

LEVEL ONE

Reference  
No.: 9189-025

SURVEILLANCE

AND INSPECTION REPORT

*Carried Out  
By*



PREPARED FOR: -

SYMON BROS. CONSTRUCTIONS PTY LTD



## Table of Contents

1)	Introduction & Scope.....	2
2)	Site Preparation.....	2
3)	Fill Material.....	2
4)	Fill Construction Procedure.....	3
5)	Compaction Control Testing.....	3
6)	Testing Frequency.....	3
7)	Statement of Compliance.....	4
8)	Limitations of this Report.....	4

## Appendices

Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results



Client Name: Symon Bros. Constructions Pty Ltd

Project Name: Ellery Estate, Stage 10

Date: 26<sup>th</sup> of August 2024

Author: Mr. Thomas Crowe

Reference No.: 9189-025

Revision: 0

## **1. Introduction & Scope**

At the request of Symon Bros. Constructions Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 6<sup>th</sup> of June 2024 to the 23<sup>rd</sup> of August 2024 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). Layout Plan Reference No. 8625<sup>E</sup>/<sub>10</sub> (Rev. C)

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

## **2. Site Preparation**

Site inspections were undertaken on the 28<sup>th</sup> of May 2024 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**

It is understood that the fill material used was sourced from on-site excavations, mainly drainage trenches and road boxing.



The fill material is best described as a silty CLAY, brown, dark grey, slightly moist to moist, medium to high plasticity with basalt gravel and occasional cobbles.

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
- A watercart
- A sheepsfoot compactor
- A dozer

The sheepsfoot compactor and dozer placed material in horizontal loose layers of approximately 250-300mm. The sheepsfoot compactor performed compaction of the clay fill operating in a forwards and backwards pattern.

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-eight 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 Item 1 - Large Scale Operations.**

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



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

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

No moisture criterion 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 6<sup>th</sup> of June 2024 to the 23<sup>rd</sup> of August 2024 can be categorised as CONTROLLED FILL in accordance with AS 2870-2011.

### **8. Limitations and Liability of this Report**

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.

Thomas Crowe  
Technical Manager



LEVEL ONE  
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APPENDIX A

STREET NAME	RESERVE			WATER			GAS			ELECTRICITY			FIBRE TO THE HOME	BR. OF KERB	JOINT TRENCHING
	15.45	11.45	11.45	DM	DMV	DMV	DMV	DMV	DMV	DMV	DMV	DMV			
LANDOVER ROAD	15.45	11.45	11.45	1.80 E	1.80 E	0.70 E	3.30 W	1.00 BOK	2.55 W	1.367.28E	2.674.28E	2.674.28E	2.674.28E	W & G, F & E	
VELGARD STREET	16.00	3.05 N	2.55 N	2.10 N	2.45 S	1.00 BOK	1.90 S	1.794.19S	4.204.20S	4.204.20S	4.204.20S	4.204.20S	W & G, F & E		
KELEWAN STREET	16.00	3.05 N	2.55 S	2.10 S	2.80 N	1.00 BOK	1.85 N	1.794.19S	4.204.20S	4.204.20S	4.204.20S	4.204.20S	W & G, F & E		
BLACKISTON ROAD	25.00	3.10 S	2.55 S	2.10 S	3.35 N	1.00 BOK	2.70N	1.70 S	3.554.65S	3.554.65S	3.554.65S	3.554.65S	W & G, F & E		

NOTE: a) 1 Indicates final offsets when road is widened to 17m. Current road width is 15.45m.  
 b) Street trees to be located in the centre of nature strips.

SHT. No.	VER.	DRAWING INDEX	
		DESCRIPTION	
1	C	LAYOUT PLAN & SERVICES SCHEDULE	
2	A	NOTES, PAYMENT COMPOSITION & DETAILS	
3	A	HYDROGRAPHIC DATA	
4	A	LONGITUDINAL & CROSS SECTIONS - LANDOVER ROAD	
5	A	LONGITUDINAL SECTIONS - BLACKISTON ROAD	
6	A	CROSS SECTIONS - BLACKISTON ROAD	
7	A	LONGITUDINAL & CROSS SECTIONS - VELGARD STREET	
8	A	LONGITUDINAL & CROSS SECTIONS - KELEWAN STREET	
9	B	DRAINAGE LONGITUDINAL SECTIONS & FIT SCHEDULE	
10	A	DRAINAGE LONGITUDINAL SECTIONS	
11	A	DRAINAGE LONGITUDINAL SECTIONS	
12	A	SEWERAGE & LINEMARKING PLAN	

