### LEVEL ONE

Reference No.: 1998-174

### **SURVEILLANCE**

### AND INSPECTION REPORT

Carried Out By



PREPARED FOR: -

SYMON BROS. CONSTRUCTIONS PTY LTD



# GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

### **Table of Contents**

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### **Appendices**

Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results



#### GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

Client Name: Symon Bros. Constructions Pty Ltd

Project Name: True North Stage 22 Location: Lysterfield Drive Greenvale

Date: 4<sup>th</sup> of March 2022 Author: Mr. Sam Loza Reference No.: 1998-174

Revision: 0

Project Manager: Mr. Nick Goutzamanis

### 1. Introduction & Scope

At the request of Symon Bros. Construction Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 31<sup>st</sup> of March 2021 to the 2<sup>nd</sup> of March 2022 where a residential development is being constructed. Inspection and testing of stripping, material quality and compaction control tests were carried out to comply with the requirements of AS 3798 Appendix B, Level 1.

The following documentation was submitted to Geotechnical Laboratories by Symon Bros. Constructions Pty Ltd and was used to determine compliance of earthworks in conjunction with the requirements of AS 3798 – 2007.

(1). Detail Plan Drawing No. 303052CR200 (Rev 0).

General site works involved the placement of fill, using mainly on-site derived clay, to bring the fill region to the required finished levels as indicated on the detail plan.

#### 2. Site Preparation

Site inspections were undertaken on the 31<sup>st</sup> of March 2021 confirming that selected areas to be filled were completely stripped of topsoil prior to filling. The brown silty topsoils had been stockpiled around the site for later removal off-site.

Initial proof roll inspections were performed and subsequently throughout the project duration to ensure no significant soft areas were present prior to filling.

#### 3. Fill Material

The fill material used was sourced from on-site excavations. The stockpiled material had been screened to remove any boulders.



#### GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

The fill material is best described as CLAY, brown, grey-brown, slightly moist to moist, medium to high plasticity with fine to coarse grained sand and gravels of granite and basalt origin.

The fill material is consistent with the naturally occurring soils for this region.

Source material was deemed a **Suitable Material** in accordance with guidelines set out in AS 3798 - 2007 Section 4.4.

### 4. Fill Construction Procedure

The following plant (but not always limited to) were engaged in the fill placement process:

- Highway trucks / dump trucks
- A watercart
- A sheepsfoot compactor (825)

The sheepsfoot compactor placed material in horizontal loose layers of approximately 250-300mm. The compactor also performed compaction of the clay fill operating in a criss-cross pattern where possible.

The moisture condition of the fill was closely monitored and moisture conditioning procedures were applied to bring the material closer to its Standard Optimum Moisture Content (AS 1289 5.7.1).

#### 5. Compaction Control Testing

Compaction control testing was performed on-site using a Nuclear Densometer in accordance with AS 1289 5.8.1. Laboratory reference densities were determined from material sampled at each test site location using the Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.

A total of twenty-one compaction tests were performed on the fill construction. Results are presented in Appendix B of this report.

#### 6. Testing Frequency

Testing frequencies were in accordance with **AS 3798 - 2007 Table 8.1** for **Large Scale Operations.** 

Acceptance of fill layers for compaction was based on the requirements of **AS** 3798 - 2007 Table 5.1 Item 1. Residential.



#### GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

As a result, the compliance criteria adopted by Geotechnical Laboratories was a hilf density ratio not less than 95 percent of the maximum hilf density value as determined by the Standard Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.

All test results indicate that the above-mentioned requirements have been successfully achieved.

No moisture criteria was specified.

#### 7. Statement of Compliance

So far as can be determined, Symon Bros. Constructions Pty Ltd has satisfactorily complied with the compaction and construction processes required for the structural filling of this site. As such, structural filling placed on this site by Symon Bros. Constructions Pty Ltd from the 31<sup>st</sup> of March 2021 to the 2<sup>nd</sup> of March 2022 can be categorised as CONTROLLED FILL in accordance with AS 2870-2011.

### 8. <u>Limitations and Liability of this Report</u>

This report has been produced for and remains the property of Symon Bros. Constructions Pty Ltd.

