

Banyan Place Estate Stage 4

GITA Inspection Verification Report

Prepared For:	Lojac Civil Pty Ltd
Report Number	P231328A V1
Version Release Date	28 Aug 2023
Report Released By	C Caulfield
Title	Project Manager

faultel

Signature

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1 Introduction

Terra Firma Laboratories was engaged by Lojac Civil Pty Ltd as the Geotechnical Inspection and Testing Authority (GITA) to provide Level 1 supervision and testing works on the earthworks component for Banyan Place Estate Stage 4. This work was conducted over the period of 30/01/2023 to 03/04/2023.

This report presents that the allotment earthworks was carried out in accordance with AS3798-2007 *Guidelines for Earthworks for Commercial and Residential Development* and in compliance with the compaction control specifications established by the contractor.

2 Scope of Work

2.1 Area of Work

The areas of work included lots 401 to 441, bounded by streets Tulk Street, Blossom Street, Lempriere Road, Forage Street and Tussock Way. The site will be a Residential development.

The area on which fill was placed is shown on site plan (Appendix 1: *Test Location Plan*) based on drawings prepared by Charlton Degg (Drawing Reference: 1470_4/R04 and R05) and provided by Lojac Civil Pty Ltd.

The supervision work by the GITA involved both inspection of sub grade preparation work and full time inspection and testing of fill placement.

2.2 Specification

The technical specification (Reference from Drawings) for compaction control requirements was provided by Lojac Civil Pty Ltd and established that:

Test Rolling is required for all layers of structural fill and materials within 150mm of permanent subgrade level so as to withstand test rolling without visible deformation or springing. Corrective action is required where unstable areas exceed 20% of the area being considered by test rolling.

Section 5.2 of AS3798-2007 (Section 5.2) establishes a specification requirement for a minimum density ratio of not less than 95% noting that soils containing more than 20% of particles coarser than 37.5mm cannot be tested for relative compaction using the procedures of AS1289 5.1.1 and AS1289 5.2.1.



In accordance with Table 8.1 (AS3798), for large scale operations, (greater than 1500m²), the minimum testing frequency is 1 test per layer per material type per 2500m² or 1 test per 500m³ distributed reasonable evenly throughout full depth and area or 3 tests per lot. AS3798 defines a lot as "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work". All three of these test frequencies must be achieved and this is typically confirmed to have been achieved when 3 tests per visit (day) have been completed.

2.3 Limitations

Terra Firma Laboratories cannot verify any works completed by others outside of the time period specified in the introduction. Uncontrolled works may include, but are not limited to trenching for services, cut and fill works for slab preparation or subsequent removal of vegetation and back fill of holes unless specified in section 2.1 of this report.

Terra Firma Laboratories cannot verify that the material used as a filling medium is free from chemical or other contamination. The scope and the period of Terra Firma Laboratories as described in the introduction are subject to restrictions and limitations. Terra Firma Laboratories did not perform a complete assessment of all possible conditions and circumstances that may exist at the site. If a service is not expressly indicated, do not assume it has been provided. If a matter is not addressed, do not assume that any determination has been made by Terra Firma Laboratories.

Verification of finished surface level to design levels is outside of the scope of the GITA report.

Any drawings or marked locations presented in this report should be considered only as pictorial evidence of our work. Therefore, unless otherwise stated, any dimensions should not be used for accurate calculations or dimensioning.

Where data has been supplied by the client or a third party, it is assumed that the information is correct unless otherwise stated. No responsibility is accepted by Terra Firma Laboratories for incomplete or inaccurate data supplied by others.

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3 Construction Method

3.1 Subgrade Preparation

At the time of subgrade inspection the following was observed:

- Subgrade preparation involved stripping the site of topsoil, vegetation and organic matter to a depth of approximately 200mm below existing levels.
- The site was cleared of all trees and stumps to the extent necessary for the fill placement to proceed
- The roots of all trees and any debris was removed from site prior to any fill placement

The sub-grade area was then proof-rolled to confirm it was capable of withstanding test rolling without visible deformation or springing and any areas observed to be soft or otherwise unsuitable were rectified. The sub-grade was watered and scarified prior to fill placement to aid layer bonding.

3.2 Fill Placement

The contractor was observed to have suitable construction equipment and plant available on-site during the construction period for use in the fill placement.

