Banyan Estate Stage 9

GITA Inspection Verification Report

Prepared For:	Lojac Civil Pty Ltd
Report Number	P241755A V1
Version Release Date	1 Apr 2025
Report Released By	C Caulfield
Title	Laboratory Manager
Signature	

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Appendices

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 Estate Stage 9. This work was conducted over the period of 16/09/2024 to 20/11/2024.

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 901 to 954, bounded by streets Mulberry Road, Prairie Road, Forage Street, Daybreak Street, Tussock Way and Dewy 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: 1470-9/R04) 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 1500m^2), the minimum testing frequency is 1 test per layer per material type per 2500m^2 or 1 test per 500m^3 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.

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 2500m^2 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 200mm 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 200mm 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

plan (P241755D1, 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 114 density tests (Hilf method in accordance with 1289 5.7.1) were undertaken with 12 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 9 at Banyan Estate. For completed fill areas of greater than 300mm, and for works completed between 16/09/2024 and 20/11/2024, 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 9 of Banyan Estate was observed to be constructed in compliance with the requirements of the Technical Specification.

Appendix 1: Test Location Plan

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Bibra Lake 08 9395 7220

Test Location Plan

not to scale

Client:	Lojac Caivil Pty Ltd
Project:	Banyan Estate, Stage 9
Reference:	P241755 D1

Appendix 2: Compaction Test Register and Test Certificates

Compaction Test Register

Client: Lojac Civil Pty Ltd
Project: Banyan Estate Stage 9
Project No: P241755
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
16/09/2024	1	Layer 1		98.5%	Pass	Lot 928	P241755-3
16/09/2024	2	Layer 1		96.5%	Pass	Lot 927	P241755-3
16/09/2024	3	Layer 1		98.5%	Pass	Lot 925	P241755-3
16/09/2024	4	Layer 1		99.5%	Pass	Lot 923	P241755-1
17/09/2024	5	Layer 1		95.0%	Pass	Lot 920	P241755-1
17/09/2024	6	Layer 1		99.0%	Pass	Lot 949	P241755-1
17/09/2024	7	Layer 1		98.0%	Pass	Lot 951	P241755-2
18/09/2024	8	Layer 1		99.5%	Pass	Lot 905	P241755-2
18/09/2024	9	Layer 1		99.5%	Pass	Lot 901	P241755-2
18/09/2024	10	Layer 1		99.5%	Pass	Lot 907	P241755-4
20/09/2024	11	Layer 1		99.5%	Pass	Lot 910	P241755-4
20/09/2024	12	Layer 1		98.0%	Pass	Lot 912	P241755-4
20/09/2024	13	Layer 1		104.0%	Pass	Lot 919	P241755-5
23/09/2024	14	Layer 1		90.0%	Fail	Lot 916	P241755-5
23/09/2024	15	Layer 1		91.0%	Fail	Lot 914	P241755-5
23/09/2024	16	Layer 1		100.5%	Pass	Lot 944	P241755-6
24/09/2024	17	Layer 1		97.5%	Pass	Lot 942	P241755-6
24/09/2024	18	Layer 1		104.5%	Pass	Lot 940	P241755-6
24/09/2024	19	Layer 1	Test #14	100.0%	Pass	Lot 916	P241755-6
24/09/2024	20	Layer 1	Test #15	108.0%	Pass	Lot 914	P241755-6
24/09/2024	21	Layer 1		97.0%	Pass	Lot 930	P241755-7
30/09/2024	22	Layer 1		98.0%	Pass	Lot 932	P241755-7
30/09/2024	23	Layer 1		97.0%	Pass	Lot 940	P241755-7
30/09/2024	24	layer 1		95.5%	Pass	Lot 936	P241755-8
1/10/2024	25	layer 1		93.5%	Fail	Lot 937	P241755-8
1/10/2024	26	layer 1		91.0%	Fail	Lot 938	P241755-8
1/10/2024	27	Layer 1		87.0%	Fail	Lot 947	P241755-9
2/10/2024	28	Layer 2		95.5%	Pass	Lot 922	P241755-9
2/10/2024	29	Layer 2		97.5%	Pass	Lot 924	P241755-9
2/10/2024	30	Layer 2		99.5%	Pass	Lot 926	P241755-11
7/10/2024	31	Layer 2		96.0%	Pass	Lot 929	P241755-11
7/10/2024	32	Layer 2		92.0%	Fail	Lot 948	P241755-11
7/10/2024	33	Layer 2		95.5%	Pass	Lot 945	P241755-11
7/10/2024	34	Layer 2		99.0%	Pass	Lot 946	P241755-11
7/10/2024	35	Layer 2		103.5%	Pass	Lot 950	P241755-11
7/10/2024	36	Layer 2		97.0%	Pass	Lot 952	P241755-11
7/10/2024	37	Layer 2		96.5%	Pass	Lot 953	P241755-11
7/10/2024	38	Layer 2		98.5%	Pass	Lot 954	P241755-11
7/10/2024	39	Layer 2		103.5%	Pass	Lot 906	P241755-12
9/10/2024	40	Layer 2		103.5%	Pass	Lot 908	P241755-12
9/10/2024	41	Layer 2		101.0%	Pass	Lot 909	P241755-12

