LEVEL ONE EARTHWORKS REPORT

Proposed Residential Development

Highland Stage 1A, B, C, D

213 Taylors Rd,

Walloon

JUNE 24 2025

Shadforth Civil

Authored by: QUALTEST LABORATORY PTY LTD

REF: 8281

Qualtest Laboratory

Est. 1987

Ref: 8281
Job: 25-043
Author: J. Fowler

Qualtest Laboratory
Est. 1987

24th June 2025

Shadforth Civil
99 Sandalwood Lane,
Forest Glen QLD 4556

ATTENTION: **MR AMAN AZAD**
Email: aman.azad@shadcivil.com.au
Cc: jason.close@shadcivil.com.au

Dear Sir,

RE: **LEVEL ONE EARTHWORKS REPORT**

PROJECT: **PROPOSED RESIDENTIAL DEVELOPMENT**
HIGHLAND STAGE 1A, B, C, D
213 TAYLORS ROAD WALLOON

CLIENT: **SHADFORTH CIVIL**

CONSULTANT: **SMEC**

CONTRACTOR: **VE GROUP**

Revision	Date	Author	Reviewer	Description
0	07/08/2024	R. Mitchell	M. Morrison	For Review / Issue to Client

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1.0 INTRODUCTION

1.1 General

This report presents results and documentation for the Level One Inspection and Testing of earthworks filling operations performed at the Proposed Residential Development “Highland stage 1A, B, C, D & Stage 2” at 213 Taylors Road Walloon, Walloon (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 the 3rd February 2025 and 18th June 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 Earthworks for Commercial and Residential Development
- SMEC Drawings and Notes on Drawings
- Ipswich City Council

This report does not cover underground services, trench backfill, pavements, retaining walls, filling outside areas shown on Figure 1 or any other works after 18th June 2025.

1.2 The Development

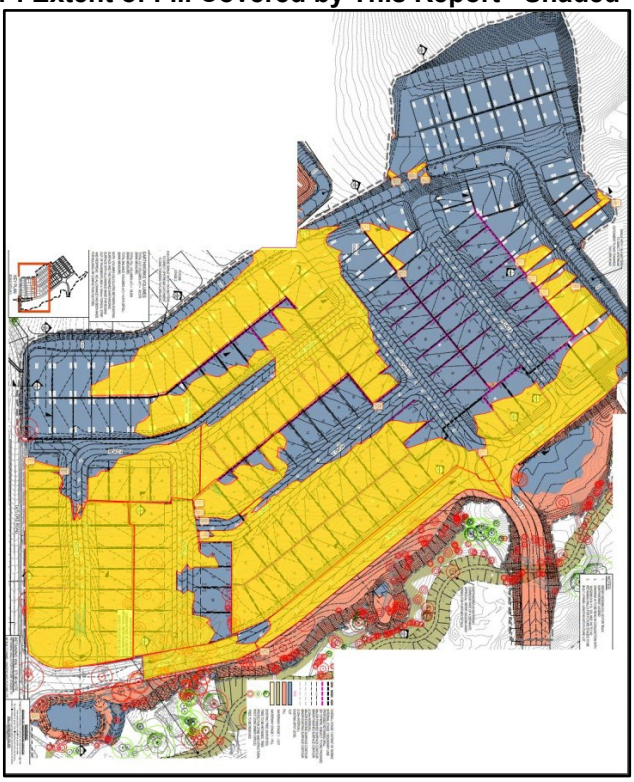
The development comprises of 25 new Residential Lots and associated infrastructure and underground services.

Earthworks to be constructed at the site is presented on SMEC Drawings, Bulk Earthworks Layout Plan, Project Drawing Number. 30032066-01A-120,reproduced as Figure 1 below.

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

The extent of fill covered by this report is shaded yellow in Figure 1 below.

Figure 1 : Extent of Fill Covered by This Report - Shaded Yellow



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.
- Notes on SMEC drawings.
- Density Ratio – 95% Standard

3.0 FILL FOUNDATION

Areas to be filled at the site were observed to be stripped of topsoil and organics to depths exposing competent natural ground.

Wet clay soils were observed along overland flow paths and gullies. The wet clay soils were soft and were removed to depths exposing stiff clay soils that were not affected by water.

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

- Adequate removal of topsoil and organics to expose competent natural soils.
- Adequate removal of redundant service trenches.
- Removal of water affected soils.
- Compliant proof roll testing of the stripped surface using onsite earthworks plant.

A picture of the stripping operations and surface prior to filling operations are presented below.

Picture 1: View of Stripping Operations

4.0 FILLING OPERATIONS

Fill was sourced from on site from cut materials and can broadly be summarised as: -

- Sandy Clay (CI-CH) medium to plasticity fines, fine to coarse sands, light brown, and red brown and moist.

Fill was constructed using the following plant: -

- Padfoot Roller
- Dozer
- Articulated Sump Trucks
- Scrapers
- Water Truck
- Graders
- Excavators

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

Pictures of the filling operations are presented below.

View of Filling Operations

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.