All fill was placed in layers of thicknesses not exceeding 300mm. At the completion of a placed layer, compaction testing was performed to confirm appropriate compaction had been achieved and supported the observations made. It should be noted that the compaction tests are representative samples of the fill placed and support the visual assessment of the works completed. Each house lot does not necessarily require a compaction test to to have been conducted within the house allotment but may have been verified by testing conducted within up to a 2500m² area of the house lot.

Final fill placement levels were verified against design level by others. For the purposes of this report, it was observed that finished levels were in accordance with levels marked on site by survey markers.

The final 300mm of material placed across the site was placed as a topsoil layer or growing medium and should be considered as non-structural, as it was placed in an uncontrolled manner, as allowed by specifications and placement of the final 300mm of material was not observed by the GITA.

4 Construction Verification

Compaction Verification testing is summarized in a detailed test register with test certificates attached provided in Appendix 2: *Compaction Test Register and Test Certificates*. A test location

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plan (P231328D1 and D2, Appendix 1) providing a schematic of test locations across the extent of scope of works for every placed layer of fill is also documented.

A total of 38 density tests (Hilf method in accordance with 1289 5.7.1) were undertaken with 2 failed results. The contractor was notified of any failed tests and the failed areas were ripped, watered, compacted and then re-tested to confirm compliance with the specification. The results summarised in the compaction test register (Appendix 2) confirm that for every layer of fill placed in a specific work area, satisfactory testing was completed.

5 Statement of Compliance

The intention of this report is to provide a description of the earthworks construction for Stage 4 at Banyan Place Estate. For completed fill areas of greater than 300mm, and for works completed between 30/01/2023 and 03/04/2023, earthworks construction activities were conducted under the full time supervision of the Geotechnical Inspection and Testing Authority. Inspections and testing of the fill areas at this site indicate that both sub grade preparation and fill placement have been conducted in accordance with the specification. The earthworks construction for Stage 4 of Banyan Place Estate was observed to be constructed in compliance with the requirements of the Technical Specification.

