250 Wedge Road Stage 7

GITA Inspection Verification Report

Prepared For:	Streetworks Pty Ltd
Report Number	P262519A V1
Version Release Date	19 Oct 2026
Report Released By	C Caulfield
Title	Project Manager
Signature	

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

Table of Contents

1 Introduction 3
2 Scope of Work 3
2.1 Area of Work 3
2.2 Specification 3
2.3 Limitations 4
3 Construction Method 5
3.1 Subgrade Preparation 5
3.2 Fill Placement 5
4 Construction Verification 6
5 Statement of Compliance 6

Appendices

Appendix 1 Test Location Plan
Appendix 2 Compaction Test Register and Test Certificates

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 7. This work was conducted over the period of 01/06/2026 to 10/10/2026.

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 701 to 708, 711 to 713, 718 and 724 to 726, bounded by streets John Monash Drive, Tashinny Road, Greycliffe Avenue and Heymount Way. The site will be a Residential development.

The area on which fill was placed is shown on site plan (Appendix 1: *Test Location Plan*) based on drawings prepared by Spiire (Drawing Reference: 320977-007CR200) 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.

This document is COPYRIGHT, all rights reserved to Terra Firma Laboratories and therefore no part of this document may be reproduced or copied in any form or by means without the written permission of Terra Firma Laboratories. This submission is for the use only of the party to whom it is addressed and for no other purpose. No responsibility is accepted to any third party who may use or rely on the whole or any part of the content of this submission. No responsibility will be taken for this report if it is altered in any way, or not reproduced in full.

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 old drain running through lots 711 to 713 and 718 was cleaned out until a suitable subgrade was reached

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

3.2 Fill Placement

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

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

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

The final 200mm of fill 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 fill 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 (P262519D1, 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 25 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.

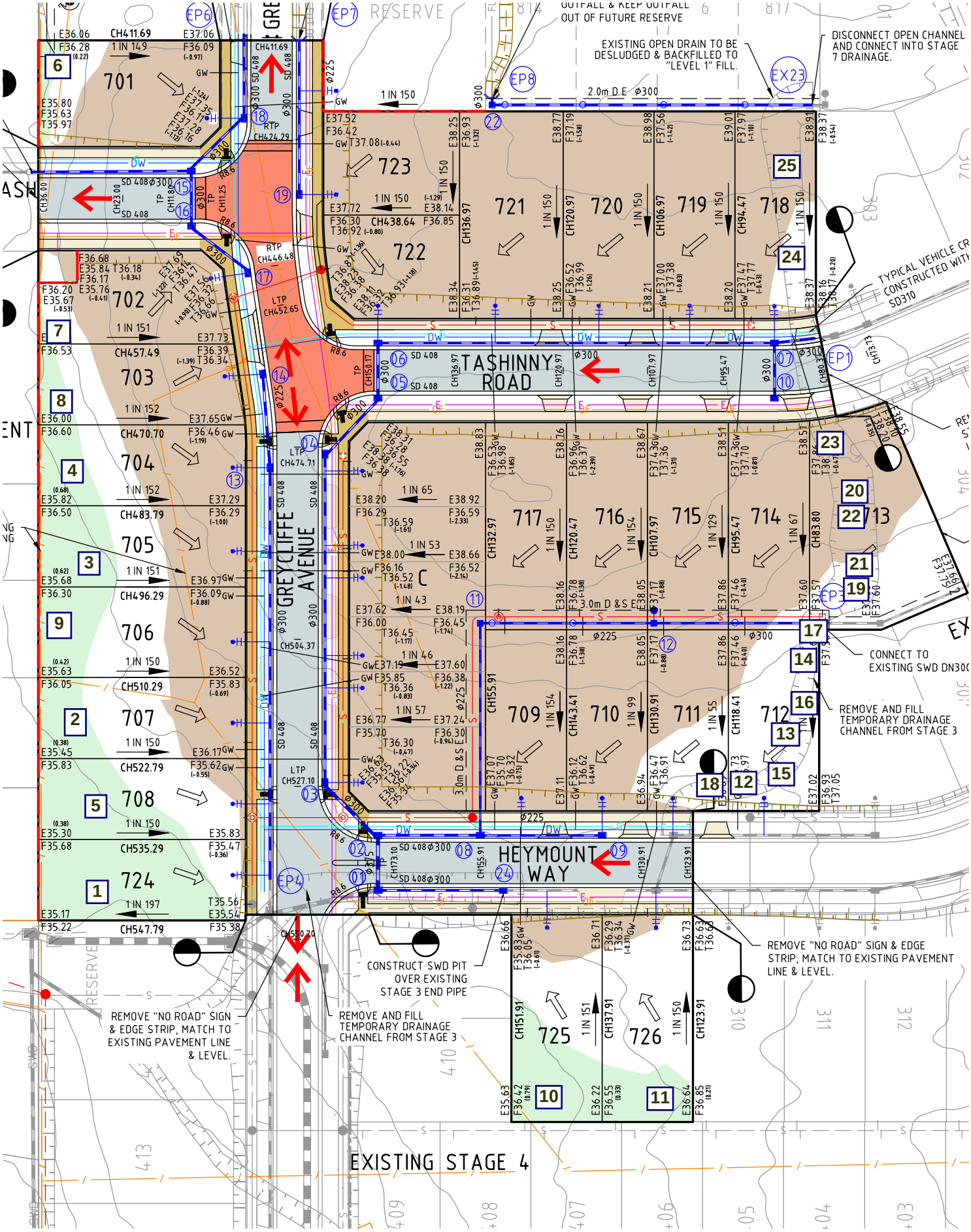
5 Statement of Compliance

The intention of this report is to provide a description of the earthworks construction for Stage 7 at 250 Wedge Road. For completed fill areas of greater than 300mm, and for works completed between 01/06/2026 and 10/10/2026, 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 7 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: Wedge Road Stage 7

Reference: P262519 D1

Appendix 2: Compaction Test Register and Test Certificates

Compaction Test Register

Client: Streetworks Pty Ltd
Project No: P262519
Project: 250 Wedge Road Stage 7
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
1/06/2026	1	1st layer		99.0%	Pass	Lot 724	1/06/2026
1/06/2026	2	1st layer		96.5%	Pass	Lot 707	1/06/2026
1/06/2026	3	1st layer		98.0%	Pass	Lot 705	1/06/2026
1/06/2026	4	1st layer		100.5%	Pass	Lot 704	1/06/2026
2/06/2026	5	FSL		104.0%	Pass	Lot 708	2/06/2026
2/06/2026	6	FSL		102.0%	Pass	Lot 701	2/06/2026
2/06/2026	7	FSL		104.5%	Pass	Lot 702	2/06/2026
2/06/2026	8	FSL		98.5%	Pass	Lot 703	2/06/2026
2/06/2026	9	FSL		101.5%	Pass	Lot 706	2/06/2026
2/06/2026	10	Layer 1		102.5%	Pass	Lot 726	2/06/2026
2/06/2026	11	FSL		100.0%	Pass	Lot 725	2/06/2026
6/10/2026	12	Layer 1		98.5%	Pass	Drain	6/10/2026
6/10/2026	13	Layer 1		96.0%	Pass	Drain	6/10/2026
6/10/2026	14	Layer 1		103.0%	Pass	Drain	6/10/2026
7/10/2026	15	Layer 2		100.5%	Pass	Drain	7/10/2026
7/10/2026	16	Layer 2		99.5%	Pass	Drain	7/10/2026
7/10/2026	17	Layer 3		102.0%	Pass	Drain	7/10/2026
8/10/2026	18	Layer 4		96.0%	Pass	Drain	8/10/2026
8/10/2026	19	Layer 1		98.0%	Pass	Drain	8/10/2026
8/10/2026	20	Layer 2		99.5%	Pass	Drain	8/10/2026
9/10/2026	21	Layer 3		99.0%	Pass	Drain	9/10/2026
9/10/2026	22	Layer 5		96.0%	Pass	Drain	9/10/2026
9/10/2026	23	Layer 6		95.5%	Pass	Drain	9/10/2026
10/10/2026	24	Layer 1		97.0%	Pass	Drain	10/10/2026
10/10/2026	25	Layer 3		97.5%	Pass	Drain	10/10/2026

Material Test Report

Report Number: **P262519-1**
Issue Number: 1
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 21356
Date Sampled: 01/06/2026
Dates Tested: 01/06/2026 - 02/06/2026
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: Wedge road stage 7- Level one
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
Level one manager
Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)				
Sample Number	P26-21356A	P26-21356B	P26-21356C	P26-21356D
Test Number	1	2	3	4
Date Tested	01/06/2026	01/06/2026	01/06/2026	01/06/2026
Time Tested	**	**	**	**
Test Request #/Location	Lot 724	Lot 707	Lot 705	Lot 704
Layer / Reduced Level	1st layer	1st layer	1st layer	1st layer
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)	2.07	2.07	2.10	2.14
Field Moisture Content (%)	10.4	9.0	11.9	10.1
Field Dry Density (FDD) (t/m^3)	1.88	1.90	1.88	1.94
Peak Converted Wet Density (t/m^3)	2.09	2.14	2.15	2.13
Adjusted Peak Converted Wet Density (t/m^3)	**	**	**	**
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	**	**	**	**
Adj. Field Moisture Content (%) (AS1289.5.4.1)	10.4	9.0	11.9	10.1
Moisture Ratio (%) (AS1289.5.4.1)	81.0	77.0	85.0	85.5
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) (%)	2.5	2.5	2.0	2.0
Adjusted Moisture Variation (%)	**	**	**	**
Hilf Density Ratio (%)	**99.0**	**96.5**	**98.0**	**100.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Remarks	**	**	**	**

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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.

Material Test Report

Report Number: P262519-2
Issue Number: 1
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 21364
Date Sampled: 02/06/2026
Dates Tested: 02/06/2026 - 03/06/2026
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: Wedge road stage 7- Level one
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
Level one manager
Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)				
Sample Number	P26-21364A	P26-21364B	P26-21364C	P26-21364D
Test Number	5	6	7	8
Date Tested	02/06/2026	02/06/2026	02/06/2026	02/06/2026
Time Tested	**	**	**	**
Test Request #/Location	Lot 708	Lot 701	Lot 702	Lot 703
Chainage (m)	**	**	**	**
Location Offset (m)	**	**	**	**
Layer / Reduced Level	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	150	150	150
Soil Description	SAND	SAND	SAND	SAND
Test Depth (mm)	275	125	125	125
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)	2.02	1.87	1.94	1.90
Field Moisture Content (%)	7.6	1.9	5.9	7.5
Field Dry Density (FDD) (t/m^3)	1.88	1.83	1.83	1.77
Peak Converted Wet Density (t/m^3)	1.94	1.83	1.85	1.93
Adjusted Peak Converted Wet Density (t/m^3)	**	**	**	**
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	**	**	**	**
Adj. Field Moisture Content (%) (AS1289.5.4.1)	7.6	1.9	5.9	7.5
Moisture Ratio (%) (AS1289.5.4.1)	77.0	30.5	58.5	67.5
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) (%)	2.5	5.0	4.5	4.0
Adjusted Moisture Variation (%)	**	**	**	**
Hilf Density Ratio (%)	**104.0**	**102.0**	**104.5**	**98.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Remarks	**	**	**	**

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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.

Material Test Report

Report Number: P262519-2
Issue Number: 1
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 21364
Date Sampled: 02/06/2026
Dates Tested: 02/06/2026 - 03/06/2026
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: Wedge road stage 7- Level one
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
Level one manager
Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)				
Sample Number	P26-21364E	P26-21364F	P26-21364G	
Test Number	9	10	11	
Date Tested	02/06/2026	02/06/2026	02/06/2026	
Time Tested	**	**	**	
Test Request #/Location	Lot 706	Lot 726	Lot 725	
Chainage (m)	**	**	**	
Location Offset (m)	**	**	**	
Layer / Reduced Level	FSL	Layer 1	FSL	
Thickness of Layer (mm)	150	150	150	
Soil Description	SAND	SAND	SAND	
Test Depth (mm)	125	125	125	
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	2.04	2.02	
Field Moisture Content (%)	6.3	11.9	12.5	
Field Dry Density (FDD) (t/m^3)	1.81	1.82	1.79	
Peak Converted Wet Density (t/m^3)	1.89	1.99	2.01	
Adjusted Peak Converted Wet Density (t/m^3)	**	**	**	
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	**	**	**	
Adj. Field Moisture Content (%) (AS1289.5.4.1)	6.3	11.9	12.5	
Moisture Ratio (%) (AS1289.5.4.1)	58.0	83.5	88.0	
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	**	**	**	
Moisture Variation (Wv) (%)	5.0	2.5	1.5	
Adjusted Moisture Variation (%)	**	**	**	
Hilf Density Ratio (%)	**101.5**	**102.5**	**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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.

Material Test Report

Report Number: P262519-6
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason:
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 22256
Date Sampled: 06/10/2026
Dates Tested: 06/10/2026 - 08/10/2026
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: Wedge Road Skye Stage 07 - Level One
Material: CLAY
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
Level one manager

Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)			
Sample Number	P26-22256A	P26-22256B	P26-22256C
Test Number	12	13	14
Date Tested	06/10/2026	06/10/2026	06/10/2026
Time Tested	**	**	**
Test Request #/Location	Drain Fill	Drain Fill	Drain Fill
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)	0	0	0
Field Wet Density (FWD) (t/m^3)	2.10	2.05	2.16
Field Moisture Content (%)	16.6	18.3	20.1
Field Dry Density (FDD) (t/m^3)	1.80	1.73	1.80
Peak Converted Wet Density (t/m^3)	2.13	2.13	2.10
Adjusted Peak Converted Wet Density (t/m^3)	**	**	**
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	15.9	16.1	17.5
Adj. Field Moisture Content (%) (AS1289.5.4.1)	16.6	18.3	20.1
Moisture Ratio (%) (AS1289.5.4.1)	104.5	114.0	114.5
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) (%)	-0.5	-2.0	-2.5
Adjusted Moisture Variation (%)	**	**	**
Hilf Density Ratio (%)	**98.5**	**96.0**	**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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.

Material Test Report

Report Number: **P262519-7**
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason:
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 22262
Date Sampled: 07/10/2026
Dates Tested: 07/10/2026 - 08/10/2026
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: Wedge Road Skye - Level One
Material: CLAY
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
Level one manager

Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)			
Sample Number	P26-22262A	P26-22262B	P26-22262C
Test Number	15	16	17
Date Tested	07/10/2026	07/10/2026	07/10/2026
Time Tested	**	**	**
Test Request #/Location	Drain Fill	Drain Fill	Drain Fill
Easting	342493	342481	342491
Northing	5782348	5782332	5782335
Layer / Reduced Level	Layer 2	Layer 2	Layer 3
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) (t/m^3)	2.17	2.13	2.16
Field Moisture Content (%)	19.8	18.5	15.9
Field Dry Density (FDD) (t/m^3)	1.81	1.80	1.86
Peak Converted Wet Density (t/m^3)	2.16	2.14	2.12
Adjusted Peak Converted Wet Density (t/m^3)	**	**	**
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	17.0	16.5	16.0
Adj. Field Moisture Content (%) (AS1289.5.4.1)	19.8	18.5	15.9
Moisture Ratio (%) (AS1289.5.4.1)	116.5	112.0	99.5
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) (%)	-3.0	-2.0	0.0
Adjusted Moisture Variation (%)	**	**	**
Hilf Density Ratio (%)	**100.5**	**99.5**	**102.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.

Material Test Report

Report Number: **P262519-8**
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason:
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 22274
Date Sampled: 08/10/2026
Dates Tested: 08/10/2026 - 09/10/2026
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: Wedge Road Skye - Level One
Material: CLAY
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
Level one manager

Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)			
Sample Number	P26-22274A	P26-22274B	P26-22274C
Test Number	18	19	20
Date Tested	08/10/2026	08/10/2026	08/10/2026
Time Tested	**	**	**
Test Request #/Location	Drainage Fill Lot 712	Drainage Fill Lot 713	Drainage Fill Lot 712
Easting	342493	342500	342505
Northing	5782344	5782360	5782373
Layer / Reduced Level	Layer 04	Layer 01	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)	0	0	0
Field Wet Density (FWD) (t/m^3)	2.02	2.08	2.10
Field Moisture Content (%)	14.8	18.4	17.4
Field Dry Density (FDD) (t/m^3)	1.76	1.76	1.79
Peak Converted Wet Density (t/m^3)	2.11	2.12	2.12
Adjusted Peak Converted Wet Density (t/m^3)	**	**	**
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	15.1	18.5	17.8
Adj. Field Moisture Content (%) (AS1289.5.4.1)	14.8	18.4	17.4
Moisture Ratio (%) (AS1289.5.4.1)	98.5	99.5	98.0
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) (%)	0.0	0.0	0.5
Adjusted Moisture Variation (%)	**	**	**
Hilf Density Ratio (%)	**96.0**	**98.0**	**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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.

Material Test Report

Report Number: **P262519-9**
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason:
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 22278
Date Sampled: 09/10/2026
Dates Tested: 09/10/2026 - 12/10/2026
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: Wedge Road Skye -Level One
Material: CLAY
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
Level one manager

Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)			
Sample Number	P26-22278A	P26-22278B	P26-22278C
Test Number	21	22	23
Date Tested	09/10/2026	09/10/2026	09/10/2026
Time Tested	**	**	**
Test Request #/Location	Drainage Fill Lot 713	Drainage Fill Lot 713	Drainage Fill Lot 713
Easting	342504	342507	342504
Northing	5782362	5782375	5782382
Layer / Reduced Level	Layer 3	Layer 5	Layer 6
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 (%)	8	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) (t/m^3)	2.10	2.11	2.08
Field Moisture Content (%)	16.4	13.5	14.2
Field Dry Density (FDD) (t/m^3)	1.83	1.86	1.82
Peak Converted Wet Density (t/m^3)	**	2.20	2.17
Adjusted Peak Converted Wet Density (t/m^3)	2.12	**	**
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	14.8	12.1	13.7
Adj. Field Moisture Content (%) (AS1289.5.4.1)	15.0	13.5	14.2
Moisture Ratio (%) (AS1289.5.4.1)	**	112.0	104.0
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	101.0	**	**
Moisture Variation (Wv) (%)	**	-1.5	-0.5
Adjusted Moisture Variation (%)	-1.5	**	**
Hilf Density Ratio (%)	**99.0**	**96.0**	**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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.

Material Test Report

Report Number: **P262519-10**
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason:
Date Issued: 16/10/2026
Client: Street Works Pty Ltd
45 Commercial Drive, Pakenham Vic 3810
Project Number: P262519
Project Name: Wedge Road Stage 7
Project Location: Carrum Downs
Work Request: 22290
Date Sampled: 10/10/2026
Dates Tested: 10/10/2026 - 12/10/2026
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: Wedge Road Stage 7 Level 1 supervision
Material: Sandy silty CLAY
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
Level one manager
Laboratory Number: 15357

Compaction Control (AS 1289 5.7.1 & 5.8.1 & 2.1.1)			
Sample Number	P26-22290A	P26-22290B	
Test Number	24	25	
Date Tested	10/10/2026	10/10/2026	
Time Tested	**	**	
Test Request #/Location	Trench Fill	Trench Fill	
Easting	342503	342504	
Northing	5782409	5782421	
Layer / Reduced Level	Layer 1	Layer 3	
Thickness of Layer (mm)	300	300	
Soil Description	**	**	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	
Field Wet Density (FWD) (t/m^3)	2.07	2.06	
Field Moisture Content (%)	15.5	9.2	
Field Dry Density (FDD) (t/m^3)	1.79	1.89	
Peak Converted Wet Density (t/m^3)	2.13	2.12	
Adjusted Peak Converted Wet Density (t/m^3)	**	**	
Adj. Optimum Moisture Content (%) (AS1289.5.4.1)	15.0	7.6	
Adj. Field Moisture Content (%) (AS1289.5.4.1)	15.5	9.2	
Moisture Ratio (%) (AS1289.5.4.1)	103.5	121.5	
Adjusted Moisture Ratio (%) (AS1289.5.4.1)	**	**	
Moisture Variation (Wv) (%)	-0.5	-1.5	
Adjusted Moisture Variation (%)	**	**	
Hilf Density Ratio (%)	**97.0**	**97.5**	
Compaction Method	**Standard**	**Standard**	
Remarks	**	**	

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

This document shall not be reproduced except in full without approval of the laboratory.
Results relate only to the items tested/sampled.