The release of this report to a third party will only occur if Geotechnical Laboratories Pty Ltd has received, in writing, the authority to do so by our client.

Geotechnical Laboratories Pty Ltd will not engage in any third-party communication regarding this report.

Where information has been supplied by the client or third party, the assumption is made that this is correct. Geotechnical Laboratories Pty Ltd will not be held responsible for any inaccuracies supplied.

Test results and controlled fill compliance relates only to fill placed by Symon Bros. Constructions Pty Ltd and for earthworks completed at the time of inspection and testing. Any previous or subsequent earthworks will require a separate evaluation.

For & on behalf of Geotechnical Laboratories Pty Ltd.

Sam Loza

Laboratory Manager.

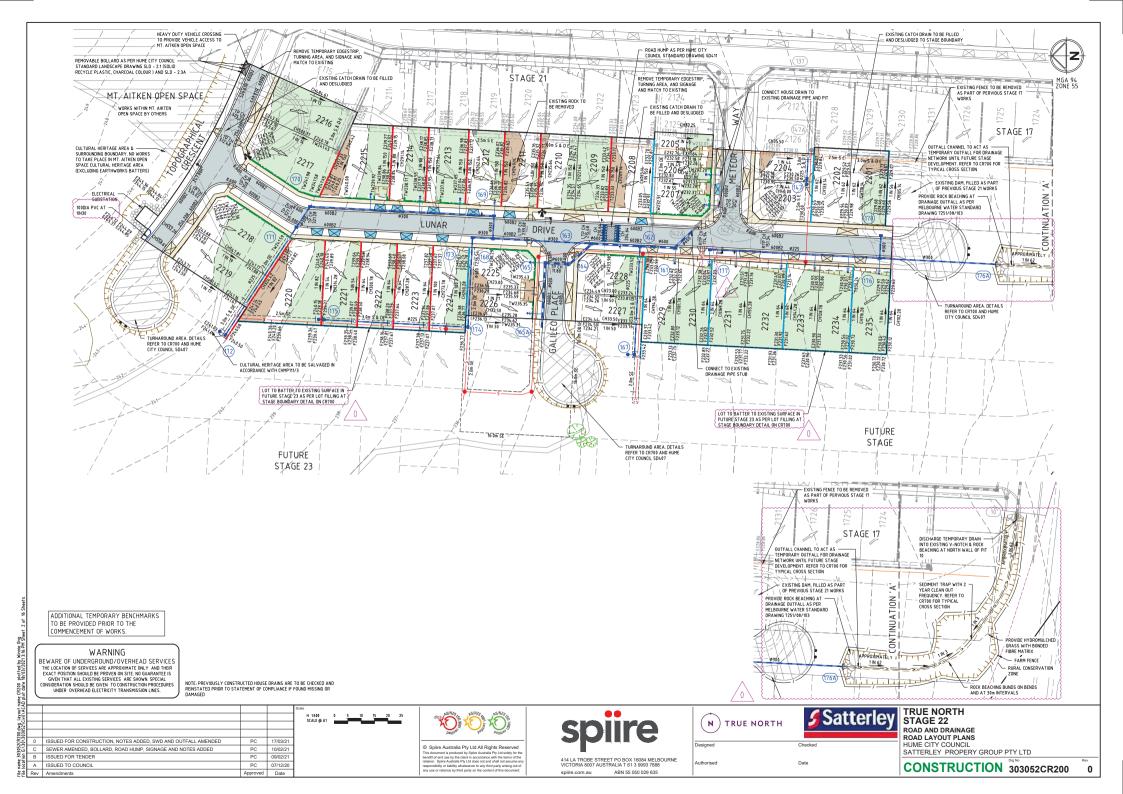
# GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

### LEVEL ONE

## **SURVEILLANCE**

## AND INSPECTION REPORT

## APPENDIX A



# GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

### LEVEL ONE

## **SURVEILLANCE**

## AND INSPECTION REPORT

## APPENDIX B



GEOTECHNICAL LABORATORIES ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1997/606