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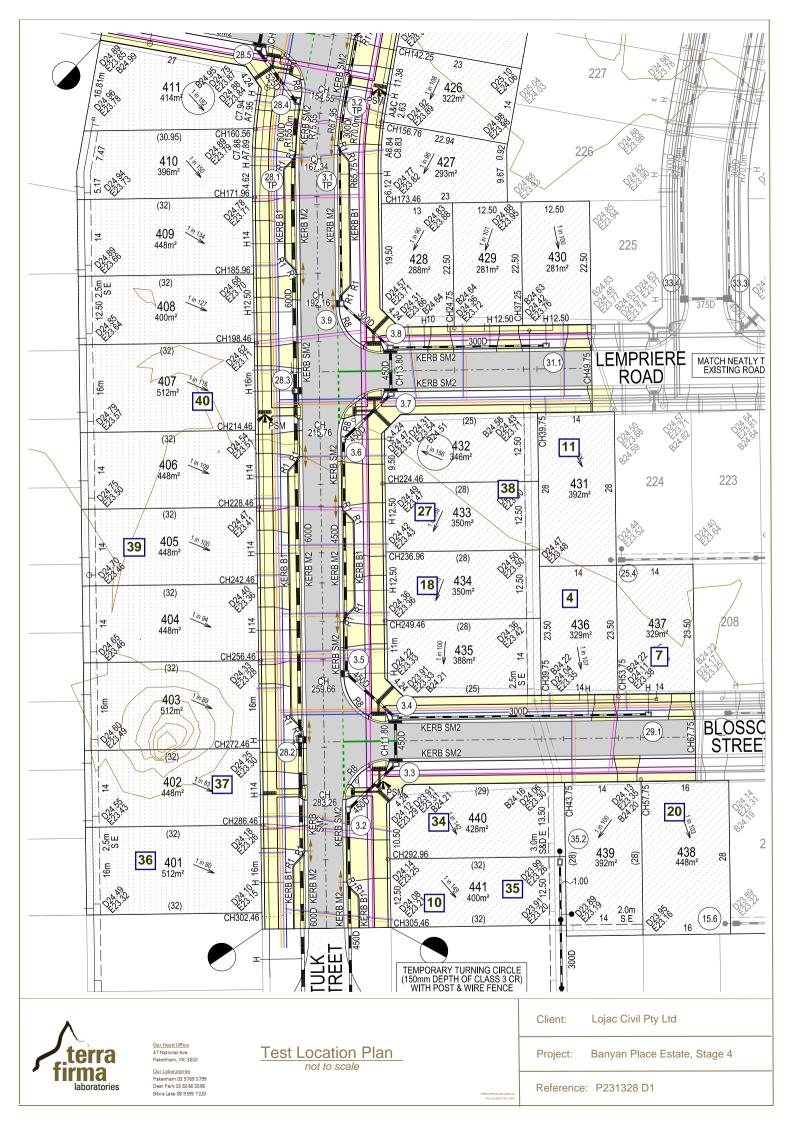
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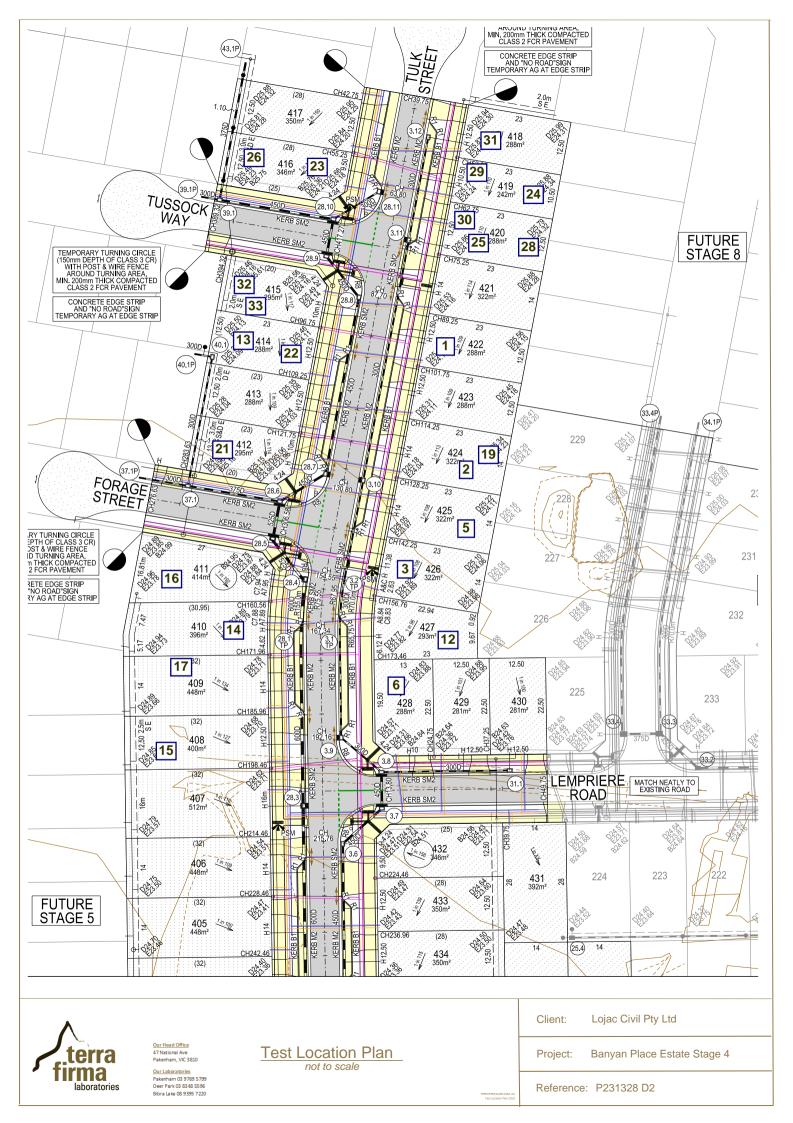


Appendix 1: Test Location Plan

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Appendix 2: Compaction Test Register and Test Certificates

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Compaction Test Register

Client:Lojac Civil Pty LtdProject No:Project:Banyan Place Estate Stage 4Specification:

