

LEVEL ONE

Reference
No.: 2306-064

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: The Grove West Stage 66

Date: 7th December 2021

Author: Mr. Sam Loza

Reference No.: 2306-064

Revision: 0

Project Manager: Mr. George Dimopoulos

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 28th of June 2021 to the 30th of June 2021 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) Road & Drainage Layout Plan Drawing No. 2190E-66-91 – Rev B.

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 28th of June 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.

Proof roll inspections were performed 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 site cut areas.



The fill material is best described as a silty CLAY, brown, grey-brown, slightly moist to moist, medium to high plasticity with basalt gravels and 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:

- Dump trucks & Highway trucks
- A watercart
- A sheepsfoot compactor (815)

The sheepsfoot compactor and scrapers placed material in horizontal loose layers of approximately 250-300mm. The sheepsfoot compactor also performed compaction of the clay fill operating in a criss-cross 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 nine 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.**



As a result, the compliance criteria adopted by Geotechnical Laboratories was a half density ratio not less than 95 percent of the maximum half density value as determined by the Standard Half 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 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 28th of June 2021 to the 30th of June 2021 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.

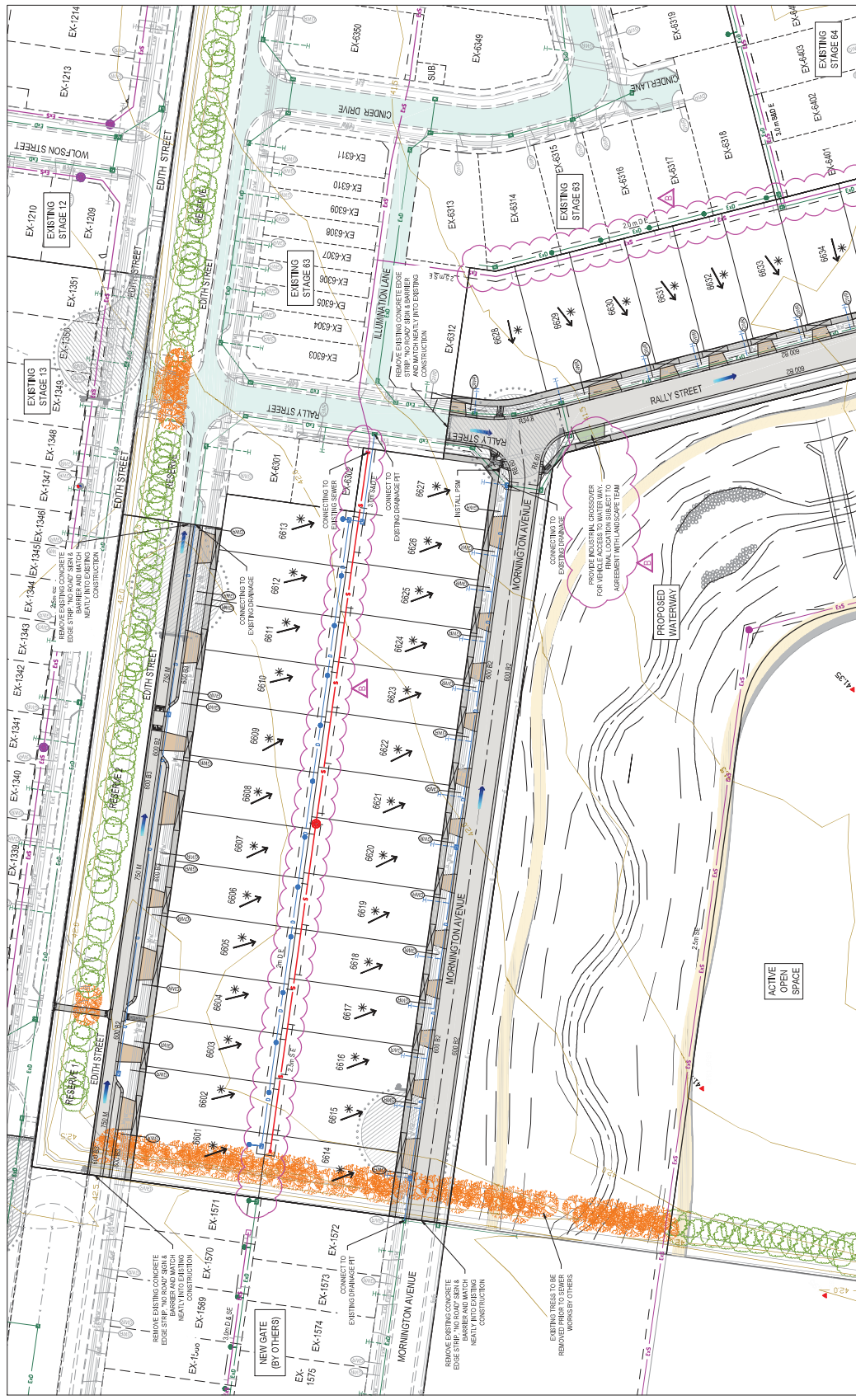
For & on behalf of
Geotechnical Laboratories Pty Ltd.