LOCATION: SYMON BROS - True North Stage 22

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
31/03/21	1		1.86	26.5	96.5	1.93	24.0	175	2.5 Wetter	110.5	0	0	0
31/03/21	2		1.85	26.5	97.0	1.90	23.0	175	3.5 Wetter	114.0	0	0	0
31/03/21	3	Refer to #1997/607 for	1.84	27.0	97.0	1.90	25.5	175	2.0 Wetter	107.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	ı	-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 8:10am Finish Time: 9:50am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

**NATA** 

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm

Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

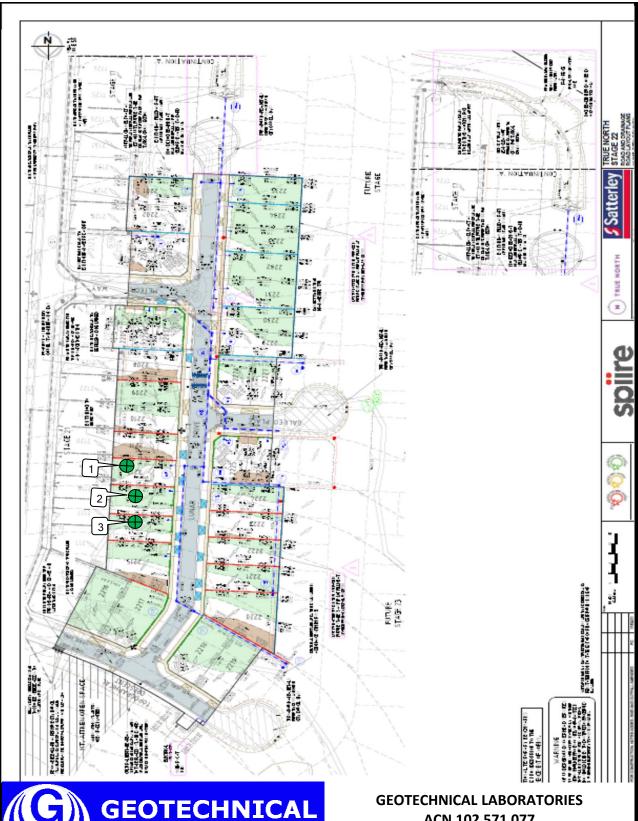
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE (Approved Signatory)

Issue Date: 6/4/2021

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### ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT:	<b>SYMON</b>	BROS

LOCATION: True North Stage 22

Sketch indicating approx. compaction test locations

DATE: 31/03/2021	JOB No.: 1997/607
OPERATOR: SA	CHECKED: KK
SCALE: NTS	FIGURE No: -



GEOTECHNICAL LABORATORIES ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1997/608

LOCATION: SYMON BROS - True North Stage 22

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
1/04/21	1		1.84	25.0	97.0	₩ 1.90	24.0	175	1.0 Wetter	104.0	5	0	0
1/04/21	2		1.88	24.5	97.5	1.93	23.5	175	1.0 Wetter	104.5	0	0	0
1/04/21	3	Refer to #1997/609 for	1.81	21.5	95.0	1.91	20.5	175	0.5 Wetter	103.5	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	,		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	=	=	-	=	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 7:45am Finish Time: 8:05am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

**NATA** 

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm

Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE (Approved Signatory)

Issue Date: 9/4/2021

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### ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

**CLIENT: SYMON BROS** 

LOCATION: True North Stage 22

Sketch indicating approx. compaction test locations

DATE: 1/04/2021	JOB No.: 1997/609
OPERATOR: SA	CHECKED: KK
SCALE: NTS	FIGURE No: -



GEOTECHNICAL LABORATORIES ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1997/636

LOCATION: SYMON BROS - True North, Stage 22

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
9/07/21	1		1.78	32.0	97.0	1.83	30.0	175	2.0 Wetter	106.0	0	0	0
9/07/21	2		1.76	36.0	99.5	1.77	35.5	175	0.5 Wetter	101.5	0	0	0
9/07/21	3	Refer to #1997/637 for	1.80	35.5	101.0	1.79	35.0	175	1.0 Wetter	102.5	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	1	-	1	ı	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Soil Layer thickness: 200mm

