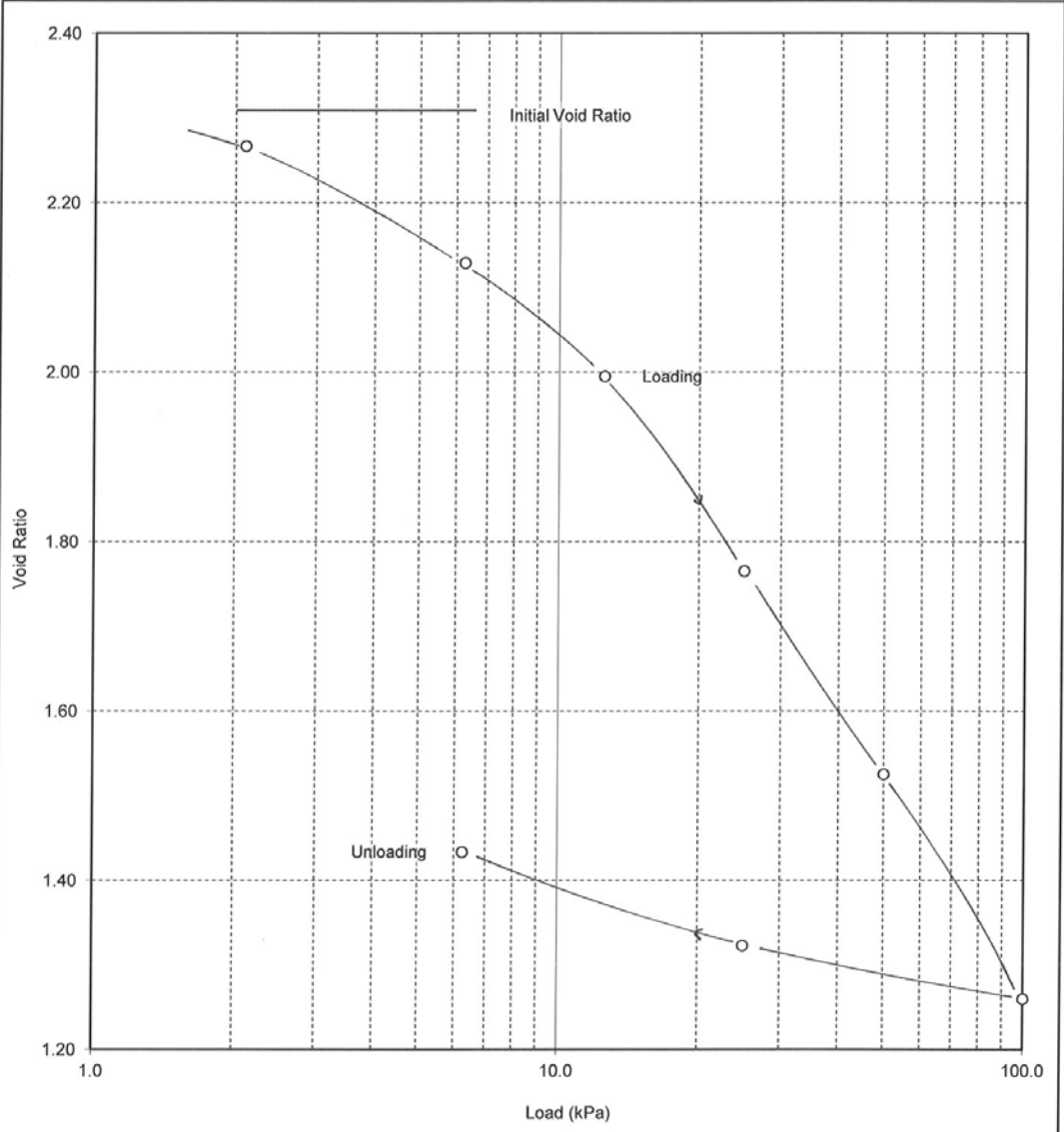


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CONSOLIDATION TEST Void Ratio Vs. Log Pressure

Client :	Sunshine Coast Council	Report No. :	R13893
Address :	11-13 Ocean Street, Maroochydore	Job No. :	127683017
Project :	Sunshine Coast Airport Expansion	Reg'n No. :	12304334
Location :	BH7-U50-001 (2.0 - 2.2m)	Sample No. :	
		Sampled By :	Golder