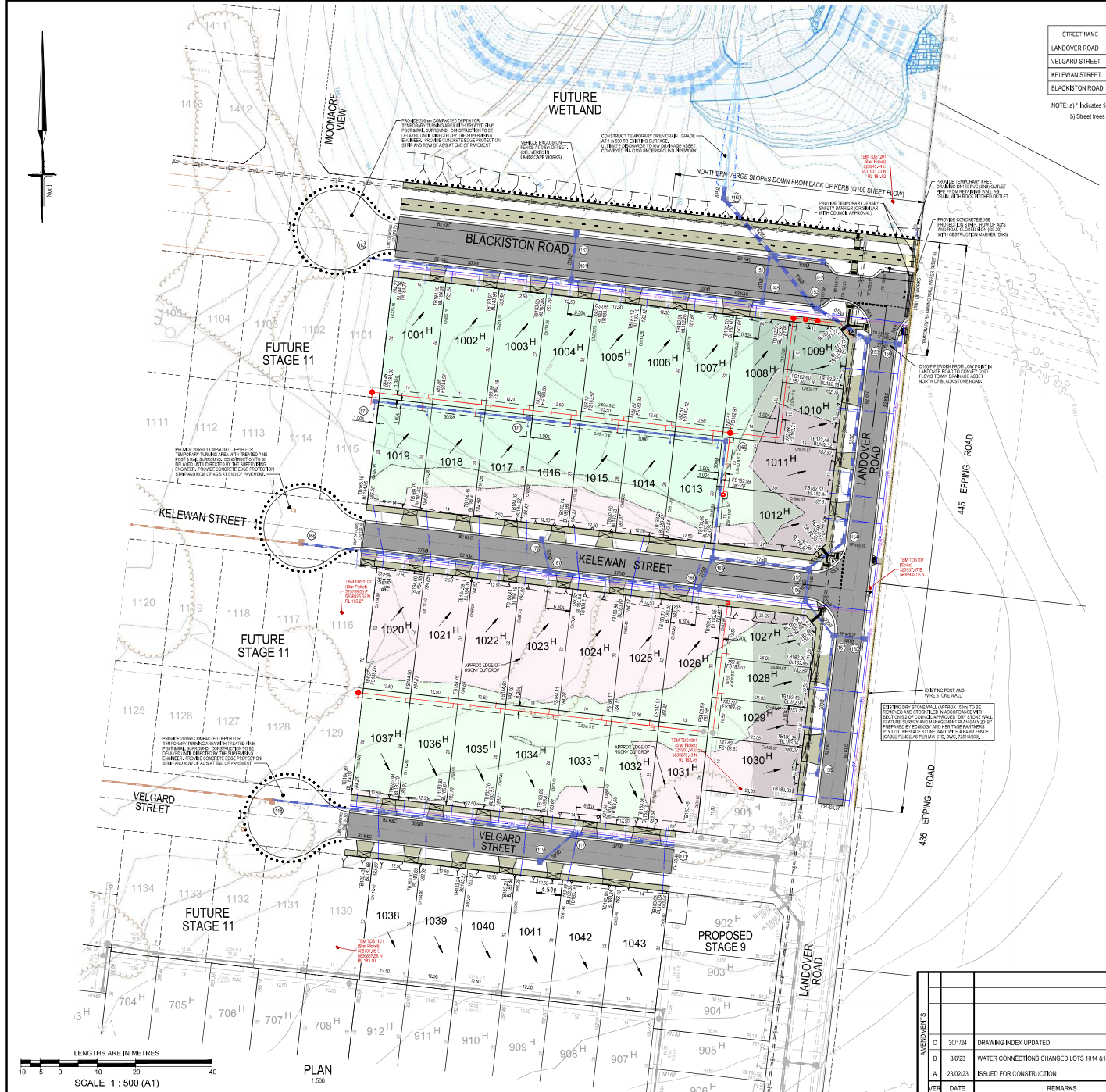
**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

- ATTENTION TO CONTRACTOR**
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN PROVIDED FOR SET OUT PURPOSES, MATCHES THE TEM COORDINATES SHOWN.
  - CONTRACTOR TO ENSURE THAT THE SITE IS PRECISED AND OR SET OUT CHECKED BY THE LICENSED SURVEYOR RESPONSIBLE FOR CERTIFYING THE PLAN OF SUBMISSION PRIOR TO UNDERGROUND INFRASTRUCTURE BEING INSTALLED.
  - WHERE CONCRETE WORKS ABOUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVED MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.



**SYMBOL LEGEND**

Drains	Prop. Stage	Ex Natural FS Level
Sewer < 3000	Prop. Stage	FS of Building Line
Sewer > 3000	Prop. Stage	Top/Toe of Batter
Water (DW)	Prop. Stage	Top/Bottom RIV Level
Water (NDW)	Prop. Stage	100yr Flood Level
House Drain	Prop. Stage	Fill Proposed (<0.3m@0.3m)
Property Inlet	Prop. Stage	Proposed
Street Sign	Prop. Stage	Cut Proposed
Rock Ret Wall	Prop. Stage	Asphalt Surface Prop.
Sleeper Ret Wall	Prop. Stage	Concrete Surface Prop.
Concrete 50mm	Prop. Stage	Tree To Be Removed
Concrete 100mm	Prop. Stage	Tree To Be Retained with Protection Zone (TPZ)
Street Tree without/with	Prop. Stage	
Passive Irrigation (Refer Detail)	Prop. Stage	



LENGTHS ARE IN METRES  
 SCALE 1 : 500 (A1)

