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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TEST CERTIFICATE

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SGS Australia Pty Ltd
Lawnton Laboratory
Unit 1/18 Leanne Crescent
Lawnton QLD 4501

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 E 6527 N 2878 RL 9.67	Lot 683 E 6537 N 2867 RL 9.54	Lot 683 E 6531 N 2871 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/m³):	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/m³):	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

DAILY SITE VISIT REPORT

Client NARIC CIVIL
Contractor ← " →
Project RIVERBANK ESTATE - STAGE 7B2

Date 17/08/17
Job No GGS/17/020
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 .2878 — D.L - 9.64
- AF11, LOT ↓ ; ↓ . 6537 + ↓ . 2867 — D.L - 9.54
- AF12, LOT ↓ ; ↓ . 6531 + ↓ . 2841 — D.L - 9.56

INSTRUCTIONS/INFORMATION/ADVICE RECEIVED FROM MR RICHARD FORD OF NARIC
- REQUEST STRIPPED NATURAL SURFACE INSPECTION OF LOTS 731-734, 683.
- FILL IMPORTED FROM ONSITE CUT & COMPACTED WITH PADFOOT ROLLER.
- LEVEL FILL OVERFILLED INTO LOT 731 TO FORM ADEQUATE BATTER.
- FILL TO CONTINUE FRIDAY 18/08/17.

INSTRUCTIONS/INFORMATION/ADVICE GIVEN TO MR RICHARD FORD OF NARIC
- CARRIED OUT STRIPPED NATURAL SURFACE INSPECTION OF LOTS 731-734, 683. THESE LOTS HAVE BEEN REMOVED OF EXCESSIVE ORGANICS, TINED & PROOF ROLLING REVEALED Δ FROM 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] BRETT SMITH Page 1 of 1

SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

REF: PF-AU-INDCMT-IN-001/Ver1/17.09.15

SGS

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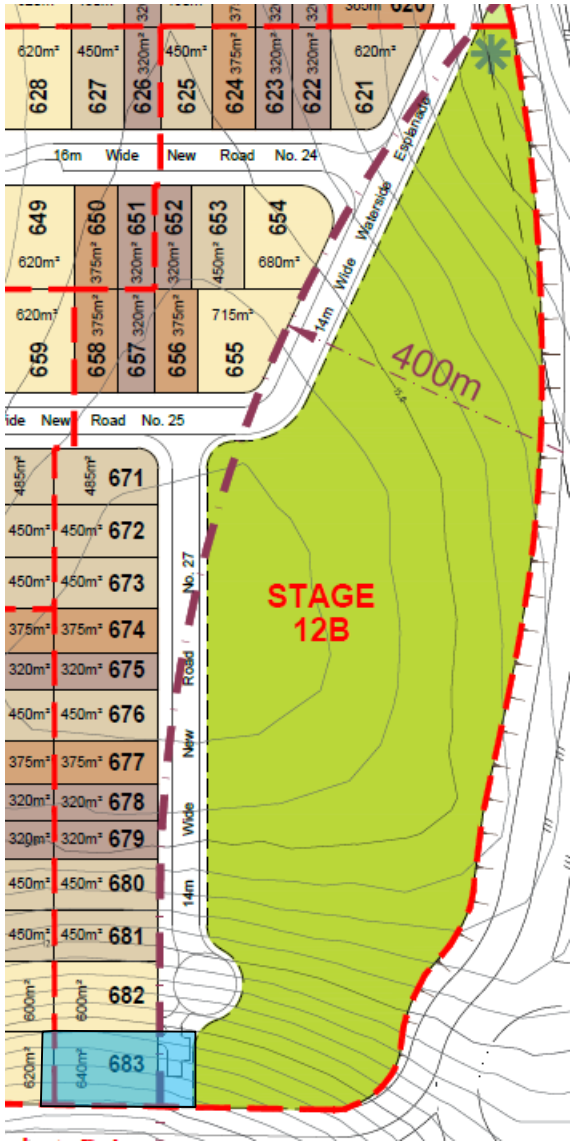

Approximate lateral extent of Level 1 fill (controlled filling).
Controlled fill certification is limited to within this area.
Unless specifically stated in the report, level 1 compaction control and certification does not address or include:

- 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