Test Procedure : AS1289.6.6.1
 Prepared by *MT* | Checked by *AL*

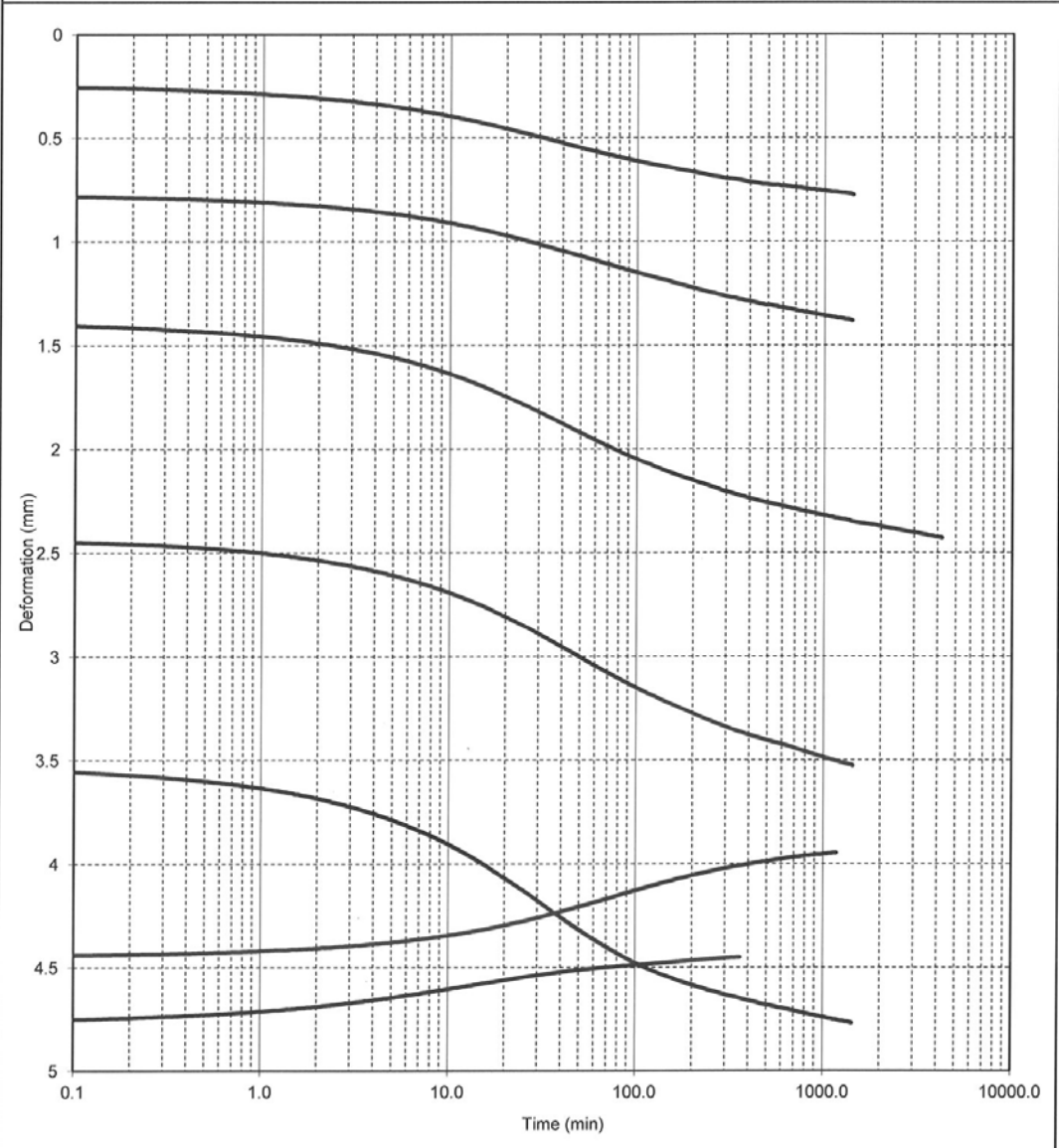


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CONSOLIDATION TEST Deformation Vs. Log Time

Client :	Sunshine Coast Council	Report No. :	R13893
Address :	11-13 Ocean Street, Maroochydore	Job No. :	127683017
Project :	Sunshine Coast Airport Expansion	Reg'n No. :	12304334
Location :	BH7-U50-001 (2.0 - 2.2m)	Sample No. :	
		Sampled By :	Golder