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 9:20am Finish Time: 9:40am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

**NATA** 

TECHNICAL

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

<u> 17025 - Testing</u>

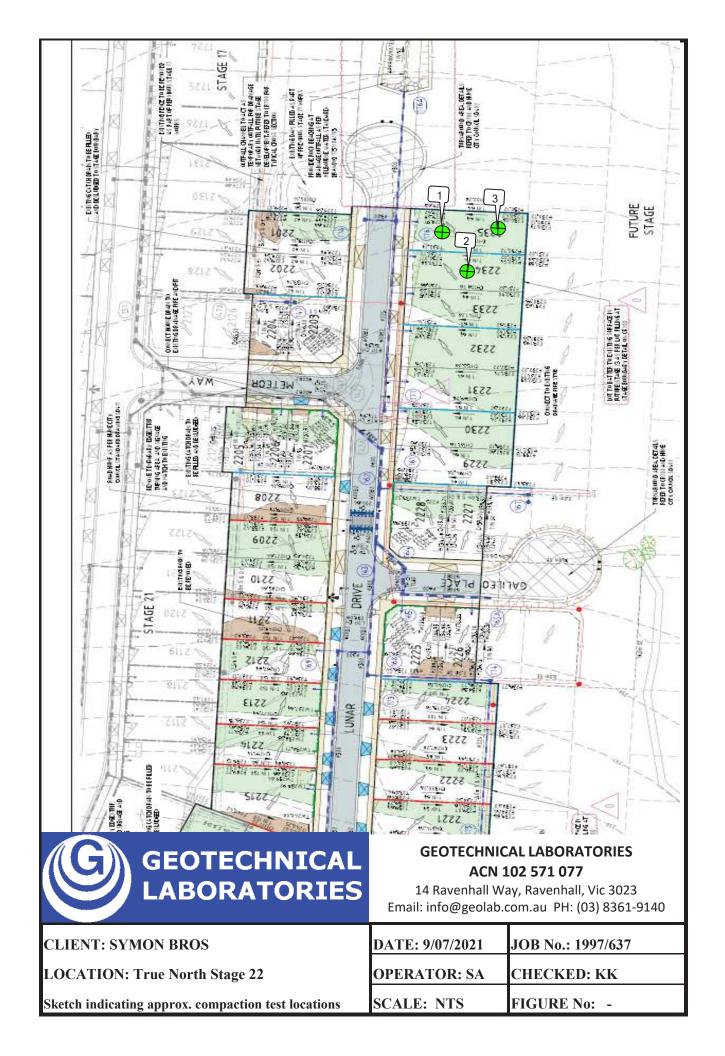
NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 14/7/2021

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GEOTECHNICAL LABORATORIES ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1997/638

LOCATION: SYMON BROS - True North, Stage 22

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
10/07/21	1		1.76	35.0	96.0	1.83	32.5	175	2.5 Wetter	107.5	0	0	0
10/07/21	2		1.78	34.0	97.0	1.83	32.0	175	2.0 Wetter	106.0	0	0	0
10/07/21	3	Refer to #1997/639 for approx. test site	1.79	32.5	97.5	1.83	31.5	175	1.5 Wetter	104.0	0	0	100
-	-	locations.	-	-	1	-	1	1	-	-	-	-	-
-	-		-	-	1	-	1	ı	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Soil Layer thickness: 200mm

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 9:50am Finish Time: 10:20am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