7.0 EXCLUSIONS

The compliance statement specifically excludes any topsoil, which may be placed for use as Lot dressing or any other subsequent earthworks after 18th June 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 – *Compaction Test Reports*

APPENDIX A

Site Plan and Compaction Test Locations

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LEGEND:

Test Locations

CLIENT: Shadforth Civil	**TITLE:** Compaction Test Locations	**DRAWING NO: 25-043-01**
		DATE: 24th June 2025
LOCATION: Highland Stage 1A, B, C, D		**PROJECT NO: 25-043**
		CHECKED BY: GG

APPENDIX B

COMPACTION TEST REPORTS

Qualtest Laboratory
Est. 1987

Material Test Report

Report Number: **25-043-1**
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason: *Report separation*
Date Issued: 18/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14240
Date Sampled: 10/02/2025
Dates Tested: 10/02/2025 - 12/02/2025
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: Highland Stage 1 & 2,Walloon (Power Pole)
Material: Power Pole Mound
Material Source: Onsite

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2 / 40 Boyland Ave Cooper Plains QLD 4108
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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Rhys Mitchell
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	S14240A		
Test Number	23		
Date Tested	10/02/2025		
Time Tested	11:00		
Test Request #/Location	Power Pole 1		
Elevation (m)	58.94		
Layer / Reduced Level	Finish Level		
Thickness of Layer (mm)	300		
Soil Description	Sandy CLAY		
Test Depth (mm)	275		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	0		
Oversize (dry basis) %	0		
Curing Hours	2.0		
Method used to Determine Plasticity	Visual		
Field Wet Density t/m^3	2.00		
Field Moisture Content %	16.8		
Field Dry Density t/m^3	1.72		
Maximum Dry Density t/m^3	1.79		
Adjusted Maximum Dry Density t/m^3	**		
Optimum Moisture Content (OMC) %	17.5		
Adjusted Optimum Moisture Content (OMC) %	**		
Moisture Variation %	1.0		
Moisture Ratio %	95.0		
Density Ratio %	**96.0**		
Compaction Method	**Standard**		

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

Material Test Report

Report Number: **25-043-2**
Issue Number: 1
Date Issued: 17/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14174
Date Sampled: 05/02/2025
Dates Tested: 05/02/2025 - 14/02/2025
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: Highland Estate
Material: General Fill
Material Source: Onsite

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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	S14174A	S14174B	S14174C	S14174D
Test Number	1	2	3	4
Date Tested	05/02/2025	05/02/2025	05/02/2025	05/02/2025
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464975	464986	464984	464987
Northing	6948290	6948244	6948240	6948225
Elevation (m)	65.17	65.24	65.32	64.35
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay	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^3	2.02	2.00	2.01	1.93
Field Moisture Content %	10.3	11.9	12.8	16.3
Field Dry Density (FDD) t/m^3	1.83	1.79	1.78	1.66
Peak Converted Wet Density t/m^3	1.95	2.01	1.98	1.92
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	4.5	1.5	1.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**103.5**	**99.5**	**101.5**	**100.5**
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: **25-043-3**
Issue Number: 1
Date Issued: 18/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14386
Date Sampled: 17/02/2025
Dates Tested: 17/02/2025 - 18/02/2025
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: Highland Stages 1 & 2, walloon (Power Pole 2)
Material: Power Pole
Material Source: Onsite

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Accredited for compliance with ISO/IEC 17025 - Testing

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	S14386A		
Test Number	49		
Date Tested	17/02/2025		
Time Tested	14:00		
Test Request #/Location	Power Pole 2		
Layer / Reduced Level	Finish Level		
Thickness of Layer (mm)	300		
Soil Description	Silty CLAY		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m^3	2.02		
Field Moisture Content %	17.3		
Field Dry Density (FDD) t/m^3	1.73		
Peak Converted Wet Density t/m^3	2.07		
Adjusted Peak Converted Wet Density t/m^3	**		
Moisture Variation (Wv) %	0.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	**98.0**		
Compaction Method	**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: 25-043-4
Issue Number: 1
Date Issued: 19/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14219
Date Sampled: 07/02/2025
Dates Tested: 07/02/2025 - 18/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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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	S14219A	S14219B	S14219C	S14219D	S14219E
Test Number	5	6	7	8	9
Date Tested	07/02/2025	07/02/2025	07/02/2025	07/02/2025	07/02/2025
Time Tested	10:45	10:50	11:00	11:05	11:10
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	464987	464998	464971	464955	464988
Northing	6948262	6948245	6948277	6948287	6948211
Elevation (m)	66.12	65.8	66.23	66.5	65.1
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	2.05	2.07	2.04	2.09	2.09
Field Moisture Content %	16.9	15.5	16.1	14.8	16.6
Field Dry Density (FDD) t/m^3	1.76	1.80	1.76	1.82	1.79
Peak Converted Wet Density t/m^3	1.98	2.00	1.98	2.02	1.99
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	0.5	2.5	2.5	1.0	1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**104.0**	**104.0**	**103.0**	**103.5**	**104.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: 25-043-4
Issue Number: 1
Date Issued: 19/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14219
Date Sampled: 07/02/2025
Dates Tested: 07/02/2025 - 18/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Greg Gibson
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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S14219F	S14219G	S14219H	S14219I	S14219J
Test Number	10	11	12	13	14
Date Tested	07/02/2025	07/02/2025	07/02/2025	07/02/2025	07/02/2025
Time Tested	11:15	11:20	11:25	11:30	11:40
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	465034	465050	465057	465065	465093
Northing	6948085	6948065	6948044	6948023	6948007
Elevation (m)	63.4	64.1	63.8	62.6	60.2
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	2.02	2.04	2.03	2.01	1.96
Field Moisture Content %	15.9	17.9	17.0	16.4	17.2
Field Dry Density (FDD) t/m^3	1.74	1.73	1.73	1.73	1.68
Peak Converted Wet Density t/m^3	2.02	1.96	1.95	1.92	1.90
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	-1.0	3.0	3.0	2.5	4.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**100.0**	**104.0**	**104.0**	**104.5**	**103.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