Compaction Test Register

Client: Lojac Civil Pty Ltd
Project No: P241755
Project: Banyan Estate Stage 9
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
9/10/2024	42	Layer 3		97.5%	Pass	Lot 911	P241755-12
9/10/2024	43	Layer 3		100.5%	Pass	Lot 913	P241755-12
9/10/2024	44	Layer 3		105.5%	Pass	Lot 915	P241755-12
9/10/2024	45	Layer 2		102.0%	Pass	Lot 918	P241755-13
11/10/2024	46	Layer 2		95.5%	Pass	Lot 917	P241755-13
11/10/2024	47	Layer 2		97.0%	Pass	Lot 921	P241755-13
11/10/2024	48	Layer 2		95.5%	Pass	Lot 931	P241755-14
7/11/2024	49	Layer 2		95.5%	Pass	Lot 933	P241755-14
7/11/2024	50	Layer 2		97.0%	Pass	Lot 903	P241755-14
7/11/2024	51	Layer 2		105.5%	Pass	Lot 904	P241755-14
7/11/2024	52	Layer 2		99.0%	Pass	Lot 902	P241755-14
7/11/2024	53	Layer 2	Test #32	96.0%	Pass	Lot 948	P241755-14
7/11/2024	54	F/L		101.5%	Pass	Lot 943	P241755-15
20/11/2024	55	F/L		101.0%	Pass	Lot 941	P241755-15
20/11/2024	56	F/L		101.0%	Pass	Lot 939	P241755-15
20/11/2024	57	F/L		102.5%	Pass	Lot 935	P241755-15
20/11/2024	58	Layer 1	Test #25	101.0%	Pass	Lot 937	P241755-15
20/11/2024	59	Layer 1	Test #26	100.0%	Pass	Lot 938	P241755-15
20/11/2024	60	Layer 1	Test #27	98.0%	Pass	Lot 947	P241755-15

