Reference
No.: 9063-069

LEVEL ONE

SURVEILLANCE

AND INSPECTION REPORT

Carried Out
By

GEOTECHNICAL LABORATORIES

PREPARED FOR: -

451 BEATTYS DEVELOPMENT PTY LTD

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Appendices

Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results

Client Name: 451 Beattys Development Pty Ltd

Project Name: Botania Estate Stage 8

Date: 19th of March 2024

Author: Mr. Thomas Crowe

Reference No.: 9063-069

Revision: 0

Project Manager: Ms. Olivia He

1. Introduction & Scope

At the request of 451 Beattys Development Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 10th of February 2023 to the 16th of March 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 451 Beattys Development 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 Number 3070E-008-111 (Rev. 0).
(2). Road & Drainage Layout Plan Drawing Number 3070E-008-112 (Rev. 0).

General site works involved the placement of fill, using mainly on-site derived materials, to bring the fill construction regions to the required finished levels as indicated on the civil construction drawings.

2. Site Preparation

Site inspections were undertaken on the 10th of February 2023 confirming that selected areas to be filled were completely stripped of topsoil prior to filling. The topsoils were stockpiled around the site for later removal off-site. The existing dam was desludged and a firm base observed.

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 service trench excavations, road boxing and site cut areas. The material was screened to remove any boulders.

The material is best described as a silty CLAY, brown, red brown, slightly moist to moist, medium plasticity with gravels and cobbles of a 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 (815)
- A dozer
- A grader
- A padfoot roller

The sheepsfoot compactor, dozer and grader placed material in horizontal loose layers of approximately 250mm-300mm. The compactor and padfoot roller performed compaction of the 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 seventy-six 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 ***Type 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 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.

Test numbers 46 to 48 were deemed as non-compliant results. These were retested as test numbers 49 to 51.

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, 451 Beattys Development 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 451 Beattys Development Pty Ltd from the 10th of February 2023 to the 16th of March 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 451 Beattys Development 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 451 Beattys Development 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.

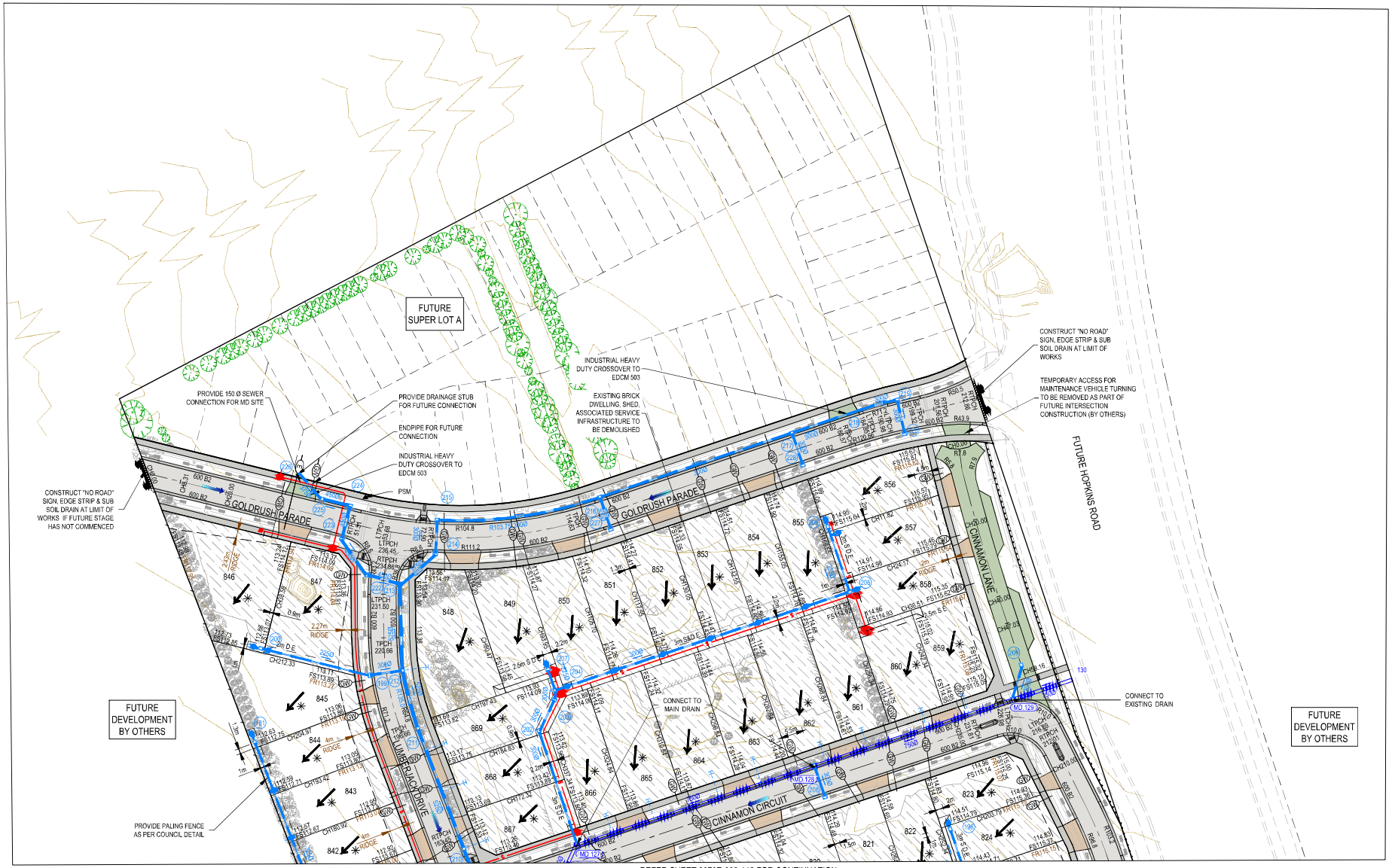
Thomas Crowe
Technical Manager

LEVEL ONE

SURVEILLANCE

AND INSPECTION REPORT

APPENDIX A



REFER SHEET 3070E-008-112 FOR CONTINUATION

LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
E	ELECTRICITY (U.GROUND)
E/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA
O	OPTIC FIBRE
W	WATER
RW	RECYCLE WATER
Ag	AG. DRAIN
GW	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
Ex H	EXISTING HOUSE DRAIN
Ex E	EXISTING ELECTRICITY (UNDER GROUND)
Ex E/H	EXISTING ELECTRICITY OVERHEAD
Ex G	EXISTING GAS
Ex T	EXISTING TELSTRA
Ex O	EXISTING OPTIC FIBRE
Ex W	EXISTING WATER
Ex RW	EXISTING RECYCLED WATER
Ex Ag	EXISTING AG. DRAIN
Ex GW	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
Fut S	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
Fut H	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
Fut E/H	FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
Fut T	FUTURE TELSTRA
Fut O	FUTURE OPTIC FIBRE
Fut W	FUTURE WATER
Fut RW	FUTURE RECYCLED WATER
Fut Ag	FUTURE AG. DRAIN
Fut GW	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
TW159.60	TOP OF RETAINING WALL LEVEL
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

