

17th January 2023

Reference No. SMS1.21180-L3.Rev1

Mr. Jim Callander
Buttrose Earthmovers
10 Caribou Drive
DIREK SA 5110

LEVEL 1 CONTROLLED FILL CERTIFICATE
SPRINGWOOD – THE VILLAGE STAGE 4, GAWLER EAST

Dear Jim,

SMS Geotechnical Pty Ltd (SMS) was commissioned by Buttrose Earthmovers to provide Level 1 earthworks inspection and testing services on the above project in Gawler East, South Australia. The area where fill was placed is shown approximately in Drawings SMS1.21180-F4.Rev1.

Pre and post fill levels were undertaken by Total Construction Surveys Pty Ltd; these levels are detailed in the attached surveys.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 "Guidelines on earthworks for commercial and residential developments" between 6th April 2021 and 20th September 2022. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS' representative on site.

SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to Buttrose Earthmovers and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed as shown in Drawings SMS1.21180-F4.Rev1, was witnessed and in our opinion meets the requirements of "Controlled Fill" as defined in AS3798-2007 and AS2870-2011 "Residential slabs and footings".

However, it should be recognised that the passage of time affects the information provided in this letter. SMS's opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

SMS GEOTECHNICAL PTY LTD



Luke Garcia
Laboratory Manager

Attachments:

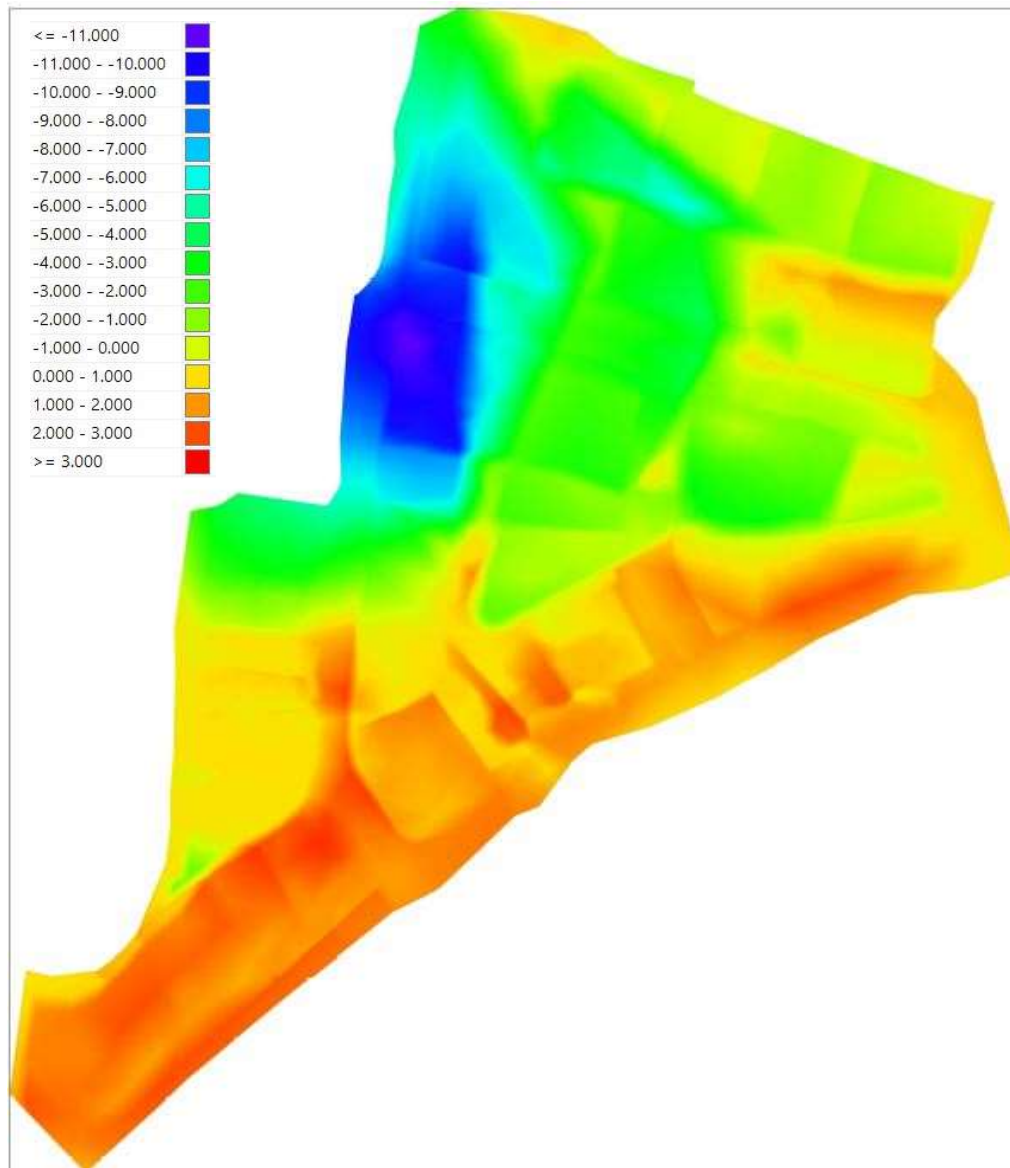
1. Drawing SMS1.21180-F4.Rev1
2. Total Construction Surveys Pty Ltd – Earthworks Heat Map
3. Total Construction Surveys Pty Ltd – Pre-Level Surveys
4. Total Construction Surveys Pty Ltd – Post-Level Survey