Material Test Report

Report Number: P241755-3
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16079
Date Sampled: 16/09/2024
Dates Tested: 16/09/2024 - 24/09/2024
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, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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Accredited for compliance with ISO/IEC 17025 - Testing
Approved Signatory: Chris Caulfield
Laboratory Manager
NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16079A	P24-16079B	P24-16079C
Test Number	1	2	3
Date Tested	16/09/2024	16/09/2024	16/09/2024
Time Tested	**	**	**
Test Request #/Location	Lot 928	Lot 927	Lot 925
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	2.02	2.12
Field Moisture Content %	14.4	12.9	13.9
Field Dry Density (FDD) t/m^3	1.83	1.79	1.86
Peak Converted Wet Density t/m^3	2.13	2.09	2.16
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	15.0	14.2	14.0
Adj. Field Moisture Content % (AS1289.5.4.1)	14.4	12.9	13.9
Moisture Ratio % (AS1289.5.4.1)	96.0	90.5	99.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.5	1.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**98.5**	**96.5**	**98.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: P241755-1
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason:
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16108
Date Sampled: 17/09/2024
Dates Tested: 17/09/2024 - 18/09/2024
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, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16108A	P24-16108B	P24-16108C
Test Number	4	5	6
Date Tested	17/09/2024	17/09/2024	17/09/2024
Time Tested	**	**	**
Test Request #/Location	Lot 923	Lot 920	Lot 949
Easting	361459	361467	361459
Northing	5784020	5784051	5783924
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	1.94	1.95	2.06
Field Moisture Content %	19.0	14.9	16.3
Field Dry Density (FDD) t/m^3	1.63	1.69	1.77
Peak Converted Wet Density t/m^3	1.95	2.05	2.09
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	21.6	15.9	16.8
Adj. Field Moisture Content % (AS1289.5.4.1)	19.0	14.9	16.3
Moisture Ratio % (AS1289.5.4.1)	88.0	94.0	97.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	2.5	1.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**99.5**	**95.0**	**99.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: P241755-2
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason:
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16111
Date Sampled: 18/09/2024
Dates Tested: 18/09/2024 - 19/09/2024
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, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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Laboratory Manager
NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16111A	P24-16111B	P24-16111C
Test Number	7	8	9
Date Tested	18/09/2024	18/09/2024	18/09/2024
Time Tested	**	**	**
Test Request #/Location	Lot 951	Lot 905	Lot 901
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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 (%)	**	**	**
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m^3	2.09	2.08	2.07
Field Moisture Content %	15.4	16.9	15.1
Field Dry Density (FDD) t/m^3	1.81	1.78	1.80
Peak Converted Wet Density t/m^3	2.14	2.09	2.08
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	**	**	**
Moisture Ratio % (AS1289.5.4.1)	98.5	96.5	100.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**98.0**	**99.5**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: **P241755-4**
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16131
Date Sampled: 20/09/2024
Dates Tested: 20/09/2024 - 23/09/2024
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, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16131A	P24-16131B	P24-16131C
Test Number	10	11	12
Date Tested	20/09/2024	20/09/2024	20/09/2024
Time Tested	**	**	**
Test Request #/Location	Lot 907	Lot 910	Lot 912
Easting	361566	362695	361500
Northing	5783633	5785478	5783931
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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
Field Wet Density (FWD) t/m^3	2.04	2.00	2.02
Field Moisture Content %	15.4	13.7	16.0
Field Dry Density (FDD) t/m^3	1.76	1.76	1.74
Peak Converted Wet Density t/m^3	2.05	2.02	2.06
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	15.8	16.1
Adj. Field Moisture Content % (AS1289.5.4.1)	15.4	13.7	16.0
Moisture Ratio % (AS1289.5.4.1)	87.5	86.5	99.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	2.0	2.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**99.5**	**99.5**	**98.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: P241755-5
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16143
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 24/09/2024