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NATA Accredited Laboratory Number: 2316

Report Number: **25-043-5**
Issue Number: 1
Date Issued: 19/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14238
Date Sampled: 10/02/2025
Dates Tested: 10/02/2025 - 19/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14238A	S14238B	S14238C	S14238D
Test Number	15	16	17	18
Date Tested	10/02/2025	10/02/2025	10/02/2025	10/02/2025
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	465022	465033	465057	465047
Northing	6948145	6948127	6948127	6948112
Elevation (m)	63.4	63.4	63.5	63.5
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	1.96	1.98	1.98	1.98
Field Moisture Content %	13.7	14.9	14.7	23.6
Field Dry Density (FDD) t/m^3	1.72	1.73	1.73	1.60
Peak Converted Wet Density t/m^3	1.94	1.93	1.96	2.01
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	1.5	3.5	4.5	-1.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**101.5**	**103.0**	**101.0**	**98.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**

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

Material Test Report

Report Number: **25-043-5**
Issue Number: 1
Date Issued: 19/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14238
Date Sampled: 10/02/2025
Dates Tested: 10/02/2025 - 19/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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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	S14238E	S14238F	S14238G	S14238H
Test Number	19	20	21	22
Date Tested	10/02/2025	10/02/2025	10/02/2025	10/02/2025
Time Tested	10:20	10:25	10:30	10:35
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	465059	465075	465089	465104
Northing	6948091	6948099	6948040	6948052
Elevation (m)	63.5	63.2	61.9	61.8
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	1.98	1.96	1.95	2.01
Field Moisture Content %	14.3	14.5	14.9	15.3
Field Dry Density (FDD) t/m^3	1.74	1.71	1.70	1.75
Peak Converted Wet Density t/m^3	1.94	1.96	1.99	1.99
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	1.0	2.0	1.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**102.0**	**100.5**	**98.0**	**101.0**
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: **25-043-6**
Issue Number: 1
Date Issued: 19/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14278
Date Sampled: 11/02/2025
Dates Tested: 11/02/2025 - 18/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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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	S14278A	S14278B	S14278C	S14278D
Test Number	25	26	27	28
Date Tested	11/02/2025	11/02/2025	11/02/2025	11/02/2025
Time Tested	11:00	11:05	11:10	11:15
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464976	464994	465003	465016
Northing	6948082	6948049	6948033	6948008
Elevation (m)	65.9	64.7	64.2	63.6
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	2.02	2.03	2.01	2.01
Field Moisture Content %	18.7	19.1	17.7	19.3
Field Dry Density (FDD) t/m^3	1.70	1.70	1.71	1.68
Peak Converted Wet Density t/m^3	1.98	2.02	1.96	1.93
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	0.0	-1.0	0.5	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**102.5**	**101.0**	**102.5**	**104.0**
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: 25-043-6
Issue Number: 1
Date Issued: 19/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14278
Date Sampled: 11/02/2025
Dates Tested: 11/02/2025 - 18/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14278E	S14278F	S14278G	S14278H
Test Number	29	30	31	32
Date Tested	11/02/2025	11/02/2025	11/02/2025	11/02/2025
Time Tested	11:20	11:25	11:30	11:35
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464998	465010	465025	465056
Northing	6948120	6948087	6948063	6948008
Elevation (m)	66.2	65.3	65.1	63.0
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Silty CLAY	CLAY
Test Depth (mm)	175	175	175	175
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	2.02	2.03	1.99	1.97
Field Moisture Content %	20.1	18.1	23.9	23.1
Field Dry Density (FDD) t/m^3	1.69	1.72	1.60	1.60
Peak Converted Wet Density t/m^3	1.96	1.97	1.91	1.88
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**103.5**	**103.0**	**104.0**	**105.0**
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: **25-043-7**
Issue Number: 1
Date Issued: 21/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14371
Date Sampled: 17/02/2025
Dates Tested: 17/02/2025 - 20/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S14371A	S14371B	S14371C	S14371D	S14371E
Test Number	41	42	43	44	45
Date Tested	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	464948	464933	464937	464906	464866
Northing	6948130	6948063	6948004	6948062	6948100
Elevation (m)	68.0	67.8	67.0	69.0	72.0
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	2.04	2.08	2.04	1.94	2.04
Field Moisture Content %	11.1	10.6	10.7	11.9	11.3
Field Dry Density (FDD) t/m^3	1.84	1.89	1.84	1.74	1.84
Peak Converted Wet Density t/m^3	1.95	1.99	1.96	1.90	1.93
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	3.5	2.5	3.5	4.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**104.5**	**104.5**	**104.0**	**102.5**	**106.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: 25-043-7
Issue Number: 1
Date Issued: 21/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14371
Date Sampled: 17/02/2025
Dates Tested: 17/02/2025 - 20/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Greg Gibson
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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S14371F	S14371G	S14371H	S14371I	S14371J
Test Number	46	47	48	50	51
Date Tested	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025
Time Tested	10:25	10:30	10:35	10:40	10:45
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	464885	464910	464963	464923	464939
Northing	6948107	6948116	6947958	6948004	6947983
Elevation (m)	70.8	70.1	65.1	67.0	69.8
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	2.01	2.01	2.01	1.96	2.00
Field Moisture Content %	11.5	12.6	11.2	17.2	16.7
Field Dry Density (FDD) t/m^3	1.80	1.78	1.81	1.68	1.71
Peak Converted Wet Density t/m^3	1.94	1.94	1.94	1.88	1.89
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	4.5	4.0	3.0	3.0	3.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**103.5**	**103.0**	**103.5**	**104.5**	**105.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: 25-043-8
Issue Number: 1
Date Issued: 24/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14398
Date Sampled: 18/02/2025
Dates Tested: 18/02/2025 - 20/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14398A	S14398B	S14398C	S14398D
Test Number	52	53	54	55
Date Tested	18/02/2025	18/02/2025	18/02/2025	18/02/2025
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464876	464886	464893	464899
Northing	6948038	6948022	6948007	6947991
Elevation (m)	70.65	70.01	70.6	69.46
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	1.94	1.94	2.02	1.98
Field Moisture Content %	12.0	10.3	13.5	11.7
Field Dry Density (FDD) t/m^3	1.73	1.76	1.78	1.77
Peak Converted Wet Density t/m^3	1.94	1.92	1.96	1.96
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	3.0	1.5	2.5	4.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**100.0**	**101.0**	**103.0**	**101.0**
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: **25-043-8**
Issue Number: 1
Date Issued: 24/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14398
Date Sampled: 18/02/2025
Dates Tested: 18/02/2025 - 20/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14398E	S14398F	S14398G	
Test Number	56	57	58	
Date Tested	18/02/2025	18/02/2025	18/02/2025	
Time Tested	10:20	10:30	10:35	
Test Request #/Location	General Fill	General Fill	General Fill	
Easting	464915	464916	464850	
Northing	6947975	6947958	6948076	
Elevation (m)	68.71	72.20	73.50	
Thickness of Layer (mm)	200	200	200	
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	
Test Depth (mm)	175	175	175	
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	2.03	2.01	2.00	
Field Moisture Content %	15.7	15.0	15.9	
Field Dry Density (FDD) t/m^3	1.76	1.75	1.73	
Peak Converted Wet Density t/m^3	1.97	1.98	1.98	
Adjusted Peak Converted Wet Density t/m^3	**	**	**	
Moisture Variation (Wv) %	2.5	3.0	1.0	
Adjusted Moisture Variation %	**	**	**	
Hilf Density Ratio (%)	**103.0**	**101.5**	**101.5**	
Compaction Method	**Standard**	**Standard**	**Standard**	
Report Remarks	**	**	**	