CLIENT: **BUTTROSE**
PROJECT: **SPRINGWOOD STAGE 4**
LOCATION: **SPRINGWOOD ESTATE**
Job Number: **2957**
Description: **EARTHWORKS HEAT MAP**
Surveyor: **TRB**
Date: **17th January 2023**
Note: **CUT/FILL VALUES BETWEEN SURVEYED SURFACE (12/10/22) AND EXISTING NATURAL SURFACE**



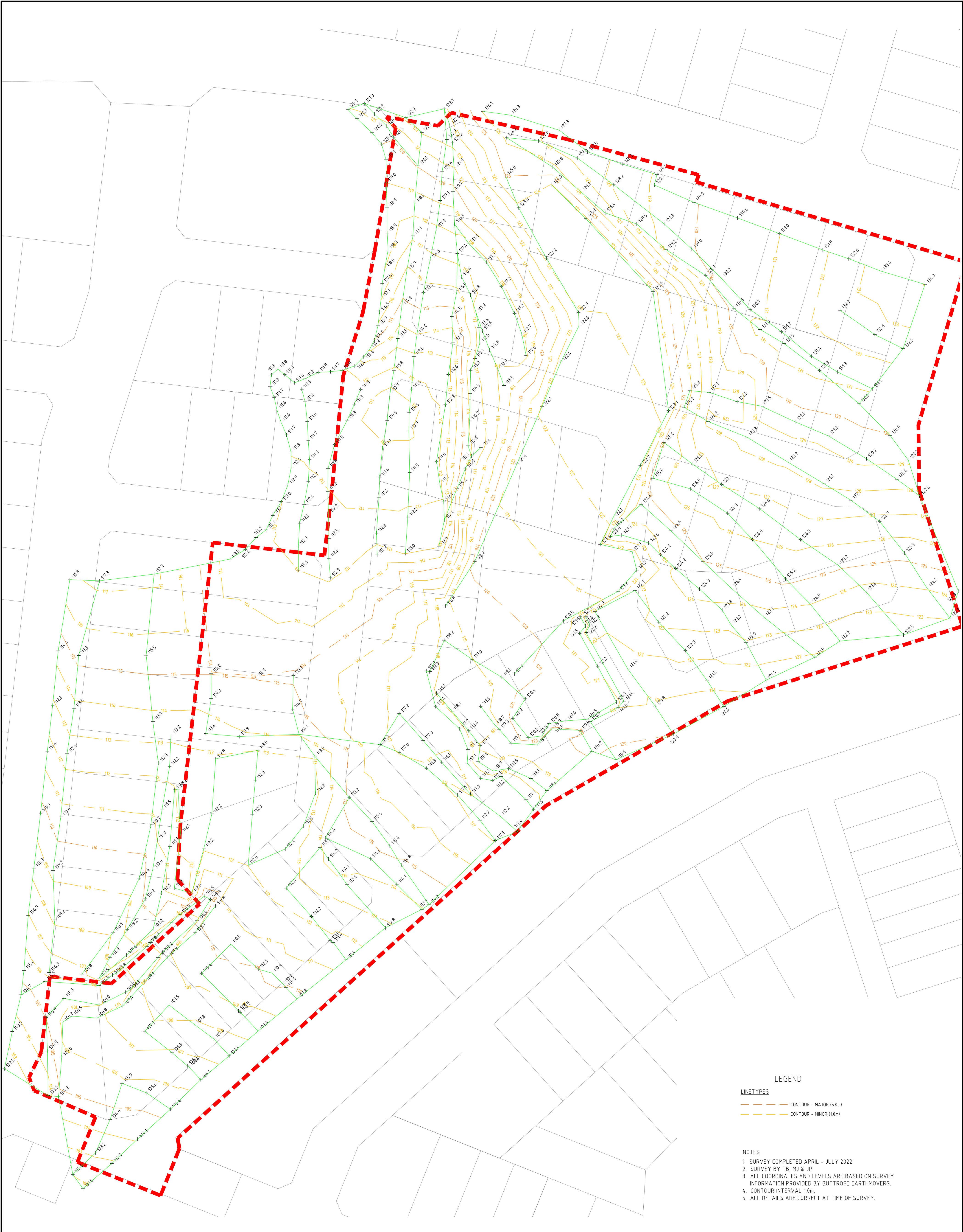
Engineering Surveyors, Civil Design and Drafting