Test Procedure : AS1289.6.6.1
 Prepared by *MF* | Checked by *GH*

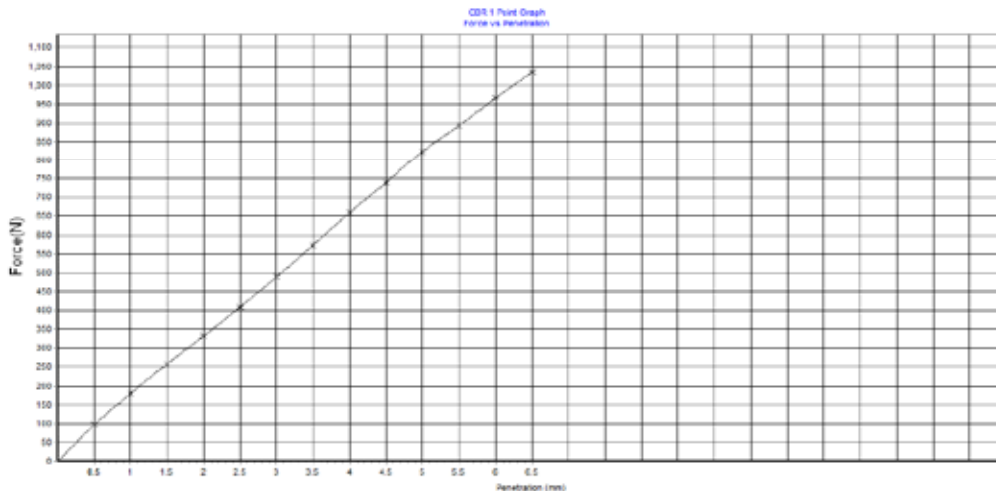
APPENDIX B3:F



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California Bearing Ratio Report (1 Point)

Client: Golder Associates Pty. Ltd.	Report Number: G12004 - 101/1
Client address: P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date: 11/09/2012
Job Number: G12004	Order Number:
Project: Laboratory Testing	Page 1 of 1
Location: Project No:127683017 , Sunshine Coast Airport Upgrade	Sample Location
Lab No: 94865	Test Pit 17
Date Sampled: 31/08/2012	Depth 0.0 - 0.3m
Date Tested: 11/09/2012	Supplied 06/09/12
Sampled By: Client	Test Method : AS1289.6.1.1
Sample Method: N/A	Lot Number: -
Material Source: Site	Item Number: -
For Use As: -	
Remarks: -	



Maximum Dry Density - MDD (t/m ³) :	1.770	Dry Density after Soak (t/m ³) :	1.728
Optimum Moisture Content - OMC (%) :	15.1	Moisture Content after Soak (%) :	19.9
Compactive Effort :	Standard	Density Ratio after Soak (%) :	98
Nominated % Maximum Dry Density Compaction :	100	Field Moisture Content (%) :	27.6
Nominated % Optimum Moisture Content Compaction :	100	Moisture Content (Top) after Penetration (%) :	-
Achieved Dry Density before Soak (t/m ³) :	1.771	Moisture Content (Total) after Penetration (%) :	-
Achieved Percentage of Maximum Dry Density (%) :	100	CBR 2.5mm (%) :	3.0
Achieved Moisture Content (%) :	15.0	CBR 5.0mm (%) :	4.0
Achieved Percentage of Optimum Moisture Content (%) :	99	Minimum Specified CBR Value (%) :	-
Test Condition (Soaked/Unsoaked) / Soaking Period (Days) :	Soaked / 4 days	CBR Value (%) :	4.0
Swell (%) / Surcharge (kg):	2.5 / 4.5 kg		

Soil Description : Silty Sandy Clay(CI)-medium plasticity, grey brown/brown, fine to medium sand



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Approved Signatory

Form Number

REP ACBR_1_3-3

Mel Burnett
NATA Accred No:1551

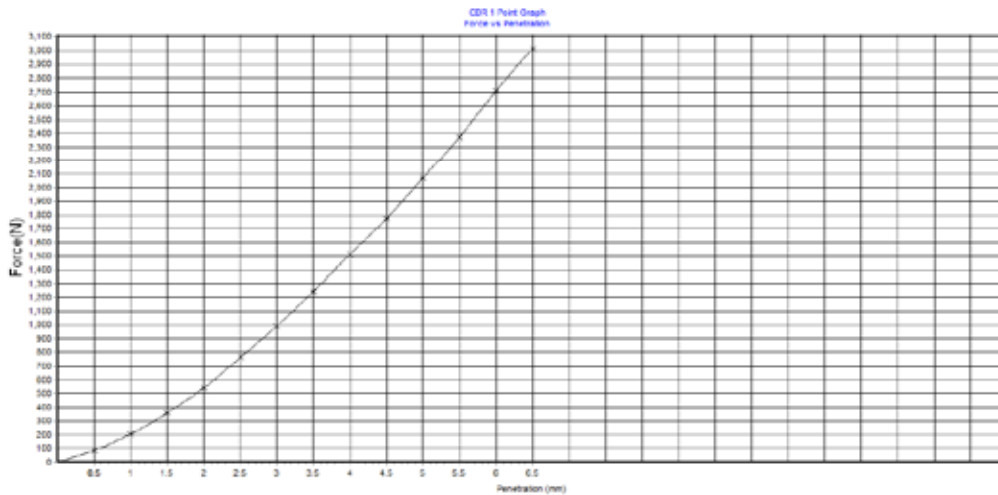
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California Bearing Ratio Report (1 Point)