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

Material Test Report

Report Number: **25-043-9**
Issue Number: 1
Date Issued: 24/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14361
Date Sampled: 14/02/2025
Dates Tested: 14/02/2025 - 19/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14361A	S14361B	S14361C	S14361D
Test Number	33	34	35	36
Date Tested	14/02/2025	14/02/2025	14/02/2025	14/02/2025
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464918	464944	464931	464995
Northing	6948299	6948291	6948307	6948106
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	66.3
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandstone	Sandstone	Sandstone	Sandstone
Test Depth (mm)	175	175	175	175
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	2.18	2.10	2.14	2.07
Field Moisture Content %	13.2	12.1	13.4	13.3
Field Dry Density (FDD) t/m^3	1.92	1.87	1.89	1.82
Peak Converted Wet Density t/m^3	2.05	1.97	1.99	2.01
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	0.5	1.5	1.0	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**106.5**	**106.5**	**108.0**	**103.0**
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: **25-043-9**
Issue Number: 1
Date Issued: 24/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14361
Date Sampled: 14/02/2025
Dates Tested: 14/02/2025 - 19/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14361E	S14361F	S14361G	S14361H
Test Number	37	38	39	40
Date Tested	14/02/2025	14/02/2025	14/02/2025	14/02/2025
Time Tested	10:20	10:25	10:30	10:35
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	465007	465026	465042	465037
Northing	6948082	6948050	6948007	6947958
Layer / Reduced Level	66.1	66.0	66.2	**
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandstone	Sandstone	Sandstone	Sandstone
Test Depth (mm)	175	175	175	175
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	2.10	2.12	2.02	2.08
Field Moisture Content %	10.4	11.1	11.2	12.4
Field Dry Density (FDD) t/m^3	1.91	1.91	1.82	1.85
Peak Converted Wet Density t/m^3	1.99	2.00	1.97	1.97
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	2.0	1.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**105.5**	**106.5**	**102.5**	**105.5**
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: **25-043-10**
Issue Number: 1
Date Issued: 25/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14417
Date Sampled: 19/02/2025
Dates Tested: 19/02/2025 - 24/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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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	S14417A	S14417B	S14417C	S14417D	S14417E
Test Number	59	60	61	62	63
Date Tested	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	464875	464901	464949	464917	464919
Northing	6948091	6948118	6947951	6948120	6948117
Elevation (m)	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	1.98	1.96	2.03	2.00	2.09
Field Moisture Content %	15.0	14.4	17.8	17.2	14.4
Field Dry Density (FDD) t/m^3	1.72	1.72	1.72	1.71	1.83
Peak Converted Wet Density t/m^3	1.95	1.95	1.98	1.99	1.99
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	2.5	2.5	1.0	1.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**101.5**	**100.5**	**102.5**	**101.0**	**105.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: **25-043-10**
Issue Number: 1
Date Issued: 25/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14417
Date Sampled: 19/02/2025
Dates Tested: 19/02/2025 - 24/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S14417F	S14417G	S14417H	S14417I	S14417J
Test Number	64	65	66	67	68
Date Tested	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025
Time Tested	10:25	10:30	10:35	10:40	10:45
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	464863	464916	464895	464906	464915
Northing	6948082	6947941	6948056	6948041	6948023
Elevation (m)	71.8	69.20	68.80	68.20	67.90
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	1.99	2.07	2.03	2.05	2.02
Field Moisture Content %	16.9	15.5	13.2	14.4	16.7
Field Dry Density (FDD) t/m^3	1.70	1.79	1.79	1.79	1.73
Peak Converted Wet Density t/m^3	1.95	1.99	1.97	1.95	1.96
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**102.0**	**104.0**	**103.0**	**105.5**	**102.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

