



Ref: PF-AU-INDCMT-QLD-PM-264 / Rev 1 / 5.10.2015

11th June 2018
Project No. SGS/17/020

Naric Civil
PO BOX 150
Redbank, QLD 4301

RE: CERTIFICATE OF CONTROLLED FILLING
LOCATION: RIVERBANK STAGE 12B

LOT NO. 683

Fill was placed on the above allotment during the construction of the above mentioned estate.

SGS Australia Pty Ltd was commissioned on this project to provide earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments".

Based on the test results and site inspections, SGS Australia Pty Ltd concludes that the fill foundation to a depth of not less than 150mm and placement of compacted fill on Lot 683 as defined laterally in the attached drawing is considered to comply with the requirements of Table 5.1 of AS 3798 and the project specification.

All fill in the areas defined in the attached drawing, within the time frame of our inspection and testing programme on the 17/8/2017 (excluding topsoil placed subsequent to completion of controlled filling) is considered to be "Controlled Fill" in accordance with AS 2870 "Residential Slabs and Footings" (Clause 6.4.2 (a)) and AS 3798.

Unless otherwise stated, Level 1 certification does not address any other geotechnical issues which may be relevant to building construction and serviceability.

A full geotechnical site investigation/classification and foundation design for the specific ground conditions should be carried out by suitably qualified and experienced personnel, prior to building when the house type and location is known. This service can be provided if required, by contacting SGS Australia Pty Ltd on 3481 9444.

Yours faithfully,

SGS AUSTRALIA PTY LTD

Gavin Kosanovic
SGS-17-020-LC-11.06.2018.docx

encl. Drawing showing lateral extent of controlled filling

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Client:	NARIC CIVIL	Client Job No:	
Project:	SGS/17/020	Order No:	
Location:	Riverbank Estate Stage 12	Tested Date:	25/08/2017
SGS Job Number:	17-55-677	Sample No:	17-LT-3367
Lab:	Lawnton Laboratory	Sample ID:	Allotment Fill

Field Density Ratio (HILF) Report

AS1289.5.7.1

Test Number:	AF10	AF11	AF12
Date Tested:	17/08/2017	17/08/2017	17/08/2017
Time of Test:	9:05am	10:00am	10:20am
Location:	Lot 683	Lot 683	Lot 683
	E 6527	E 6537	E 6531
	N 2878	N 2867	N 2871
	RL 9.67	RL 9.54	RL 9.56
Depth of Test (mm):	150	150	150
Depth of Layer (mm):	-	-	-
Soil Description:	On-Site	On-Site	On-Site
Moisture Variation (%):	1.0	1.0	0.5
Wet/Dry of Optimum:	Drier	Drier	Drier
Hilf Density Ratio (%):	97.5	98.5	100.0
Compaction Spec (%):	95	95	95

Field & Laboratory Data

Field Wet Density (t/m^3):	1.90	1.89	1.97
Field Moisture Content (%)	20.1	19.6	22.4
Oversize (%):	0	0	0
Sieve Size (mm)	19.0	19.0	19.0
Peak Converted Wet Density (t/m^3):	1.95	1.92	1.97
OMC (%)	21.0	20.5	23.0
Compactive Effort:	Standard	Standard	Standard
Mould Type:	A	A	A

Test Methods: AS 1289.5.8.1 AS 1289.2.1.1

Notes: Field testing and selection of test locations carried out in general accordance with Level 1 guidelines. Test locations were not professionally surveyed by SGS, therefore recorded locations should be considered as approximate only.

Authorised
Signatory:

(Dean Wilson)

Date: 29/08/2017



Accredited for compliance with ISO/IEC 17025 - Testing

Client Address: PO BOX 150 REDBANK QLD 4301
Accreditation No.: 2418

Site No.: 4984
Cert No.: 17-LT-3367-S411N
Form No. PF-AU-INDCMT-TE-S411N V3.0

DAILY SITE VISIT REPORT

Client NAAC CIVIL Date 17/08/17
 Contractor ← " → Job No 666/17/020
 Project RIVERBANK ESTATE STAGE 2B Weather FINE

PURPOSE OF VISIT: AS 3798, Level Inspection and Testing - Earthworks

EARTHWORKS IN CURRENT PROGRESS
 • CNS LOTS 731-734, 683

SECTIONS READY FOR TESTING/INSPECTING
As Above

SAMPLING/TESTING CARRIED OUT FIELD DENSITY TESTS

•	N	• AF10, LOT 683, EASTING. 6527 + NORTHING. 2898	D.L - 9.67
•		• AF11, LOT ↓; ↓ . 6537 + ↓ . 2867	D.L - 9.54
•		• AF12, LOT ↓; ↓ . 6531 + ↓ . 2871	D.L - 9.56