**NATA** 

TECHNICAL

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

<u> 17025 - Testing</u>

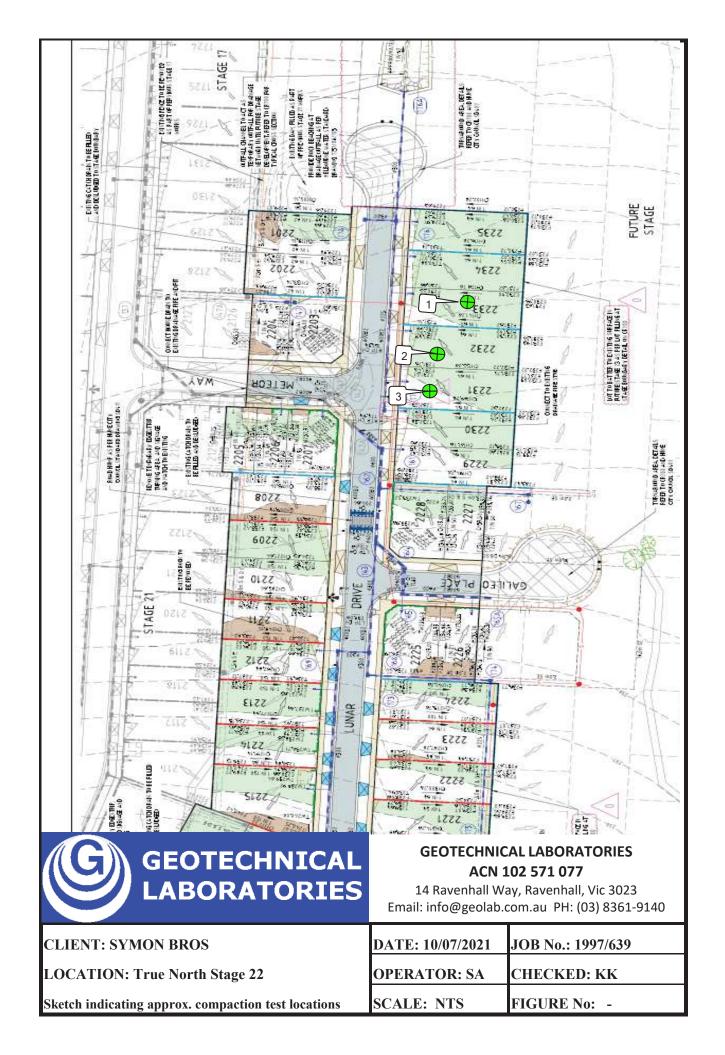
NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 14/7/2021

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14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au

### **DAILY SUMMARY - FIELD DENSITY TESTS**

REPORT NO.: # 1997/640

LOCATION: SYMON BROS - True North, Stage 22

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
14/07/21	1		1.81	28.5	97.5	1.86	28.0	175	0.5 Wetter	101.0	0	0	0
14/07/21	2		1.85	26.5	99.0	1.87	27.0	175	0.5 Drier	99.0	0	0	0
14/07/21	3	Refer to #1997/641 for	1.87	29.0	100.0	1.87	29.0	175	0.0 Drier	100.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	ı	-	-	-	-	1	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

PH: (03) 8361-9140

Start Time: 8:35am Finish Time: 8:50am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