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NATA Accredited Laboratory Number: 2316

Report Number: **25-043-11**
Issue Number: 1
Date Issued: 25/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14455
Date Sampled: 20/02/2025
Dates Tested: 20/02/2025 - 24/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14455A	S14455B	S14455C	S14455D
Test Number	69	70	71	72
Date Tested	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464868	464878	464879	464880
Northing	6948046	6948032	6948019	6948006
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175
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	2.00	1.99	2.01	2.01
Field Moisture Content %	17.0	16.7	16.9	19.4
Field Dry Density (FDD) t/m^3	1.71	1.71	1.72	1.68
Peak Converted Wet Density t/m^3	1.97	1.88	1.99	1.96
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	2.0	3.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**101.0**	**105.5**	**101.0**	**102.5**
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: **25-043-11**
Issue Number: 1
Date Issued: 25/02/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14455
Date Sampled: 20/02/2025
Dates Tested: 20/02/2025 - 24/02/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14455E	S14455F	S14455G	S14455H
Test Number	73	74	75	76
Date Tested	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Tested	10:20	10:25	10:30	10:35
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464887	464896	464904	464914
Northing	6947989	6947973	6947959	6947909
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175
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	2.00	1.87	1.89	1.90
Field Moisture Content %	18.3	17.7	17.1	15.1
Field Dry Density (FDD) t/m^3	1.69	1.59	1.62	1.65
Peak Converted Wet Density t/m^3	1.89	1.92	1.90	1.88
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	2.5	2.5	3.0	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**105.5**	**97.0**	**99.5**	**101.0**
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: **25-043-12**
Issue Number: 1
Date Issued: 13/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14515
Date Sampled: 24/02/2025
Dates Tested: 24/02/2025 - 12/03/2025
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: Highland Stages 1 & 2,Walloon (FL)
Material: General Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14515A	S14515B	S14515C	S14515D
Test Number	85	86	87	88
Date Tested	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Time Tested	10:00	10:10	10:20	10:40
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	465016	465036	465055	465071
Northing	6948140	6948108	6948081	6948051
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	2.03	2.02	2.01	2.00
Field Moisture Content %	17.9	17.8	15.0	14.7
Field Dry Density (FDD) t/m^3	1.73	1.71	1.75	1.74
Peak Converted Wet Density t/m^3	1.92	1.94	1.95	1.94
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**106.0**	**104.0**	**103.0**	**103.0**
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: **25-043-12**
Issue Number: 1
Date Issued: 13/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14515
Date Sampled: 24/02/2025
Dates Tested: 24/02/2025 - 12/03/2025
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: Highland Stages 1 & 2,Walloon (FL)
Material: General Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14515E	S14515F	S14515G	S14515H
Test Number	89	90	91	92
Date Tested	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Time Tested	10:50	11:10	11:20	11:30
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	465089	465099	465064	465051
Northing	6948023	6947998	6948009	6948030
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	1.90	1.96	1.88	2.01
Field Moisture Content %	19.6	14.0	18.7	18.6
Field Dry Density (FDD) t/m^3	1.59	1.72	1.59	1.70
Peak Converted Wet Density t/m^3	1.90	1.92	1.96	1.97
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	2.5	2.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**100.0**	**102.0**	**96.0**	**102.0**
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: **25-043-13**
Issue Number: 1
Date Issued: 13/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14499
Date Sampled: 21/02/2025
Dates Tested: 21/02/2025 - 12/03/2025
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: Highland Stages 1 & 2
Material: General Fill
Material Source: Onsite Cut

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S14499A	S14499B	S14499C	S14499D	S14499E
Test Number	77	78	79	80	81
Date Tested	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	465107	465099	465090	465074	465070
Northing	6947921	6947888	6947847	6947929.	6947909
Elevation (m)	59.4	58.3	59.4	59.3	59.4
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	1.90	1.95	1.92	1.95	1.93
Field Moisture Content %	22.1	22.6	23.5	22.5	18.2
Field Dry Density (FDD) t/m^3	1.56	1.59	1.56	1.59	1.63
Peak Converted Wet Density t/m^3	1.97	1.98	1.97	1.97	1.97
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	2.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**96.5**	**99.0**	**97.5**	**98.5**	**97.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: **25-043-13**
Issue Number: 1
Date Issued: 13/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14499
Date Sampled: 21/02/2025
Dates Tested: 21/02/2025 - 12/03/2025
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: Highland Stages 1 & 2
Material: General Fill
Material Source: Onsite Cut