3 Marlow Road
Keswick SA 5035
T 08 8297 4600
F 08 8297 6600
Postal: PO Box 1053
Flinders Park SA 5025
tcs@tcsurveys.com
ABN 12 154 678 008
ACN 128 447 110



60 m





LEGEND

LINETYPES

--- CONTOUR - MAJOR (5.0m)

--- CONTOUR - MINOR (1.0m)

NOTES

1. SURVEY COMPLETED APRIL - JULY 2022.

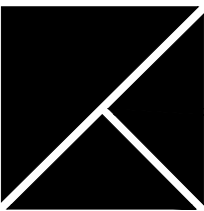
2. SURVEY BY TB, MJ & JP.

3. ALL COORDINATES AND LEVELS ARE BASED ON SURVEY INFORMATION PROVIDED BY BUTTROSE EARTHMOVERS.

4. CONTOUR INTERVAL 1.0m

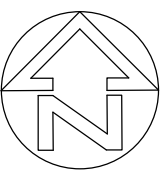
5. ALL DETAILS ARE CORRECT AT TIME OF SURVEY.

Amendments			
Rev.	Subject	Date	Init.



TOTAL
CONSTRUCTION
SURVEYS PTY LTD

3 MARLOW ROAD
KESWICK SA 5035
M 0400 882 614
F 08 8297 4600
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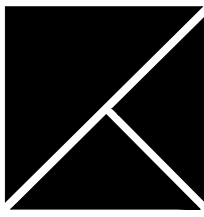
NATURAL SURFACE SURVEY
SPRINGWOOD DISPLAY VILLAGE STAGE 4
GAWLER EAST

Prepared For: BUTTROSE EARTHMOVERS		
Plan No.	Rev No.	Scale 1:500 (A1)
2957/AC/01		Sheet 1 of 1

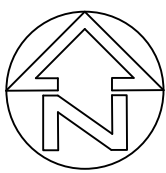
Plan Details	
Surveyed: TCS	Date: Apr - Jul 2022
Drawn: JCP	Date: 11th Aug 2022
Checked:	Date:
Job No: 2957	



Amendments			
Rev.	Subject	Date	Init.

 **TOTAL
CONSTRUCTION
SURVEYS PTY LTD**

3 MARLOW ROAD
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**BULK EARTHWORKS SURVEY
SPRINGWOOD DISPLAY VILLAGE STAGE 4
GAWLER EAST**

Prepared
For: **BUTTROSE EARTHMOVERS**

Plan No.	Rev No.	Scale 1:500 (A1)
2957/AC/03		Sheet 1 of 1

Plan Details

Surveyed: TRB	Date: 12th Oct 2022
Drawn: JCP	Date: 12th Oct 2022
Checked:	Date:
Job No: 2957	