

Perch Estate Stage 1 and 2

GITA Inspection Verification Report

Prepared For: Lojac Civil Pty Ltd

Report Number P252223A V1

Version Release Date 17 Nov 2025

Report Released By C Caulfield

Title Laboratory Manager

Signature



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1 Introduction

Terra Firma Laboratories was engaged by Lojac Civil Pty Ltd as the Geotechnical Inspection and Testing Authority (GITA) to provide Level 1 supervision and testing works on the earthworks component for Perch Estate Stages 1 and 2. This work was conducted over the period of 12/05/2025 to 30/10/2025.

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 104 to 109, 115, 116, 125, B, 201 to 212, 215 to 232 and 241 to 253, bounded by streets Shearwater Boulevard, Goldfinch Street, Kestrel Street, Timamou Way, Osprey Street, Pilchard Lane and Canary Street. 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 Reeds Consulting (Drawing Reference: 22902E/1) and provided by Lojac Civil Pty Ltd.

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

2.2 Specification

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

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

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

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

2.3 Limitations

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

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

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

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

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

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3 Construction Method

3.1 Subgrade Preparation

At the time of subgrade inspection the following was observed:

- Subgrade preparation involved stripping the site of topsoil, vegetation and organic matter to a depth of approximately 200mm below existing levels.
- The site was cleared of all trees and stumps to the extent necessary for the fill placement to proceed
- The roots of all trees and any debris was removed from site prior to any fill placement
- 2 dams located on lot 125 and lots 203 to 207 were cleaned out and the subgrade was inspected before backfilling

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 have been conducted within the house allotment but may have been verified by testing conducted within up to a 2500m² area of the house lot.

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

The final 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

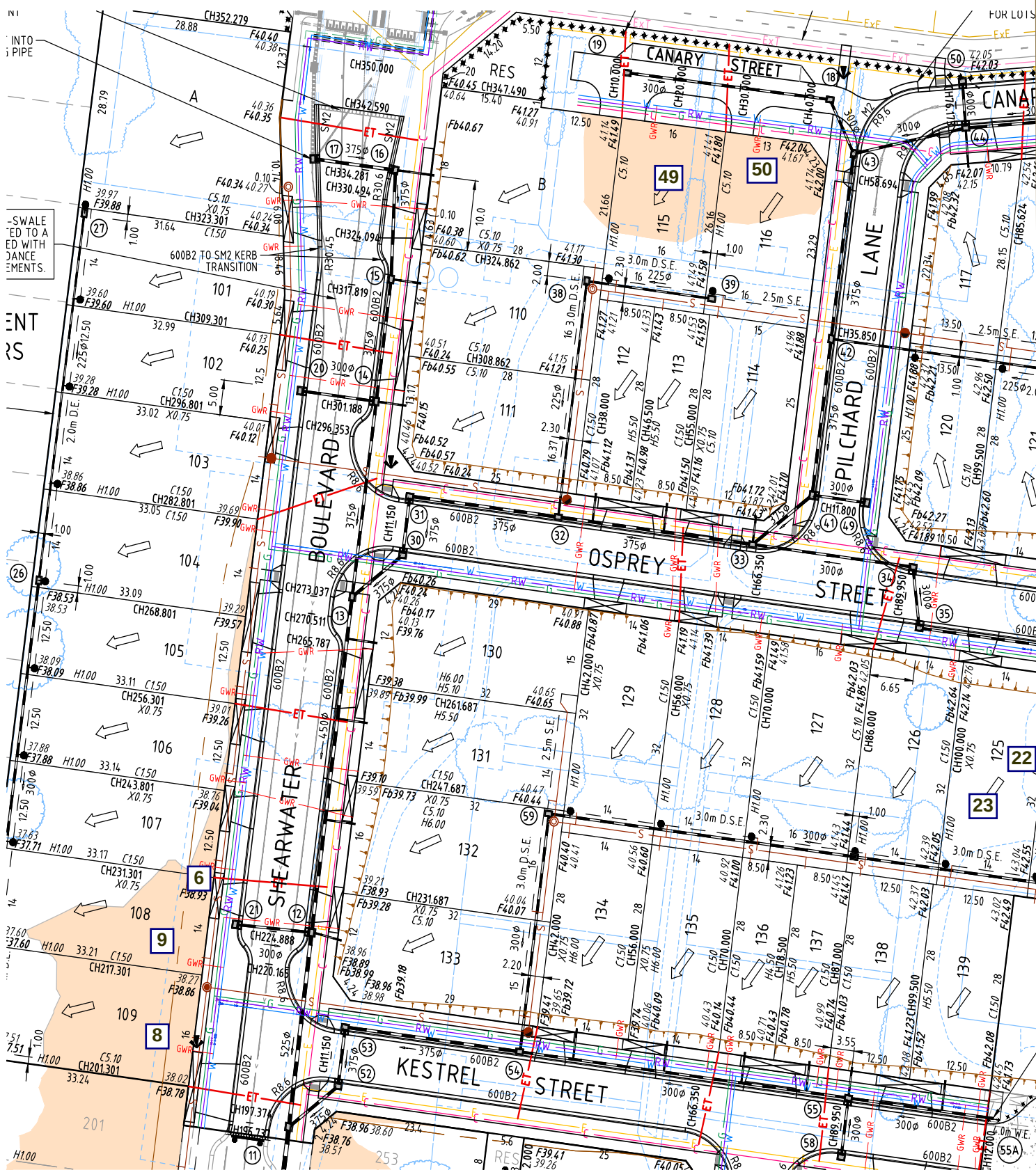
Compaction Verification testing is summarized in a detailed test register with test certificates attached provided in Appendix 2: *Compaction Test Register and Test Certificates*. A test location plan (P252223D1 and D2, Appendix 1) providing a schematic of test locations across the extent of scope of works for every placed layer of fill is also documented.