		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 calo street hawthorn east, 3123, telephone 8823 2300 fax no. 8823 2310
MELWAY REF. 359-B10 SURVEY BPD DESIGN DG DRAWN DG		<b>ELLERY ESTATE</b> <b>STAGE 10</b> LAYOUT PLAN AND SERVICES SCHEDULE		MUNICIPALITY <b>WHITTLESEA</b> REFERENCE <b>8625 E/10</b>
AMENDMENTS C 30/1/24 DRAWING INDEX UPDATED B 8/6/23 WATER CONNECTIONS CHANGED LOTS 1014 & 1028 A 23/0/23 ISSUED FOR CONSTRUCTION	CHECKED C,HAGEN SCALE As Shown DATUM AHD DATE Jan'23	SHEET 1 OF 12		C



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

## DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9189/007

LOCATION: SYMON BROS - Ellery Estate, Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)
6/06/24	1	<i>Refer to #9189/008 for approx. test site locations.</i>	1.98	24.0	102.0	1.94	24.0	175	0.0 Drier	100.0	0	0	250
6/06/24	2		2.02	24.5	102.5	1.96	24.5	175	0.0 Drier	99.0	0	0	250
6/06/24	3		1.98	23.5	99.0	✘ 2.00	23.5	175	0.0 Drier	99.0	8	0	250
6/06/24	4		1.95	24.0	101.0	1.93	25.0	175	1.0 Drier	95.0	0	0	250
6/06/24	5		2.04	25.0	105.5	✘ 1.94	25.0	175	0.5 Wetter	101.0	4	0	250
6/06/24	6		2.01	25.5	104.0	1.93	25.0	175	1.0 Wetter	103.0	0	0	250

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:30am Finish Time: 12:30pm

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.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