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S14499F	S14499G	S14499H	S14499I	
Test Number	82	83	84	114	
Date Tested	21/02/2025	21/02/2025	21/02/2025	21/02/2025	
Time Tested	10:25	10:30	10:35	10:40	
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	
Easting	465107	465067	465075	465086	
Northing	6947863	6947855	6947890	697990	
Elevation (m)	59.6	59.5	59.6	59.4	
Thickness of Layer (mm)	200	200	200	200	
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	
Test Depth (mm)	175	175	175	175	
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	1.82	1.86	1.88	1.91	
Field Moisture Content %	18.2	17.7	18.7	17.9	
Field Dry Density (FDD) t/m^3	1.54	1.58	1.58	1.62	
Peak Converted Wet Density t/m^3	1.89	1.92	1.89	1.90	
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	
Moisture Variation (Wv) %	2.5	2.5	2.0	2.0	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	**96.0**	**97.0**	**99.5**	**100.5**	
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: **25-043-14**
Issue Number: 1
Date Issued: 14/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14593
Date Sampled: 26/02/2025
Dates Tested: 26/02/2025 - 13/03/2025
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: Highland Stages 1 & 2,Walloon (FL)
Material: General Fill
Material Source: Onsite

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Approved Signatory: Greg Gibson
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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S14593A	S14593B	S14593C	S14593D	S14593E
Test Number	101	102	103	104	105
Date Tested	26/02/2025	26/02/2025	26/02/2025	26/02/2025	26/02/2025
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	464950	464936	464946	464989	464970
Northing	6948054	6948079	6948059	6947988	6948016
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175	175
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
Field Wet Density (FWD) t/m^3	1.91	1.94	1.96	1.95	1.93
Field Moisture Content %	12.1	11.9	11.5	13.2	13.6
Field Dry Density (FDD) t/m^3	1.70	1.73	1.76	1.72	1.70
Peak Converted Wet Density t/m^3	1.90	1.90	1.94	1.95	1.92
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	5.0	4.0	5.0	4.5	4.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**100.5**	**102.0**	**101.0**	**100.0**	**100.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**

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

Material Test Report

Report Number: **25-043-14**
Issue Number: 1
Date Issued: 14/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14593
Date Sampled: 26/02/2025
Dates Tested: 26/02/2025 - 13/03/2025
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: Highland Stages 1 & 2,Walloon (FL)
Material: General Fill
Material Source: Onsite

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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	S14593F	S14593G	S14593H	S14593I	
Test Number	106	107	108	109	
Date Tested	26/02/2025	26/02/2025	26/02/2025	26/02/2025	
Time Tested	10:25	10:30	10:35	10:40	
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	
Easting	464954	464916	464864	464880	
Northing	6948043	6948095	6948262	6948276	
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level	
Thickness of Layer (mm)	200	200	200	200	
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY	
Test Depth (mm)	175	175	175	175	
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	1.98	1.92	1.94	1.92	
Field Moisture Content %	12.0	12.0	12.3	11.4	
Field Dry Density (FDD) t/m^3	1.77	1.71	1.73	1.73	
Peak Converted Wet Density t/m^3	1.95	1.98	1.97	1.94	
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	
Moisture Variation (Wv) %	2.5	2.0	1.5	2.0	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	**101.5**	**97.0**	**98.5**	**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: **25-043-15**
Issue Number: 1
Date Issued: 17/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14629
Date Sampled: 27/02/2025
Dates Tested: 27/02/2025 - 14/03/2025
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: Highlands Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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ql-greg
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S14629A	S14629B	
Test Number	110	111	
Date Tested	27/02/2025	27/02/2025	
Time Tested	10:00	10:10	
Test Request #/Location	General Fill	General Fill	
Easting	464904	465027	
Northing	6948293	6948179	
Elevation (m)	**	RL: 64.1	
Layer / Reduced Level	Final Level	**	
Thickness of Layer (mm)	200	200	
Soil Description	Silty CLAY	Silty CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	1.98	2.00	
Field Moisture Content %	13.9	13.6	
Field Dry Density (FDD) t/m^3	1.74	1.76	
Peak Converted Wet Density t/m^3	1.99	1.97	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	2.0	2.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**99.5**	**101.5**	
Compaction Method	**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: **25-043-16**
Issue Number: 1
Date Issued: 17/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14734
Date Sampled: 05/03/2025
Dates Tested: 05/03/2025 - 14/03/2025
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: Highland Stages 1 & 2,Walloon
Material: General Fill
Material Source: Onsite