P231328 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
30/01/2023	1	Layer 1		95.5%	Pass	Lot 422	P231328-1
30/01/2023	2	Layer 1		92.5%	Fail	Lot 424	P231328-1
30/01/2023	3	Layer 1		105.0%	Pass	Lot 426	P231328-1
30/01/2023	4	Layer 1		100.5%	Pass	Lot 436	P231328-1
15/02/2023	5	Layer 2		97.5%	Pass	Lot 425	P231328-2
15/02/2023	6	Layer 2		97.0%	Pass	Lot 428	P231328-2
15/02/2023	7	Layer 2		102.5%	Pass	Lot 437	P231328-2
14/03/2023	10	Layer 2		102.5%	Pass	Lot 441	P231328-3
14/03/2023	11	Layer 3		104.5%	Pass	Lot 431	P231328-3
14/03/2023	12	Layer 3		106.0%	Pass	Lot 427	P231328-3
15/03/2023	13	Layer 3		99.5%	Pass	Lot 414	P231328-4
15/03/2023	14	Layer 1		100.0%	Pass	Lot 410	P231328-4
15/03/2023	15	Layer 1		99.0%	Pass	Lot 408	P231328-4
16/03/2023	16	Layer 3		95.0%	Pass	Lot 411	P231328-5
16/03/2023	17	Layer 3		97.0%	Pass	Lot 409	P231328-5
16/03/2023	18	Layer 1		106.5%	Pass	Lot 434	P231328-5
16/03/2023	19	Layer 1	Test #2	103.0%	Pass	Lot 424	P231328-5
16/03/2023	20	Layer 1		98.0%	Pass	Lot 438	P231328-5
20/03/2023	21	Layer 5		96.0%	Pass	Lot 412	P231328-6
20/03/2023	22	Layer 5		99.5%	Pass	Lot 414	P231328-6
20/03/2023	23	Layer 5		98.0%	Pass	Lot 416	P231328-6
20/03/2023	24	Layer 2		102.0%	Pass	Lot 419	P231328-7
20/03/2023	25	Layer 2		98.0%	Pass	Lot 420	P231328-7
20/03/2023	26	Layer 2		98.0%	Pass	Lot 416	P231328-7
21/03/2023	27	Layer 3		100.0%	Pass	Lot 433	P231328-8
21/03/2023	28	5th		100.5%	Pass	Lot 420	P231328-8
21/03/2023	29	5th		100.0%	Pass	Lot 419	P231328-8
24/03/2023	30	FSL		102.0%	Pass	Lot 420	P231328-9
24/03/2023	31	FSL		99.0%	Pass	Lot 418	P231328-9
24/03/2023	32	FSL		94.5%	Fail	Lot 415	P231328-9
29/03/2023	33	FSL	Test #32	99.0%	Pass	Lot 415	P231328-11
29/03/2023	34	Layer 3		95.5%	Pass	Lot 440	P231328-11
29/03/2023	35	Layer 3		97.5%	Pass	Lot 441	P231328-11
29/03/2023	36	Layer 3		95.0%	Pass	Lot 401	P231328-11
29/03/2023	37	Layer 4		98.0%	Pass	Lot 402	P231328-11
3/04/2023	38	FSL		100.5%	Pass	Lot 433	P231328-10
3/04/2023	39	FSL		100.5%	Pass	Lot 405	P231328-10
3/04/2023	40	FSL		99.0%	Pass	Lot 407	P231328-10

Report Number:	P231328-1
Issue Number:	2 - This version supersedes all previous issues
Reissue Reason:	
Date Issued:	28/08/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	11373
Date Sampled:	30/01/2023
Dates Tested:	30/01/2023 - 03/02/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Site Selection:	Selected by Client
Location:	Banyan Estate - 100 Lecky Rd Officer - Stage 4
Material:	Silty Clay
Material Source:	Imported



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NATA Accredited Laboratory Number: 15357

Report Remarks	**	**	**	**
Compaction Method	Standard	Standard	Standard	Standard
Hilf Density Ratio (%)	95.5	92.5	105.0	100.5
Adjusted Moisture Variation %	**	3.0	5.0	**
loisture Variation (Wv) %	0.5	**	**	5.0
djusted Moisture Ratio % AS1289.5.4.1)	**	83.0	71.0	**
loisture Ratio % (AS1289.5.4.1)	96.5	**	**	68.0
dj. Field Moisture Content % AS1289.5.4.1)	17.3	14.5	13.0	**
dj. Optimum Moisture Content % AS1289.5.4.1)	17.9	17.5	18.3	**
Adjusted Peak Converted Wet Density	**	2.08	1.96	**
Peak Converted Wet Density t/m ³	2.09	**	**	2.00
Field Dry Density (FDD) t/m ³	1.70	1.68	1.82	1.81
ield Moisture Content %	17.3	15.2	13.6	10.8
Field Wet Density (FWD) t/m ³	2.00	1.92	2.05	2.01
Percentage of Dry Oversize (%) AS1289.5.4.1)	**	**	**	**
Percentage of Wet Oversize (%)	0	5	4	**
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
est Depth (mm)	275	275	275	275
Soil Description	**	**	**	**
Thickness of Layer (mm)	300	300	300	300
ayer / Reduced Level	L1	L1	L1	L1
Fest Request #/Location	1 Lot 422	2 Lot 424	3 Lot 426	4 Lot 436
Time Tested	13:50	13:52	13:54	13:59
Date Tested	30/01/2023	30/01/2023	30/01/2023	30/01/2023
est Number	1	2	3	4
ample Number	P23-11373A	P23-11373B	P23-11373C	P23-11373D