ROAD LAYOUT TABLE

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
LUMBERJACK DRIVE, GOLDRUSH PARADE, CINNAMON CIRCUIT (LOTS 817-822; 828-833)	AS	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.20
CINNAMON CIRCUIT (LOTS 826-827)	AS	14.50	6.40	7.30	7.60	600 B2	600 B2	5.85	1.85
CINNAMON CIRCUIT (LOTS 859-860)	AS	14.50	6.40	7.30	7.60	600 B2	600 B2	4.20	4.20
CINNAMON CIRCUIT (LOTS 823-825)	AS	14.50	6.40	7.30	7.60	600 B2	600 B2	5.05	1.85
CINNAMON LANE (LOTS 856-859)	AS	14.50	5.85	-	-	-	-	5.55	2.95

SERVICES OFFSET TABLE

ROAD NAME	GAS OFFSET (m)	WATER OFFSET (m)	ELECTRICITY OFFSET (m)	OPTIC FIBRE OFFSET (m)
LUMBERJACK DRIVE	2.00 W	2.50 W	2.60 E	1.90 E
GOLDRUSH PARADE, CINNAMON CIRCUIT (LOTS 817-822; 828-833)	2.00 N	2.50 N	2.60 S	1.90 S
CINNAMON CIRCUIT (LOTS 826-827)	2.00 W	2.50 W	4.00 W	3.50 W
GOLDRUSH PARADE (LOT 856)	2.00 W	2.50 W	2.60 E	1.90 E
CINNAMON CIRCUIT (LOTS 859-860)	2.00 N	2.50 N	2.60 S	1.90 S
CINNAMON CIRCUIT (LOTS 823-825)	2.00 W	2.50 W	4.00 W	3.50 W
CINNAMON LANE (LOTS 856-859)	2.00 W	2.50 W	4.50 W	4.00 W

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.
Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	02.02.23	ISSUED FOR CONSTRUCTION	J.HICKS	J.HICKS	S.MACLAREN	C.CATHCART

Quality Management - ISO 9001 Global-Mark.com.au® | OHS Management - AS/NZS 4801 Global-Mark.com.au® | Environmental Management - ISO14001 Global-Mark.com.au®

ISSUED FOR CONSTRUCTION

PLAN OF SUB. NO. PS847502B

PERMIT REF. NO. PA2018/6004/1

Scale 1:500 (0 5 10 20)

SCALE AS SHOWN AT A1

N

SMEC
Member of the Surbana Jurong Group
(c) ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Layout Plan

MELWAYS REF 355 G5

PROJECT / DRAWING No. 3070E-008-111

SHEET No. 02 of 27

REVISION 0

DWG PATH: V:_Vault\Projects_Urban\3070E-Botania\3070E-008\3070E-008-111.dwg PRINTED BY: JH16392 on 02/02/2023 at 10:17:53 AM

LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

STORMWATER DRAIN, PIT & PROPERTY INLET
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ELECTRICITY (O.HEAD)
GAS
TELSTRA
OPTIC FIBRE
WATER
RECYCLE WATER
AG. DRAIN
SERVICE CONDUITS
TACTILE PAVERS
EXISTING STORMWATER DRAIN
EXISTING MAIN DRAIN
EXISTING SWALE DRAIN
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EXISTING ELECTRICITY OVERHEAD
EXISTING GAS
EXISTING TELSTRA
EXISTING OPTIC FIBRE
EXISTING WATER
EXISTING RECYCLED WATER
EXISTING AG. DRAIN
EXISTING SERVICE CONDUITS
EXISTING TACTILE PAVERS
FUTURE STORMWATER DRAIN
FUTURE MAIN DRAIN
FUTURE SWALE DRAIN
FUTURE SEWER & MAINTENANCE STRUCTURES
FUTURE HOUSE DRAIN
FUTURE ELECTRICITY (UNDER GROUND)
FUTURE ELECTRICITY OVERHEAD
FUTURE GAS
FUTURE TELSTRA
FUTURE OPTIC FIBRE
FUTURE WATER
FUTURE RECYCLED WATER
FUTURE AG. DRAIN
FUTURE SERVICE CONDUITS
FUTURE TACTILE PAVERS
ZERO LOT LINES
141.34 EXISTING SURFACE LEVEL
FS140.35 FINISHED BUILDING LINE LEVEL
FR157.40 FINISHED RIDGE LINE LEVEL
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Quality Management - ISO 9001 Global-Mark.com.au® | OHS Management - AS/NZS 4801 Global-Mark.com.au® | Environmental Management - ISO 14001 Global-Mark.com.au®

ISSUED FOR CONSTRUCTION

PLAN OF SUB. NO. PS847502B

PERMIT REF. NO. PA2018/6004/1

Scale 1:500

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Ph 03 9514 1500

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Layout Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
355 G5	3070E-008-112	03 of 27	0

DWG PATH: V:_Vault\Projects_Urban\3070E-Botania\3070E-008\3070E-008-112.dwg PRINTED BY: JH16392 on 02/02/2023 at 10:19:58 AM

LEVEL ONE

SURVEILLANCE

AND INSPECTION REPORT

APPENDIX B

GEOTECHNICAL LABORATORIES
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.: # 9063/004
LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 8 - Dam

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)
10/02/23	1	***Refer to #9063/005 for approx. test site locations.***	1.89	22.5	100.0	1.89	25.5	175	2.5 Drier	89.5	0	0	2000
10/02/23	2		1.90	25.0	104.0	1.82	28.5	175	3.5 Drier	87.0	0	0	1800
10/02/23	3		1.98	22.5	106.5	1.85	26.0	175	3.0 Drier	87.5	0	0	1500
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.
Start Time: 10:15am Finish Time: 10:30am

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
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)

✠
❖

NATA ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 16/2/2023

GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077
14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TALORS DEVELOPMENT	**DATE: 10/02/2022**	**JOB No.: 9063/005**
LOCATION: Botania, Plumpton, Stage 8 Dam	**OPERATOR: SA**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

GEOTECHNICAL LABORATORIES
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.: # 9063/006
LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 8

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)
13/02/23	4	***Refer to #9063/007 for approx. test site locations.***	1.89	23.5	102.5	1.84	26.0	175	2.5 Drier	90.5	0	0	1300
13/02/23	5		1.93	24.0	102.5	✠ 1.88	27.5	175	3.0 Drier	88.0	4	0	1100
13/02/23	6		1.87	23.5	104.5	✠ 1.78	27.5	175	3.5 Drier	86.5	4	0	900
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 10:30am Finish Time: 11:00am