A total of 50 density tests (Hilf method in accordance with 1289 5.7.1) were undertaken with 3 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 1 and 2 at Perch Estate. For completed fill areas of greater than 300mm, and for works completed between 12/05/2025 and 30/10/2025, 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 1 and 2 of Perch Estate was observed to be constructed in compliance with the requirements of the Technical Specification.

Appendix 1: Test Location Plan



Appendix 2: Compaction Test Register and Test Certificates



Compaction Test Register

Client: Lojac Civil Pty Ltd
Project: Perch Estate Stage 1 and 2

Project No: P252223
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
12/05/2025	1	Layer 01		101.0%	Pass	Stage 2 Dam	P252223-1
12/05/2025	2	Layer 02		102.0%	Pass	Stage 2 Dam	P252223-1
12/05/2025	3	Layer 02		96.5%	Pass	Stage 2 Dam	P252223-1
13/05/2025	4	Layer 03		100.0%	Pass	Stage 2 Dam	P252223-2
13/05/2025	5	Layer 03		98.5%	Pass	Stage 2 Dam	P252223-2
13/05/2025	6	Layer 01		96.0%	Pass	Lot 108	P252223-2
14/05/2025	7	Layer 4		96.0%	Pass	Stage 2 Dam	P252223-3
14/05/2025	8	Layer 2		101.0%	Pass	Lot 109	P252223-3
14/05/2025	9	Layer 2		99.5%	Pass	Lot 108	P252223-3
16/05/2025	10	Layer 5		95.5%	Pass	Stage 2 Dam	P252223-4
16/05/2025	11	Layer 5		96.0%	Pass	Stage 2 Dam	P252223-4
19/05/2025	15	Layer 6		97.0%	Pass	Stage 2 Dam	P252223-6
19/05/2025	16	Layer 7		93.0%	Fail	Stage 2 Dam	P252223-6
19/05/2025	17	Layer 2		97.0%	Pass	Lot 201	P252223-6
19/05/2025	18	Layer 1		96.5%	Pass	Lot 202	P252223-6
20/05/2025	19	Layer 8		93.0%	Fail	Stage 2 Dam	P252223-7
20/05/2025	20	Layer 8		91.0%	Fail	Stage 2 Dam	P252223-7
20/05/2025	21	Layer 8		96.5%	Pass	Stage 2 Dam	P252223-7
5/06/2025	22	Layer 2		101.0%	Pass	Lot 125 Dam	P252223-8
5/06/2025	23	FSL		105.0%	Pass	Lot 125 Dam	P252223-8
5/06/2025	24	Layer 1		103.0%	Pass	Lot 251	P252223-8
19/06/2025	25	Layer 1		95.0%	Pass	Lot 248	P252223-9
19/06/2025	26	Layer 2		102.0%	Pass	Lot 250	P252223-9
19/06/2025	27	Layer 1		107.5%	Pass	Lot 253	P252223-9
20/06/2025	28	Layer 1		100.5%	Pass	Lot 252	P252223-10
20/06/2025	29	Layer 1		98.0%	Pass	Lot 250	P252223-10
20/06/2025	30	Layer 1		95.5%	Pass	Lot 249	P252223-10
21/07/2025	31	Layer 7	Test #16	107.0%	Pass	Retest # 16	P252223-11
21/07/2025	32	Layer 8	Test #19	99.5%	Pass	Retest #19	P252223-11
21/07/2025	33	Layer 1		100.0%	Pass	Lot 228	P252223-11
22/07/2025	34	Layer 8	Test #20	102.0%	Pass	Retest #20	P252223-12
23/07/2025	35	Layer 1		104.5%	Pass	Lot 246	P252223-13
23/07/2025	36	Layer 1		97.5%	Pass	Lot 251	P252223-13
23/07/2025	37	Layer 1		103.0%	Pass	Lot 242	P252223-13
14/08/2025	38	Layer 01		100.0%	Pass	Lot 208	P252223-14
14/08/2025	39	Layer 01		99.0%	Pass	Lot 209	P252223-14
14/08/2025	40	Layer 01		99.0%	Pass	Lot 210	P252223-14
15/08/2025	41	Layer 1		101.0%	Pass	Lot 245	P252223-15
15/08/2025	42	Layer 1		99.0%	Pass	Lot 247	P252223-15
15/08/2025	43	Layer 3		104.0%	Pass	Lot 229	P252223-15
15/08/2025	44	Layer 2		104.5%	Pass	Lot 207	P252223-15



Compaction Test Register

Client: Lojac Civil Pty Ltd
Project: Perch Estate Stage 1 and 2

Project No: P252223
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
15/08/2025	45	Layer FSL		101.0%	Pass	Lot 211	P252223-15
11/09/2025	46	Layer 01		101.0%	Pass	Lot 216	P252223-16
11/09/2025	47	Layer 01		104.5%	Pass	Lot 226	P252223-16
11/09/2025	48	Layer 01		101.5%	Pass	Lot 222	P252223-16
30/10/2025	49	Final Layer		95.5%	Pass	Lot 115	P252223-17
30/10/2025	50	Final Layer		98.5%	Pass	Lot 116	P252223-17
30/10/2025	51	Final Layer		100.0%	Pass	Lot 218	P252223-17
30/10/2025	52	Final Layer		101.5%	Pass	Lot 227	P252223-17
30/10/2025	53	Final Layer		99.0%	Pass	Lot 224	P252223-17

Material Test Report

Report Number: P252223-1
Issue Number: 1
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 17901
Date Sampled: 12/05/2025
Dates Tested: 12/05/2025 - 16/05/2025
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: 230 Hardys Road Clyde North - Level One
Material: CLAY
Material Source: Onsite