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 98/1
Client address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	11/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94862	Sample Location	
Date Sampled:	31/08/2012	Test Pit 2	
Date Tested:	11/09/2012	Depth 0.0 - 0.3m	
Sampled By:	Client	Supplied 06/09/12	
Sample Method:	N/A	Test Method :	AS1289.6.1.1
Material Source:	Site	Lot Number:	-
For Use As:	-	Item Number :	-
Remarks:	-		



Maximum Dry Density - MDD (t/m ³) :	1.591	Dry Density after Soak (t/m ³) :	1.600
Optimum Moisture Content - OMC (%) :	16.6	Moisture Content after Soak (%) :	18.1
Compactive Effort :	Standard	Density Ratio after Soak (%) :	101
Nominated % Maximum Dry Density Compaction :	100	Field Moisture Content (%) :	3.2
Nominated % Optimum Moisture Content Compaction :	100	Moisture Content (Top) after Penetration (%) :	-
Achieved Dry Density before Soak (t/m ³) :	1.597	Moisture Content (Total) after Penetration (%) :	-
Achieved Percentage of Maximum Dry Density (%) :	100	CBR 2.5mm (%) :	6
Achieved Moisture Content (%) :	16.5	CBR 5.0mm (%) :	11
Achieved Percentage of Optimum Moisture Content (%) :	99	Minimum Specified CBR Value (%) :	-
Test Condition (Soaked/Unsoaked) / Soaking Period (Days) :	Soaked / 4 days	CBR Value (%) :	11.0
Swell (%) / Surcharge (kg):	-0.2 / 4.5 kg		

Soil Description : Sand(SP)-fine to medium grained,dark grey,low plasticity fines

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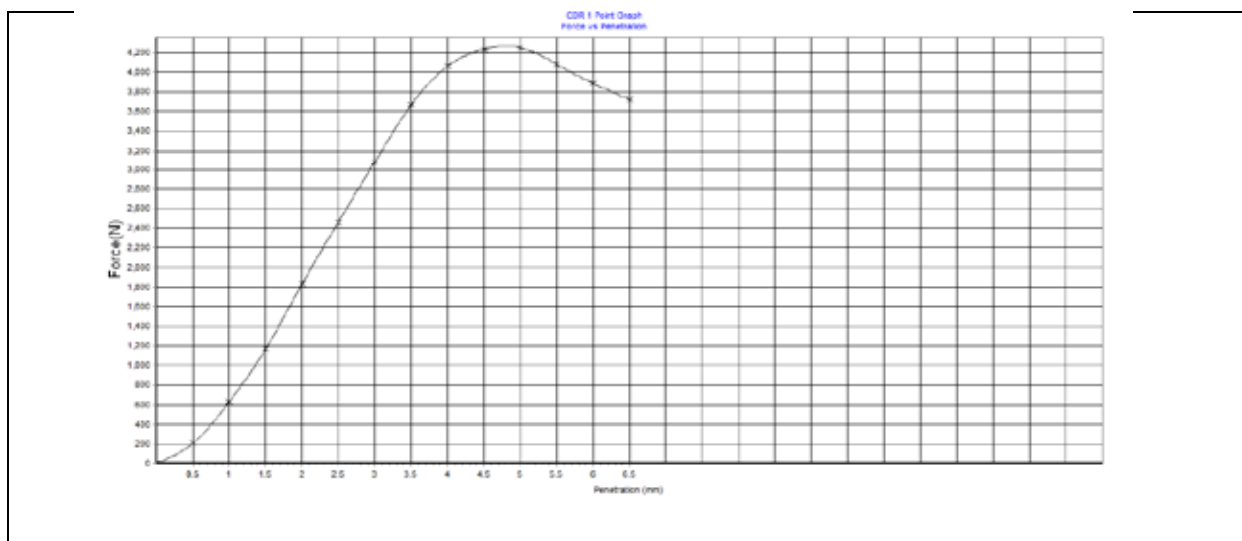
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California Bearing Ratio Report (1 Point)

Client: Golder Associates Pty. Ltd.	Report Number: G12004 - 99/1
Client address: P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date: 11/09/2012
Job Number: G12004	Order Number: Page 1 of 1
Project: Laboratory Testing	
Location: Project No:127683017 , Sunshine Coast Airport Upgrade	
Lab No: 94863	Sample Location
Date Sampled: 31/08/2012	Test Pit 11
Date Tested: 11/09/2012	Depth 0.0 - 0.3m
Sampled By: Client	Supplied 06/09/12
Sample Method: N/A	Test Method : AS1289.6.1.1
Material Source: Site	Lot Number: -
For Use As: -	Item Number : -
Remarks: -	