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
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
❖

NATA ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 17/2/2023

GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077
14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TALORS DEVELOPMENT	**DATE: 13/02/2022**	**JOB No.: 9063/007**
LOCATION: Botania, Plumpton, Stage 8 Dam	**OPERATOR: TC**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

GEOTECHNICAL LABORATORIES
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.: # 9063/009
LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 8

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)
14/02/23	7	***Refer to #9063/010 for approx. test site locations.***	1.87	22.0	99.5	✠ 1.88	26.0	175	3.5 Drier	86.0	7	0	600
14/02/23	8		1.87	26.0	97.5	✠ 1.92	25.5	175	0.5 Wetter	101.0	6	0	400
14/02/23	9		1.88	26.0	97.5	✠ 1.93	27.0	175	1.0 Drier	96.5	7	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 10:30am Finish Time: 11:45am

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
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
❖

NATA WORLD RECOGNISED ACCREDITATION
Accredited for compliance with ISO/IEC 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 21/2/2023

GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077
14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TALORS DEVELOPMENT	**DATE: 14/02/2022**	**JOB No.: 9063/010**
LOCATION: Botania, Plumpton, Stage 8 Dam	**OPERATOR: TC**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/012
LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 8

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)
3/07/23	10	***Refer to #9063/013 for approx. test site locations.***	1.75	34.0	95.0	1.84	33.0	175	1.5 Wetter	104.0	0	0	2000
3/07/23	11		1.76	34.0	99.5	1.76	33.0	175	1.0 Wetter	102.5	0	0	1700
3/07/23	12		1.82	38.5	99.5	1.82	38.5	175	0.0 Drier	100.0	0	0	1200
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.
Start Time: 8:10am Finish Time: 8:30am

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)

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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 6/7/2023

GEOTECHNICAL LABORATORIES
ACN 102 571 077
14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 3/07/2023**	**JOB No.: 9063/013**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: KOB**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/015
LOCATION: 451BEATTYS DEVELOPMENT - Botania, Plumpton - Stage 8

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)
6/07/23	13	***Refer to #9063/016 for approx. test site locations.***	1.90	27.5	104.5	1.82	30.5	175	2.5 Drier	91.5	0	0	700
6/07/23	14		1.82	28.5	101.0	1.80	31.5	175	3.0 Drier	90.0	0	0	500
6/07/23	15		1.85	24.5	101.5	1.82	28.5	175	3.5 Drier	87.0	0	0	300
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

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: 11:45am

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
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)

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MICK CROWE
(Approved Signatory)
Issue Date: 11/7/2023

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 6/07/2023**	**JOB No.: 9063/016**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: FH**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/018
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Plumpton. Stage 8

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)
7/07/23	16	***Refer to #9063/019 for approx. test site locations.***	1.87	27.5	99.0	1.90	28.0	175	0.5 Drier	98.0	0	0	0
7/07/23	17		1.78	32.0	99.5	1.79	34.5	175	2.5 Drier	93.0	0	0	0
7/07/23	18		1.84	27.5	106.5	1.73	32.0	175	4.5 Drier	86.5	0	0	200
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-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 9:10am Finish Time: 9:30am

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
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)

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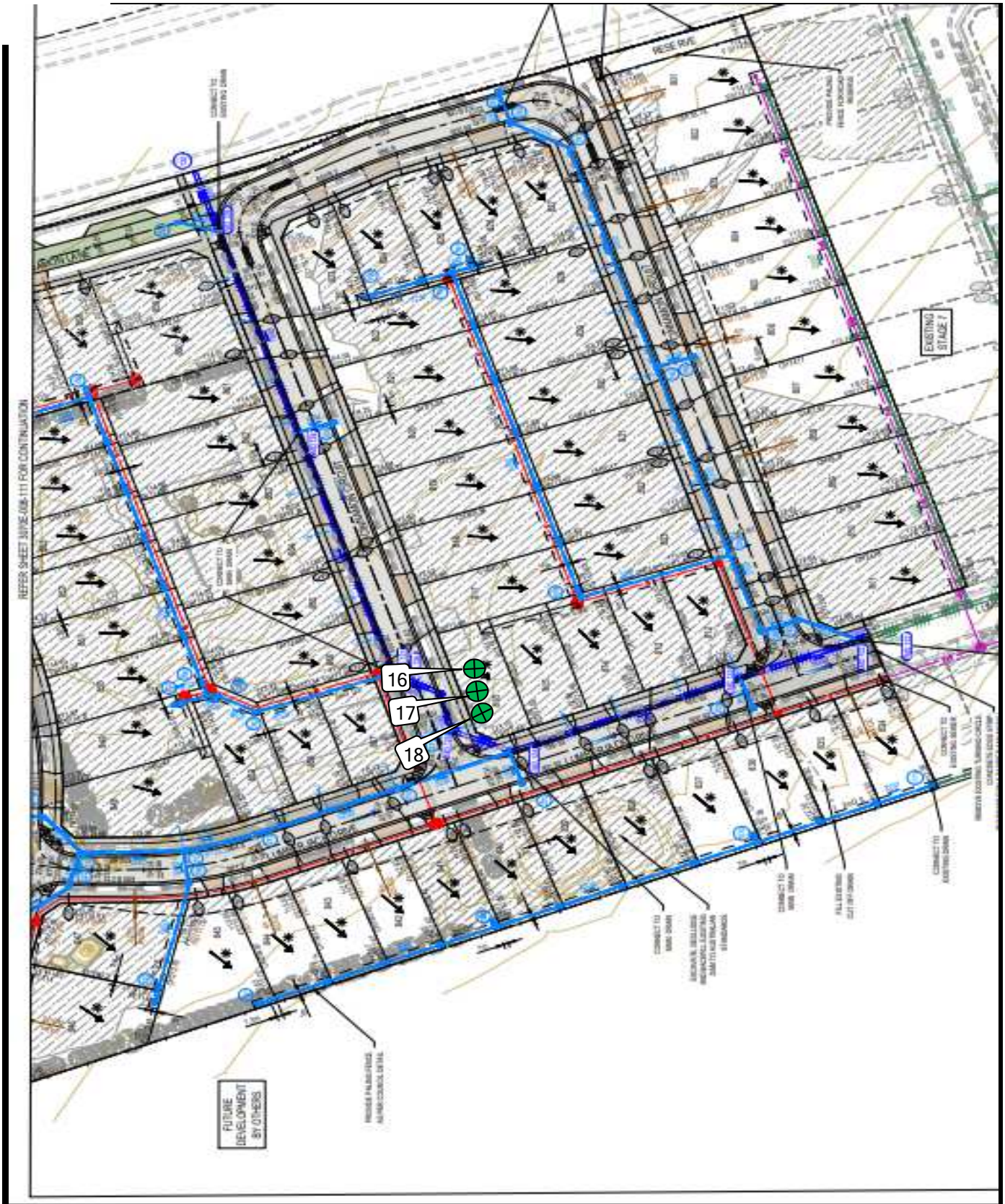
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 12/7/2023