Pakenham Laboratory
 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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	P25-17901A	P25-17901B	P25-17901C
Test Number	1	2	3
Date Tested	12/05/2025	12/05/2025	12/05/2025
Time Tested	11:26	15:43	15:43
Test Request #/Location	Stage 2 Dam	Stage 2 Dam	Stage 2 Dam
Easting	355648	355647	355651
Northing	5780835	5780833	5780851
Layer / Reduced Level	Layer 01	Layer 02	Layer 02
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.97	1.98	1.84
Field Moisture Content %	21.4	27.2	22.9
Field Dry Density (FDD) t/m ³	1.62	1.55	1.50
Peak Converted Wet Density t/m ³	1.95	1.94	1.90
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	21.4	27.2	22.9
Moisture Ratio % (AS1289.5.4.1)	95.5	99.0	92.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	1.0	0.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	102.0	96.5
Compaction Method	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: P252223-2
Issue Number: 1
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 17911
Date Sampled: 13/05/2025
Dates Tested: 13/05/2025 - 16/05/2025
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: 230 Hardys Road Clyde North - Level One
Material: CLAY
Material Source: Onsite



Pakenham Laboratory
 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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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	P25-17911A	P25-17911B	P25-17911C
Test Number	4	5	6
Date Tested	13/05/2025	13/05/2025	13/05/2025
Time Tested	**	**	**
Test Request #/Location	Stage 2 Dam	Stage 2 Dam	LOT 108
Layer / Reduced Level	Layer 03	Layer 03	Layer 01
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.84	1.83	1.89
Field Moisture Content %	-14.1	24.1	8.6
Field Dry Density (FDD) t/m ³	2.14	1.48	1.74
Peak Converted Wet Density t/m ³	1.84	1.87	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	-14.1	24.1	8.6
Moisture Ratio % (AS1289.5.4.1)	130.5	88.0	66.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	4.5	3.0	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.0	98.5	96.0
Compaction Method	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: P252223-3
Issue Number: 1
Date Issued: 26/05/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 17929
Date Sampled: 14/05/2025
Dates Tested: 14/05/2025 - 16/05/2025
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: 230 Hardy's Rd, Clyde North
Material: CLAY
Material Source: Onsite



Pakenham Laboratory
47 National Avenue Pakenham VIC 3810
Phone: (03) 9769 5799
Email: ccaulfield@terrafirmalabs.com.au



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			
Sample Number	P25-17929A	P25-17929B	P25-17929C
Test Number	7	8	9
Date Tested	14/05/2025	14/05/2025	14/05/2025
Time Tested	**	**	**
Test Request #/Location	Dam	Lot 109	Lot 108
Easting	355650	355659.4	355666.2
Northing	5780844	5780915.3	5780926.9
Layer / Reduced Level	Layer 4	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.80	1.87	1.83
Field Moisture Content %	**	22.9	23.1
Field Dry Density (FDD) t/m ³	**	1.52	1.49
Peak Converted Wet Density t/m ³	1.88	1.85	1.84
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	3.0	4.0	3.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	101.0	99.5
Compaction Method	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: P252223-4
Issue Number: 1
Date Issued: 26/05/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 17942
Date Sampled: 15/05/2025
Dates Tested: 15/05/2025 - 17/05/2025
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: 230 Hardy's Rd, Clyde North
Material: Sandy silty CLAY



Pakenham Laboratory
47 National Avenue Pakenham VIC 3810
Phone: (03) 9769 5799
Email: ccaulfield@terrafirmalabs.com.au



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A handwritten signature in black ink, appearing to read 'Chris Caulfield'.