Moisture Variation Note:

Report Number:	P231328-2	
Issue Number: 2 - This version supersedes all previous issues		
Reissue Reason:		
Date Issued:	28/08/2023	
Client:	Lojac Civil Pty Ltd	
	35/148 Chesterville Road, Moorabbin Vic 3189	
Project Number:	P231328	
Project Name:	Banyan Place Estate Stage 4 - Level One	
Project Location:	70-100 Lecky Road, Officer	
Work Request:	11485	
Date Sampled:	15/02/2023	
Dates Tested:	13/02/2023 - 13/02/2023	
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted	
Specification:	95%	
Site Selection:	Selected by Client	
Location:	Banyan Place Estate Stage 4 - Level One	
Material:	Silty Clay	
Material Source:	Imported	



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Approved Signatory: Chris Caulfield Project Manager NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	P23-11485A	P23-11485B	P23-11485C	
Test Number	5	6	7	
Date Tested	15/02/2023	15/02/2023	15/02/2023	
Time Tested	**	**	**	
Test Request #/Location	Lot 425	Lot 428	Lot 437	
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	
Thickness of Layer (mm)	300	300	300	
Soil Description	CLAY	CLAY	CLAY	
Test Depth (mm)	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	
Field Wet Density (FWD) t/m ³	2.06	2.08	2.03	
Field Moisture Content %	18.7	15.2	29.3	
Field Dry Density (FDD) t/m ³	1.74	1.80	1.57	
Peak Converted Wet Density t/m ³	2.11	2.14	1.98	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.8	15.3	26.6	
Adj. Field Moisture Content % (AS1289.5.4.1)	18.7	15.2	29.3	
Moisture Ratio % (AS1289.5.4.1)	111.5	99.5	110.0	
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	
Moisture Variation (Wv) %	-2.0	0.0	-2.5	
Adjusted Moisture Variation %	**	**	**	
Hilf Density Ratio (%)	97.5	97.0	102.5	
Compaction Method	Standard	Standard	Standard	
Report Remarks	**	**	**	

Moisture Variation Note: Positive values = test is dry of OMC Negative values = test is wet of OMC

Report Number:	P231328-3B
Issue Number:	2 - This version supersedes all previous issues
Reissue Reason:	
Date Issued:	28/08/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	11880
Date Sampled:	14/03/2023
Dates Tested:	14/03/2023 - 16/03/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Site Selection:	Selected by Client
Location:	Banyan Estate Stage 4 - Level One
Material:	clay gravel
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1	& 2.1.1		
Sample Number	P23-11880C	P23-11880D	P23-11880E
Test Number	10	11	12
Date Tested	14/03/2023	14/03/2023	14/03/2023
Time Tested	**	**	**
Test Request #/Location	Lot 441	Lot 431	Lot 427
Layer / Reduced Level	Layer 2	Layer 3	Layer 3
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	2.01	2.02	2.02
Field Moisture Content %	14.2	17.6	17.0
Field Dry Density (FDD) t/m ³	1.76	1.71	1.72
Peak Converted Wet Density t/m ³	1.96	1.93	1.90
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	17.7	21.8	22.0
Adj. Field Moisture Content % (AS1289.5.4.1)	14.2	17.6	17.0
Moisture Ratio % (AS1289.5.4.1)	80.0	80.5	77.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	3.5	4.0	5.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.5	104.5	106.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note: Positive values = test is dry of OMC Negative values = test is wet of OMC