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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 7/07/2023**	**JOB No.: 9063/019**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SLI**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/022
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Plumpton, Stage 8 - Swimming Pool

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)
17/08/23	19	***Refer to #9063/023 for approx. test site locations.***	1.86	24.5	97.5	1.91	25.0	175	0.5 Drier	97.0	0	0	1700
17/08/23	20		1.92	23.5	98.0	1.96	25.5	175	2.0 Drier	92.5	0	0	1350
17/08/23	21		1.89	21.5	98.0	1.92	23.5	175	2.0 Drier	91.0	0	0	1100
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-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 7:15am Finish Time: 10:15am

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
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)

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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 25/8/2023

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 17/08/2023**	**JOB No.: 9063/023**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: KOB**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/025
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Plumpton, Stage 8 - Swimming Pool

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)
18/08/23	22	***Refer to #9063/026 for approx. test site locations.***	1.84	26.0	97.5	1.89	28.0	175	2.0 Drier	93.0	0	0	700
18/08/23	23		1.89	27.5	101.0	1.87	29.5	175	2.0 Drier	93.0	0	0	400
18/08/23	24		1.93	24.0	100.5	1.92	25.5	175	1.5 Drier	93.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 1:45pm Finish Time: 2:05pm

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.

Soil Layer thickness: 200mm
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)
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NATA ACCREDITED FOR TECHNICAL COMPETENCE

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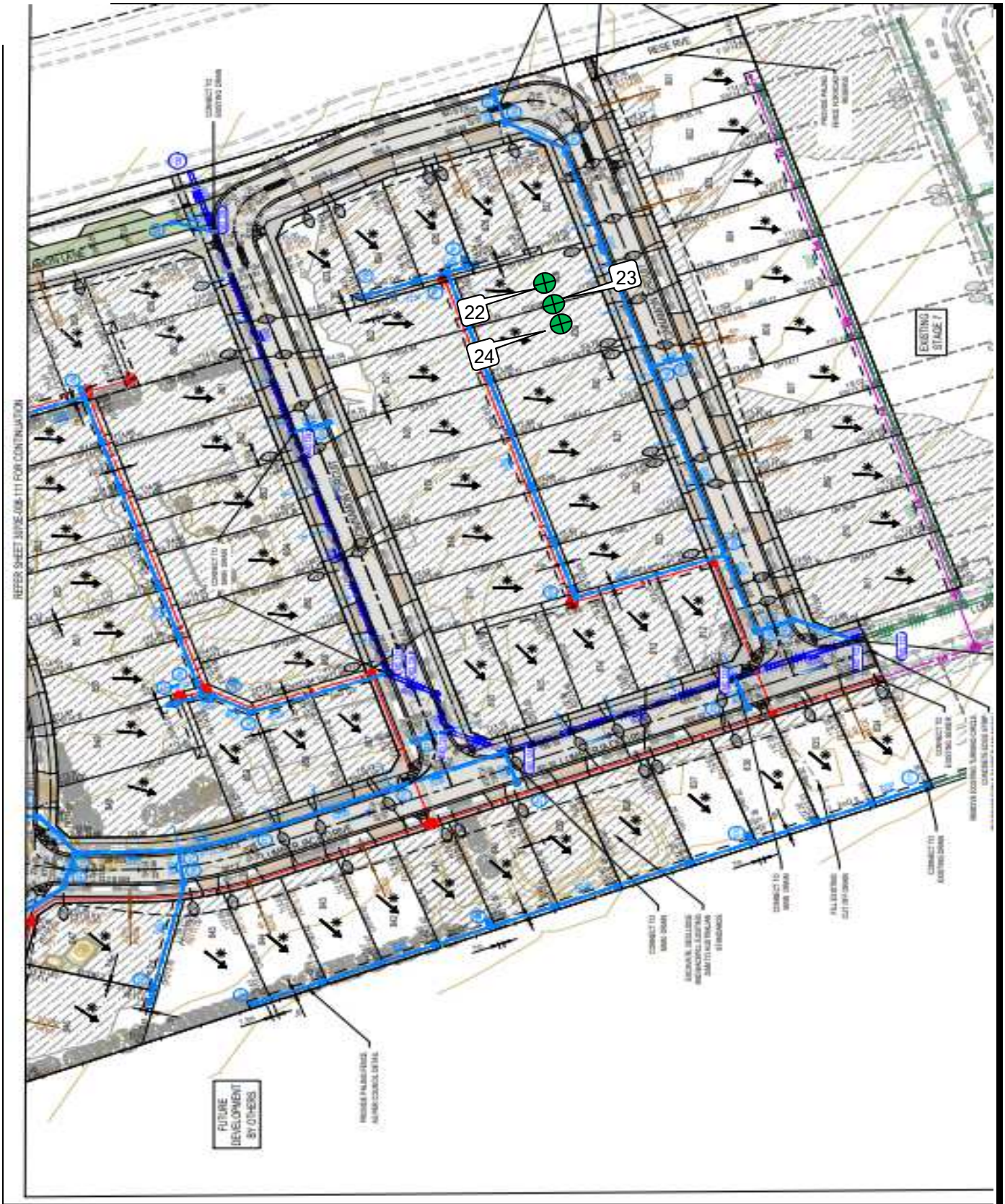
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 25/8/2023



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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 18/08/2023**	**JOB No.: 9063/026**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SA**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/029
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Plumpton, Stage 8

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)
24/08/23	25	***Refer to #9063/030 for approx. test site locations.***	1.91	25.0	104.5	1.83	27.0	175	2.0 Drier	91.5	0	0	0
24/08/23	26		1.99	24.5	105.0	1.89	27.5	175	2.5 Drier	90.0	0	0	0
24/08/23	27		1.81	24.5	101.5	1.78	28.0	175	3.0 Drier	88.5	0	0	0
24/08/23	28		1.82	26.5	100.0	1.82	30.0	175	3.5 Drier	89.0	0	0	0
24/08/23	29		1.83	25.5	99.5	1.83	28.5	175	3.0 Drier	89.5	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 2:00pm Finish Time: 2:50pm

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
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)

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NATA WORLD RECOGNISED ACCREDITATION
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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 30/8/2023

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

CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 24/08/2023**	**JOB No.: 9063/030**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SLI/SA**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/032
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Plumpton, Stage 8

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)
25/08/23	30	***Refer to #9063/033 for approx. test site locations.***	1.87	24.0	104.0	1.80	27.5	175	3.5 Drier	87.5	0	0	0
25/08/23	31		1.78	25.0	101.0	1.76	29.0	175	4.0 Drier	87.0	0	0	0
25/08/23	32		1.88	25.5	103.5	1.82	28.5	175	3.0 Drier	89.5	0	0	0
25/08/23	33		1.91	27.5	104.5	1.83	30.5	175	3.0 Drier	90.0	0	0	0
25/08/23	34		1.89	27.0	101.5	1.86	29.0	175	2.0 Drier	93.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 2:00pm Finish Time: 2:45pm

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.