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	P25-17942A	P25-17942B	
Test Number	10	11	
Date Tested	16/05/2025	16/05/2025	
Time Tested	**	**	
Test Request #/Location	Dam	Dam	
Easting	355649.7	355625.3	
Northing	5780854.9	5781053.6	
Layer / Reduced Level	Layer 5	Layer 5	
Thickness of Layer (mm)	300	300	
Soil Description	Sandy silty CLAY	Sandy silty CLAY	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	1.78	1.79	
Field Moisture Content %	27.2	27.0	
Field Dry Density (FDD) t/m ³	1.40	1.41	
Peak Converted Wet Density t/m ³	1.86	1.87	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	2.5	2.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	95.5	96.0	
Compaction Method	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: P252223-6
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason:
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 17970
Date Sampled: 19/05/2025
Dates Tested: 19/05/2025 - 22/05/2025
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: 230 Hardy's Rd, Clyde North
Material: Sandy silty CLAY
Material Source: Onsite



Pakenham Laboratory
47 National Avenue Pakenham VIC 3810
Phone: (03) 9769 5799
Email: ccaulfield@terrafirmalabs.com.au



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	P25-17970A	P25-17970B	P25-17970C	P25-17970D
Test Number	15	16	17	18
Date Tested	19/05/2025	19/05/2025	19/05/2025	19/05/2025
Time Tested	**	**	**	**
Test Request #/Location	Dam	Dam	Lot 201	Lot 202
Layer / Reduced Level	Layer 6	Layer 7	Layer 2	Layer 1
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
Field Wet Density (FWD) t/m ³	1.78	1.76	1.84	1.80
Field Moisture Content %	22.2	21.4	24.4	24.7
Field Dry Density (FDD) t/m ³	1.46	1.45	1.48	1.45
Peak Converted Wet Density t/m ³	1.83	1.90	1.89	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	3.0	2.0	0.5	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	97.0	93.0	97.0	96.5
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: P252223-7
Issue Number: 1
Date Issued: 26/05/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 17981
Date Sampled: 20/05/2025
Dates Tested: 20/05/2025 - 22/05/2025
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: 230 Hardy's Rd, Clyde North
Material: Sandy silty CLAY
Material Source: Onsite



Pakenham Laboratory
47 National Avenue Pakenham VIC 3810
Phone: (03) 9769 5799
Email: ccaulfield@terrafirmalabs.com.au



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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	P25-17981A	P25-17981B	P25-17981C
Test Number	19	20	21
Date Tested	20/05/2025	20/05/2025	20/05/2025
Time Tested	**	**	**
Test Request #/Location	Dam	Dam	Dam
Easting	355636.5	355615.4	355641.5
Northing	5780827.6	5780861.2	5780849.2
Layer / Reduced Level	Layer 8	Layer 8	Layer 8
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
Field Wet Density (FWD) t/m ³	1.82	1.78	1.86
Field Moisture Content %	14.9	15.7	16.1
Field Dry Density (FDD) t/m ³	1.59	1.54	1.60
Peak Converted Wet Density t/m ³	1.96	1.96	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	3.0	3.0	4.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	93.0	91.0	96.5
Compaction Method	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: P252223-8
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason:
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18133
Date Sampled: 05/06/2025
Dates Tested: 05/06/2025 - 06/06/2025
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: 230 Hardy's Rd, Clyde North
Material: CLAY
Material Source: Onsite



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 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
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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	P25-18133A	P25-18133B	P25-18133C
Test Number	22	23	24
Date Tested	05/06/2025	05/06/2025	05/06/2025
Time Tested	**	**	**
Test Request #/Location	Lot 125 Dam backfill	Lot 125 Dam backfill	Lot 251
Layer / Reduced Level	Layer 2	FSL	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)	**	**	**
Field Wet Density (FWD) t/m ³	1.92	1.93	1.98
Field Moisture Content %	22.6	24.6	27.2
Field Dry Density (FDD) t/m ³	1.57	1.55	1.55
Peak Converted Wet Density t/m ³	1.91	1.84	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	22.6	24.6	27.2
Moisture Ratio % (AS1289.5.4.1)	88.5	87.0	89.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	3.0	3.5	3.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	105.0	103.0
Compaction Method	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: P252223-9
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason:
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18228
Date Sampled: 19/06/2025
Dates Tested: 19/06/2025 - 20/06/2025
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: 230 Hardys Road Clyde North - Level One
Material: CLAY
Material Source: Onsite