Report Number:	P231328-4
Issue Number:	1
Date Issued:	23/03/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	11892
Date Sampled:	15/03/2023
Dates Tested:	15/03/2023 - 16/03/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Site Selection:	Selected by Client
Location:	Banyan Estate Stage 04 - Level One
Material:	Clayey GRAVEL
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	P23-11892A	P23-11892B	P23-11892C	
Test Number	13	14	15	
Date Tested	15/03/2023	15/03/2023	15/03/2023	
Time Tested	**	**	**	
Test Request #/Location	13 Lot 414	14 Lot 410	15 Lot 408	
Easting	361848	361774	361805	
Northing	5783867	5783980	5783997	
Layer / Reduced Level	3rd layer	1st Layer	1st Layer	
Thickness of Layer (mm)	300	300	300	
Soil Description	Clay	Clay	Clay	
Test Depth (mm)	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	
Field Wet Density (FWD) t/m ³	2.11	2.07	2.10	
Field Moisture Content %	15.8	7.5	15.1	
Field Dry Density (FDD) t/m ³	1.82	1.93	1.82	
Peak Converted Wet Density t/m ³	2.12	2.07	2.12	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	
Moisture Variation (Wv) %	0.0	4.0	-0.5	
Adjusted Moisture Variation %	**	**	**	
Hilf Density Ratio (%)	99.5	100.0	99.0	
Compaction Method	Standard	Standard	Standard	
Report Remarks	**	**	**	

Moisture Variation Note:

Specification:

Material Source:

Location:

Material:

P231328-5
2 - This version supersedes all previous issues
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35/148 Chesterville Road, Moorabbin Vic 3189
P231328
Banyan Place Estate Stage 4 - Level One
70-100 Lecky Road, Officer
11904
16/03/2023
16/03/2023 - 17/03/2023
AS 1289.1.2.1 6.4 (b) - Sampling from layers in

ge 4 - Level One cer AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted 95% Banyan Estate Stage 04 - Level One Clayey GRAVEL Imported



