

Technical Paper

U2

Building Site Temporary Structure



Australian Soil And Concrete Testing P/L

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22nd June 2010
Ref No: 1758-004-001

Billinudgel Properties
P.O. Box 517
BANGALOW NSW 2479

Attention: Rob Doolan

GEOTECHNICAL REPORT – BEARING CAPACITY
RE: Temporary Structures sites
AT: North Byron Parklands

Dear Sir,

Australian Soil & Concrete Testing at your request has performed a Site inspection and testing of the insitu subgrade for the temporary structures in the event areas at North Byron Parklands. The results of the inspection and testing for the temporary structures at the site indicate the estimated bearing capacity to be:

100kPa or greater allowable bearing capacity from 300mm below the ground surface.

The temporary structure sites are reasonably level with the event areas having a slight slope and the insitu ground is adequately and uniformly firm to stiff from 300mm below the existing surface through the soil profile to 1.5 meters depth to support the structures. The soil profile was found to be silty clay natural that was generally clear of loose or soft soil for good support and contact.

The results of penetrometer testing performed at the site together with a plan of the test locations is attached for your information and should you require any further assistance, please do not hesitate to call this office.

Yours faithfully
Australian Soil & Concrete Testing P/L

Brian Dick
Managing Director



Engineering, Geotechnical & Environmental Consultant & Technical Service
Laboratory and Field Testing Services for Soil, Rock and Aggregate
Concrete Instrumentation for Civil Engineering Projects

Report on Soil Penetration Resistance

Client : Billinudgel Properties P/L	Project no : 1758-004	Project: North Byron Parklands
Test methods: AS 1289 6.3.2	Report no : 1758-004-001	Date Tested : 18/06/10
Lab No : 12391	Layer: Subgrade	Test location: Proposed Temporary Structure Building Pads

Test 1

Depth below surface at commencement of test: 0 mm

Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	5	Silty Clay: brown grey	Moist
300	0.60	6	"	"
300	0.90	7	"	"
300	1.20	11	"	"
300	1.50	22	"	"
300	1.80	31	"	"

Test 2

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	4	Silty Clay: brown grey	Moist
300	0.60	5	"	"
300	0.90	6	"	"
300	1.20	13	"	"
300	1.50	31	"	"
300	1.80	Stopped		

Test 3

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	3	Silty Clay: brown	Moist
300	0.60	6	"	"
300	0.90	8	"	"
300	1.20	9		
300	1.50	12		
300	1.80	20		

Test 4

Depth below surface at commencement of test: 0 mm

Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	4	Silty Clay: brown	Moist
300	0.60	9	"	"
300	0.90	7	"	"
300	1.20	11	"	
300	1.50	23	"	
300	1.80	34		



This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025

Signed: Brian Dick Date 22/06/2010

Brian Dick
(Approved Signatory)

Report on Soil Penetration Resistance

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Test methods: AS 1289 6.3.2	Report no : 1758-004-001	Date Tested : 18/06/10
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Test 5

Depth below surface at commencement of test: 0 mm

Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	3	Silty Clay: brown	Moist
300	0.60	8	"	"
300	0.90	9	"	"
300	1.20	12	"	"
300	1.50	27	"	"
300	1.80	30/200	"	"

Test 6

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	3	Silty Clay: brown grey	Moist
300	0.60	9	"	"
300	0.90	8	"	"
300	1.20	9	"	"
300	1.50	18	"	"
300	1.80	31	"	"

Test 7

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	3	Silty Clay: brown grey	Moist
300	0.60	8	"	"
300	0.90	6	"	"
300	1.20	6	"	"
300	1.50	16	"	"
300	1.80	25	"	"

Test 8

Depth below surface at commencement of test: 0 mm

Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	1	Silty Clay: brown	Moist
300	0.60	6	"	"
300	0.90	10	"	"
300	1.20	9	"	"
300	1.50	19	"	"
300	1.80	35	"	"



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Signed: *Brian Dick*

Date 22/06/2010

Brian Dick
(Approved Signatory)

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Test 9

Depth below surface at commencement of test: 0 mm

Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	2	Sandy Silty Clay: brown	Moist
300	0.60	7	"	"
300	0.90	12	"	"
300	1.20	17	"	"
300	1.50	10	"	"
300	1.80	30/150	"	"

Test 10

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	2	Sandy Silty Clay: brown	Moist
300	0.60	8	"	"
300	0.90	8	"	"
300	1.20	7	"	"
300	1.50	18/100	"	"
300	1.80			

Test 11

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	3	Sandy Silty Clay: brown	Moist
300	0.60	7	"	"
300	0.90	9	"	"
300	1.20	9		
300	1.50	16		
300	1.80	21		

Test 12

Depth below surface at commencement of test: 0 mm

Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	2	Sandy Silty Clay: brown	Moist
300	0.60	9	"	"
300	0.90	7	"	"
300	1.20	8	"	
300	1.50	6	"	
300	1.80	9		



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Report on Soil Penetration Resistance

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Test 13

Depth below surface at commencement of test: 0 mm

Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	3	Sandy Silty Clay: brown	Moist
300	0.60	9	"	"
300	0.90	7	"	"
300	1.20	11	"	"
300	1.50	26	"	"
300	1.80	30	"	"

Test 14

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30	2	Sandy Silty Clay: brown	Moist
300	0.60	9	"	"
300	0.90	8	"	"
300	1.20	7	"	"
300	1.50	21	"	"
300	1.80	30/200		

Test

Depth below surface at commencement of test: 0 mm

Graduation Interval Mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30			
300	0.60			
300	0.90			
300	1.20			
300	1.50			
300	1.80			