Maximum Dry Density - MDD (t/m ³) :	1.591	Dry Density after Soak (t/m ³) :	1.596
Optimum Moisture Content - OMC (%) :	16.2	Moisture Content after Soak (%) :	20.4
Compactive Effort :	Standard	Density Ratio after Soak (%) :	100
Nominated % Maximum Dry Density Compaction :	100	Field Moisture Content (%) :	12.8
Nominated % Optimum Moisture Content Compaction :	100	Moisture Content (Top) after Penetration (%) :	-
Achieved Dry Density before Soak (t/m ³) :	1.595	Moisture Content (Total) after Penetration (%) :	-
Achieved Percentage of Maximum Dry Density (%) :	100	CBR 2.5mm (%) :	19
Achieved Moisture Content (%) :	15.6	CBR 5.0mm (%) :	20
Achieved Percentage of Optimum Moisture Content (%) :	96	Minimum Specified CBR Value (%) :	-
Test Condition (Soaked/Unsoaked) / Soaking Period (Days) :	Soaked / 4 days	CBR Value (%) :	20.0
Swell (%) / Surcharge (kg):	-0.1 / 4.5 kg		

Soil Description : Sand(SP)-fine to medium grained, grey/dark grey, low plasticity fines

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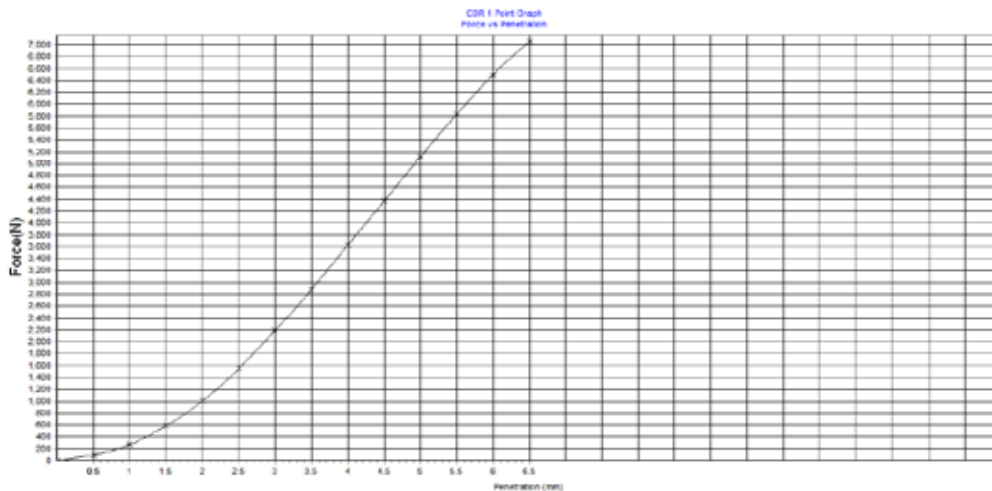
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California Bearing Ratio Report (1 Point)

Client: Golder Associates Pty. Ltd.	Report Number: G12004 - 100/1
Client address: P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date: 11/09/2012
Job Number: G12004	Order Number: Page 1 of 1
Project: Laboratory Testing	
Location: Project No:127683017 , Sunshine Coast Airport Upgrade	
Lab No: 94864	Sample Location
Date Sampled: 31/08/2012	Test Pit 15
Date Tested: 11/09/2012	Depth 0.0 - 0.3m
Sampled By: Client	Supplied 06/09/12
Sample Method: N/A	Test Method : AS1289.6.1.1
Material Source: Site	Lot Number: -
For Use As: -	Item Number : -
Remarks: -	



Maximum Dry Density - MDD (t/m ³) :	1.745	Dry Density after Soak (t/m ³) :	1.766
Optimum Moisture Content - OMC (%) :	14.2	Moisture Content after Soak (%) :	15
Compactive Effort :	Standard	Density Ratio after Soak (%) :	101
Nominated % Maximum Dry Density Compaction :	100	Field Moisture Content (%) :	15.3
Nominated % Optimum Moisture Content Compaction :	100	Moisture Content (Top) after Penetration (%) :	-
Achieved Dry Density before Soak (t/m ³) :	1.764	Moisture Content (Total) after Penetration (%) :	-
Achieved Percentage of Maximum Dry Density (%) :	101	CBR 2.5mm (%) :	12
Achieved Moisture Content (%) :	14.4	CBR 5.0mm (%) :	25
Achieved Percentage of Optimum Moisture Content (%) :	101	Minimum Specified CBR Value (%) :	-
Test Condition (Soaked/Unsoaked) / Soaking Period (Days) :	Soaked / 4 days	CBR Value (%) :	25.0
Swell (%) / Surcharge (kg):	-0.1 / 4.5 kg		