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Compaction Control AS 1289 5.7.1 & 5.8	.1 & 2.1.1				
Sample Number	P23-11904A	P23-11904B	P23-11904C	P23-11904D	P23-11904E
Test Number	16	17	18	19	20
Date Tested	16/03/2023	16/03/2023	16/03/2023	16/03/2023	16/03/2023
Time Tested	**	**	**	**	**
Test Request #/Location	Lot 411	Lot 409	Lot 434	Lot 424 Retest #2	Lot 438
Layer / Reduced Level	3	3	1	1	1
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.03	2.01	2.16	2.12	2.09
Field Moisture Content %	12.6	14.5	9.8	8.3	13.7
Field Dry Density (FDD) t/m ³	1.80	1.76	1.97	1.95	1.84
Peak Converted Wet Density t/m ³	2.13	2.07	2.02	2.06	2.13
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	12.5	14.2	12.9	11.4	14.2
Adj. Field Moisture Content % (AS1289.5.4.1)	12.6	14.5	9.8	8.3	13.7
Moisture Ratio % (AS1289.5.4.1)	101.0	102.0	76.0	73.0	97.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	3.0	3.0	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	95.0	97.0	106.5	103.0	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Report Number:	P231328-6
Issue Number:	1
Date Issued:	23/03/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	11918
Date Sampled:	17/03/2023
Dates Tested:	17/03/2023 - 21/03/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Location:	Banyan Estate Stage 04 - Level One
Material:	CLAY
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1	1 & 2.1.1		
Sample Number	P23-11918A	P23-11918B	P23-11918C
Test Number	21	22	23
Date Tested	20/03/2023	20/03/2023	20/03/2023
Time Tested	**	**	**
Test Request #/Location	21 Lot 412	22 Lot 414	23 Lot 416
Easting	361785	361775	361782
Northing	5783953	5783956	5783995
Layer / Reduced Level	5th	5th	5th
Thickness of Layer (mm)	300	300	300
Soil Description	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	2.01	2.02	1.99
Field Moisture Content %	8.9	16.4	13.1
Field Dry Density (FDD) t/m ³	1.84	1.73	1.76
Peak Converted Wet Density t/m ³	2.09	2.03	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	11.7	17.7	14.8
Adj. Field Moisture Content % (AS1289.5.4.1)	8.9	16.4	13.1
Moisture Ratio % (AS1289.5.4.1)	75.5	92.5	88.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	3.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	99.5	98.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P231328-7
Issue Number:	1
Date Issued:	23/03/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	11940
Date Sampled:	20/03/2023
Dates Tested:	20/03/2023 - 21/03/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Location:	Banyan Estate Stage 04 - Level One
Material:	Clay gravelly
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8	.1 & 2.1.1		
Sample Number	P23-11940A	P23-11940B	P23-11940C
Test Number	24	25	26
Date Tested	20/03/2023	20/03/2023	20/03/2023
Time Tested	**	**	**
Test Request #/Location	24 Lot 419	25 Lot 420	26 Lot 416
Easting	361822	361773	361773
Northing	5784020	5784032	5784032
Layer / Reduced Level	2nd	2nd	2nd
Thickness of Layer (mm)	300	300	300
Soil Description	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	2.08	2.06	2.05
Field Moisture Content %	23.3	17.1	18.3
Field Dry Density (FDD) t/m ³	1.69	1.76	1.73
Peak Converted Wet Density t/m ³	2.04	2.10	2.09
Adjusted Peak Converted Wet Density t/m3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	20.4	16.6	18.4
Adj. Field Moisture Content % (AS1289.5.4.1)	23.3	17.1	18.3
Moisture Ratio % (AS1289.5.4.1)	114.0	102.5	99.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	-3.0	-0.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.0	98.0	98.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P231328-8
Issue Number:	1
Date Issued:	23/03/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	11958
Date Sampled:	21/03/2023
Dates Tested:	21/03/2023 - 22/03/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Location:	Banyan Estate Stage 04 - Level One
Material:	Clayey GRAVEL
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8	.1 & 2.1.1		
Sample Number	P23-11958A	P23-11958B	P23-11958C
Test Number	27	28	29
Date Tested	21/03/2023	21/03/2023	21/03/2023
Time Tested	**	**	**
Test Request #/Location	27 Lot 433	28 Lot 420	29 Lot 419
Easting	361721	361841	3618851
Northing	5783759	5784001	5784101
Layer / Reduced Level	3rd	5th	5th
Thickness of Layer (mm)	300	300	300
Soil Description	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	2	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	0
Field Wet Density (FWD) t/m ³	2.02	2.04	2.05
Field Moisture Content %	16.4	23.0	20.4
Field Dry Density (FDD) t/m ³	1.74	1.66	1.70
Peak Converted Wet Density t/m ³	**	2.03	2.05
Adjusted Peak Converted Wet Density t/m3	2.03	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.7	21.4	20.3
Adj. Field Moisture Content % (AS1289.5.4.1)	16.1	23.0	20.4
Moisture Ratio % (AS1289.5.4.1)	**	107.5	100.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	96.0	**	**
Moisture Variation (Wv) %	**	-1.5	0.0
Adjusted Moisture Variation %	0.5	**	**
Hilf Density Ratio (%)	100.0	100.5	100.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P231328-9
Issue Number:	1
Date Issued:	12/04/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	12011
Date Sampled:	24/03/2023
Dates Tested:	24/03/2023 - 27/03/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Location:	Banyan Place Estate Stage 4 - Level One
Material:	CLAY
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8	1 & 2.1.1		
Sample Number	P23-12011A	P23-12011B	P23-12011C
Test Number	30	31	32
Date Tested	24/03/2023	24/03/2023	24/03/2023
Time Tested	**	**	**
Test Request #/Location	30 Lot 420	31 Lot 418	32 Lot 415
Easting	361827	361842	361782
Northing	5784043	5784059	5784027
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	2.14	2.03	2.00
Field Moisture Content %	17.3	24.4	11.1
Field Dry Density (FDD) t/m ³	1.83	1.63	1.80
Peak Converted Wet Density t/m ³	2.10	2.05	2.12
Adjusted Peak Converted Wet Density t/m3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	19.1	22.0	13.0
Adj. Field Moisture Content % (AS1289.5.4.1)	17.3	24.4	11.1
Moisture Ratio % (AS1289.5.4.1)	90.5	111.0	85.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	2.0	-2.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.0	99.0	94.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P231328-10
Issue Number:	1
Date Issued:	05/05/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	12092
Date Sampled:	03/04/2023
Dates Tested:	03/04/2023 - 04/04/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Location:	Banyan Place Estate Stage 4 - Level One
Material:	CLAY
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8	.1 & 2.1.1		
Sample Number	P23-12092A	P23-12092B	P23-12092C
Test Number	38	39	40
Date Tested	03/04/2023	03/04/2023	03/04/2023
Time Tested	**	**	**
Test Request #/Location	38 433	39 405	40 407
Easting	361824	361763	361773
Northing	5783818	5783811	5783849
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	2.10	2.08	2.12
Field Moisture Content %	16.6	15.1	12.9
Field Dry Density (FDD) t/m ³	1.80	1.81	1.88
Peak Converted Wet Density t/m ³	2.09	2.07	2.14
Adjusted Peak Converted Wet Density t/m3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.5	15.6	13.2
Adj. Field Moisture Content % (AS1289.5.4.1)	16.6	15.1	12.9
Moisture Ratio % (AS1289.5.4.1)	101.0	96.5	98.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	100.5	99.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P231328-11
Issue Number:	1
Date Issued:	05/05/2023
Client:	Lojac Civil Pty Ltd
	35/148 Chesterville Road, Moorabbin Vic 3189
Project Number:	P231328
Project Name:	Banyan Place Estate Stage 4 - Level One
Project Location:	70-100 Lecky Road, Officer
Work Request:	12063
Date Sampled:	29/03/2023
Dates Tested:	29/03/2023 - 30/03/2023
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95%
Location:	Banyan Place Estate Stage 4 - Level One
Material:	CLAY
Material Source:	Imported