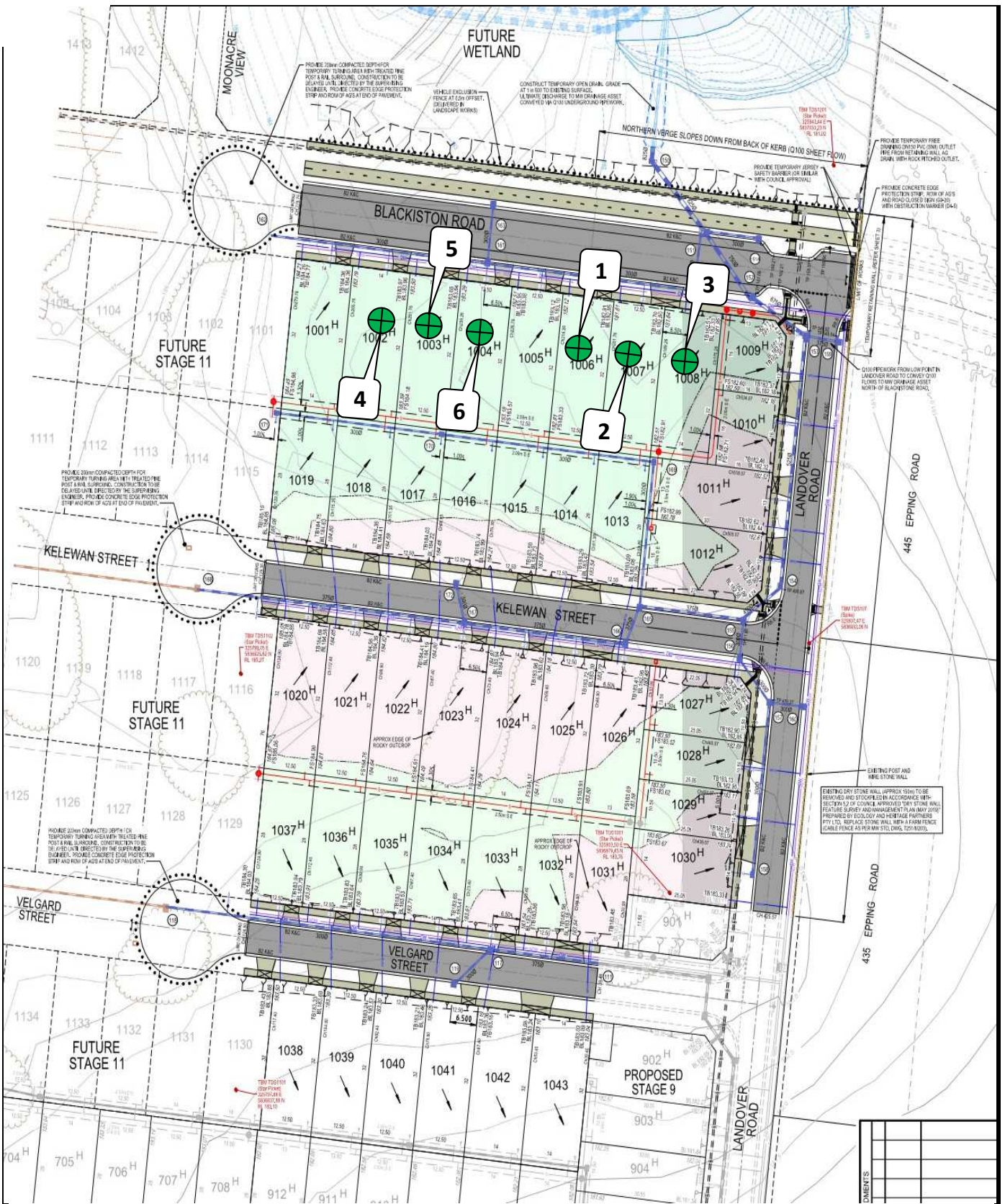


*Accredited for compliance with ISO/IEC  
17025 - Testing*

*NATA Accredited Laboratory Number 14561*

**MICK CROWE**  
(Approved Signatory)

Issue Date: 14/6/2024



**GEOTECHNICAL  
LABORATORIES**

**GEOTECHNICAL LABORATORIES**

**ACN 102 571 077**

14 Ravenhall Way, Ravenhall, Vic 3023

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

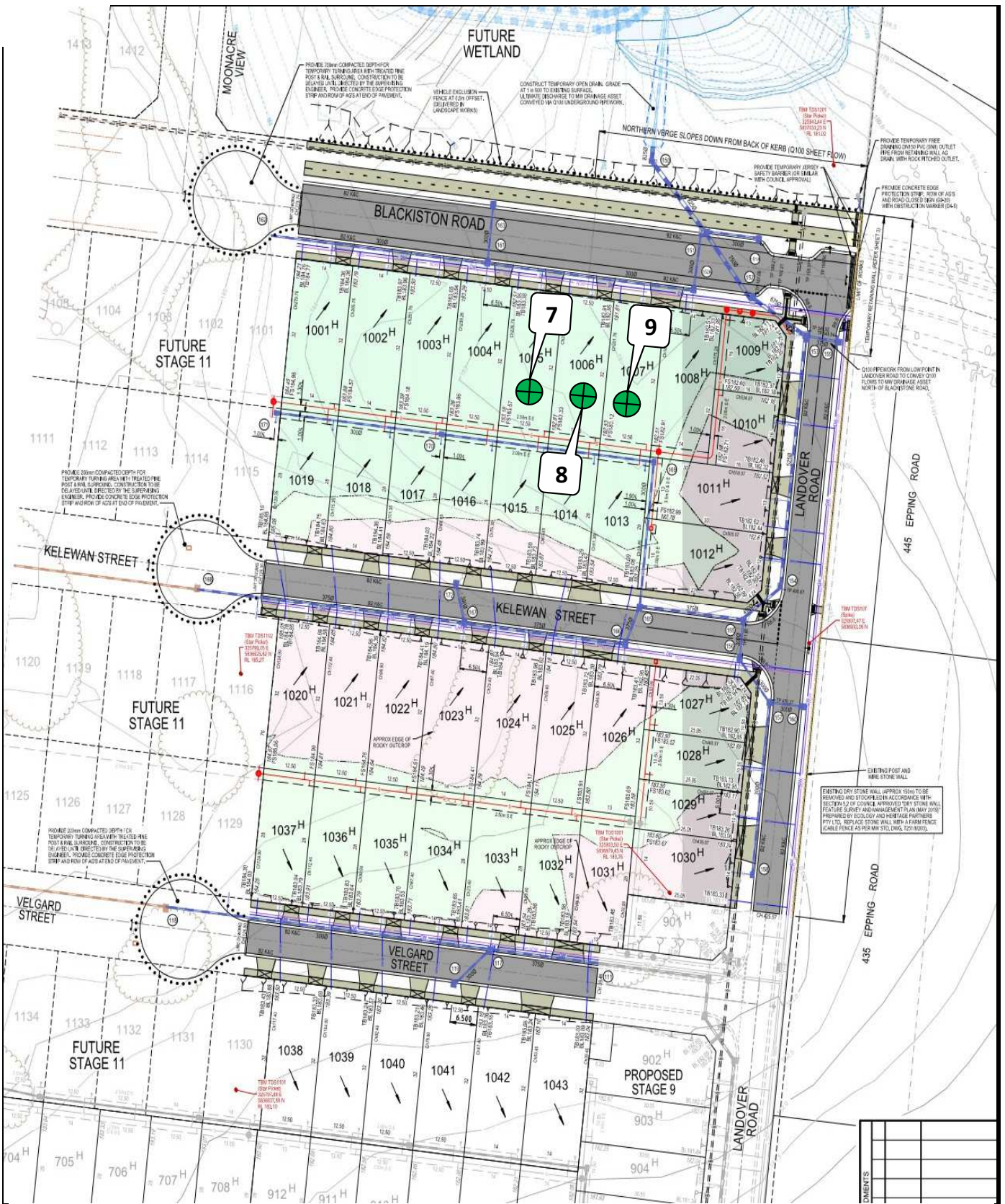
**CLIENT: SYMON BROS**  
**LOCATION: Ellery Estate, Stage 10**  
**Sketch indicating compaction test locations**