Soil Layer thickness: 200mm
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)

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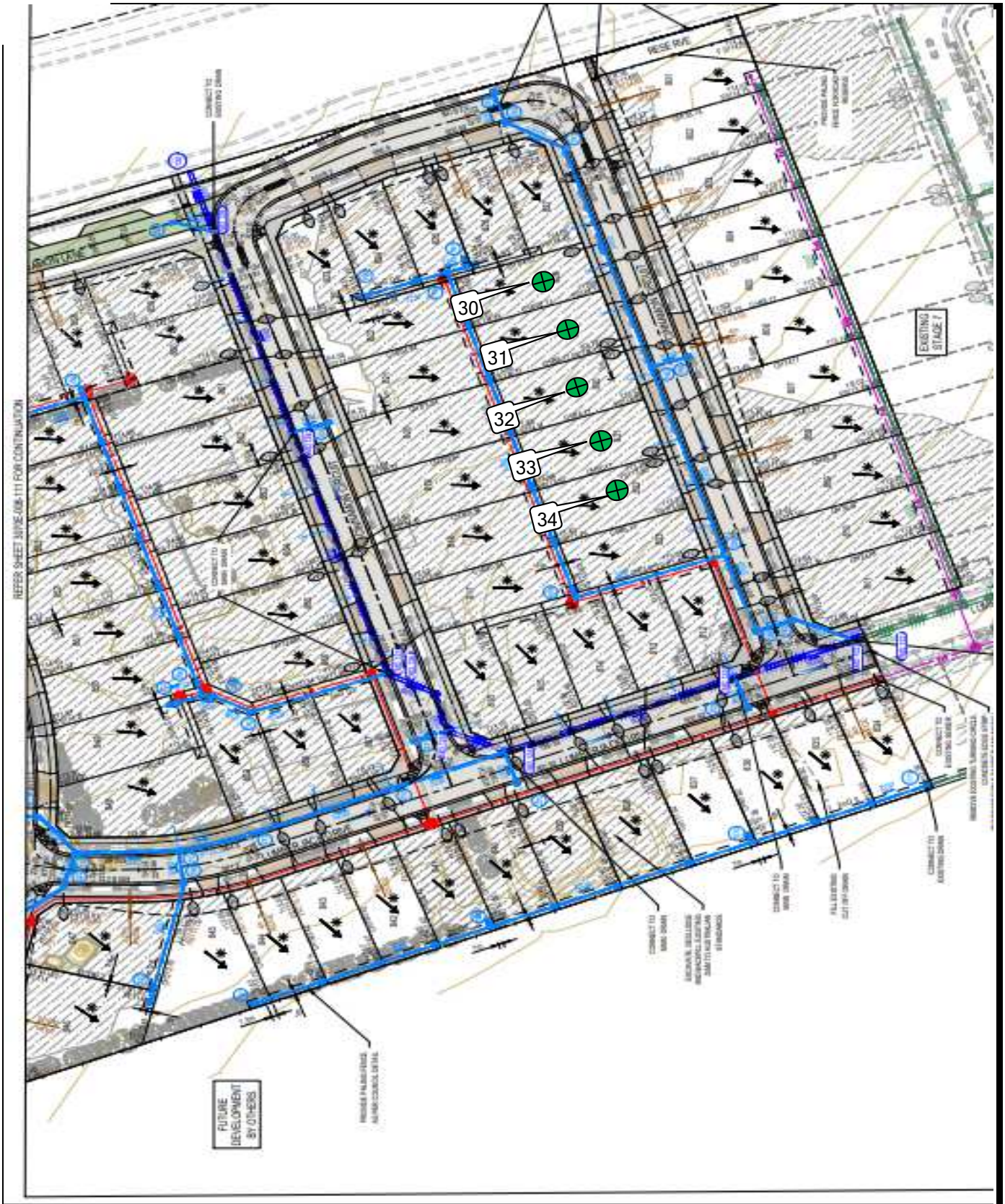
Accredited for compliance with ISO/IEC 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 1/9/2023



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ACN 102 571 077
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Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 25/08/2023**	**JOB No.: 9063/033**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SLI/AI**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/036
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Stage 8

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)
28/08/23	35	***Refer to #9063/037 for approx. test site locations.***	1.89	23.0	103.0	1.83	27.0	175	3.5 Drier	86.0	0	0	0
28/08/23	36		1.90	23.0	103.5	1.83	26.0	175	3.0 Drier	88.0	0	0	0
28/08/23	37		1.82	22.0	101.0	1.80	26.5	175	4.5 Drier	82.5	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: 2:00pm

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
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)

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NATA ACCREDITED FOR TECHNICAL COMPETENCE

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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 5/9/2023

GEOTECHNICAL LABORATORIES

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 28/08/2023**	**JOB No.: 9063/037**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SLI**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/041
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Stage 8

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)
5/09/23	38	***Refer to #9063/042 for approx. test site locations.***	1.78	28.0	96.0	✠ 1.86	27.5	175	0.5 Wetter	102.0	3	0	0
5/09/23	39		1.85	24.0	102.5	1.80	28.5	175	5.0 Drier	83.0	0	0	0
5/09/23	40		1.92	26.5	103.0	1.87	26.0	175	0.5 Wetter	102.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 1:10pm Finish Time: 1:35pm

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
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 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 12/9/2023

GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077
14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 5/09/2023**	**JOB No.: 9063/042**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SA**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/043
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Stage 8

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)
7/09/23	41	***Refer to #9063/044 for approx. test site locations.***	1.85	24.0	98.5	1.87	25.0	175	1.0 Drier	96.0	0	0	0
7/09/23	42		1.94	26.5	102.5	1.89	27.0	175	0.5 Drier	98.0	0	0	0
7/09/23	43		1.91	25.5	99.5	✠ 1.93	25.0	175	0.5 Wetter	102.0	5	0	0
7/09/23	44		1.85	25.5	99.0	1.87	27.5	175	2.0 Drier	93.5	0	0	0
7/09/23	45		1.89	29.5	98.5	1.92	28.0	175	1.5 Wetter	104.5	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.
Start Time: 1:10pm Finish Time: 1:50pm

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
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
❖

NATA ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 14/9/2023

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 7/09/2023**	**JOB No.: 9063/044**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SA**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/047
LOCATION: 451 BEATTYS DEVERLOPMENT - Botania, Stage 8