Sam Loza
Laboratory Manager.



LEVEL ONE
SURVEILLANCE
AND INSPECTION REPORT

APPENDIX A



ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH TABLE				KERB TYPE	STREET	WIDTH (m)	STREET
		UP TO 10	10 TO 20	20 TO 30	30 TO 40				
LEITH STREET (LOTS 690-693)	10.80	2.00	2.50	3.00	ES	-	5.75		
LEITH STREET (LOTS 695-697)	10.80	2.00	3.00	3.50	ES	750 x KERB	3.45		
WILSON STREET (LOTS 698-743)	14.50	6.00	7.50	7.50	ES	ES	4.35	2.45	
WILSON STREET (LOTS 745-747)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 749-750)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 751-752)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 753-754)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 755-756)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 757-758)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 759-760)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 761-762)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 763-764)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 765-766)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 767-768)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 769-770)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 771-772)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 773-774)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 775-776)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 777-778)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 779-780)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 781-782)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 783-784)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 785-786)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 787-788)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 789-790)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 791-792)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 793-794)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 795-796)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 797-798)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 799-800)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 801-802)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 803-804)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 805-806)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 807-808)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 809-810)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 811-812)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 813-814)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 815-816)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 817-818)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 819-820)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 821-822)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	
WILSON STREET (LOTS 823-824)	14.50	6.00	7.50	7.50	ES	ES	4.35	4.35	

Drawing Index

WARNING


BEWARE OF UNDERGROUND SERVICES

Locations of underground services are approximate only and their exact position should be proven on site.

To guarantee is given that all existing services are shown, we all underground services before commencement of works.

DIAL 1100 BEFORE YOU DIG


www.1100.com.au




SMEC

Members of The Shaw Group

10000 17th Avenue East
Suite 1000
Calder Square, Tower 1 Level 28
Malvern, VIC 3009
Ph: 03 9514 1000



N



0 5 10 20
Scale: 1:500

SCALE AS SHOWN AT 1



<p>The Grove West - Stage 66</p> <p>Wyndham city council</p> <p>Functional Design</p> <p>Layout Plan - 1</p>	<p>SHEET No.</p> <p>01 of 06</p>	<p>REVISION</p> <p>B</p>
--	----------------------------------	--------------------------

DOI: 10.1002/for.2193E-03-01,doi)



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.: # 2305/300

LOCATION: SYMON BROS - The Grove West Stage 66

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	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)
28/06/21	1	<i>Refer to #2305/301 for approx. test site locations.</i>	1.93	27.0	102.5	1.87	28.5	175	2.0 Drier	94.0	0	0	0
28/06/21	2		1.87	27.5	101.5	1.84	29.5	175	2.0 Drier	93.0	0	0	0
28/06/21	3		1.88	27.5	97.0	1.94	28.0	175	0.5 Drier	98.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:25am 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)