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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	S14734A	S14734B	
Test Number	112	113	
Date Tested	05/03/2025	05/03/2025	
Time Tested	10:00	10:10	
Test Request #/Location	General Fill	General Fill	
Easting	464827	464851	
Northing	6948151	6948160	
Layer / Reduced Level	Finish Level	Finish Level	
Thickness of Layer (mm)	200	200	
Soil Description	Silty CLAY	Silty CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	1.91	1.89	
Field Moisture Content %	19.2	17.6	
Field Dry Density (FDD) t/m^3	1.60	1.61	
Peak Converted Wet Density t/m^3	1.98	1.96	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	2.0	2.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**96.5**	**96.5**	
Compaction Method	**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: **25-043-17**
Issue Number: 1
Date Issued: 18/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14564
Date Sampled: 25/02/2025
Dates Tested: 25/02/2025 - 14/03/2025
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: Highland Stages 1 & 2,Walloon (FL)
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14564A	S14564B	S14564C	S14564D
Test Number	93	94	95	96
Date Tested	25/02/2025	25/02/2025	25/02/2025	25/02/2025
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	6948085	465021	465005	464981
Northing	6948055	6947917	6948114	6948139
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175
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	1.92	1.94	1.90	1.91
Field Moisture Content %	10.1	14.5	17.0	16.8
Field Dry Density (FDD) t/m^3	1.74	1.70	1.62	1.64
Peak Converted Wet Density t/m^3	2.02	2.04	1.99	1.97
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	3.0	2.5	2.5	3.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**95.0**	**95.5**	**95.5**	**97.0**
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: **25-043-17**
Issue Number: 1
Date Issued: 18/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14564
Date Sampled: 25/02/2025
Dates Tested: 25/02/2025 - 14/03/2025
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: Highland Stages 1 & 2,Walloon (FL)
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S14564E	S14564F	S14564G	S14564H
Test Number	97	98	99	100
Date Tested	25/02/2025	25/02/2025	25/02/2025	25/02/2025
Time Tested	10:20	10:25	10:30	10:35
Test Request #/Location	General Fill	General Fill	General Fill	General Fill
Easting	464999	465027	464978	464962
Northing	6948162	6948184	6947999	6948025
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	**
Field Wet Density (FWD) t/m^3	1.88	1.88	2.04	2.07
Field Moisture Content %	16.5	16.7	17.4	18.0
Field Dry Density (FDD) t/m^3	1.61	1.61	1.74	1.75
Peak Converted Wet Density t/m^3	1.92	1.98	2.04	1.99
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	3.0	1.5	1.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**97.5**	**95.0**	**100.0**	**104.0**
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: **25-043-18**
Issue Number: 1
Date Issued: 26/03/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 14809
Date Sampled: 18/03/2025
Dates Tested: 18/03/2025 - 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: Highaland Stages 1 & 2,Walloon (FL)
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S14809A	S14809B	
Test Number	115	116	
Date Tested	18/03/2025	18/03/2025	
Time Tested	10:00	10:10	
Test Request #/Location	General Fill	General Fill	
Easting	465044	465046	
Northing	6947856	6947921	
Layer / Reduced Level	Finish Level	Finish Level	
Thickness of Layer (mm)	200	200	
Soil Description	Silty CLAY	Silty CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	1.90	1.99	
Field Moisture Content %	16.0	15.0	
Field Dry Density (FDD) t/m^3	1.64	1.73	
Peak Converted Wet Density t/m^3	1.95	1.94	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	0.5	2.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**97.5**	**103.0**	
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: **25-043-19**
Issue Number: 1
Date Issued: 16/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15042
Date Sampled: 08/04/2025
Dates Tested: 08/04/2025 - 15/04/2025
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: Highland Stage 1,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15042A	S15042B	
Test Number	117	118	
Date Tested	08/04/2025	08/04/2025	
Time Tested	02:00	02:10	
Test Request #/Location	General Fill	General Fill	
Easting	465012	464991	
Northing	6947985	6947943	
Layer / Reduced Level	Finish Level	Finish Level	
Thickness of Layer (mm)	200	200	
Soil Description	Sandy CLAY	Sandy CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	2.00	2.02	
Field Moisture Content %	20.3	21.0	
Field Dry Density (FDD) t/m^3	1.66	1.67	
Peak Converted Wet Density t/m^3	2.09	2.06	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	-3.0	-3.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**96.0**	**98.0**	
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: **25-043-20**
Issue Number: 1
Date Issued: 16/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15148
Date Sampled: 12/04/2025
Dates Tested: 12/04/2025 - 15/04/2025
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: Highland Stage 1,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S15148A	S15148B	S15148C	S15148D
Test Number	119	120	121	122
Date Tested	12/04/2025	12/04/2025	12/04/2025	12/04/2025
Time Tested	09:05	07:00	08:30	08:35
Test Request #/Location	General Fill -Common Bounfdaries	General Fill -Common Bounfdaries	General Fill -Common Bounfdaries	General Fill -Common Bounfdaries
Easting	465030	465011	465013	465982
Northing	6o47923	6947856	6947921	6947861
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	2.08	2.12	2.05	2.06
Field Moisture Content %	15.0	15.2	14.8	17.5
Field Dry Density (FDD) t/m^3	1.81	1.84	1.79	1.76
Peak Converted Wet Density t/m^3	2.02	1.99	1.95	1.97
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**103.0**	**106.5**	**105.5**	**105.0**
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: **25-043-21**
Issue Number: 1
Date Issued: 23/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15161
Date Sampled: 14/04/2025
Dates Tested: 14/04/2025 - 17/04/2025
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: Highland,External Taylors Road,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15161A		
Test Number	123		
Date Tested	14/04/2025		
Time Tested	13:00		
Test Request #/Location	External Road Taylor's MC99		
Chainage (m)	35		
Location Offset (m)	CL from CL		
Layer / Reduced Level	1.4m Below FL		
Thickness of Layer (mm)	200		
Soil Description	Sandy CLAY		
Test Depth (mm)	175		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m^3	2.06		
Field Moisture Content %	19.7		
Field Dry Density (FDD) t/m^3	1.73		
Peak Converted Wet Density t/m^3	2.06		
Adjusted Peak Converted Wet Density t/m^3	**		
Moisture Variation (Wv) %	-1.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	**100.0**		
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: **25-043-22**
Issue Number: 1
Date Issued: 23/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15193
Date Sampled: 15/04/2025
Dates Tested: 15/04/2025 - 17/04/2025
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: Highland,External Taylors Road,Walloon
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15193A	S15193B	
Test Number	124	125	
Date Tested	15/04/2025	15/04/2025	
Time Tested	10:00	10:10	
Test Request #/Location	External Taylor's Road MC99	External Taylor's Road MC99	
Chainage (m)	20	40	
Location Offset (m)	CL from CL	CL from CL	
Layer / Reduced Level	1m Below FL	1m Below FL	
Thickness of Layer (mm)	200	200	
Soil Description	Silty CLAY	Silty CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	2.00	2.02	
Field Moisture Content %	19.6	19.4	
Field Dry Density (FDD) t/m^3	1.67	1.69	
Peak Converted Wet Density t/m^3	2.07	2.08	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	-2.0	-1.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**96.5**	**97.0**	
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: **25-043-23**
Issue Number: 1
Date Issued: 23/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15199
Date Sampled: 16/04/2025
Dates Tested: 16/04/2025 - 17/04/2025
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: Highland Stage 1A,Walloon (Road 1 Hole)
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15199A	S15199B	
Test Number	126	127	
Date Tested	16/04/2025	16/04/2025	
Time Tested	11:00	11:10	
Test Request #/Location	General Fill	General Fill	
Easting	465130	465134	
Northing	6947936	6947928	
Elevation (m)	58.1	58.0	
Thickness of Layer (mm)	200	200	
Soil Description	Silty CLAY	Silty CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	2.00	2.03	
Field Moisture Content %	20.5	19.9	
Field Dry Density (FDD) t/m^3	1.66	1.69	
Peak Converted Wet Density t/m^3	2.07	2.07	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	-2.0	-2.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**96.5**	**98.0**	
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: **25-043-24**
Issue Number: 1
Date Issued: 28/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15243
Date Sampled: 22/04/2025
Dates Tested: 22/04/2025 - 24/04/2025
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: Highland Stsge 1A,Walloon (Road 1 Hole 1 & 2)
Material: General Fill
Material Source: Onsite