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)
27/02/24	46	***Refer to #9063/048 for approx. test site locations.***	1.73	21.5	89.5	1.93	23.5	175	2.0 Drier	90.5	0	0	0
27/02/24	47		1.72	22.5	90.0	1.91	24.0	175	1.5 Drier	94.0	0	0	0
27/02/24	48		1.73	27.0	90.0	1.93	26.0	175	1.0 Wetter	103.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.
Start Time: 1:15pm Finish Time: 2:00pm

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
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)

✠
❖

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MICK CROWE
(Approved Signatory)
Issue Date: 29/2/2024

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 27/02/2024**	**JOB No.: 9063/048**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SG**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/050
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Stage 8

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)
28/02/24	49	***Refer to #9063/051 for approx. test site locations.***	1.92	25.5	96.0	✠ 2.00	25.5	175	0.0 Drier	100.0	5	0	0
28/02/24	50		1.94	24.5	96.5	✠ 2.01	24.5	175	0.0 Drier	100.0	4	0	0
28/02/24	51		1.98	24.5	99.0	2.00	23.5	175	1.0 Wetter	104.0	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: 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
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
❖

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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 1/3/2024

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 28/02/2024**	**JOB No.: 9063/051**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: KOB**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/052
LOCATION: 451 BEATTYS RD - Botania Plumpton, Stage 8

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)
29/02/24	52	***Refer to #9063/054 for approx. test site locations.***	1.83	28.0	95.0	1.93	27.5	175	0.5 Wetter	102.0	0	0	0
29/02/24	53		1.83	22.0	96.0	1.91	24.0	175	2.0 Drier	91.0	0	0	0
29/02/24	54		1.83	22.0	95.5	1.92	25.0	175	3.0 Drier	88.5	0	0	0
29/02/24	55		1.83	25.5	95.0	1.93	25.5	175	0.5 Wetter	101.0	0	0	0
29/02/24	56		1.86	22.0	96.5	1.92	24.5	175	2.5 Drier	90.0	0	0	0
29/02/24	57		1.90	26.0	96.0	1.98	26.0	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: 10.45AM Finish Time: 11.30AM

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
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)

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Accredited for compliance with ISO/IEC 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 4/3/2024

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/053
LOCATION: 451 BEATTYS RD - Botania Plumpton, Stage 8

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)
29/02/24	58	***Refer to #9063/054 for approx. test site locations.***	1.89	23.0	98.0	1.93	25.5	175	2.5 Drier	90.5	0	0	0
29/02/24	59		1.84	25.5	96.5	1.91	27.0	175	1.5 Drier	94.5	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 10.45AM Finish Time: 11.30AM

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
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)

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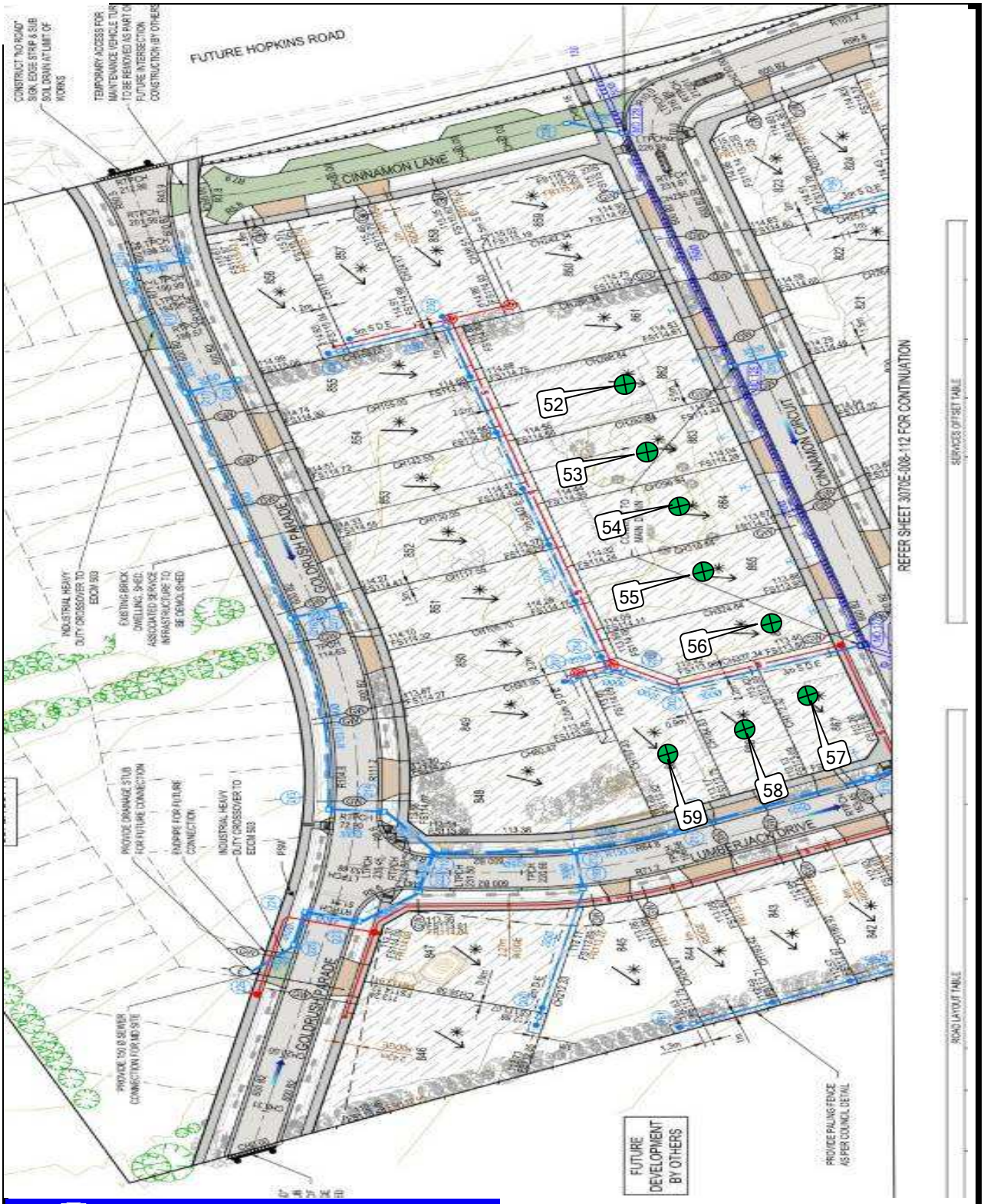
Accredited for compliance with ISO/IEC 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 4/3/2024



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 29/02/2024**	**JOB No.: 9063/054**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: AB**	**CHECKED: NF**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/056
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Stage 8

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)
1/03/24	60	***Refer to #9063/057 for approx. test site locations.***	1.93	24.5	104.5	1.84	27.0	175	2.5 Drier	91.0	0	0	0
1/03/24	61		1.94	29.0	104.5	1.86	29.0	175	0.5 Wetter	101.0	0	0	0
1/03/24	62		1.89	27.0	102.5	1.85	29.5	175	2.0 Drier	93.0	0	0	0
1/03/24	63		1.85	25.5	99.0	1.87	28.0	175	2.5 Drier	91.0	0	0	0
1/03/24	64		1.89	24.5	98.0	✠ 1.92	26.5	175	2.0 Drier	91.5	6	0	0
1/03/24	65		1.88	23.0	99.5	1.89	26.0	175	2.5 Drier	89.5	0	0	0

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 9:00am Finish Time: 11:00am

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
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 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 6/3/2024

GEOTECHNICAL LABORATORIES
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/057
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Stage 8

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)
1/03/24	65	***Refer to #9063/058 for approx. test site locations.***	1.86	22.0	99.0	1.88	24.5	175	2.5 Drier	90.0	0	0	0
1/03/24	66		1.92	23.0	101.5	✠ 1.90	27.0	175	4.0 Drier	85.5	3	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

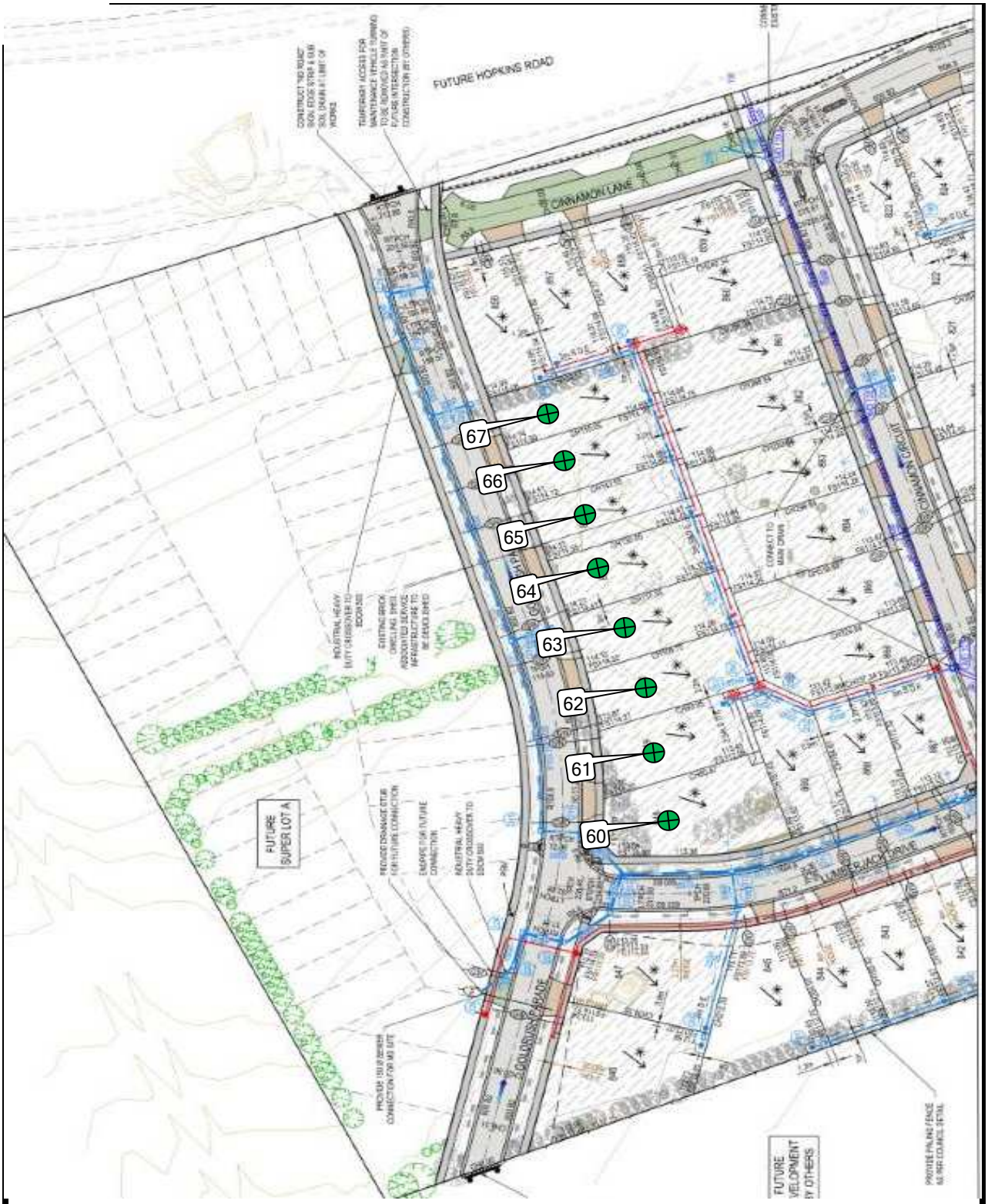
NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 9:00am Finish Time: 11:00am

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
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 17025 - Testing
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 6/3/2024



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077
14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 1/03/2024**	**JOB No.: 9063/058**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: SG**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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GEOTECHNICAL LABORATORIES
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14 Ravenhall Way, Ravenhall, Vic 3023
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/060
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Stage 8

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)
2/03/24	68	***Refer to #9063/061 for approx. test site locations.***	1.90	18.5	98.0	1.94	22.0	175	3.5 Drier	85.0	0	0	0
2/03/24	69		1.88	19.0	98.0	1.92	22.5	175	3.5 Drier	85.0	0	0	0
2/03/24	70		1.92	19.5	100.5	1.91	23.0	175	3.5 Drier	85.5	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: 9:30am

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
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)