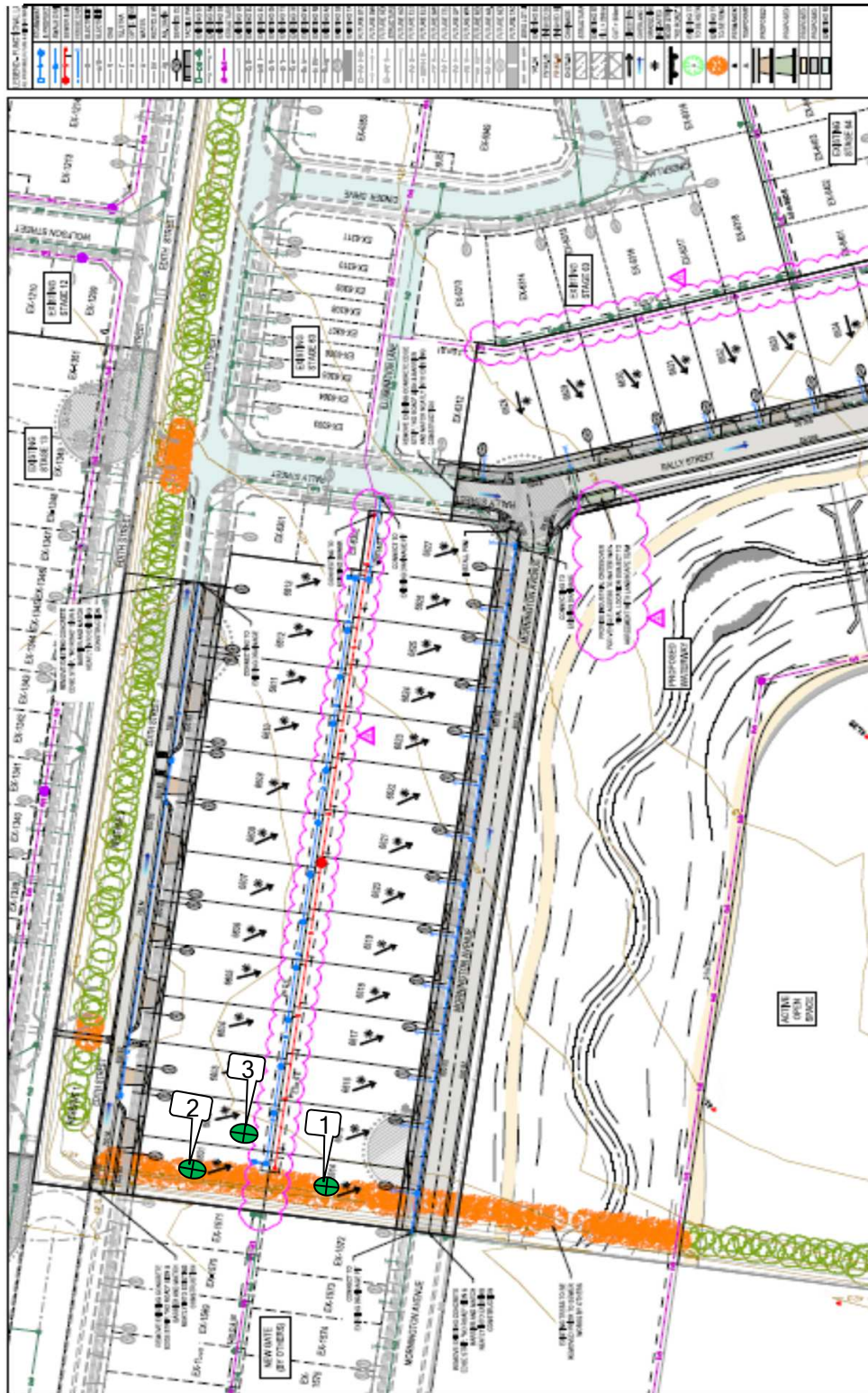


Accredited for compliance with ISO/IEC
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 30/6/2021



Drawing Index

21905-05-01	General Notes
21905-05-02	General Notes
21905-05-03	General Notes
21905-05-04	General Notes
21905-05-05	General Notes
21905-05-06	General Notes

Notes

1. All dimensions are in meters unless otherwise stated.
2. All dimensions are in meters unless otherwise stated.
3. All dimensions are in meters unless otherwise stated.