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, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16143A	P24-16143B	P24-16143C
Test Number	13	14	15
Date Tested	23/09/2024	23/09/2024	23/09/2024
Time Tested	**	**	**
Test Request #/Location	Lot 919	Lot 916	Lot 914
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	2.18	1.97	1.96
Field Moisture Content %	9.5	13.8	14.7
Field Dry Density (FDD) t/m^3	1.99	1.74	1.71
Peak Converted Wet Density t/m^3	2.09	2.19	2.16
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	10.3	13.2	14.6
Adj. Field Moisture Content % (AS1289.5.4.1)	9.5	13.8	14.7
Moisture Ratio % (AS1289.5.4.1)	92.5	104.0	100.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	1.0	-0.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**104.0**	**90.0**	**91.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: P241755-6
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16152
Date Sampled: 24/09/2024
Dates Tested: 24/09/2024 - 25/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95%
Location: Banyan Place, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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Approved Signatory: Chris Caulfield
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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	P24-16152A	P24-16152B	P24-16152C	P24-16152D	P24-16152E
Test Number	16	17	18	19	20
Date Tested	24/09/2024	24/09/2024	24/09/2024	24/09/2024	24/09/2024
Time Tested	**	**	**	**	**
Test Request #/Location	Lot 944	Lot 942	Lot 940	Lot 916 Retest #14	Lot 914 Retest #15
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	CLAY	CLAY	CLAY	CLAY	CLAY
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	**
Field Wet Density (FWD) t/m^3	2.19	2.15	2.17	2.16	2.16
Field Moisture Content %	12.9	13.8	17.5	15.1	11.1
Field Dry Density (FDD) t/m^3	1.94	1.89	1.85	1.88	1.95
Peak Converted Wet Density t/m^3	2.18	2.21	2.09	2.16	2.00
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	12.6	13.4	16.8	14.5	**
Adj. Field Moisture Content % (AS1289.5.4.1)	12.9	13.8	17.5	15.1	11.1
Moisture Ratio % (AS1289.5.4.1)	102.5	103.5	104.5	104.0	80.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	-1.0	-0.5	3.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**100.5**	**97.5**	**104.5**	**100.0**	**108.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: P241755-7
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16191
Date Sampled: 30/09/2024
Dates Tested: 30/09/2024 - 01/10/2024
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 9 - 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	P24-16191A	P24-16191B	P24-16191C
Test Number	21	22	23
Date Tested	30/09/2024	30/09/2024	30/09/2024
Time Tested	13:10	13:10	13:10
Test Request #/Location	Lot 930	Lot 932	Lot 940
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	1.98	2.04	2.03
Field Moisture Content %	11.1	16.6	18.1
Field Dry Density (FDD) t/m^3	1.78	1.75	1.72
Peak Converted Wet Density t/m^3	2.04	2.08	2.09
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	11.8	16.1	17.2
Adj. Field Moisture Content % (AS1289.5.4.1)	11.1	16.6	18.1
Moisture Ratio % (AS1289.5.4.1)	94.0	103.5	105.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.5	-0.5	-1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**97.0**	**98.0**	**97.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: **P241755-8**
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16203
Date Sampled: 01/10/2024
Dates Tested: 01/10/2024 - 03/10/2024
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, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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Laboratory Manager
NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16203A	P24-16203B	P24-16203C
Test Number	24	25	26
Date Tested	01/10/2024	01/10/2024	01/10/2024
Time Tested	**	**	**
Test Request #/Location	Lot 936	Lot 937	Lot 938
Easting	361552	361770	361567
Northing	5784120	5784998	5784054
Layer / Reduced Level	layer 1	layer 1	layer 1
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	2.02	2.03	2.03
Field Moisture Content %	10.2	9.7	10.2
Field Dry Density (FDD) t/m^3	1.84	1.85	1.84
Peak Converted Wet Density t/m^3	2.12	2.18	2.24
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	11.8	10.5	10.7
Adj. Field Moisture Content % (AS1289.5.4.1)	10.2	9.7	10.2
Moisture Ratio % (AS1289.5.4.1)	86.5	92.5	95.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	1.5	1.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**95.5**	**93.5**	**91.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: **P241755-9**
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16210
Date Sampled: 02/10/2024
Dates Tested: 02/10/2024 - 07/10/2024
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, Officer- Stage 9 Level 1 Monitoring
Material: CLAY
Material Source: Imported