Soil Description : Silty Sand(SM)-fine to medium grained, grey/dark grey, low plasticity fines



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Form Number

REP ACBR_1_3-3

Mel Burnett
NATA Accred No:1551

APPENDIX B3:F



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 Email: geotech@ozemail.com.au

Particle Size Distribution Report

Client: Golder Associates Pty. Ltd. Client Address: P.O. Box 5569 Maroochydore BC Qld. 4558 Job Number: G12004 Project: Laboratory Testing Location: Project No:127683017 , Sunshine Coast Airport Upgrade	Report Number: G12004 - 106/1 Report Date: 12/09/2012 Order Number: Page 1 of 1
Lab No: 94847 Date Sampled: 29/08/2012 Date Tested: 7/09/2012 Sampled By: Client Sample Method: N/A Material Source: Site For Use As: - Remarks: -	Sample Location: Bore 1 Depth 0.4 - 0.6m Supplied 06/09/12 Lot Number: - Spec Number: -

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
		75.0mm			
		63.0mm			
		53.0mm			
		37.5mm			
		26.5mm			
		19.0mm			
		16.0mm			
		13.2mm			
		9.5mm			
		6.7mm			
		4.75mm			
		2.36mm			
		1.18mm			
		0.600mm		100	
		0.425mm		98	
	0.300mm		83		
	0.150mm		4		
	0.075mm		2		

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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 107/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94848	Sample Location	Bore 3
Date Sampled:	29/08/2012	Depth	2.2 - 2.4m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client	Lot Number:	-
Sample Method:	N/A	Spec Number:	-
Material Source:	Site		
For Use As:	-		
Remarks:	-		

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
	75.0mm				
	63.0mm				
	53.0mm				
	37.5mm				
	26.5mm				
	19.0mm				
	16.0mm				
	13.2mm				
	9.5mm				
	6.7mm				
	4.75mm				
	2.36mm				
	1.18mm				
	0.600mm			100	
	0.425mm			94	
	0.300mm			74	
0.150mm			7		
0.075mm			4		

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 Email: geotech@ozemail.com.au

Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 108/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94849	Sample Location:	Bore 4
Date Sampled:	29/08/2012	Depth:	0.7 - 0.8m
Date Tested:	7/09/2012	Supplied:	06/09/12
Sampled By:	Client	Lot Number:	-
Sample Method:	N/A	Spec Number:	-
Material Source:	Site		
For Use As:	-		
Remarks:	-		

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum
	75.0mm			
	63.0mm			
	53.0mm			
	37.5mm			
	26.5mm			
	19.0mm			
	16.0mm			
	13.2mm			
	9.5mm			
	6.7mm			
	4.75mm			
	2.36mm			
	1.18mm			
	0.600mm		100	
	0.425mm		98	
0.300mm		86		
0.150mm		8		
0.075mm		5		

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APPENDIX B3:F



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 Email: geotech@ozemail.com.au

Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 109/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94851	Sample Location	Bore 6
Date Sampled:	28/08/2012	Depth	0.6 - 0.8m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client	Lot Number:	-
Sample Method:	N/A	Spec Number:	-
Material Source:	Site		
For Use As:	-		
Remarks:	-		

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
<p>42 Sieve Sizes</p>	75.0mm				
	63.0mm				
	53.0mm				
	37.5mm				
	26.5mm				
	19.0mm				
	16.0mm				
	13.2mm				
	9.5mm				
	6.7mm				
	4.75mm				
	2.36mm				
	1.18mm				
	0.600mm			100	
	0.425mm			97	
	0.300mm			83	
0.150mm			5		
0.075mm			3		

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APPENDIX B3:F



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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 110/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94852	Sample Location	Bore 6
Date Sampled:	28/08/2012	Depth	5.5 - 5.7m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client		
Sample Method:	N/A		
Material Source:	Site		
For Use As:	-	Lot Number:	-
Remarks:	-	Spec Number:	-

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum
	75.0mm			
	63.0mm			
	53.0mm			
	37.5mm			
	26.5mm			
	19.0mm			
	16.0mm			
	13.2mm			
	9.5mm			
	6.7mm			
	4.75mm			
	2.36mm			
	1.18mm			
	0.600mm		100	
	0.425mm		99	
	0.300mm		88	
0.150mm		4		
0.075mm		2		

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APPENDIX B3:F



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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 111/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94855	Sample Location	Bore 10
Date Sampled:	27/08/2012	Depth	0.7 - 0.9m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client	Lot Number:	-
Sample Method:	N/A	Spec Number:	-
Material Source:	Site		
For Use As:	-		
Remarks:	-		