**DATE: 6/06/2024**  
**OPERATOR: SA**  
**SCALE: NTS**

**JOB No.: 9189/008**  
**CHECKED: KK**  
**FIGURE No: -**







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**CLIENT: SYMON BROS**  
**LOCATION: Ellery Estate, Stage 10**  
**Sketch indicating compaction test locations**

**DATE: 7/06/2024**  
**OPERATOR: FH**  
**SCALE: NTS**

**JOB No.: 9189/011**  
**CHECKED: KK**  
**FIGURE No: -**



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### DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9189/014

LOCATION: SYMON BROS - Ellery Estate, Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)	
17/06/24	10	<i>Refer to #9189/015 for approx. test site locations.</i>	1.99	19.0	99.5	✘ 2.00	20.0	175	1.0 Drier	95.0	6	0	0	
17/06/24	11		1.98	19.0	97.5	✘ 2.04	18.5	175	0.0 Wetter	101.5	4	0	0	
17/06/24	12		2.08	21.5	101.0	✘ 2.05	21.5	175	0.0 Drier	100.0	8	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:45am Finish Time: 12:10pm

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.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

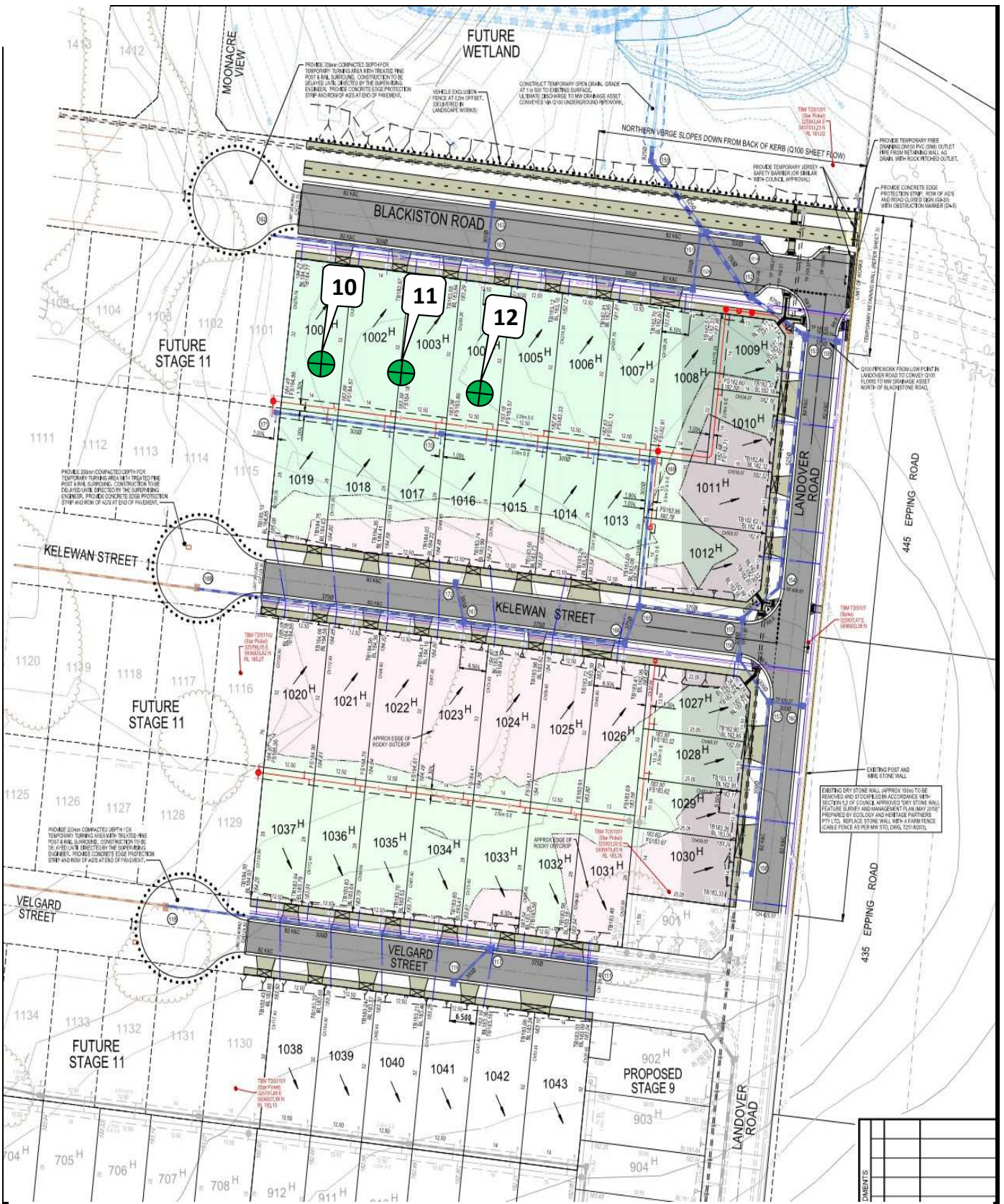
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE  
(Approved Signatory)

