250 Wedge Road Stage 3

GITA Inspection Verification Report

Prepared For:	Streetworks Pty Ltd
Report Number	P241911A V1
Version Release Date	3 Jul 2024
Report Released By	C Caulfield
Title	Laboratory Manager
Signature	

Table of Contents

Appendices

1 Introduction

Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical Inspection and Testing Authority (GITA) to provide Level 1 supervision and testing works on the earthworks component for 250 Wedge Road Stage 3. This work was conducted over the period of 25/06/2024 to 26/06/2024.

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

2 Scope of Work

2.1 Area of Work

The areas of work included lots 304 to 308, 313 to 316 and 318, bounded by streets Tashinny Road, Heymount Way and Seaberry Promenade. 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 Spiire (Drawing Reference: 320977-03BCR200 1) and provided by Streetworks Pty Ltd.

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

2.2 Specification

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

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

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

In accordance with Table 8.1 (AS3798), for large scale operations, (greater than 1500m^2), the minimum testing frequency is 1 test per layer per material type per 2500m^2 or 1 test per 500m^3 distributed reasonable evenly throughout full depth and area or 3 tests per lot. AS3798 defines a lot as "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work". All three of these test frequencies must be achieved and this is typically confirmed to have been achieved when 3 tests per visit (day) have been completed.

2.3 Limitations

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

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

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

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

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

3 Construction Method

3.1 Subgrade Preparation

At the time of subgrade inspection the following was observed:

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

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

3.2 Fill Placement

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

All fill was placed in layers of thicknesses not exceeding 300mm. At the completion of a placed layer, compaction testing was performed to confirm appropriate compaction had been achieved and supported the observations made. It should be noted that the compaction tests are representative samples of the fill placed and support the visual assessment of the works completed. Each house lot does not necessarily require a compaction test to to have been conducted within the house allotment but may have been verified by testing conducted within up to a 2500m^2 area of the house lot.

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

The final 150mm 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 150mm 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 (P241911D1, 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 8 density tests (Hilf method in accordance with 1289 5.7.1) were undertaken with 0 failed results. 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.