NO.	AREA	DATE	BY	REMARKS
1	EXISTING ROAD	2020/06/21	DB	EXISTING ROAD
2	EXISTING FOOTPATH	2020/06/21	DB	EXISTING FOOTPATH
3	EXISTING DRAINAGE	2020/06/21	DB	EXISTING DRAINAGE

NO.	AREA	DATE	BY	REMARKS
1	EXISTING ROAD	2020/06/21	DB	EXISTING ROAD
2	EXISTING FOOTPATH	2020/06/21	DB	EXISTING FOOTPATH
3	EXISTING DRAINAGE	2020/06/21	DB	EXISTING DRAINAGE



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: The Grove West Stage 66
Sketch indicating compaction test locations

DATE: 28/06/2021	JOB No.: 2305/301
OPERATOR: DB	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

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 2305/302

LOCATION: SYMON BROS - The Grove Stage 66

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	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)
29/06/21	1	Refer to #2305/303 for approx. test site locations.	1.84	25.0	98.0	1.87	26.0	175	1.0 Drier	96.0	0	0	0
29/06/21	2		1.86	25.5	100.0	1.86	27.5	175	2.0 Drier	92.5	0	0	0
29/06/21	3		1.83	26.5	96.0	1.91	26.5	175	0.5 Drier	99.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:00am Finish Time: 11:20am

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.

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)



Accredited for compliance with ISO/IEC
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 2/7/2021



FOR CONTINUATION REFER 2195-66-02

LOT	PROPOSED	EXISTING
LOT 1	1000	1000
LOT 2	1000	1000
LOT 3	1000	1000
LOT 4	1000	1000
LOT 5	1000	1000
LOT 6	1000	1000
LOT 7	1000	1000
LOT 8	1000	1000
LOT 9	1000	1000
LOT 10	1000	1000
LOT 11	1000	1000
LOT 12	1000	1000
LOT 13	1000	1000
LOT 14	1000	1000
LOT 15	1000	1000
LOT 16	1000	1000
LOT 17	1000	1000
LOT 18	1000	1000
LOT 19	1000	1000
LOT 20	1000	1000
LOT 21	1000	1000
LOT 22	1000	1000
LOT 23	1000	1000
LOT 24	1000	1000
LOT 25	1000	1000
LOT 26	1000	1000
LOT 27	1000	1000
LOT 28	1000	1000
LOT 29	1000	1000
LOT 30	1000	1000
LOT 31	1000	1000
LOT 32	1000	1000
LOT 33	1000	1000
LOT 34	1000	1000
LOT 35	1000	1000
LOT 36	1000	1000
LOT 37	1000	1000
LOT 38	1000	1000
LOT 39	1000	1000
LOT 40	1000	1000
LOT 41	1000	1000
LOT 42	1000	1000
LOT 43	1000	1000
LOT 44	1000	1000
LOT 45	1000	1000
LOT 46	1000	1000
LOT 47	1000	1000
LOT 48	1000	1000
LOT 49	1000	1000
LOT 50	1000	1000
LOT 51	1000	1000
LOT 52	1000	1000
LOT 53	1000	1000
LOT 54	1000	1000
LOT 55	1000	1000
LOT 56	1000	1000
LOT 57	1000	1000
LOT 58	1000	1000
LOT 59	1000	1000
LOT 60	1000	1000
LOT 61	1000	1000
LOT 62	1000	1000
LOT 63	1000	1000
LOT 64	1000	1000
LOT 65	1000	1000
LOT 66	1000	1000
LOT 67	1000	1000
LOT 68	1000	1000
LOT 69	1000	1000
LOT 70	1000	1000
LOT 71	1000	1000
LOT 72	1000	1000
LOT 73	1000	1000
LOT 74	1000	1000
LOT 75	1000	1000
LOT 76	1000	1000
LOT 77	1000	1000
LOT 78	1000	1000
LOT 79	1000	1000
LOT 80	1000	1000
LOT 81	1000	1000
LOT 82	1000	1000
LOT 83	1000	1000
LOT 84	1000	1000
LOT 85	1000	1000
LOT 86	1000	1000
LOT 87	1000	1000
LOT 88	1000	1000
LOT 89	1000	1000
LOT 90	1000	1000
LOT 91	1000	1000
LOT 92	1000	1000
LOT 93	1000	1000
LOT 94	1000	1000
LOT 95	1000	1000
LOT 96	1000	1000
LOT 97	1000	1000
LOT 98	1000	1000
LOT 99	1000	1000
LOT 100	1000	1000