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16210A	P24-16210B	P24-16210C
Test Number	27	28	29
Date Tested	02/10/2024	02/10/2024	02/10/2024
Time Tested	**	**	**
Test Request #/Location	Lot 947	Lot 922	Lot 924
Layer / Reduced Level	Layer 1	Layer 2	Layer 2
Thickness of Layer (mm)	300	200	200
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	175	175
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	2.06	2.06	2.03
Field Moisture Content %	10.3	9.2	17.3
Field Dry Density (FDD) t/m^3	1.87	1.88	1.73
Peak Converted Wet Density t/m^3	2.36	2.15	2.08
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	9.4	10.6	16.3
Adj. Field Moisture Content % (AS1289.5.4.1)	10.3	9.2	17.3
Moisture Ratio % (AS1289.5.4.1)	110.0	87.0	106.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	-1.0	1.5	-1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**87.0**	**95.5**	**97.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: P241755-11
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16240
Date Sampled: 07/10/2024
Dates Tested: 07/10/2024 - 11/10/2024
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 Stage 9 Level One
Material: Sandy Silty Clay
Material Source: Imported

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	P24-16240A	P24-16240B	P24-16240C	P24-16240D	P24-16240E
Test Number	30	31	32	33	34
Date Tested	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024
Time Tested	10:09	10:17	10:25	10:45	10:51
Test Request #/Location	Lot 926	Lot 929	Lot 948	Lot 945	Lot 946
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
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	2.04	1.92	2.09	2.08
Field Moisture Content %	19.6	9.7	21.1	11.3	8.7
Field Dry Density (FDD) t/m^3	1.70	1.86	1.58	1.88	1.91
Peak Converted Wet Density t/m^3	2.05	2.12	2.08	2.20	2.10
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	18.7	11.9	20.0	11.0	11.8
Adj. Field Moisture Content % (AS1289.5.4.1)	19.6	9.7	21.1	11.3	8.7
Moisture Ratio % (AS1289.5.4.1)	104.5	81.0	105.5	102.0	74.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	-1.0	2.5	-1.0	0.0	3.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**99.5**	**96.0**	**92.0**	**95.5**	**99.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: **P241755-11**
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16240
Date Sampled: 07/10/2024
Dates Tested: 07/10/2024 - 11/10/2024
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 Stage 9 Level One
Material: Sandy Silty Clay
Material Source: Imported

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	P24-16240F	P24-16240G	P24-16240H	P24-16240I	
Test Number	35	36	37	38	
Date Tested	07/10/2024	07/10/2024	07/10/2024	07/10/2024	
Time Tested	10:59	15:36	15:42	15:48	
Test Request #/Location	Lot 950	Lot 952	Lot 953	Lot 954	
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	Layer 2	
Thickness of Layer (mm)	300	300	300	300	
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	
Test Depth (mm)	275	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	0	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	**	0	0	
Field Wet Density (FWD) t/m^3	2.19	2.04	2.05	2.08	
Field Moisture Content %	10.7	12.3	13.2	13.4	
Field Dry Density (FDD) t/m^3	1.98	1.82	1.81	1.83	
Peak Converted Wet Density t/m^3	2.12	2.11	2.13	2.11	
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	12.6	**	12.6	12.8	
Adj. Field Moisture Content % (AS1289.5.4.1)	10.7	12.3	13.2	13.4	
Moisture Ratio % (AS1289.5.4.1)	85.5	96.5	105.0	104.5	
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	
Moisture Variation (Wv) %	2.0	0.5	-0.5	-0.5	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	**103.5**	**97.0**	**96.5**	**98.5**	
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	
Report Remarks	**	**	**	**	

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

Material Test Report

Report Number: P241755-12
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16259
Date Sampled: 09/10/2024
Dates Tested: 09/10/2024 - 14/10/2024
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 stage 9 Officer - Level One
Material: Sandy silty CLAY
Material Source: Imported

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	P24-16259A	P24-16259B	P24-16259C	P24-16259D	P24-16259E	P24-16259F
Test Number	39	40	41	42	43	44
Date Tested	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
Time Tested	**	**	**	**	**	**
Test Request #/Location	Lot 906	Lot 908	Lot 909	Lot 911	Lot 913	Lot 915
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	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	2.07	2.15	2.10	2.11	2.05	2.04
Field Moisture Content %	21.3	13.6	14.2	15.4	20.3	19.1
Field Dry Density (FDD) t/m^3	1.70	1.89	1.84	1.83	1.70	1.71
Peak Converted Wet Density t/m^3	1.99	2.08	2.09	2.17	2.04	1.93
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	21.5	14.6	13.8	**	19.5	18.2
Adj. Field Moisture Content % (AS1289.5.4.1)	21.3	13.6	14.2	15.4	20.3	19.1
Moisture Ratio % (AS1289.5.4.1)	99.0	93.0	103.0	114.5	104.5	105.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	1.0	-0.5	-2.0	-1.0	-1.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	**103.5**	**103.5**	**101.0**	**97.5**	**100.5**	**105.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**	**