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum
	75.0mm			
	63.0mm			
	53.0mm			
	37.5mm			
	26.5mm			
	19.0mm			
	16.0mm		100	
	13.2mm		97	
	9.5mm		10	
	6.7mm		-	
	4.75mm		-	
	2.36mm			
	1.18mm		100	
	0.600mm		99	
	0.425mm		97	
	0.300mm		85	
0.150mm		18		
0.075mm		10		

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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 112/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94856	Sample Location	Bore 11
Date Sampled:	27/08/2012	Depth	0.5 - 0.7m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client	Lot Number:	-
Sample Method:	N/A	Spec Number:	-
Material Source:	Site		
For Use As:	-		
Remarks:	-		

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum
<p>AS1289.3.6.1</p>	75.0mm			
	63.0mm			
	53.0mm			
	37.5mm			
	26.5mm			
	19.0mm			
	16.0mm			
	13.2mm			
	9.5mm			
	6.7mm			
	4.75mm			
	2.36mm			
	1.18mm			
	0.600mm		100	
	0.425mm		98	
	0.300mm		83	
0.150mm		9		
0.075mm		7		

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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 113/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94857	Sample Location	Bore 12
Date Sampled:	30/08/2012	Depth	0.5 - 0.6m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client		
Sample Method:	N/A		
Material Source:	Site		
For Use As:	-	Lot Number:	-
Remarks:	-	Spec Number:	-

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum
	75.0mm			
	63.0mm			
	53.0mm			
	37.5mm			
	26.5mm			
	19.0mm			
	16.0mm			
	13.2mm			
	9.5mm			
	6.7mm			
	4.75mm			
	2.36mm			
	1.18mm			
	0.600mm		100	
	0.425mm		99	
	0.300mm		79	
0.150mm		3		
0.075mm		2		

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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 114/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94858	Sample Location	Bore 14
Date Sampled:	30/08/2012	Depth	0.3 - 0.5m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client		
Sample Method:	N/A		
Material Source:	Site		
For Use As:	-	Lot Number:	-
Remarks:	-	Spec Number:	-

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
	75.0mm				
	63.0mm				
	53.0mm				
	37.5mm				
	26.5mm				
	19.0mm				
	16.0mm				
	13.2mm				
	9.5mm				
	6.7mm				
	4.75mm				
	2.36mm				
	1.18mm				
	0.600mm			100	
	0.425mm			99	
	0.300mm			91	
0.150mm			13		
0.075mm			10		

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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 115/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94859	Sample Location	Bore 15
Date Sampled:	30/08/2012	Depth	0.6 - 0.8m
Date Tested:	7/09/2012	Supplied	06/09/12
Sampled By:	Client		
Sample Method:	N/A		
Material Source:	Site		
For Use As:	-	Lot Number:	-
Remarks:	-	Spec Number:	-

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
	75.0mm				
	63.0mm				
	53.0mm				
	37.5mm				
	26.5mm				
	19.0mm				
	16.0mm				
	13.2mm				
	9.5mm				
	6.7mm				
	4.75mm				
	2.36mm				
	1.18mm				
	0.600mm				
	0.425mm			100	
	0.300mm			92	
0.150mm			5		
0.075mm			2		

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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 116/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94860	Sample Location	Bore 16
Date Sampled:	31/08/2012	Depth	0.2 - 0.4m
Date Tested:	11/09/2012	Supplied	06/09/12
Sampled By:	Client		
Sample Method:	N/A		
Material Source:	Site		
For Use As:	-	Lot Number:	-
Remarks:	-	Spec Number:	-

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
	75.0mm				
	63.0mm				
	53.0mm				
	37.5mm				
	26.5mm				
	19.0mm				
	16.0mm				
	13.2mm				
	9.5mm				
	6.7mm				
	4.75mm				
	2.36mm				
	1.18mm				
	0.600mm			100	
	0.425mm			97	
	0.300mm			83	
0.150mm			7		
0.075mm			4		

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Particle Size Distribution Report

Client:	Golder Associates Pty. Ltd.	Report Number:	G12004 - 117/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558	Report Date:	12/09/2012
Job Number:	G12004	Order Number:	Page 1 of 1
Project:	Laboratory Testing		
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade		
Lab No:	94861	Sample Location	Bore 17
Date Sampled:	31/08/2012	Depth	0.5 - 0.9m
Date Tested:	11/09/2012	Supplied	06/09/12
Sampled By:	Client		
Sample Method:	N/A		
Material Source:	Site		
For Use As:	-	Lot Number:	-
Remarks:	-	Spec Number:	-

Test Method:	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
	75.0mm				
	63.0mm				
	53.0mm				
	37.5mm				
	26.5mm				
	19.0mm				
	16.0mm				
	13.2mm				
	9.5mm				
	6.7mm				
	4.75mm				
	2.36mm				
	1.18mm				
	0.600mm			100	
	0.425mm			99	
	0.300mm			86	
0.150mm			10		
0.075mm			7		

