

DIRT PROFESSIONALS

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Tandel Investments Pty Ltd
QBCC No. 1173606

02 October 2019

Site Classification
Lot 86 George Road
Forest Creek QLD

Job No 20717

INTRODUCTION

This report presents the results of a site investigation performed at Lot 86 George Road Forest Creek. The investigation is required in connection with a proposed dwelling and a foot bridge to be constructed on the allotment.

EXISTING CONDITIONS

At the time of the investigation the allotment was located in an established rural residential subdivision. The allotment was grassed and treed. The building area was grassed and sloped to the Southeast. The location of the proposed dwelling and footbridge was shown.

FIELD WORK

To investigate subsurface conditions bore holes were excavated to depths of refusal. The location of these holes were at approximately diagonal corners of the building area. Dynamic Cone Penetrometer Tests were carried out at the area of the proposed building area. A disturbed sample was taken for laboratory testing. The results are attached.

SOIL PROFILE

The bore holes indicate similar subsurface soil profiles. There is a layer of clay sand to the depth of weathered rock at the depth of holes. A Plasticity Indices Test was carried out on a sample of clay sand from bore hole 1. The test results are as follows: Liquid Limit 39%, Plastic Limit 19%, Plasticity Index 20% and Linear Shrinkage 8.5%.

SITE CLASSIFICATION

The materials in the area are regarded as having a moderate shrink swell potential with less than 400 mm of fill. In accordance with the AS 2870 residential slabs and footings, visual inspection of soils, Plasticity Indices tests and Dynamic Cone Penetrometer Tests. The site is found to be **CLASS M.**

FOUNDATION RECOMMENDATIONS

The building area should be stripped of all topsoil.

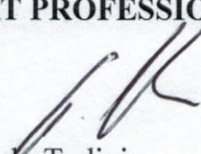
If any filling material is to be used as part of the foundation building platform, should be engineered in accordance with the requirements of AS 3798 Level 1, Guidelines on earthworks for commercial and residential developments. That is, the fill should be placed in no greater than 200 mm layers within 2% of optimum moisture content and at a density of not less than 95% of maximum standard dry density as per AS 1289. The filling used should be of a low plastic nature and free from any organic and deleterious materials.

This report should be read in conjunction with the attached CSIRO information leaflet.

VALIDITY

The excavation of a limited number of holes does not preclude the possibility of some conditions on the site being different from those encountered in the holes. Should conditions be found which differ from those described in this report, then the recommendations are not valid and this organisation should be contacted.

Yours faithfully
Tandel Investments Pty Ltd
DIRT PROFESSIONALS



Angelo Tudini
Director

Attached
-CSIRO SHEET NO 10-91
-Site plan of building area
-photo of site

BORE HOLE LOG

HOLE 1 Location: Northwest corner

0.0 - 0.7m Clay Sand - Orange Brown

0.7m Weathered Rock

HOLE 2 Location : Southeast corner

0.0 - 0.9m Clay Sand - Orange Brown

0.9m Weathered Rock

HOLE 3 Location: Bridge South side

0.0 - 0.8m Clay Sand - Orange Brown

0.8m Weathered rock

Dirt Professionals

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Dynamic Cone Penetrometer Report

Client :	Justine Murray
Address :	juss@live.com.au
Project Name :	Investigation
Project Number :	20717
Location:	Lot 86 George Road , Forest Creek