LOT	PROPOSED	EXISTING
LOT 1	1000	1000
LOT 2	1000	1000
LOT 3	1000	1000
LOT 4	1000	1000
LOT 5	1000	1000
LOT 6	1000	1000
LOT 7	1000	1000
LOT 8	1000	1000
LOT 9	1000	1000
LOT 10	1000	1000
LOT 11	1000	1000
LOT 12	1000	1000
LOT 13	1000	1000
LOT 14	1000	1000
LOT 15	1000	1000
LOT 16	1000	1000
LOT 17	1000	1000
LOT 18	1000	1000
LOT 19	1000	1000
LOT 20	1000	1000
LOT 21	1000	1000
LOT 22	1000	1000
LOT 23	1000	1000
LOT 24	1000	1000
LOT 25	1000	1000
LOT 26	1000	1000
LOT 27	1000	1000
LOT 28	1000	1000
LOT 29	1000	1000
LOT 30	1000	1000
LOT 31	1000	1000
LOT 32	1000	1000
LOT 33	1000	1000
LOT 34	1000	1000
LOT 35	1000	1000
LOT 36	1000	1000
LOT 37	1000	1000
LOT 38	1000	1000
LOT 39	1000	1000
LOT 40	1000	1000
LOT 41	1000	1000
LOT 42	1000	1000
LOT 43	1000	1000
LOT 44	1000	1000
LOT 45	1000	1000
LOT 46	1000	1000
LOT 47	1000	1000
LOT 48	1000	1000
LOT 49	1000	1000
LOT 50	1000	1000
LOT 51	1000	1000
LOT 52	1000	1000
LOT 53	1000	1000
LOT 54	1000	1000
LOT 55	1000	1000
LOT 56	1000	1000
LOT 57	1000	1000
LOT 58	1000	1000
LOT 59	1000	1000
LOT 60	1000	1000
LOT 61	1000	1000
LOT 62	1000	1000
LOT 63	1000	1000
LOT 64	1000	1000
LOT 65	1000	1000
LOT 66	1000	1000
LOT 67	1000	1000
LOT 68	1000	1000
LOT 69	1000	1000
LOT 70	1000	1000
LOT 71	1000	1000
LOT 72	1000	1000
LOT 73	1000	1000
LOT 74	1000	1000
LOT 75	1000	1000
LOT 76	1000	1000
LOT 77	1000	1000
LOT 78	1000	1000
LOT 79	1000	1000
LOT 80	1000	1000
LOT 81	1000	1000
LOT 82	1000	1000
LOT 83	1000	1000
LOT 84	1000	1000
LOT 85	1000	1000
LOT 86	1000	1000
LOT 87	1000	1000
LOT 88	1000	1000
LOT 89	1000	1000
LOT 90	1000	1000
LOT 91	1000	1000
LOT 92	1000	1000
LOT 93	1000	1000
LOT 94	1000	1000
LOT 95	1000	1000
LOT 96	1000	1000
LOT 97	1000	1000
LOT 98	1000	1000
LOT 99	1000	1000
LOT 100	1000	1000



**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: The Grove West Stage 66

Sketch indicating compaction test locations

DATE: 29/06/2021

OPERATOR: DB

SCALE: NTS

JOB No.: 2305/303

CHECKED: KK

FIGURE No: -



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.: # 2305/304

LOCATION: SYMON BROS - The Grove West, Stage 66

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	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)
30/06/21	1	Refer to #2305/305 for approx. test site locations.	1.88	26.0	97.0	1.94	26.0	175	0.0 Drier	100.0	0	0	0
30/06/21	2		1.94	25.0	98.5	✱ 1.97	25.5	175	0.5 Drier	99.0	6	0	0
30/06/21	3		1.96	25.5	103.5	1.89	26.5	175	1.0 Drier	97.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:40am Finish Time: 9:00am

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: 5/7/2021



FOR CONTINUATION REFER 2195-65-62

NO	DESCRIPTION	DATE	BY	CHECKED	APPROVED
1	ISSUED FOR TENDERS	30/06/2021	DB	KK	
2	ISSUED FOR TENDERS	30/06/2021	DB	KK	
3	ISSUED FOR TENDERS	30/06/2021	DB	KK	
4	ISSUED FOR TENDERS	30/06/2021	DB	KK	
5	ISSUED FOR TENDERS	30/06/2021	DB	KK	
6	ISSUED FOR TENDERS	30/06/2021	DB	KK	
7	ISSUED FOR TENDERS	30/06/2021	DB	KK	
8	ISSUED FOR TENDERS	30/06/2021	DB	KK	
9	ISSUED FOR TENDERS	30/06/2021	DB	KK	
10	ISSUED FOR TENDERS	30/06/2021	DB	KK	
11	ISSUED FOR TENDERS	30/06/2021	DB	KK	
12	ISSUED FOR TENDERS	30/06/2021	DB	KK	
13	ISSUED FOR TENDERS	30/06/2021	DB	KK	
14	ISSUED FOR TENDERS	30/06/2021	DB	KK	
15	ISSUED FOR TENDERS	30/06/2021	DB	KK	
16	ISSUED FOR TENDERS	30/06/2021	DB	KK	
17	ISSUED FOR TENDERS	30/06/2021	DB	KK	
18	ISSUED FOR TENDERS	30/06/2021	DB	KK	
19	ISSUED FOR TENDERS	30/06/2021	DB	KK	
20	ISSUED FOR TENDERS	30/06/2021	DB	KK	
21	ISSUED FOR TENDERS	30/06/2021	DB	KK	
22	ISSUED FOR TENDERS	30/06/2021	DB	KK	
23	ISSUED FOR TENDERS	30/06/2021	DB	KK	
24	ISSUED FOR TENDERS	30/06/2021	DB	KK	
25	ISSUED FOR TENDERS	30/06/2021	DB	KK	
26	ISSUED FOR TENDERS	30/06/2021	DB	KK	
27	ISSUED FOR TENDERS	30/06/2021	DB	KK	
28	ISSUED FOR TENDERS	30/06/2021	DB	KK	
29	ISSUED FOR TENDERS	30/06/2021	DB	KK	
30	ISSUED FOR TENDERS	30/06/2021	DB	KK	
31	ISSUED FOR TENDERS	30/06/2021	DB	KK	
32	ISSUED FOR TENDERS	30/06/2021	DB	KK	
33	ISSUED FOR TENDERS	30/06/2021	DB	KK	
34	ISSUED FOR TENDERS	30/06/2021	DB	KK	
35	ISSUED FOR TENDERS	30/06/2021	DB	KK	
36	ISSUED FOR TENDERS	30/06/2021	DB	KK	
37	ISSUED FOR TENDERS	30/06/2021	DB	KK	
38	ISSUED FOR TENDERS	30/06/2021	DB	KK	
39	ISSUED FOR TENDERS	30/06/2021	DB	KK	
40	ISSUED FOR TENDERS	30/06/2021	DB	KK	
41	ISSUED FOR TENDERS	30/06/2021	DB	KK	
42	ISSUED FOR TENDERS	30/06/2021	DB	KK	
43	ISSUED FOR TENDERS	30/06/2021	DB	KK	
44	ISSUED FOR TENDERS	30/06/2021	DB	KK	
45	ISSUED FOR TENDERS	30/06/2021	DB	KK	
46	ISSUED FOR TENDERS	30/06/2021	DB	KK	
47	ISSUED FOR TENDERS	30/06/2021	DB	KK	
48	ISSUED FOR TENDERS	30/06/2021	DB	KK	
49	ISSUED FOR TENDERS	30/06/2021	DB	KK	
50	ISSUED FOR TENDERS	30/06/2021	DB	KK	
51	ISSUED FOR TENDERS	30/06/2021	DB	KK	