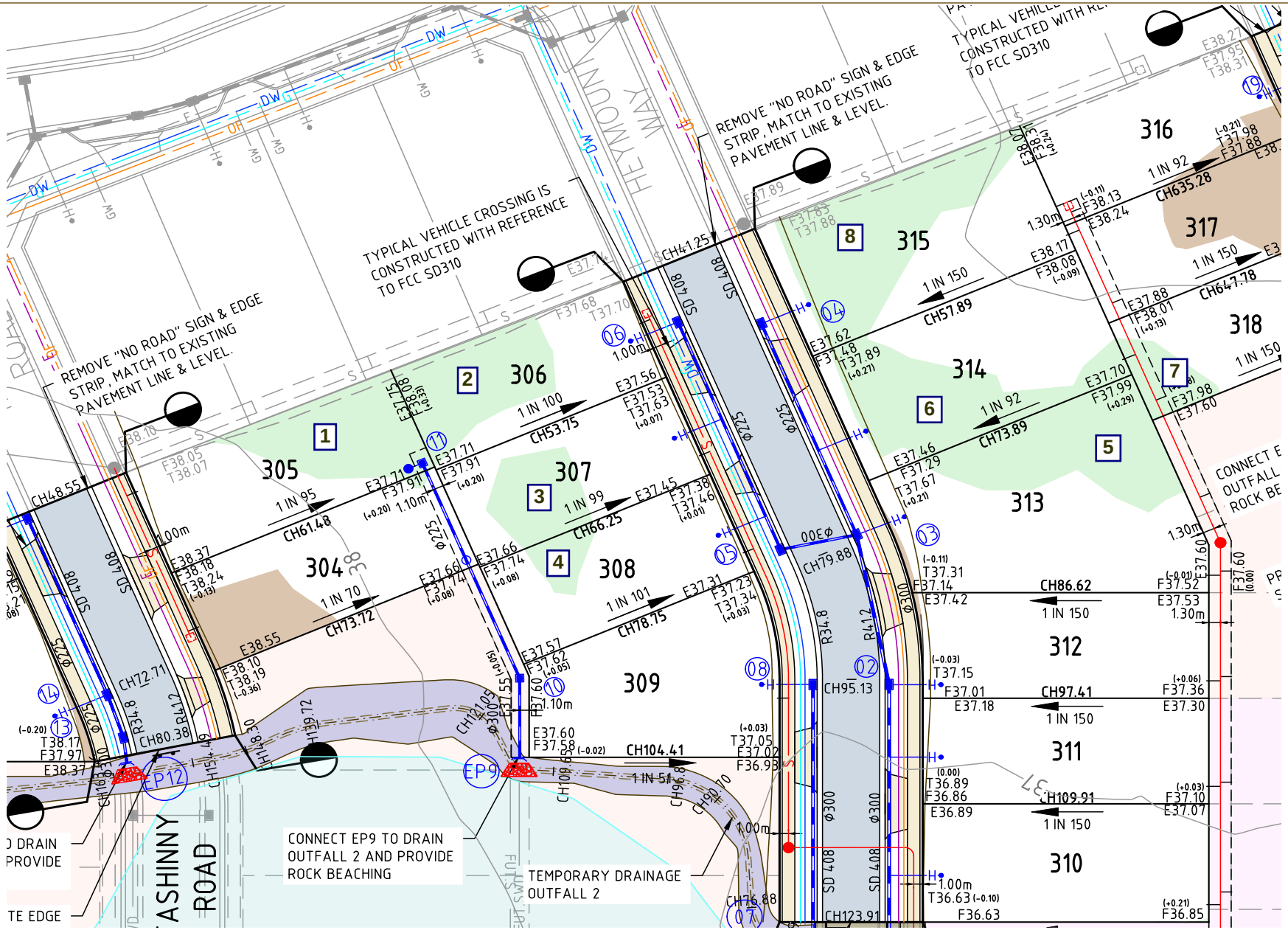
5 Statement of Compliance

The intention of this report is to provide a description of the earthworks construction for Stage 3 at 250 Wedge Road. For completed fill areas of greater than 300mm, and for works completed between 25/06/2024 and 26/06/2024, earthworks construction activities were conducted under the full time supervision of the Geotechnical Inspection and Testing Authority. Inspections and testing of the fill areas at this site indicate that both sub grade preparation and fill placement have been conducted in accordance with the specification. The earthworks construction for Stage 3 of 250 Wedge Road was observed to be constructed in compliance with the requirements of the Technical Specification.

Appendix 1: Test Location Plan

Our Head Office
47 National Ave
Pakenham, VIC 3810

Our Laboratories
Pakenham 03 9769 5799
Deer Park 03 8348 5596
Bibra Lake 08 9395 7220



terra firma laboratories

Our Head Office
47 National Ave
Pakenham, VIC 3810

Our Laboratories
Pakenham 03 9769 5799
Deer Park 03 8348 5596
Bibra Lake 08 9395 7220

Test Location Plan

not to scale

Client: Streetworks Pty Ltd

Project: 250 Wedge Road, Stage 3

Reference: P241911 D1

Appendix 2: Compaction Test Register and Test Certificates

Compaction Test Register

Client: Streetworks Pty Ltd
Project No: P241911
Project: 250 Wedge Road Stage 3
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
25/06/2024	1	FSL		97.5%	Pass	Lot 305	P241911-1
25/06/2024	2	FSL		102.5%	Pass	Lot 306	P241911-1
25/06/2024	3	FSL		102.0%	Pass	Lot 307	P241911-1
25/06/2024	4	FSL		99.5%	Pass	Lot 308	P241911-1
26/06/2024	5	FSL		96.5%	Pass	Lot 313	P241911-2
26/06/2024	6	FSL		100.5%	Pass	Lot 314	P241911-2
26/06/2024	7	FSL		99.0%	Pass	Lot 318	P241911-2
26/06/2024	8	FSL		99.5%	Pass	Lot 315	P241911-2