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

Material Test Report

Report Number: **P241755-13**
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16280
Date Sampled: 11/10/2024
Dates Tested: 11/10/2024 - 18/10/2024
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 Stage 9
Material: Sandy Silty Clay
Material Source: Imported

terra firma laboratories
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NATA WORLD RECOGNISED ACCREDITATION
Accredited for compliance with ISO/IEC 17025 - Testing

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

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-16280A	P24-16280B	P24-16280C
Test Number	45	46	47
Date Tested	11/10/2024	11/10/2024	11/10/2024
Time Tested	14:26	14:33	14:40
Test Request #/Location	Lot 918	Lot 917	Lot 921
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty 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	2.07	2.00	2.01
Field Moisture Content %	22.1	17.2	17.8
Field Dry Density (FDD) t/m^3	1.69	1.70	1.70
Peak Converted Wet Density t/m^3	2.03	2.09	2.07
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	21.2	16.0	17.1
Adj. Field Moisture Content % (AS1289.5.4.1)	22.1	17.2	17.8
Moisture Ratio % (AS1289.5.4.1)	104.0	107.5	104.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	-1.0	-1.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**102.0**	**95.5**	**97.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: P241755-14
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16478
Date Sampled: 07/11/2024 8:40
Dates Tested: 07/11/2024 - 08/11/2024
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 Stage 9
Material: Gravelly CLAY
Material Source: Imported

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

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

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	P24-16478A	P24-16478B	P24-16478C	P24-16478D	P24-16478E	P24-16478F
Test Number	48	49	50	51	52	53
Date Tested	07/11/2024	07/11/2024	07/11/2024	07/11/2024	07/11/2024	07/11/2024
Time Tested	**	**	**	**	**	**
Test Request #/Location	Lot 931	Lot 933	Lot 903	Lot 904	Lot 902	Lot 948 Retest #32
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0	0	0	0
Field Wet Density (FWD) t/m^3	1.85	1.97	1.91	1.98	1.93	1.97
Field Moisture Content %	21.5	12.7	13.2	25.4	19.8	13.6
Field Dry Density (FDD) t/m^3	1.53	1.75	1.69	1.58	1.61	1.74
Peak Converted Wet Density t/m^3	1.94	2.07	1.97	1.88	1.95	2.05
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	23.0	13.9	14.6	27.5	21.6	15.1
Adj. Field Moisture Content % (AS1289.5.4.1)	21.5	12.7	13.2	25.4	19.8	13.6
Moisture Ratio % (AS1289.5.4.1)	93.5	91.0	90.5	92.5	92.0	90.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.5	2.0	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	**95.5**	**95.5**	**97.0**	**105.5**	**99.0**	**96.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**	**

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

Material Test Report

Report Number: P241755-15
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16577
Date Sampled: 20/11/2024 8:30
Dates Tested: 20/11/2024 - 25/11/2024
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 Stage 9
Material: CLAY
Material Source: Onsite

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NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing

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

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	P24-16577A	P24-16577B	P24-16577C	P24-16577D
Test Number	54	55	56	57
Date Tested	20/11/2024	20/11/2024	20/11/2024	20/11/2024
Time Tested	08:45	08:45	08:45	08:45
Test Request #/Location	Lot 943	Lot 941	Lot 939	Lot 935
Layer / Reduced Level	F/L	F/L	F/L	F/L
Thickness of Layer (mm)	300	300	300	300
Soil Description	Gravelly CLAY	Gravelly CLAY	Gravelly CLAY	Gravelly CLAY
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	5	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**
Field Wet Density (FWD) t/m^3	2.06	2.08	2.09	2.10
Field Moisture Content %	8.0	6.8	7.1	7.0
Field Dry Density (FDD) t/m^3	1.91	1.95	1.95	1.96
Peak Converted Wet Density t/m^3	2.04	**	2.07	2.05
Adjusted Peak Converted Wet Density t/m^3	**	2.07	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	11.5	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	8.0	6.5	7.1	7.0
Moisture Ratio % (AS1289.5.4.1)	64.0	**	61.5	66.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	56.5	**	**
Moisture Variation (Wv) %	4.5	**	4.5	3.5
Adjusted Moisture Variation %	**	5.0	**	**
Hilf Density Ratio (%)	**101.5**	**101.0**	**101.0**	**102.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Remarks	**	**	**	**