Issue Date: 19/6/2024





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**CLIENT: SYMON BROS**

**LOCATION: Ellery Estate, Stage 10**

**Sketch indicating compaction test locations**

**DATE: 17/06/2024**

**OPERATOR: FH**

**SCALE: NTS**

**JOB No.: 9189/015**

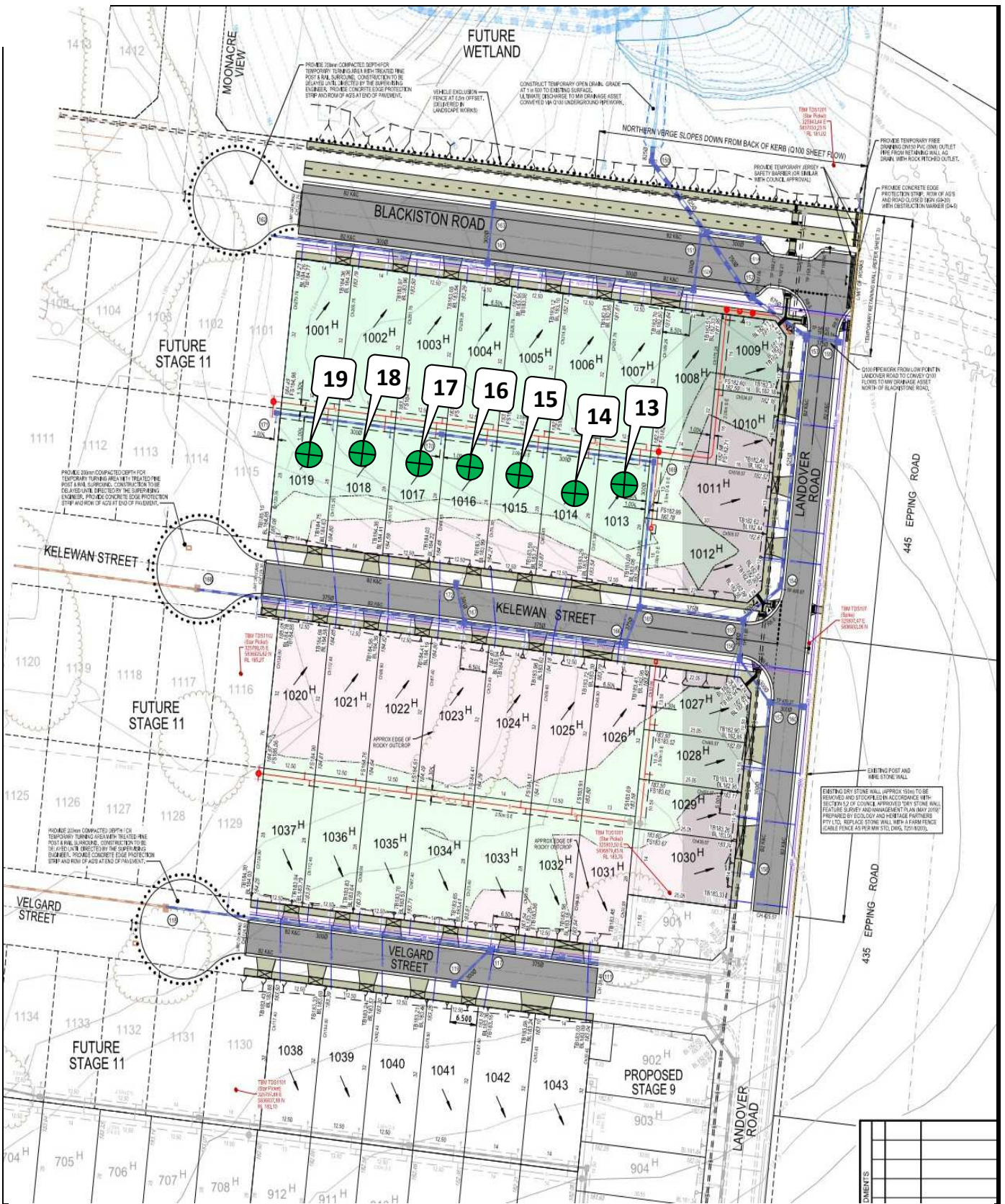
**CHECKED: KK**

**FIGURE No: -**









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14 Ravenhall Way, Ravenhall, Vic 3023

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

<b>CLIENT: SYMON BROS</b>	<b>DATE: 18/06/2024</b>	<b>JOB No.: 9189/018</b>
<b>LOCATION: Ellery Estate, Stage 10</b>	<b>OPERATOR: FH</b>	<b>CHECKED: NF</b>
<b>Sketch indicating compaction test locations</b>	<b>SCALE: NTS</b>	<b>FIGURE No: -</b>



**GEOTECHNICAL LABORATORIES**  
**ACN 102 571 077**

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## DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9189/019

LOCATION: SYMON BROS - Ellery Estate, Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)	
22/08/24	20	<i>Refer to #9189/020 for approx. test site locations.</i>	1.95	22.5	97.0	2.01	23.0	175	0.5 Drier	98.0	0	0	0	
22/08/24	21		2.01	24.0	99.0	✘ 2.02	23.5	175	0.0 Wetter	101.0	4	0	0	
22/08/24	22		2.08	24.5	103.5	✘ 2.01	24.0	175	0.5 Wetter	102.0	4	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:00am Finish Time: 12:00pm