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Compaction Control AS 1289 5.7.1 & 5.8.	1 & 2.1.1				
Sample Number	P23-12063A	P23-12063B	P23-12063C	P23-12063D	P23-12063E
Test Number	33	34	35	36	37
Date Tested	29/03/2023	29/03/2023	29/03/2023	29/03/2023	29/03/2023
Time Tested	**	**	**	**	**
Test Request #/Location	33R Lot415 retest	34 440	35 441	36 401	37 402
Easting	361782	**	**	361765	361764
Northing	5784027	**	**	5783807	5783819
Layer / Reduced Level	FSL	3rd layer	3rd layer	3rd layer	4th layer
Thickness of Layer (mm)	300	250	300	250	250
Soil Description	CLAY	CLAY	CLAY	CLAY	CLAY
Test Depth (mm)	275	225	275	225	225
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.12	2.02	2.13	2.02	2.03
Field Moisture Content %	10.1	14.3	14.2	14.3	17.5
Field Dry Density (FDD) t/m ³	1.93	1.76	1.86	1.77	1.73
Peak Converted Wet Density t/m ³	2.15	2.11	2.18	2.13	2.08
Adjusted Peak Converted Wet Density t/m3	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	10.4	11.4	11.2	12.0	15.0
Adj. Field Moisture Content % (AS1289.5.4.1)	10.1	14.3	14.2	14.3	17.5
Moisture Ratio % (AS1289.5.4.1)	97.0	125.0	126.5	119.0	116.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	0.5	-3.0	-3.0	-2.5	-2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	95.5	97.5	95.0	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:



TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 401

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 401 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

flangheld

C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 402

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 402 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

flangheld

C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 403

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 403 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 404

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 404 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 405

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 405 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

flangheld

C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 406

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 406 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 407

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 407 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 408

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 408 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 409

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 409 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 410

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 410 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 411

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 411 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 412

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 412 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 413

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 413 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 414

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 414 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 415

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 415 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 416

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 416 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 417

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 417 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 418

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 418 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 419

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 419 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 420

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 420 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 421

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 421 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

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For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 422

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 422 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

flangheld

C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 423

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 423 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 424

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 424 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 425

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 425 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 426

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 426 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 427

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 427 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 428

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 428 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 429

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 429 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 430

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 430 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 431

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 431 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 432

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 432 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 433

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 433 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 434

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 434 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 435

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 435 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 436

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 436 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 437

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 437 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 438

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 438 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

flangheld

C Caulfield Project Manager

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TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 439

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 439 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P231328A) has been published on 28 Aug 2023 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of **Terra Firma Laboratories**

flangheld

C Caulfield Project Manager

Our Head Office 47 National Ave Pakenham, VIC 3810 Our Laboratories Pakenham 03 9769 5799 Deer Park 03 8348 5596 Bibra Lake 0481 227 980



TO WHOM IT MAY CONCERN

Re: Banyan Place Estate Stage 4 Officer Lot 440

Terra Firma Laboratories was engaged by *Lojac Civil Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for Banyan Place Estate, Stage 4, Officer in accordance with Australian Standard AS3798 Guidelines for *Earthworks for Commercial and Residential Development.*

Lot 440 as defined in drawing Ref 1470_4/R04 and R05 from *Charlton Degg*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 300mm below finished surface level. The final 300mm material is considered top soil and organic matter and not controlled fill.
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