NATA

TECHNICAL COMPETENCE Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

<u>17025 - Testing</u>

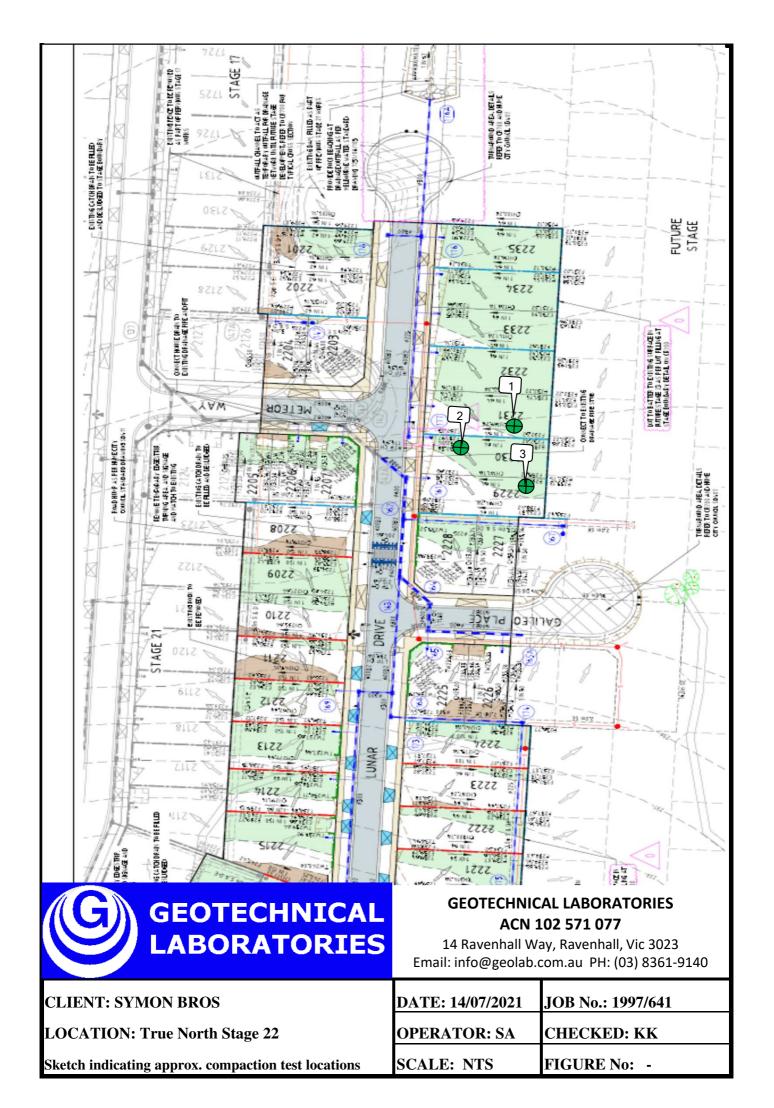
NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 16/7/2021

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REPORT NO.: # 1997/642

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

SYMON BROS - True North, Stage 22 LOCATION:

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
15/07/21	1		1.87	35.5	100.5	1.85	32.5	175	3.5 Wetter	110.0	0	0	0
15/07/21	2		1.98	32.0	103.5	<b>№</b> 1.91	29.0	175	3.0 Wetter	110.0	8	0	0
15/07/21	3	Refer to #1997/643 for	1.87	31.0	99.0	<b>№</b> 1.89	28.5	175	2.0 Wetter	107.5	5	0	0
-	-	approx. test site locations.	1	1	-	ı	ı	ı	,	-	ı	-	-
-	-		1	1	-	ı	ı	1	1	-	1	-	-
-	-		-	-	-	ı	ı	ı	-	-		-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 8:45am Finish Time: 9.05am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