Test

Depth below surface at commencement of test: 0 mm

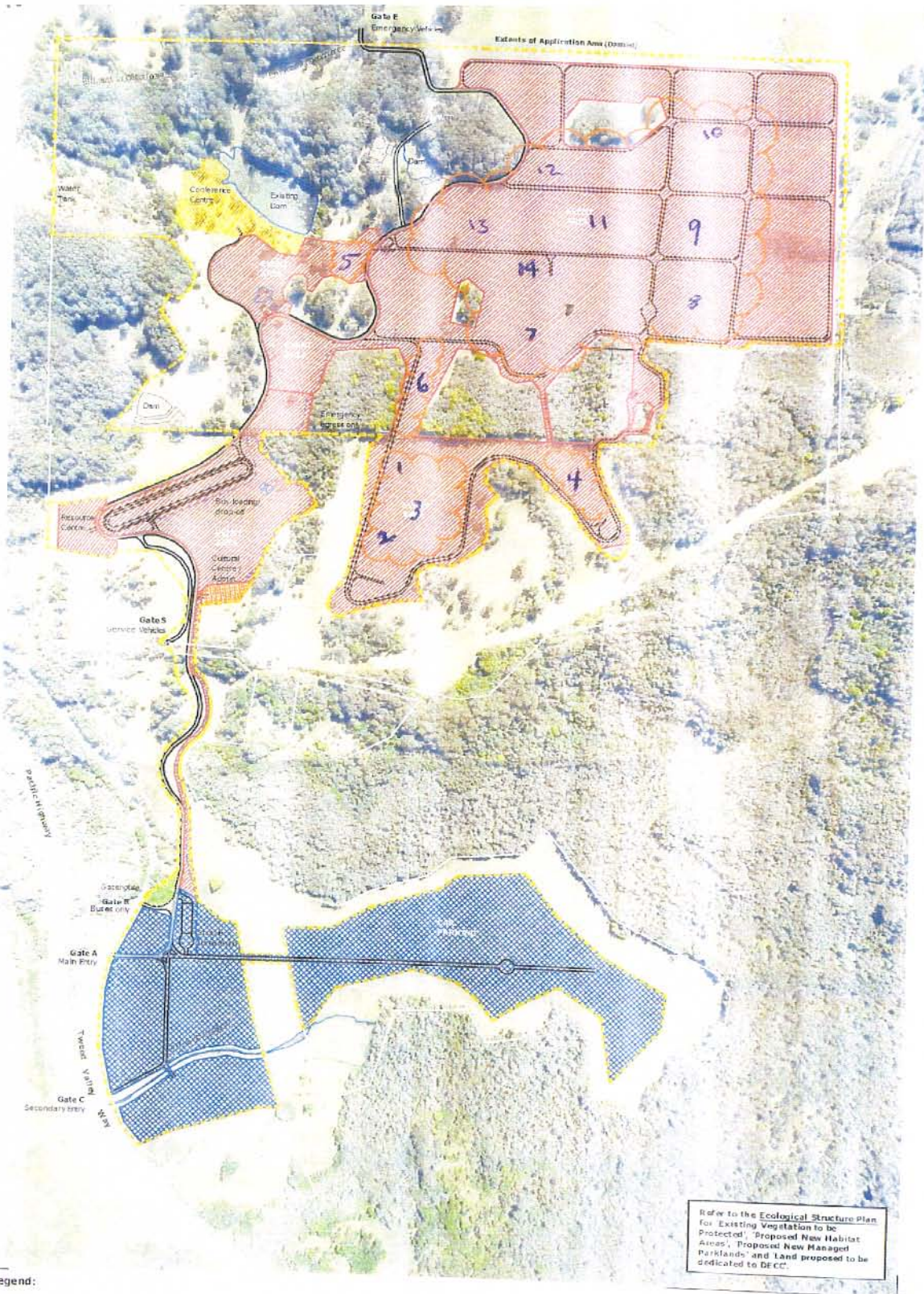
Graduation Interval mm	Cumulative depth m	No. of Blows Required	Soil Description	Moisture Condition
300	0.30			
300	0.60			
300	0.90			
300	1.20			
300	1.50			
300	1.80			



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Brian Dick
(Approved Signatory)



Refer to the Ecological Structure Plan for Existing Vegetation to be Protected, Proposed New Habitat Areas, Proposed New Managed Parklands and Land proposed to be dedicated to DECC.

Legend:

- The Site
- Extents of Application Area (Dashed)
- Car Parking
- Event Area
- Conference Centre Uses
- Cultural Centre/Administration Uses
- Gatehouse
- Spine Road (7m wide)
- Event access lane (6m wide)
- Main pedestrian route

1:8000 (@ A3)

IMPORTANT NOTE

Control information is subject to survey. The alignment of the aerial photograph and vectorial overlay is approximate only. This plan is conceptual only and subject to detailed survey and design.

Source: Aerial Photography: B.L. Hulse (2009) | Cadastre and Policy (2009) | Map of the Parklands | Map of the Parklands | Map of the Parklands

Prepared by

Design Team Ltd

Illustration | 1.1
Event Area and Land Use Structure

North Byron Parklands - Tweed Valley Way & Jones Road

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0 150m



Date: 20/05/10
 Scale: 1:8000
 Author: [Name]

Source: Aerial Photography: B.L. Hulse (2009) | Cadastre and Policy (2009) | Map of the Parklands | Map of the Parklands | Map of the Parklands

Testing performed at ASCT P/L Ballina

NATA Accredited Laboratory Number 3229