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.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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



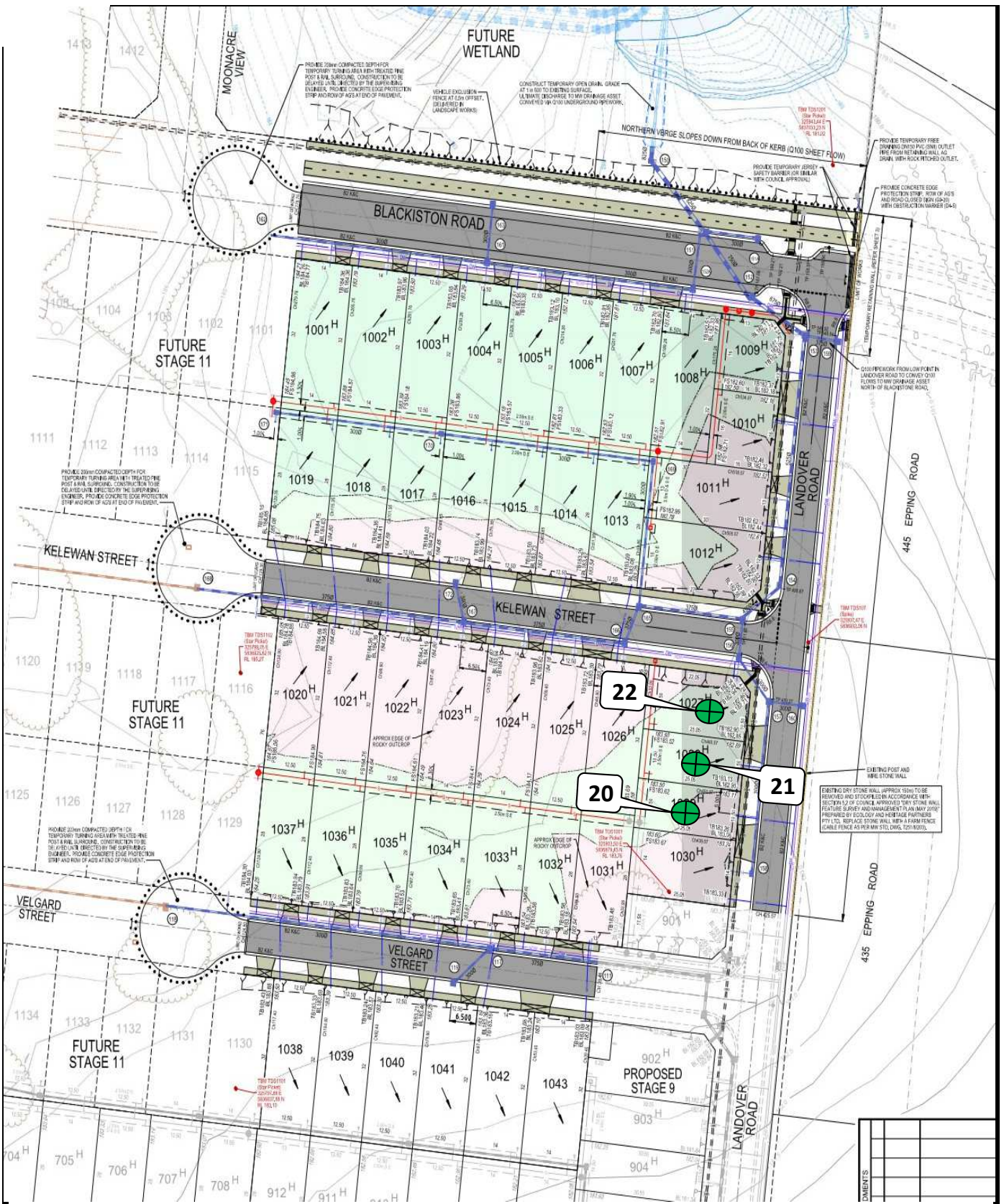
*Accredited for compliance with ISO/IEC  
17025 - Testing*

*NATA Accredited Laboratory Number 14561*

**MICK CROWE**  
(Approved Signatory)

Issue Date: 26/8/2024





**GEOTECHNICAL  
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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: Ellery Estate, Stage 10**

**Sketch indicating compaction test locations**

**DATE: 22/08/2024**

**OPERATOR: SG**

**SCALE: NTS**

**JOB No.: 9189/020**

**CHECKED: KK**

**FIGURE No: -**



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

REPORT NO.: # 9189/022

LOCATION: SYMON BROS - Ellery Estate, Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)
23/08/24	23	<i>Refer to #9189/023 for approx. test site locations.</i>	2.08	20.5	99.5	✘ 2.09	19.5	175	1.0 Wetter	105.0	4	0	0
23/08/24	24		2.01	22.0	100.5	2.00	20.0	175	2.0 Wetter	109.5	0	0	0
23/08/24	25		2.09	20.0	101.0	2.06	20.5	175	0.5 Drier	97.5	0	0	0
23/08/24	26		2.08	20.5	100.0	2.08	19.0	175	1.5 Wetter	107.5	0	0	0
23/08/24	27		1.92	21.0	95.5	2.01	22.0	175	0.5 Drier	96.5	0	0	0
23/08/24	28		2.04	20.0	98.5	2.07	20.0	175	0.0 Drier	100.0	0	0	0