Report Number:	20717 - 1/1
Report Date :	25/10/2019
Order Number :	
Test Method :	AS1289.6.3.2
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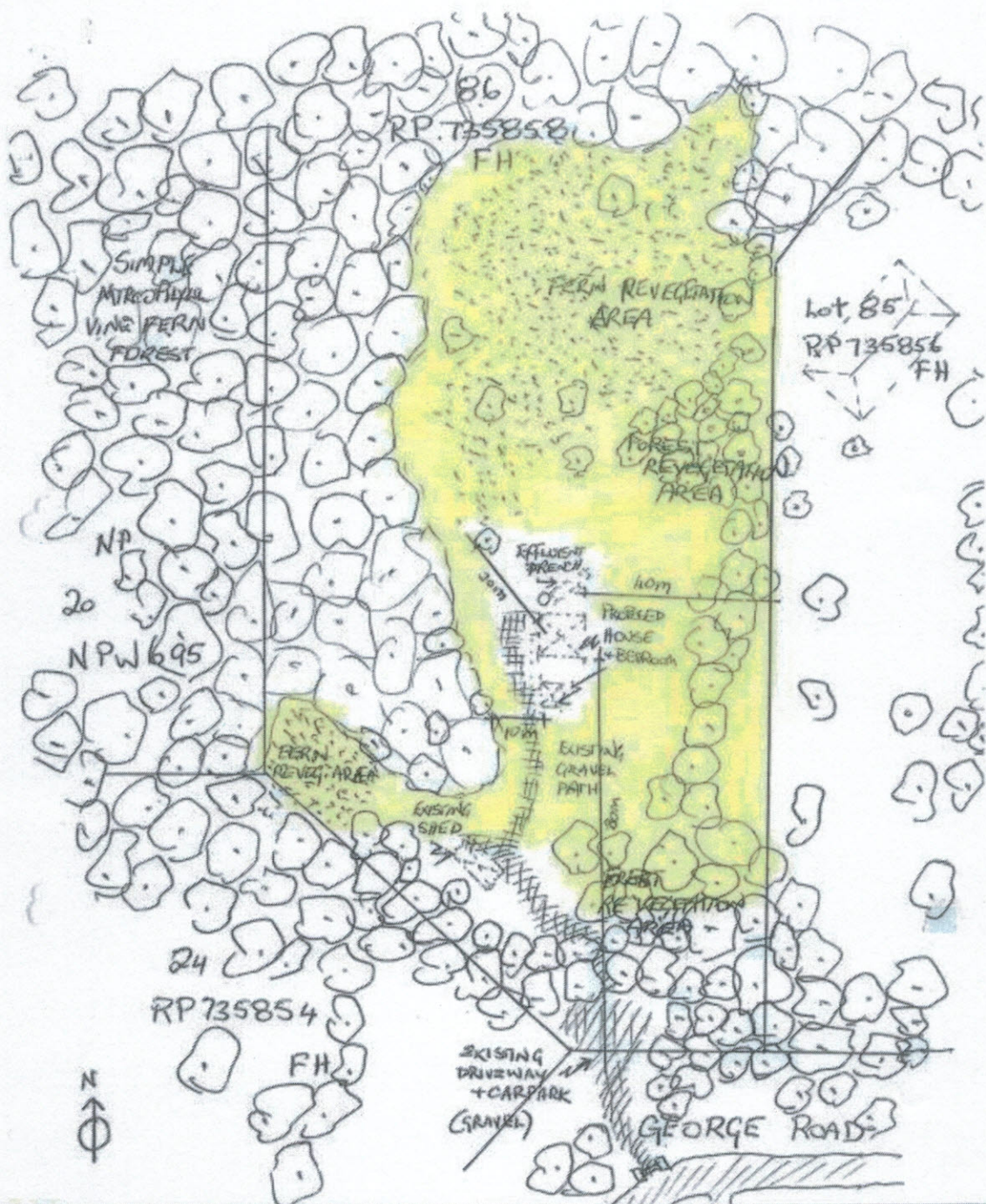
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Remarks :

APPROVED SIGNATORY

Angelo Tudini - Lab Manager



Area Approval for Bio-prospecting - DSC 2/19/16

Check all figures
on site. Set Back
to be observed in
reference to scale.

PROPOSED RESIDENCE
J MURRAY
Lot 86 GEORGE RD
FOREST CREEK

1:100

ASG

9/15

Detailed Site
Plan