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Quality of Materials Report

Client:	Golder Associates Pty. Ltd.			Report Number:	G12004 - 102/1
Client Address:	P.O. Box 5569 Maroochydore BC Qld. 4558			Report Date:	11/09/2012
Job Number:	G12004			Order Number:	-
Project:	Laboratory Testing			Page 1 of 1	
Location:	Project No:127683017 , Sunshine Coast Airport Upgrade			Sample Location	
Lab No:	94850			Bore 5	
Date Sampled:	28/08/2012			Depth 1.7 - 1.8m	
Date Tested:	7/09/2012			Supplied 06/09/12	
Sampled By:	Client			Spec Description: -	
Sample Method:	N/A			Lot Number: -	
Material Source:	Site			Spec Number: -	
For Use As:	-				
Remarks:	-				
	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum	
Test Method:	AS1289.3.6.1				
	75.00 mm				
	53.00 mm				
	37.50 mm				
	26.50 mm				
	19.00 mm				
	13.2 mm				
	9.50 mm				
	6.7 mm				
	4.75 mm				
	2.36 mm				
	1.18 mm				
	0.600 mm				
	0.425 mm				
	0.300 mm				
	0.150 mm				
	0.075 mm		66		
Atterberg Tests	Test Method	Specification Minimum	Result	Specification Maximum	
Liquid Limit (%)	AS1289.3.1.2		50		
Plastic Limit (%)	AS1289.3.2.1		27		
Plasticity Index	AS1289.3.3.1		23		
Linear Shrinkage (%)	AS1289.3.4.1		14.0		



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Form Number

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Quality of Materials Report

Client: Golder Associates Pty. Ltd.		Report Number: G12004 - 103/1		
Client Address: P.O. Box 5569 Maroochydore BC Qld. 4558		Report Date: 11/09/2012		
Job Number: G12004		Order Number: -		
Project: Laboratory Testing		Page 1 of 1		
Location: Project No:127683017 , Sunshine Coast Airport Upgrade		Sample Location		
Lab No: 94853		Bore 7		
Date Sampled: 28/08/2012		Depth 4.0 - 4.3m		
Date Tested: 7/09/2012		Supplied 06/09/12		
Sampled By: Client		Spec Description: -		
Sample Method: N/A		Lot Number: -		
Material Source: Site		Spec Number: -		
For Use As: -				
Remarks: -				
Test Method: AS1289.3.6.1	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum
	75.00 mm			
	53.00 mm			
	37.50 mm			
	26.50 mm			
	19.00 mm			
	13.2 mm			
	9.50 mm			
	6.7 mm			
	4.75 mm			
	2.36 mm			
	1.18 mm			
	0.600 mm			
	0.425 mm			
	0.300 mm			
	0.150 mm			
	0.075 mm		78	
Atterberg Tests	Test Method	Specification Minimum	Result	Specification Maximum
Liquid Limit (%)	AS1289.3.1.2		61	
Plastic Limit (%)	AS1289.3.2.1		27	
Plasticity Index	AS1289.3.3.1		34	
Linear Shrinkage (%)	AS1289.3.4.1		17.0	

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Quality of Materials Report

Client: Golder Associates Pty. Ltd.		Report Number: G12004 - 104/1		
Client Address: P.O. Box 5569 Maroochydore BC Qld. 4558		Report Date: 11/09/2012		
Job Number: G12004		Order Number: -		
Project: Laboratory Testing		Page 1 of 1		
Location: Project No:127683017 , Sunshine Coast Airport Upgrade		Sample Location		
Lab No: 94854		Bore 9		
Date Sampled: 27/08/2012		Depth 1.2 - 1.3m		
Date Tested: 7/09/2012		Supplied 06/09/12		
Sampled By: Client		Spec Description: -		
Sample Method: N/A		Lot Number: -		
Material Source: Site		Spec Number: -		
For Use As: -				
Remarks: -				
Test Method: AS1289.3.6.1	A.S. Sieve Sizes	Specification Minimum	Percent Passing	Specification Maximum
	75.00 mm			
	53.00 mm			
	37.50 mm			
	26.50 mm			
	19.00 mm			
	13.2 mm			
	9.50 mm			
	6.7 mm			
	4.75 mm			
	2.36 mm			
	1.18 mm			
	0.600 mm			
	0.425 mm			
	0.300 mm			
	0.150 mm			
	0.075 mm		27	
Atterberg Tests	Test Method	Specification Minimum	Result	Specification Maximum
Liquid Limit (%)	AS1289.3.1.2		26	
Plastic Limit (%)	AS1289.3.2.1		16	
Plasticity Index	AS1289.3.3.1		10	
Linear Shrinkage (%)	AS1289.3.4.1		6.5	

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