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 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
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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	P25-18228A	P25-18228B	P25-18228C
Test Number	25	26	27
Date Tested	19/06/2025	19/06/2025	19/06/2025
Time Tested	**	**	**
Test Request #/Location	Lot 248	Lot 250	Lot 253
Layer / Reduced Level	Layer 1	Layer 2	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)	**	**	**
Field Wet Density (FWD) t/m ³	2.00	2.03	2.15
Field Moisture Content %	12.6	20.0	23.9
Field Dry Density (FDD) t/m ³	1.78	1.69	1.73
Peak Converted Wet Density t/m ³	2.11	1.99	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	12.6	20.0	23.9
Moisture Ratio % (AS1289.5.4.1)	88.0	91.0	102.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	1.5	2.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.0	102.0	107.5
Compaction Method	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: P252223-10
Issue Number: 1
Date Issued: 27/07/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18243
Date Sampled: 20/06/2025
Dates Tested: 20/06/2025 - 23/06/2025
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: 230 Hardys Road, Clyde - Level one
Material: CLAY
Material Source: Onsite



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 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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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	P25-18243A	P25-18243B	P25-18243C
Test Number	28	29	30
Date Tested	20/06/2025	20/06/2025	20/06/2025
Time Tested	**	**	**
Test Request #/Location	Lot 252	Lot 250	Lot 249
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)	**	**	**
Field Wet Density (FWD) t/m ³	1.99	1.90	1.87
Field Moisture Content %	18.1	17.5	15.7
Field Dry Density (FDD) t/m ³	1.69	1.61	1.62
Peak Converted Wet Density t/m ³	1.98	1.94	1.96
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	18.1	17.5	15.7
Moisture Ratio % (AS1289.5.4.1)	93.5	96.0	88.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	1.5	0.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	98.0	95.5
Compaction Method	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: P252223-11
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason:
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18413
Date Sampled: 21/07/2025
Dates Tested: 21/07/2025 - 22/07/2025
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: 230 Hardy's Road - Level one
Material: CLAY
Material Source: Onsite



Pakenham Laboratory
 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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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	P25-18413A	P25-18413B	P25-18413C
Test Number	31	32	33
Date Tested	21/07/2025	21/07/2025	21/07/2025
Time Tested	10:23	13:43	15:12
Test Request #/Location	Retest # 16	Retest #19	Lot 228
Layer / Reduced Level	Layer 7	Layer 8	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)	**	**	**
Field Wet Density (FWD) t/m ³	2.01	2.02	2.01
Field Moisture Content %	26.8	19.0	21.1
Field Dry Density (FDD) t/m ³	1.58	1.70	1.66
Peak Converted Wet Density t/m ³	1.88	2.03	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	26.8	19.0	21.1
Moisture Ratio % (AS1289.5.4.1)	93.0	98.5	102.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	2.0	0.5	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	107.0	99.5	100.0
Compaction Method	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: P252223-12
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason:
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18417
Date Sampled: 15/07/2025
Dates Tested: 22/07/2025 - 22/07/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: 230 Hardy's Road - Level One
Material: CLAY
Material Source: Onsite



Pakenham Laboratory
47 National Avenue Pakenham VIC 3810
Phone: (03) 9769 5799
Email: ccaulfield@terrafirmalabs.com.au



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A handwritten signature in black ink, appearing to read 'Chris Caulfield'.