NATA

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Indicates APCWD

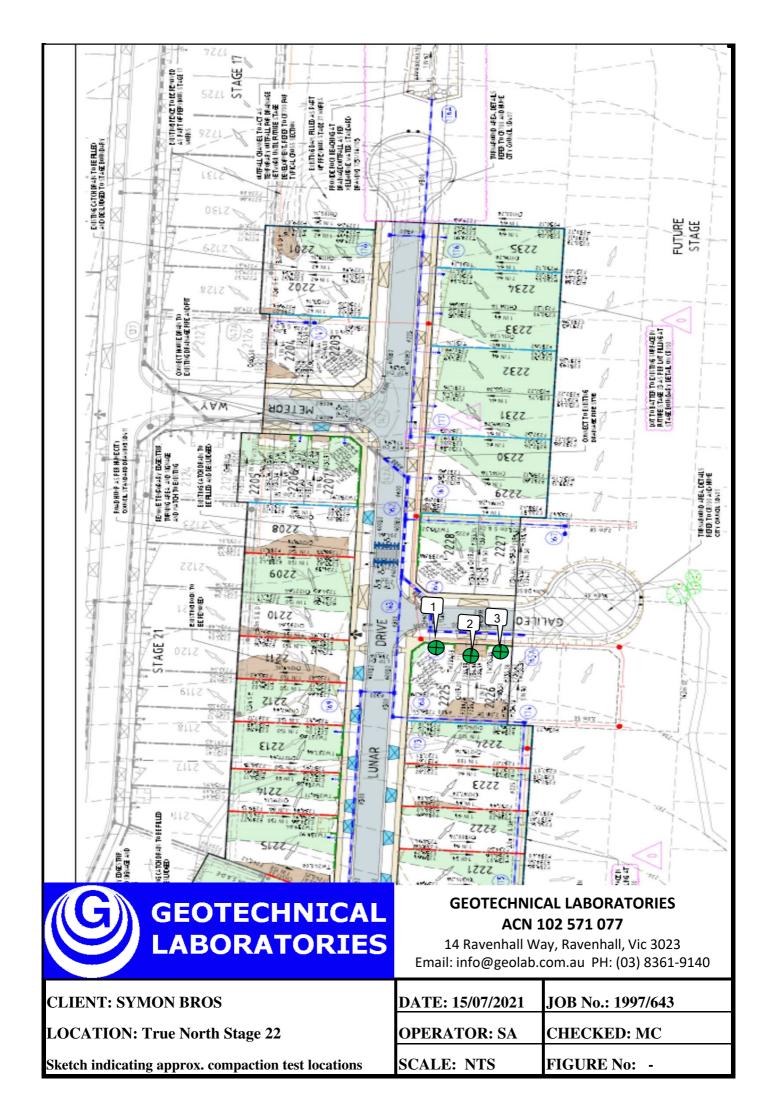
Accredited for compliance with ISO/IEC

NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 20/7/2021





REPORT NO.: # 1997/697

LOCATION: SYMON BROS - True North, Stage 22

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
2/03/22	1		1.95	21.0	97.0	2.01	21.0	175	0.0 Drier	99.0	0	0	0
2/03/22	2		1.86	29.5	98.0	1.90	26.0	175	3.5 Wetter	113.0	0	0	0
2/03/22	3	Refer to #1997/698 for	1.70	34.5	97.5	1.74	35.0	175	0.5 Drier	99.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4. Start Time: 12:55pm Finish Time: 1:10pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

NATA

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

<u>Accredited for compliance with ISO/IEC</u> 17025 - Testing

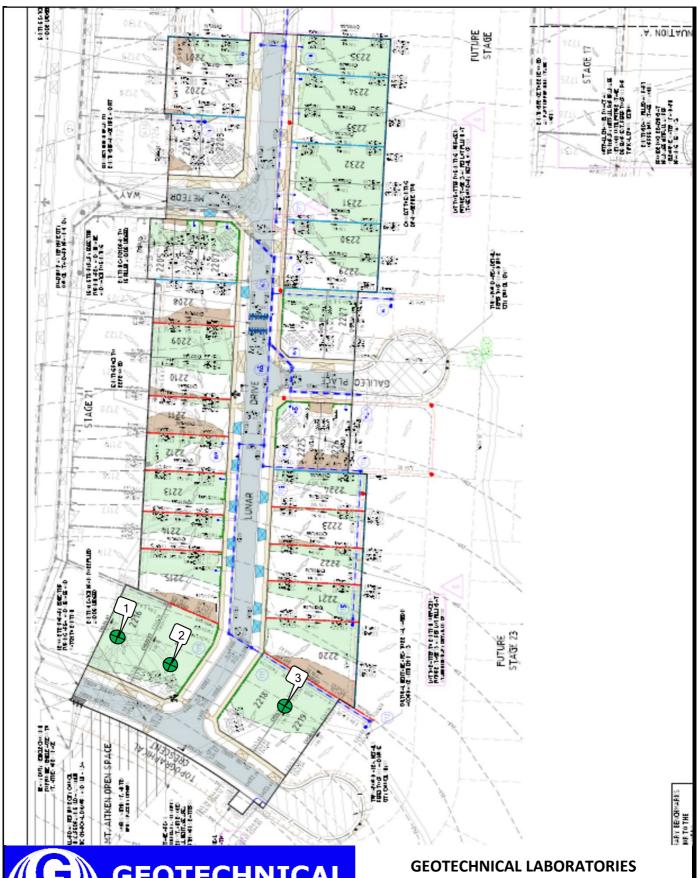
NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 3/3/2022

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## ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

**CLIENT: SYMON BROS** 

**LOCATION: True North Stage 22** 

Sketch indicating approx. compaction test locations

JOB No.: 1997/698 DATE: 2/03/2022 CHECKED: KK **OPERATOR: SA** SCALE: NTS FIGURE No: -