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

Material Test Report

Report Number: P241755-15
Issue Number: 1
Date Issued: 01/04/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P241755
Project Name: Banyan Place Stage 9
Project Location: Officer
Work Request: 16577
Date Sampled: 20/11/2024 8:30
Dates Tested: 20/11/2024 - 25/11/2024
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 Stage 9
Material: CLAY
Material Source: Onsite

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

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	P24-16577E	P24-16577F	P24-16577G	
Test Number	58	59	60	
Date Tested	20/11/2024	20/11/2024	20/11/2024	
Time Tested	08:45	08:45	08:45	
Test Request #/Location	Lot 937 Retest #25	Lot 938 Retest #26	Lot 947 Retest #27	
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	
Thickness of Layer (mm)	300	300	300	
Soil Description	Gravelly CLAY	Gravelly CLAY	Gravelly 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	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	**	
Field Wet Density (FWD) t/m^3	2.13	2.12	2.03	
Field Moisture Content %	12.3	13.9	14.3	
Field Dry Density (FDD) t/m^3	1.89	1.86	1.77	
Peak Converted Wet Density t/m^3	2.10	2.12	2.06	
Adjusted Peak Converted Wet Density t/m^3	**	**	**	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	15.7	**	
Adj. Field Moisture Content % (AS1289.5.4.1)	**	13.9	14.3	
Moisture Ratio % (AS1289.5.4.1)	85.0	88.5	101.0	
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	
Moisture Variation (Wv) %	2.0	2.0	0.0	
Adjusted Moisture Variation %	**	**	**	
Hilf Density Ratio (%)	**101.0**	**100.0**	**98.0**	
Compaction Method	**Standard**	**Standard**	**Standard**	
Remarks	**	**	**	

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

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 901

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 901 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 902

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 902 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 903

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 903 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 904

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 904 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 905

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 905 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 906

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 906 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 907

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 907 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 908

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 908 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 909

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 909 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 910

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 910 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 911

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 911 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 912

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 912 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 913

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 913 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 914

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 914 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 915

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 915 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 916

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 916 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 917

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 917 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 918

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 918 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 919

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 919 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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- 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 920

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 920 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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- 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 921

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 921 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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- 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 922

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 922 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 923

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 923 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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- 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 924

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 924 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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- 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 925

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 925 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 926

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 926 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 927

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 927 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 928

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 928 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 929

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 929 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 930

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 930 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 931

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 931 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 932

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 932 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 933

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 933 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 934

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 934 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 935

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 935 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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- 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 936

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 936 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 937

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 937 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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- 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 938

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 938 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 939

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 939 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 940

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 940 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 941

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 941 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 942

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 942 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 943

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Lot 943 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 944

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Lot 944 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 945

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 945 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

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- 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 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241755A) has been published on 1 Apr 2025 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

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 946

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 946 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm 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 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 947

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 947 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 948

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Lot 948 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 949

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Lot 949 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 950

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 950 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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For and on behalf of
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C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 951

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 Estate, Stage 9, Officer in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 951 as defined in drawing Ref 1470-9/R04 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 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

TO WHOM IT MAY CONCERN

Re: Banyan Estate Stage 9
Officer
Lot 952

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Lot 952 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

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Re: Banyan Estate Stage 9
Officer
Lot 953

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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1 Apr 2025

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Re: Banyan Estate Stage 9
Officer
Lot 954

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Lot 954 as defined in drawing Ref 1470-9/R04 from *Charlton Degg,* provided by the contractor, was included in the scope of works.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager