



# LEVEL ONE EARTHWORKS REPORT

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**Proposed Residential  
Development  
Tillerman – Stage 9  
133-159 Park Ridge Rd  
Park Ridge**

SEPTEMBER 10 2025

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Shadforth Civil

Authored by: QUALTEST LABORATORY PTY LTD

REF: 8494



**Qualtest Laboratory**

Est. 1987

Ref: 8494  
Job: 25-111\_a  
Author: M. Bauer / R. Mitchell

10<sup>th</sup> September 2025

Shadforth Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

**ATTENTION:** **MR SYDNEY DELORYN**  
Email: [sydney.deloryn@shadcivil.com.au](mailto:sydney.deloryn@shadcivil.com.au)

Dear Sir,

**RE:** **LEVEL ONE EARTHWORKS REPORT**

**PROJECT:** **PROPOSED RESIDENTIAL DEVELOPMENT  
TILLERMAN – STAGE 9  
133 – 159 PARK RIDGE ROAD  
PARK RIDGE**

**CLIENT:** **SHADFORTH CIVIL**

**CONSULTANT:** **COLLIERS**

**CONTRACTOR:** **SHADFORTH CIVIL**

Revision	Date	Author	Reviewer	Description
0	09.09.25	R. Mitchell / M. Bauer	M. Morrison	For review / Issue to Client

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**GEOTECHNICAL AND LABORATORY SERVICES**

## **1.0 INTRODUCTION**

### **1.1 General**

This report presents results and documentation for the Level One Inspection and Testing of earthworks filling operations for the Proposed Residential Development, Tilleran Stage 9, 133 – 159 Park Ridge Road at Park Ridge (The Site).

Qualtest Laboratory Pty Ltd was commissioned by Shadforth Civil (The Client) to provide Level 1 Earthworks Inspection and Testing services as defined in Section 8 of AS3798.

Filling operations covered by this report were constructed between 19<sup>th</sup> March 2025 and 5<sup>th</sup> September 2025.

The purpose of Level 1 commission, and this report, is to provide an opinion that the earthworks operations carried out by the Client have been carried out in accordance with AS3798, relevant project specifications and Local Authority requirements as appropriate.

This report has been carried out in general accordance with the following: -

- AS3798-2007 - Guidelines on Earthwork for Commercial and Residential Development.
  - Type 1 Earthworks as per Section 8
- Colliers Engineers Consulting Drawings and Notes
- Logan City Council Requirements

This report does not cover underground services, trench backfill, pavements, retaining walls, filling outside areas shown on Figure 2 or any other works after 5<sup>th</sup> September 2025.

### **1.2 The Development**

The development comprises of a 21 - Lot residential subdivision with associated infrastructure and underground services.

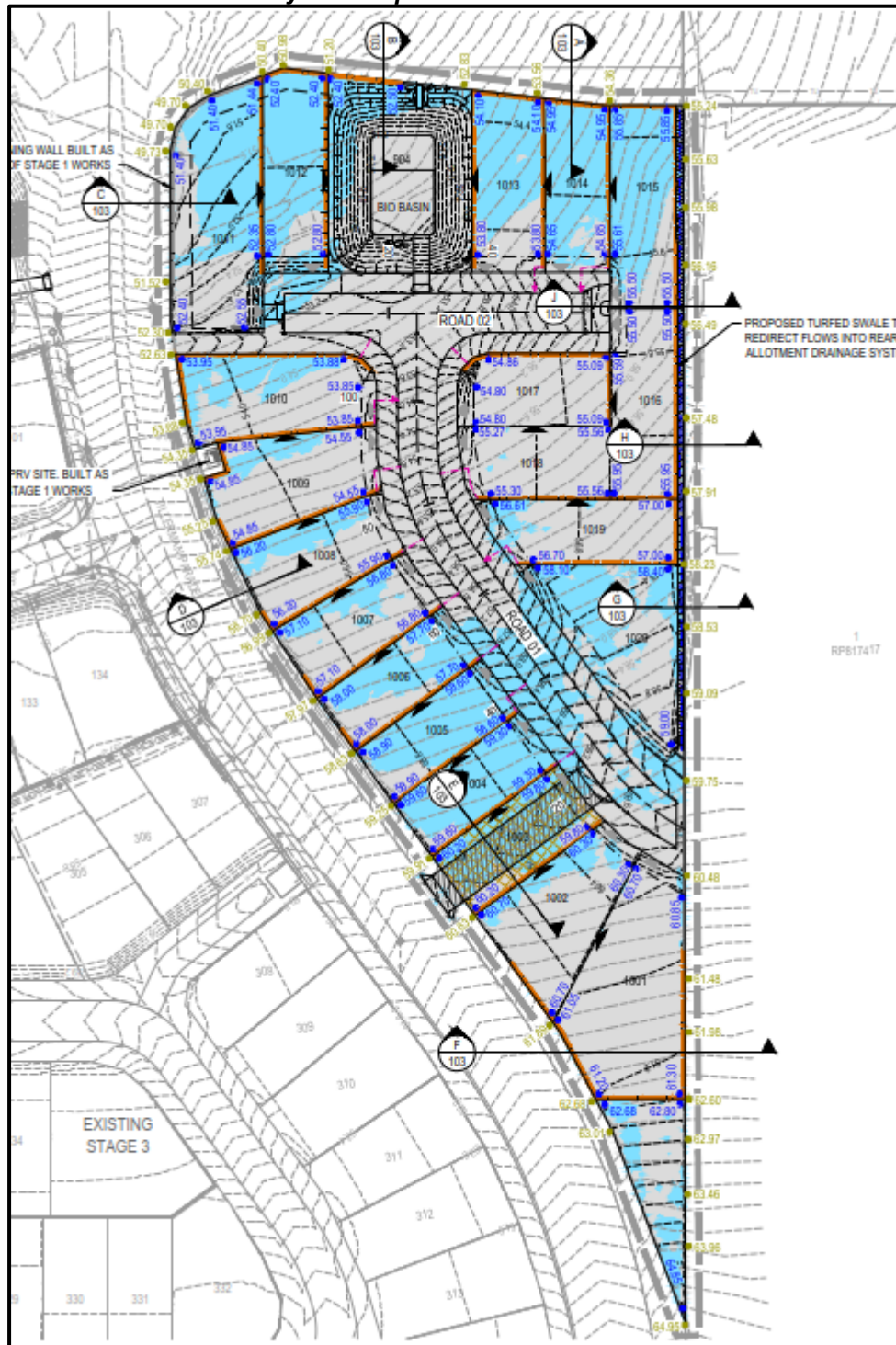
Earthworks to be constructed at the site is presented on Collier's drawings, Bulk Earthworks Layout Plan, Project No. 22-0495, Drawing 102, Revision A - reproduced below as Figure 1 below.

This plan is considered to be reasonable indication of the actual fill constructed during our involvement.

### **1.3 Existing Fill**

As far as what has been declared to Qualtest and what could reasonably be observed onsite, no existing fill was present at the site prior to the placement of fill.

Figure 1: Extent of Fill Covered by This Report - Blue Shade = Level One Fill Area



## 2.0 WORKS AND SPECIFICATIONS

All filling operations at the Site are to be placed and compacted in accordance with the following: -

- AS3798 – Type 1 Earthworks Operations.
- Logan City Council Specifications.
- Density Ratio – 95% Standard

### 3.0 FILL FOUNDATION

Areas to be filled at the site were observed to be stripped of vegetation, grass, redundant services, water affected ground, uncontrolled fill and topsoil to depths exposing competent natural ground.

Compliance of the fill foundation and approval to commence filling was on the basis of: -

- Adequate removal of topsoil and organics.
- Adequate removal of redundant service trenches.
- Compliant proof roll testing of the stripped surface using onsite heavy earthworks plant.
- Localised pre ripping to remove sticks, roots and other organics.

A picture of the stripped natural surface prior to filling is presented below.

**Picture 1: View of the Stripping Operations**



### 4.0 FILLING OPERATIONS

Fill at the site was sourced from onsite and included: -

- Onsite Cuts, Road Box Excavations and Trench Excavations.

Materials used as fill can be broadly summarised as: -

- Sandy Clay (CI), medium plasticity fines, fine to medium sand, orange, brown, red brown and moist.
- Silty Gravelly Clay (CL-CI) low to medium plasticity fines, fine to coarse gravels, traces of sand, brown and moist.

Fill was constructed using the following plant: -

- Dozer
- Scrapers
- Articulated Dump Trucks
- Watercart
- Padfoot Rollers
- Excavators

Fill was observed to be placed in layers within the capacity of the above plant, appropriately moisture conditioned and compacted using several passes.

To the extent that was reasonably practicable, fill materials visibly containing excessive amounts of silts or deleterious materials such as sticks, oversize particles were sorted to remove the contaminants prior to placement, or rejected for use. Some cobble sized particles may remain in the body of the fill, however, are unlikely to be in sufficient quantities to adversely affect the performance of the new fill. Sloping areas requiring filling were benched and continually keyed into the slope prior to and during fill placement.

A picture of the filling operations is presented below.

**Picture 2: View of Filling Operations**



## **5.0 COMPACTION TESTING**

Compaction testing was carried out on the compacted fill materials in accordance with Table 5.1 and 8.1 of AS3798 2007 and tested to AS1289 test methods. All test locations were selected by Qualtest at random and staggered over the fill area and depth. Test locations were not obtained by survey and on this basis, the locations should be considered as approximate only.

Compaction testing achieved the minimum required compaction specification of 95% Standard at the test locations. Areas where the compaction specification was not achieved were reworked and re-tested using random stratified location processes.

The location of the compaction tests and area of fill covered under this report are shown on the Site Plan contained in Appendix A. Compaction test reports are contained in Appendix B.

## 6.0 STATEMENT OF COMPLIANCE

Our representatives observed the relevant earthworks operations during our engagement including the stripped surface, new fill placement and compaction operations, and compaction testing.

As far as Qualtest could assess, the fill at The Site has been observed to be placed and compacted in accordance with the requirements outlined in Section 2.0.

The fill at The Site can be considered to be "Controlled" as defined in AS2870.

This statement of compliance covers only the area shaded blue in Figure 1.

## 7.0 EXCLUSIONS

The compliance statement specifically excludes fill constructed in the green shaded area in Figure 1, any topsoil, which may be placed for use as Lot dressing or any other subsequent earthworks after 5<sup>th</sup> September 2025.

All trench backfill, landscaping fill, fill outside the area shown as Figure 1 and other fill placed without our knowledge is also excluded.

Assessments of batter stability, global stability, and material quality such as soaked CBR and site classifications are excluded from this commission. The stability of any fill batters in the long term must take account of the variable materials used for the construction of the fill platforms and all surface loads including traffic loads near the crest of all batters.

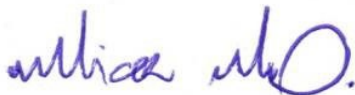
Our on-site attendance specifically excludes assessments of fill material quality and engineering properties that are outside the requirements of AS3798 - 2007, including soil or fill reactivity and soaked CBR values. We note that the fill materials comprise clay soils, which may result in unfavourable site classifications for individual lots and low subgrade design strengths for pavements.

Footings and ground slabs for any structures constructed over natural soils or controlled fill should be designed to accommodate the characteristic ground surface movements and settlement potential. Assessments of these design parameters are beyond the scope of this Report.

Controlled fill (Level 1 Fill) provides an overview that the Earthwork Specification has been met. There are instances where significant long-term settlements of controlled fill can occur. Large total and differential settlements can be expected where fill has been placed over soft and compressible soils and where the thickness of controlled fill varies significantly across a lot.

Should you require further information regarding the above please do not hesitate to contact this office.

Yours faithfully,



**MICHAEL MORRISON**

For and on behalf of

**QUALTEST LABORATORY PTY LTD.**

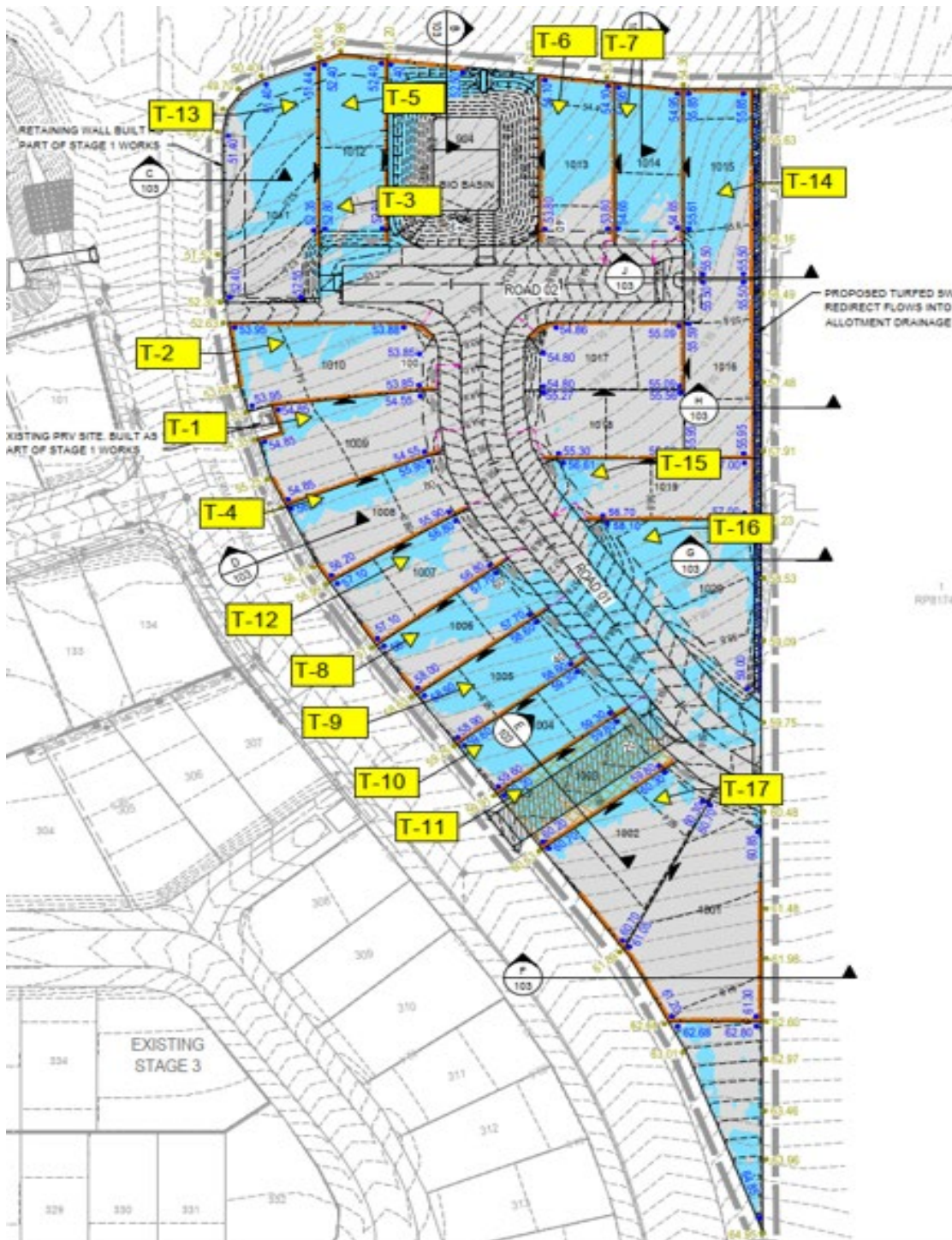
***Appendix A – Site Plan and Compaction Test Locations***

***Appendix B – Level One Tests***

A photograph of a construction site. In the foreground, there is a dirt road with tire tracks. To the right, a white pickup truck is parked, featuring a logo on its side that reads "Qualtest Laboratory" and "www.qualtestlab.com". In the background, there are several excavators and piles of earth, with a row of modern houses under construction in the distance under a clear sky.


# APPENDIX A

## Site Plan and Compaction Test Locations



**LEGEND:**

Test Locations



CLIENT: Shadforth Civil

TITLE: Compaction Test Locations

DRAWING NO: 25-111-01

LOCATION: Tillerman – Stage 9

DATE: 10<sup>th</sup> September 2025

PROJECT NO: 25-111

CHECKED BY: GG



# APPENDIX B

## COMPACTION TEST REPORTS

# Material Test Report

**Report Number:** 25-111\_a-1  
**Issue Number:** 1  
**Date Issued:** 26/03/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 14899  
**Date Sampled:** 24/03/2025 6:30  
**Dates Tested:** 24/03/2025 - 25/03/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** On-site



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*Mark Bauer*

Approved Signatory: Mark Bauer  
 Field Technician  
 NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S14899A	S14899B	S14899C
Test Number	1	2	3
Date Tested	24/03/2025	24/03/2025	24/03/2025
Time Tested	07:45	07:50	08:00
Test Request #/Location	Lot 1009	Lot 1010	Lot 1012
Chainage (m)	3m from North boundary	3m from North boundary	5m from South boundary
Location Offset (m)	10m from West boundary	12m from West boundary	5m from West boundary
Layer / Reduced Level	Final level	Final level	1.0m of fill
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	150	150	150
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 <sup>3</sup>	2.11	2.28	2.15
Field Moisture Content %	9.5	9.0	9.7
Field Dry Density (FDD) t/m <sup>3</sup>	1.93	2.09	1.96
Peak Converted Wet Density t/m <sup>3</sup>	2.15	2.30	2.13
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**
Moisture Variation (Wv) %	2.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	<b>98.5</b>	<b>99.0</b>	<b>101.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>
Remarks	**	**	**

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 25-111\_a-2  
**Issue Number:** 1  
**Date Issued:** 28/03/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 14926  
**Date Sampled:** 26/03/2025 7:30  
**Dates Tested:** 26/03/2025 - 27/03/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** On-site



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Approved Signatory: Rhys Mitchell  
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S14926A		
Test Number	4		
Date Tested	26/03/2025		
Time Tested	07:32		
Test Request #/Location	Lot 1008		
Chainage (m)	3m from North boundary		
Location Offset (m)	8m from West boundary		
Layer / Reduced Level	Final level		
Thickness of Layer (mm)	175		
Soil Description	Sandy CLAY		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m <sup>3</sup>	2.10		
Field Moisture Content %	18.9		
Field Dry Density (FDD) t/m <sup>3</sup>	1.77		
Peak Converted Wet Density t/m <sup>3</sup>	2.17		
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**		
Moisture Variation (Wv) %	-2.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	<b>96.5</b>		
Compaction Method	<b>Standard</b>		
Remarks	**		

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 25-111\_a-3  
**Issue Number:** 1  
**Date Issued:** 15/04/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 15050  
**Date Sampled:** 09/04/2025 6:30  
**Dates Tested:** 09/04/2025 - 14/04/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** on-site blend



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Approved Signatory: Greg Gibson  
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S15050A	S15050B	S15050C	S15050D
Test Number	5	6	7	8
Date Tested	09/04/2025	09/04/2025	09/04/2025	09/04/2025
Time Tested	06:30	06:35	06:45	14:05
Test Request #/Location	Lot 1012	Lot 1013	Lot 1014	Lot 1006
Chainage (m)	5m from West boundary	5m from West boundary	3m from West boundary	11m from West boundary
Location Offset (m)	10m from North boundary	12m from North boundary	8m from North boundary	2m from North boundary
Layer / Reduced Level	0.5m of fill	0.5m of fill	0.5m of fill	Final level
Thickness of Layer (mm)	175	175	175	175
Soil Description	Clayey SAND	Clayey SAND	Clayey SAND	Sandy CLAY
Test Depth (mm)	150	150	150	150
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 <sup>3</sup>	2.14	2.13	2.04	2.07
Field Moisture Content %	12.5	12.4	16.3	14.7
Field Dry Density (FDD) t/m <sup>3</sup>	1.90	1.90	1.75	1.81
Peak Converted Wet Density t/m <sup>3</sup>	2.21	2.19	2.11	2.03
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**
Moisture Variation (Wv) %	-1.5	-2.0	-0.5	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	<b>97.0</b>	<b>97.5</b>	<b>96.5</b>	<b>102.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>
Remarks	**	**	**	**

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 25-111\_a-4  
**Issue Number:** 1  
**Date Issued:** 06/05/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 15362  
**Date Sampled:** 01/05/2025 6:30  
**Dates Tested:** 01/05/2025 - 02/05/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** On-site blend



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*Mark Bauer*

Approved Signatory: Mark Bauer  
 Field Technician  
 NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15362A		
Test Number	10		
Date Tested	01/05/2025		
Time Tested	08:07		
Test Request #/Location	Lot 1004		
Chainage (m)	7m from North boundary		
Location Offset (m)	6m from West boundary		
Layer / Reduced Level	Final level		
Thickness of Layer (mm)	175		
Soil Description	Sandy CLAY		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m <sup>3</sup>	2.17		
Field Moisture Content %	14.0		
Field Dry Density (FDD) t/m <sup>3</sup>	1.90		
Peak Converted Wet Density t/m <sup>3</sup>	2.17		
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**		
Moisture Variation (Wv) %	-1.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	<b>100.0</b>		
Compaction Method	<b>Standard</b>		
Remarks	**		

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

# Material Test Report

**Report Number:** 25-111\_a-5  
**Issue Number:** 1  
**Date Issued:** 09/05/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 15324  
**Date Sampled:** 07/05/2025  
**Dates Tested:** 07/05/2025 - 08/05/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** on-site blend



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Approved Signatory: Mark Bauer  
 Field Technician  
 NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15324A		
Test Number	9		
Date Tested	30/04/2025		
Time Tested	08:23		
Test Request #/Location	Lot 1005		
Chainage (m)	3m from North boundary		
Location Offset (m)	12m from West boundary		
Layer / Reduced Level	Final level		
Thickness of Layer (mm)	175		
Soil Description	Sandy CLAY		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m <sup>3</sup>	2.07		
Field Moisture Content %	16.5		
Field Dry Density (FDD) t/m <sup>3</sup>	1.78		
Peak Converted Wet Density t/m <sup>3</sup>	2.06		
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**		
Moisture Variation (Wv) %	0.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	<b>101.0</b>		
Compaction Method	<b>Standard</b>		
Remarks	**		

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

# Material Test Report

**Report Number:** 25-111\_a-6  
**Issue Number:** 1  
**Date Issued:** 15/05/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 15435  
**Date Sampled:** 07/05/2025 7:00  
**Dates Tested:** 07/05/2025 - 14/05/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill



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*Mark Bauer*

Approved Signatory: Mark Bauer  
 Field Technician  
 NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15435A	S15435B	
Test Number	11	12	
Date Tested	07/05/2025	07/05/2025	
Time Tested	07:51	08:05	
Test Request #/Location	Lot 1003	Lot 1007	
Chainage (m)	5m from North boundary	3m from North boundary	
Location Offset (m)	5m from West boundary	7m from West boundary	
Layer / Reduced Level	Final level	Final level	
Thickness of Layer (mm)	175	175	
Soil Description	Sandy CLAY	Sandy CLAY	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m <sup>3</sup>	2.18	2.17	
Field Moisture Content %	13.5	15.0	
Field Dry Density (FDD) t/m <sup>3</sup>	1.92	1.89	
Peak Converted Wet Density t/m <sup>3</sup>	2.10	2.11	
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	
Moisture Variation (Wv) %	2.0	0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	<b>103.5</b>	<b>103.0</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	
Remarks	**	**	

**Moisture Variation Note:**

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 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 25-111\_a-7  
**Issue Number:** 1  
**Date Issued:** 10/07/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 16399  
**Date Sampled:** 26/06/2025 11:00  
**Dates Tested:** 26/06/2025 - 09/07/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** On-site



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*Mark Bauer*

Approved Signatory: Mark Bauer  
 Field Technician  
 NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S16399A	S16399B	
Test Number	13	14	
Date Tested	27/06/2025	27/06/2025	
Time Tested	10:56	11:25	
Test Request #/Location	Lot 1011	Lot 1015	
Chainage (m)	6m from North boundary	10m from South boundary	
Location Offset (m)	3m from East boundary	10m from West boundary	
Layer / Reduced Level	Final level	Final level	
Thickness of Layer (mm)	175	175	
Soil Description	Sandy GRAVEL	Sandy GRAVEL	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m <sup>3</sup>	2.00	2.04	
Field Moisture Content %	13.0	16.0	
Field Dry Density (FDD) t/m <sup>3</sup>	1.77	1.76	
Peak Converted Wet Density t/m <sup>3</sup>	2.00	2.03	
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	
Moisture Variation (Wv) %	3.5	1.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	<b>100.0</b>	<b>100.5</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	
Remarks	**	**	

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 25-111\_a-8  
**Issue Number:** 1  
**Date Issued:** 08/08/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 17005  
**Date Sampled:** 31/07/2025 9:45  
**Dates Tested:** 31/07/2025 - 07/08/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** Onsite



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*Mark Bauer*

Approved Signatory: Mark Bauer  
 Field Technician  
 NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S17005A	S17005B	
Test Number	15	16	
Date Tested	31/07/2025	31/07/2025	
Time Tested	09:50	09:55	
Test Request #/Location	Lot 1019	Lot 1020	
Chainage (m)	4m from North boundary	2m from North boundary	
Location Offset (m)	7m from West boundary	5m from West boundary	
Layer / Reduced Level	Final level	Final level	
Thickness of Layer (mm)	175	175	
Soil Description	Sandy CLAY	Sandy CLAY	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m <sup>3</sup>	2.10	2.09	
Field Moisture Content %	11.7	13.0	
Field Dry Density (FDD) t/m <sup>3</sup>	1.88	1.85	
Peak Converted Wet Density t/m <sup>3</sup>	2.11	2.12	
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	
Moisture Variation (Wv) %	2.0	1.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	<b>99.5</b>	<b>98.5</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	
Remarks	**	**	

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 25-111\_a-9  
**Issue Number:** 1  
**Date Issued:** 09/09/2025  
**Client:** SHADFORTH CIVIL PTY LTD  
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556  
**Contact:** ASHLEY GWAMBA  
**Project Number:** 25-111\_a  
**Project Name:** LEVEL ONE SUPERVISION  
**Project Location:** TILLERMAN - STAGE 9  
**Work Request:** 17770  
**Date Sampled:** 05/09/2025 8:45  
**Dates Tested:** 05/09/2025 - 08/09/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** 95% Standard  
**Site Selection:** Selected by GTA  
**Location:** Tillerman- Stage 9 - Park Ridge  
**Material:** Allotment Fill  
**Material Source:** On-site



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*Mark Bauer*

Approved Signatory: Mark Bauer  
 Field Technician  
 NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S17770A		
Test Number	17		
Date Tested	05/09/2025		
Time Tested	09:53		
Test Request #/Location	Lot 1002		
Chainage (m)	2m from North boundary		
Location Offset (m)	13m from East boundary		
Layer / Reduced Level	Final level		
Thickness of Layer (mm)	175		
Soil Description	Sandy CLAY		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m <sup>3</sup>	2.06		
Field Moisture Content %	11.1		
Field Dry Density (FDD) t/m <sup>3</sup>	1.85		
Peak Converted Wet Density t/m <sup>3</sup>	2.07		
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**		
Moisture Variation (Wv) %	2.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	<b>99.5</b>		
Compaction Method	<b>Standard</b>		
Remarks	**		

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