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	P25-18417A		
Test Number	34		
Date Tested	22/07/2025		
Time Tested	11:09		
Test Request #/Location	Retest #20		
Layer / Reduced Level	Layer 8		
Thickness of Layer (mm)	300		
Soil Description	CLAY		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**		
Field Wet Density (FWD) t/m ³	2.12		
Field Moisture Content %	17.9		
Field Dry Density (FDD) t/m ³	1.79		
Peak Converted Wet Density t/m ³	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)	17.9		
Moisture Ratio % (AS1289.5.4.1)	100.0		
Adjusted Moisture Ratio % (AS1289.5.4.1)	**		
Moisture Variation (Wv) %	0.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	102.0		
Compaction Method	Standard		
Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P252223-13
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason:
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18419
Date Sampled: 23/07/2025
Dates Tested: 23/07/2025 - 24/07/2025
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: 230 Hardy's Road - Level One
Material: CLAY
Material Source: Onsite



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 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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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	P25-18419A	P25-18419B	P25-18419C
Test Number	35	36	37
Date Tested	23/07/2025	23/07/2025	23/07/2025
Time Tested	15:46	15:46	15:46
Test Request #/Location	Lot 246	Lot 251	Lot 242
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)	**	**	**
Field Wet Density (FWD) t/m ³	2.11	2.06	2.13
Field Moisture Content %	21.9	15.4	**
Field Dry Density (FDD) t/m ³	1.73	1.79	**
Peak Converted Wet Density t/m ³	2.02	2.11	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	21.9	15.4	**
Moisture Ratio % (AS1289.5.4.1)	104.5	101.0	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	-1.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	104.5	97.5	103.0
Compaction Method	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: P252223-14
Issue Number: 1
Date Issued: 21/08/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18563
Date Sampled: 14/08/2025
Dates Tested: 14/08/2025 - 18/08/2025
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: 230 Hardy's Road - Level One
Material: CLAY
Material Source: Onsite



Pakenham Laboratory
 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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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	P25-18563A	P25-18563B	P25-18563C
Test Number	38	39	40
Date Tested	14/08/2025	14/08/2025	14/08/2025
Time Tested	**	**	**
Test Request #/Location	Lot 208	Lot 209	Lot 210
Layer / Reduced Level	Layer 01	Layer 01	Layer 01
Thickness of Layer (mm)	300	300	300
Soil Description	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	2.10	2.06	2.05
Field Moisture Content %	15.5	19.2	16.7
Field Dry Density (FDD) t/m ³	1.82	1.73	1.75
Peak Converted Wet Density t/m ³	2.10	2.08	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	15.5	19.2	16.7
Moisture Ratio % (AS1289.5.4.1)	100.5	99.5	100.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.0	99.0	99.0
Compaction Method	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: P252223-15
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason:
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18574
Date Sampled: 15/08/2025
Dates Tested: 15/08/2025 - 18/08/2025
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: 230 Hardy's Road - Level One
Material: Clayey GRAVEL
Material Source: Onsite



Pakenham Laboratory
 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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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	P25-18574A	P25-18574B	P25-18574C	P25-18574D	P25-18574E
Test Number	41	42	43	44	45
Date Tested	15/08/2025	15/08/2025	15/08/2025	15/08/2025	15/08/2025
Time Tested	**	**	**	**	**
Test Request #/Location	LOT 245	LOT 247	LOT 229	LOT 207	LOT 211
Layer / Reduced Level	Layer 1	Layer 1	Layer 3	Layer 2	Layer FSL
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL	Clayey GRAVEL
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	0	0	**
Field Wet Density (FWD) t/m ³	2.04	2.05	2.12	2.10	2.14
Field Moisture Content %	14.4	19.0	13.9	19.1	18.7
Field Dry Density (FDD) t/m ³	1.79	1.72	1.86	1.76	1.80
Peak Converted Wet Density t/m ³	2.03	2.07	2.04	2.00	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	13.5	18.6	**
Adj. Field Moisture Content % (AS1289.5.4.1)	14.4	19.0	13.9	19.1	18.7
Moisture Ratio % (AS1289.5.4.1)	88.0	88.5	103.5	102.5	88.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.5	-0.5	-0.5	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.0	99.0	104.0	104.5	101.0
Compaction Method	Standard	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: P252223-16
Issue Number: 1
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 18875
Date Sampled: 11/09/2025
Dates Tested: 11/09/2025 - 24/09/2025
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: Hardy's Road Clyde - Leve One
Material: CLAY
Material Source: Onsite