52	ISSUED FOR TENDERS	30/06/2021	DB	KK	
53	ISSUED FOR TENDERS	30/06/2021	DB	KK	
54	ISSUED FOR TENDERS	30/06/2021	DB	KK	
55	ISSUED FOR TENDERS	30/06/2021	DB	KK	
56	ISSUED FOR TENDERS	30/06/2021	DB	KK	
57	ISSUED FOR TENDERS	30/06/2021	DB	KK	
58	ISSUED FOR TENDERS	30/06/2021	DB	KK	
59	ISSUED FOR TENDERS	30/06/2021	DB	KK	
60	ISSUED FOR TENDERS	30/06/2021	DB	KK	
61	ISSUED FOR TENDERS	30/06/2021	DB	KK	
62	ISSUED FOR TENDERS	30/06/2021	DB	KK	
63	ISSUED FOR TENDERS	30/06/2021	DB	KK	
64	ISSUED FOR TENDERS	30/06/2021	DB	KK	
65	ISSUED FOR TENDERS	30/06/2021	DB	KK	
66	ISSUED FOR TENDERS	30/06/2021	DB	KK	
67	ISSUED FOR TENDERS	30/06/2021	DB	KK	
68	ISSUED FOR TENDERS	30/06/2021	DB	KK	
69	ISSUED FOR TENDERS	30/06/2021	DB	KK	
70	ISSUED FOR TENDERS	30/06/2021	DB	KK	
71	ISSUED FOR TENDERS	30/06/2021	DB	KK	
72	ISSUED FOR TENDERS	30/06/2021	DB	KK	
73	ISSUED FOR TENDERS	30/06/2021	DB	KK	
74	ISSUED FOR TENDERS	30/06/2021	DB	KK	
75	ISSUED FOR TENDERS	30/06/2021	DB	KK	
76	ISSUED FOR TENDERS	30/06/2021	DB	KK	
77	ISSUED FOR TENDERS	30/06/2021	DB	KK	
78	ISSUED FOR TENDERS	30/06/2021	DB	KK	
79	ISSUED FOR TENDERS	30/06/2021	DB	KK	
80	ISSUED FOR TENDERS	30/06/2021	DB	KK	
81	ISSUED FOR TENDERS	30/06/2021	DB	KK	
82	ISSUED FOR TENDERS	30/06/2021	DB	KK	
83	ISSUED FOR TENDERS	30/06/2021	DB	KK	
84	ISSUED FOR TENDERS	30/06/2021	DB	KK	
85	ISSUED FOR TENDERS	30/06/2021	DB	KK	
86	ISSUED FOR TENDERS	30/06/2021	DB	KK	
87	ISSUED FOR TENDERS	30/06/2021	DB	KK	
88	ISSUED FOR TENDERS	30/06/2021	DB	KK	
89	ISSUED FOR TENDERS	30/06/2021	DB	KK	
90	ISSUED FOR TENDERS	30/06/2021	DB	KK	
91	ISSUED FOR TENDERS	30/06/2021	DB	KK	
92	ISSUED FOR TENDERS	30/06/2021	DB	KK	
93	ISSUED FOR TENDERS	30/06/2021	DB	KK	
94	ISSUED FOR TENDERS	30/06/2021	DB	KK	
95	ISSUED FOR TENDERS	30/06/2021	DB	KK	
96	ISSUED FOR TENDERS	30/06/2021	DB	KK	
97	ISSUED FOR TENDERS	30/06/2021	DB	KK	
98	ISSUED FOR TENDERS	30/06/2021	DB	KK	
99	ISSUED FOR TENDERS	30/06/2021	DB	KK	
100	ISSUED FOR TENDERS	30/06/2021	DB	KK	



**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: The Grove West Stage 66

Sketch indicating compaction test locations

DATE: 30/06/2021

OPERATOR: DB

SCALE: NTS

JOB No.: 2305/305

CHECKED: KK

FIGURE No: -