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:00pm Finish Time: 1:30pm

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.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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



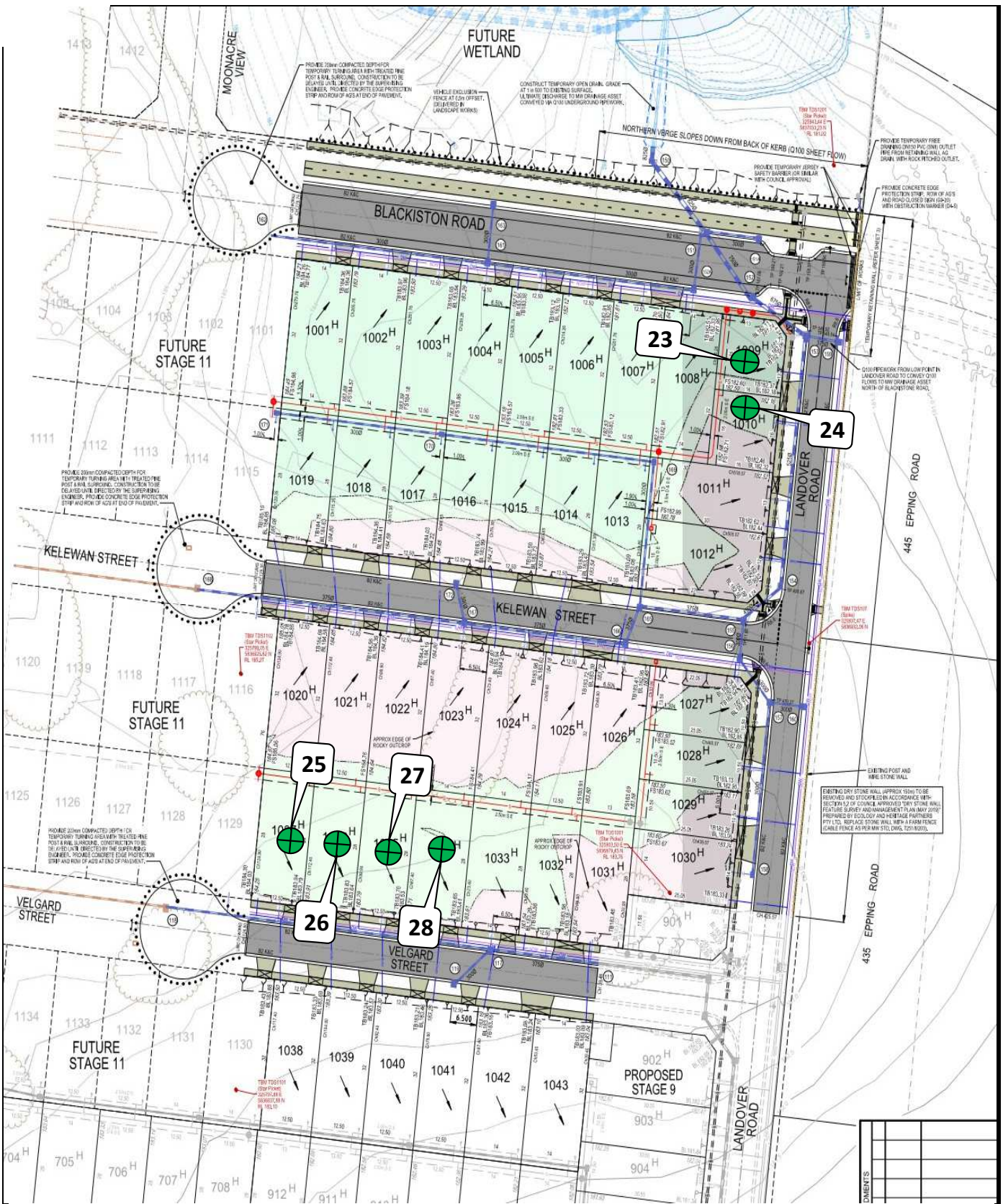
*Accredited for compliance with ISO/IEC  
17025 - Testing*

*NATA Accredited Laboratory Number 14561*

**MICK CROWE**  
(Approved Signatory)

Issue Date: 26/8/2024





**GEOTECHNICAL  
LABORATORIES**

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**ACN 102 571 077**

14 Ravenhall Way, Ravenhall, Vic 3023

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

<b>CLIENT: SYMON BROS</b>	<b>DATE: 23/08/2024</b>	<b>JOB No.: 9189/023</b>
<b>LOCATION: Ellery Estate, Stage 10</b>	<b>OPERATOR: SG</b>	<b>CHECKED: KK</b>
<b>Sketch indicating compaction test locations</b>	<b>SCALE: NTS</b>	<b>FIGURE No: -</b>