Pakenham Laboratory
 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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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	P25-18875A	P25-18875B	P25-18875C
Test Number	46	47	48
Date Tested	11/09/2025	11/09/2025	11/09/2025
Time Tested	**	**	**
Test Request #/Location	Lot 216	Lot 226	Lot 222
Layer / Reduced Level	Layer 01	Layer 01	Layer 01
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	2.08	2.18	2.09
Field Moisture Content %	14.7	16.7	18.6
Field Dry Density (FDD) t/m ³	1.81	1.86	1.77
Peak Converted Wet Density t/m ³	2.05	2.08	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	14.7	16.7	18.6
Moisture Ratio % (AS1289.5.4.1)	97.5	98.5	98.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.5	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	104.5	101.5
Compaction Method	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: P252223-17
Issue Number: 1
Date Issued: 17/11/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: P252223
Project Name: 230 Hardys Road
Project Location: Clyde North
Work Request: 19423
Date Sampled: 30/10/2025
Dates Tested: 30/10/2025 - 03/11/2025
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: Hardy's Road
Material: Silty Clay
Material Source: Onsite - Stockpile



Pakenham Laboratory
 47 National Avenue Pakenham VIC 3810
 Phone: (03) 9769 5799
 Email: ccaulfield@terrafirmalabs.com.au



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	P25-19423A	P25-19423B	P25-19423C	P25-19423D	P25-19423E
Test Number	49	50	51	52	53
Date Tested	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
Time Tested	09:51	11:59	14:26	14:31	14:37
Test Request #/Location	Lot 115	Lot 116	Lot 218	Lot 227	Lot 224
Layer / Reduced Level	Final Layer	Final Layer	Final Layer	Final Layer	Final Layer
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	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)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.94	2.01	2.14	2.09	2.02
Field Moisture Content %	10.8	17.1	16.3	16.1	21.8
Field Dry Density (FDD) t/m ³	1.75	1.72	1.84	1.80	1.65
Peak Converted Wet Density t/m ³	2.03	2.05	2.14	2.05	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	10.8	17.1	16.3	16.1	21.8
Moisture Ratio % (AS1289.5.4.1)	80.5	99.5	116.0	95.5	109.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	2.5	0.0	-2.5	1.0	-2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	95.5	98.5	100.0	101.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 104

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 104 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 105

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 105 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 106

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 106 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 107

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 107 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 108

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 108 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 109

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 109 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 115

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 115 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 116

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 116 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 125

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 125 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 201

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 201 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 202

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 202 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 203

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 203 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 204

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 204 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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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A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 205

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 205 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 206

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 206 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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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- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 207

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 207 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 208

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 208 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 209

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 209 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 210

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 210 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 211

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 211 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 212

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 212 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 215

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 215 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 216

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 216 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 217

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 217 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 218

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 218 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 219

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 219 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 220

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 220 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 221

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 221 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 222

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 222 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 223

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 223 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 224

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 224 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 225

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 225 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 226

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 226 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 227

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 227 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 228

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 228 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 229

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 229 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 230

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 230 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 231

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 231 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 232

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 232 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 241

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 241 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 242

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 242 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 243

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 243 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 244

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 244 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 245

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 245 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 246

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 246 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 247

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 247 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 248

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 248 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 249

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 249 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 250

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 250 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 251

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 251 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 252

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 252 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



C Caulfield
Laboratory Manager

17 Nov 2025

TO WHOM IT MAY CONCERN

Re: Perch Estate Stage 1 and 2
Clyde North
Lot 253

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 Perch Estate, Stage 1 and 2, Clyde North in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot 253 as defined in drawing Ref 22902E/1 from *Reeds Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: P252223A) has been published on 17 Nov 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