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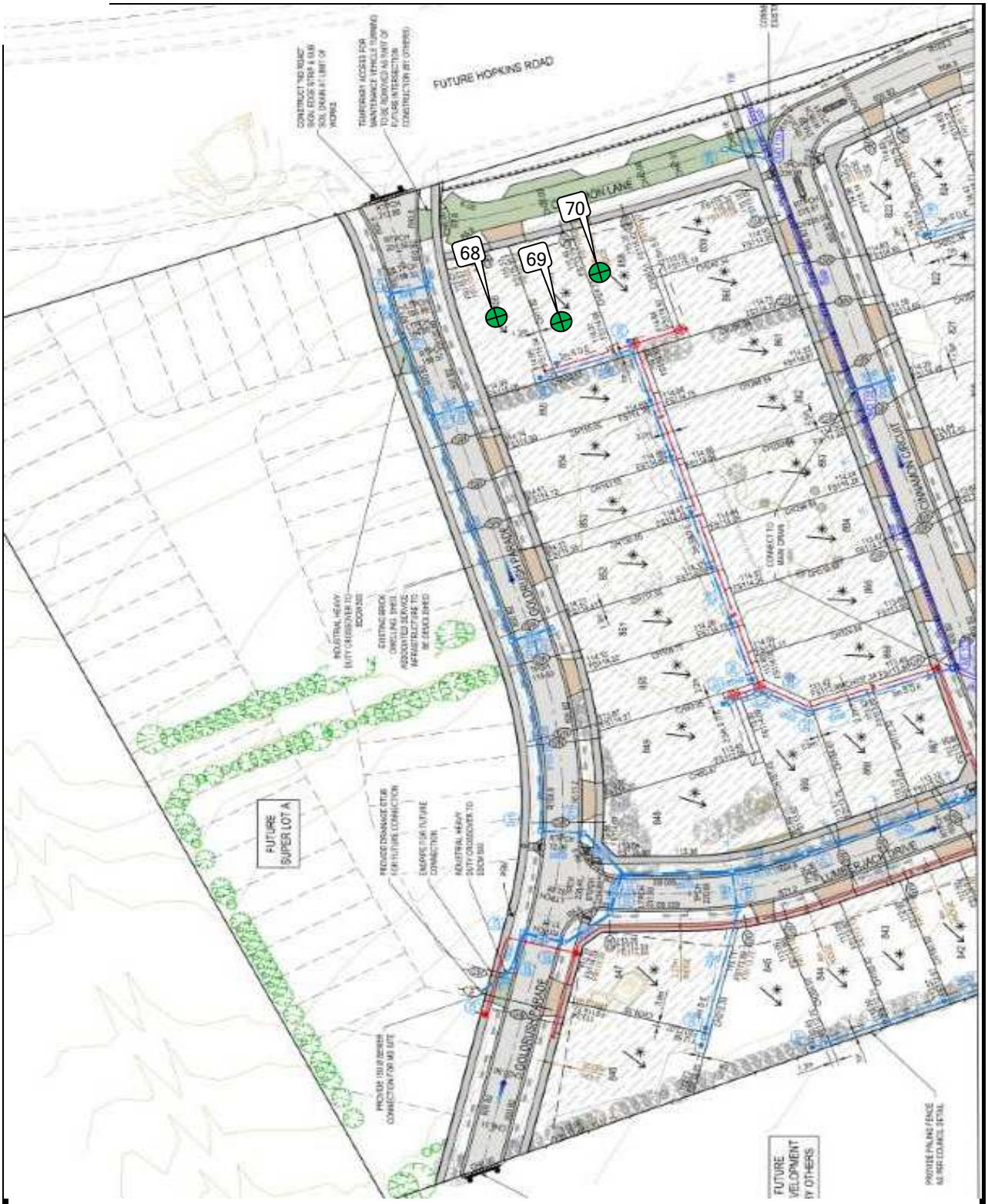
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)
Issue Date: 6/3/2024



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077
14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 2/03/2024**	**JOB No.: 9063/061**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: NE**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/064
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Plumpton, Stage 8

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)
15/03/24	71	***Refer to #9063/065 for approx. test site locations.***	1.86	21.5	96.5	1.93	24.0	175	2.5 Drier	90.0	0	0	0
15/03/24	72		1.89	22.0	98.0	1.93	24.5	175	2.5 Drier	89.0	0	0	0
15/03/24	73		1.88	22.0	97.5	1.92	24.5	175	2.5 Drier	90.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 2.00PM Finish Time: 2.30PM

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
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: 19/3/2024

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 15/03/2024**	**JOB No.: 9063/065**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: KOB**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9063/066
LOCATION: 451 BEATTYS DEVELOPMENT - Botania, Plumpton, Stage 8

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)
16/03/24	74	***Refer to #9063/067 for approx. test site locations.***	1.85	20.5	99.5	1.86	23.5	175	3.0 Drier	87.5	0	0	0
16/03/24	75		1.85	24.0	100.0	1.84	25.0	175	1.0 Drier	96.0	0	0	0
16/03/24	76		1.83	23.0	98.0	1.87	26.0	175	3.0 Drier	87.5	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite
Test sites located - Geolab Procedure 4, Part 4.4.
Compaction specimens sampled after compaction.
Start Time: 9:15am 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.

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: 19/3/2024

GEOTECHNICAL LABORATORIES

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CLIENT: 1152 TAYLORS DEVELOPMENT	**DATE: 16/03/2024**	**JOB No.: 9063/067**
LOCATION: Botania, Plumpton, Stage 8	**OPERATOR: TC**	**CHECKED: KK**
Sketch indicating compaction test locations	**SCALE: NTS**	**FIGURE No: -**

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CONTROLLED FILL CERTIFICATE

Report: 9063/070

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 807

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/071

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 808

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/072

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 809

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/073

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 810

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/074

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 811

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/075

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 812

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/076

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 813

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/077

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 814

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/078

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 815

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/079

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 816

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/080

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 817

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/081

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 818

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/082

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 819

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/083

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 820

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/084

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 821

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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E: info@geolab.com.au
Ph: (03) 8361-9140

CONTROLLED FILL CERTIFICATE

Report: 9063/085

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 822

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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14 Ravenhall Way, Ravenhall, Vic, 3023
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CONTROLLED FILL CERTIFICATE

Report: 9063/086

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 823

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/087

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 824

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/088

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 825

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/089

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 826

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/090

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 827

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/091

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 828

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/092

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 829

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/093

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 830

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024

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CONTROLLED FILL CERTIFICATE

Report: 9063/094

Client: 451 Beattys Development Pty Ltd

Project: Botania Estate – Stage 8

Location: Allotment # 831

INSPECTION & TESTING

This report certifies that 451 Beattys Development Pty Ltd have adopted compaction control procedures to ensure allotment filling on this project was performed in accordance with AS 3798 – 2007. Certification is based on site inspections, compaction control testing and proof roll inspections performed by Geotechnical Laboratories Pty Ltd from the 10th of February 2023 to the 16th of March 2024 in accordance with AS 3798 – 2007 Appendix B. Site history prior to these dates is unknown and as such any fill placed outside of these dates is exclusive of this certificate.

REMARKS

Allotment filling performed by **451 Beattys Development Pty Ltd** for this lot shall be classed as **CONTROLLED FILL** as per AS 2870 – 2011 section 6.4.2 (a).

SPECIFICATIONS

Compaction Rate Required: Minimum 95% Standard as per AS 3798 – 2007 Section 5.2 Table 5.1 – Item 1.

Moisture Ratio Requirement: Not Specified

Fill Material Compliance: As per AS 3798 – 2007 Section 4.4 Suitable Materials.

Thomas Crowe
Technical Manager
Issue Date: 19/03/2024