INSTRUCTIONS/INFORMATION/ADVICE RECEIVED FROM Mr Richard Ford of NAAC
 • REQUEST STRIPPED NATURAL SURFACE INSPECTION OF LOTS 731-734, 683.
 • FILL IMPORTED FROM ON-SITE CUT & COMPACTED WITH RACTRACK POWER.
 • LEVEL FILL OVERFILLED INTO LOT 731 TO FORM ADEQUATE DATED.
 • FILL TO CONTINUE TUESDAY 18/08/17.

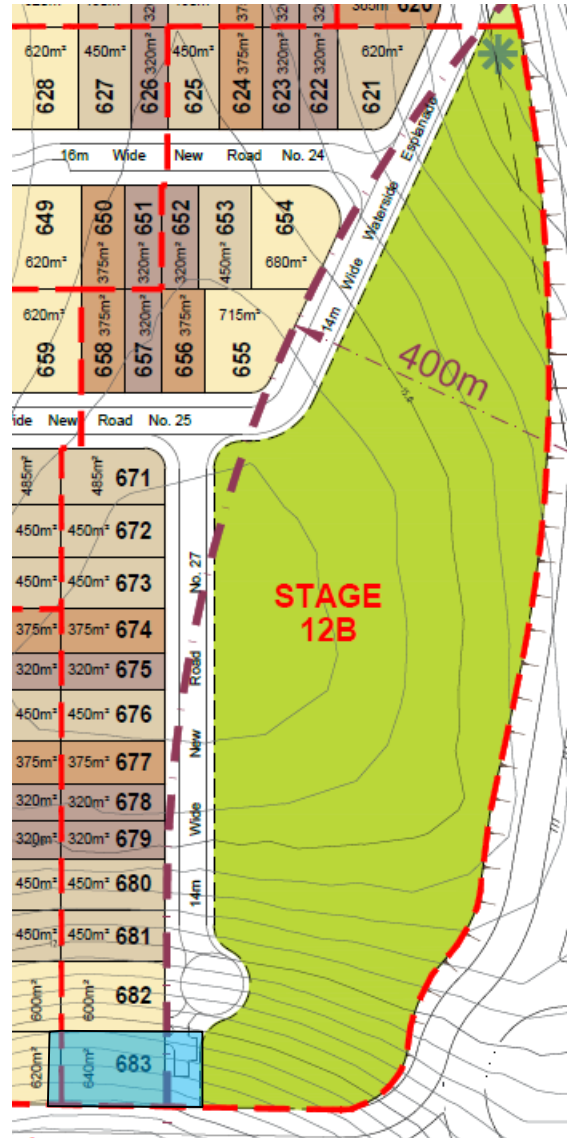
INSTRUCTIONS/INFORMATION/ADVICE GIVEN TO Mr Richard Ford of NAAC
 • CARRIED OUT STRIPPED NATURAL SURFACE INSPECTION OF LOTS 731-734, 683.
 • THESE LOTS HAVE BEEN REMOVED OF EXCESSIVE ORGANICS, TINED & PROOF ROLLING REVEALED A FIRM BASE WITH MINIMAL MOVEMENT. PERMISSION TO BEGIN FILL.

Initial results indicate that the above field density tests should meet specification requirements. Final results will be available upon completion of laboratory testing.
 Please ensure that excessive organic material is removed from incoming fill.
 Please ensure that fill material is moisture conditioned as appropriate prior to compaction. Material is: too dry too wet
 All earthworks as detailed above generally complies with the requirements of AS 3798 and the project specification.
 Signed [Signature] SMITH Page 1 of 1

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Approximate lateral extent of Level 1 fill (controlled filling).
 Controlled fill certification is limited to within this area. Unless specifically stated in the report, level 1 compaction control and certification does not address or include:

- backfill to service trenches and/or retaining walls (including boulder walls); and
- topsoil placed subsequent to completion of controlled filling.

Note: Base Plan Provided by Calibre Consulting Pty Ltd



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TITLE		Riverbank Estate Stage 12B		DRAWING NO.		SGS/17/020 – C3					
JOB LOCATION				Caboolture				SCALE		Scale Not Shown	
CLIENT		Naric Civil Pty Ltd		DATE		11/06/18		DRAWN		DW	
								SIZE		A4	