Material Test Report

Report Number: **P241911-1**
Issue Number: 1
Date Issued: 01/07/2024
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P241911
Project Name: 250 Wedge Road Stage 3
Project Location: Skye
Work Request: 15417
Date Sampled: 25/06/2024
Dates Tested: 25/06/2024 - 26/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95%
Site Selection: Selected by Client
Location: 250 Wedge Road Stage 3
Material: SAND
Material Source: Onsite

terra firma laboratories

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

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing

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

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	P24-15417A	P24-15417B	P24-15417C	P24-15417D
Test Number	1	2	3	4
Date Tested	25/06/2024	25/06/2024	25/06/2024	25/06/2024
Time Tested	**	**	**	**
Test Request #/Location	Lot 305	Lot 306	Lot 307	Lot 308
Layer / Reduced Level	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300
Soil Description	SAND	SAND	SAND	SAND
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**
Field Wet Density (FWD) t/m^3	1.84	1.90	1.90	1.87
Field Moisture Content %	3.6	3.4	3.8	3.9
Field Dry Density (FDD) t/m^3	1.77	1.84	1.83	1.80
Peak Converted Wet Density t/m^3	1.88	1.86	1.86	1.88
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	3.6	3.4	3.8	3.9
Moisture Ratio % (AS1289.5.4.1)	41.5	42.5	45.0	46.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	5.5	5.0	5.0	5.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**97.5**	**102.5**	**102.0**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**

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

Material Test Report

Report Number: **P241911-2**
Issue Number: 1
Date Issued: 03/07/2024
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P241911
Project Name: 250 Wedge Road Stage 3
Project Location: Skye
Work Request: 15431
Date Sampled: 26/06/2024
Dates Tested: 26/06/2024 - 02/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95%
Site Selection: Selected by Client
Location: 250 Wedge Road Stage 3
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	P24-15431A	P24-15431B	P24-15431C	P24-15431D
Test Number	5	6	7	8
Date Tested	26/06/2024	26/06/2024	26/06/2024	26/06/2024
Time Tested	**	**	**	**
Test Request #/Location	Lot 313	Lot 314	Lot 318	Lot 315
Layer / Reduced Level	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300
Soil Description	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**
Field Wet Density (FWD) t/m^3	1.88	1.90	1.94	1.96
Field Moisture Content %	6.5	4.5	4.6	7.8
Field Dry Density (FDD) t/m^3	1.77	1.81	1.86	1.81
Peak Converted Wet Density t/m^3	1.95	1.88	1.97	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)	6.5	4.5	4.6	7.8
Moisture Ratio % (AS1289.5.4.1)	61.5	51.5	53.0	73.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	4.5	4.5	4.5	3.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**96.5**	**100.5**	**99.0**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**

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

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 304

Terra Firma Laboratories was engaged by *Streetworks Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3, Skye in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 304 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* 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 150mm below finished surface level. The final 150mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241911A) has been published on 3 Jul 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 305

Terra Firma Laboratories was engaged by *Streetworks Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3, Skye in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 305 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* provided by the contractor, was included in the scope of works.

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- Controlled fill was placed up to 150mm below finished surface level. The final 150mm material is considered top soil and organic matter and not controlled fill.
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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 306

Terra Firma Laboratories was engaged by *Streetworks Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3, Skye in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 306 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 307

Terra Firma Laboratories was engaged by *Streetworks Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3, Skye in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 307 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* 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 150mm below finished surface level. The final 150mm material is considered top soil and organic matter and not controlled fill.
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- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 308

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Lot 308 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* provided by the contractor, was included in the scope of works.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 313

Terra Firma Laboratories was engaged by *Streetworks Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3, Skye in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 313 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 314

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Lot 314 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* provided by the contractor, was included in the scope of works.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 315

Terra Firma Laboratories was engaged by *Streetworks Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3, Skye in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 315 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* provided by the contractor, was included in the scope of works.

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- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m^2 in area and across several house lots.

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For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

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3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 316

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Lot 316 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* provided by the contractor, was included in the scope of works.

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- Controlled fill was placed up to 150mm below finished surface level. The final 150mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m^2 in area and across several house lots.

A GITA Inspection Verification report (Reference: P241911A) has been published on 3 Jul 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of
Terra Firma Laboratories

C Caulfield
Laboratory Manager

terra firma laboratories

Your Worksite is Our Laboratory.

3 Jul 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3
Skye
Lot 318

Terra Firma Laboratories was engaged by *Streetworks Pty Ltd* as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3, Skye in accordance with Australian Standard AS3798 *Guidelines for Earthworks for Commercial and Residential Development.*

Lot 318 as defined in drawing Ref 320977-03BCR200 1 from *Spiire,* 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 150mm below finished surface level. The final 150mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m^2 in area and across several house lots.

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C Caulfield
Laboratory Manager