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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	S15243A	S15243B	S15243C	S15243D
Test Number	128	129	130	131
Date Tested	22/04/2025	22/04/2025	22/04/2025	22/04/2025
Time Tested	06:30	06:35	06:40	06:45
Test Request #/Location	Internal Road 1	Internal Road 1	Internal Road 1	Internal Road 1
Easting	465057	465062	465129	465126
Northing	6948142	6948135	6947958	6947937
Elevation (m)	59.0	63.0	58.3	58.4
Thickness of Layer (mm)	200	200	200	200
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	175	175	175	175
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	2.04	2.11	2.10	2.09
Field Moisture Content %	16.6	16.2	16.7	16.6
Field Dry Density (FDD) t/m^3	1.75	1.81	1.79	1.79
Peak Converted Wet Density t/m^3	1.97	2.10	2.07	2.06
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**103.5**	**100.5**	**101.0**	**101.5**
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: **25-043-25**
Issue Number: 1
Date Issued: 28/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15252
Date Sampled: 22/04/2025
Dates Tested: 22/04/2025 - 24/04/2025
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: Highland,External Taylors Road,Walloon
Material: General Fill
Material Source: Onsite

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ql-greg
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15252A	S15252B	
Test Number	132	133	
Date Tested	22/04/2025	22/04/2025	
Time Tested	14:00	14:05	
Test Request #/Location	External Taylor's Road MC100	External Taylor's Road MC100	
Chainage (m)	560	620	
Location Offset (m)	1m Right from CL	On Centre Line	
Layer / Reduced Level	0.5m Below FL	0.4m Below FL	
Thickness of Layer (mm)	200	200	
Soil Description	Sandy CLAY	Sandy CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	2.01	2.03	
Field Moisture Content %	17.6	18.3	
Field Dry Density (FDD) t/m^3	1.71	1.72	
Peak Converted Wet Density t/m^3	2.02	2.04	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	0.5	0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**100.0**	**99.5**	
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: **25-043-26**
Issue Number: 1
Date Issued: 28/04/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15262
Date Sampled: 23/04/2025
Dates Tested: 23/04/2025 - 24/04/2025
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: Highland Taylors Rd External
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S15262A	S15262B	S15262C	S15262D
Test Number	134	135	136	137
Date Tested	23/04/2025	23/04/2025	23/04/2025	23/04/2025
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	External Taylor's Road MC100	External Taylor's Road MC100	External Taylor's Road MC100	External Taylor's Road MC100
Chainage (m)	680	650	590	540
Location Offset (m)	CL from CL	CL from CL	1m Right from CL	CL from CL
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	**	**	**	**
Test Depth (mm)	175	175	175	175
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	2.07	2.09	2.07	2.07
Field Moisture Content %	18.6	19.7	18.0	17.6
Field Dry Density (FDD) t/m^3	1.75	1.75	1.75	1.76
Peak Converted Wet Density t/m^3	2.08	2.08	2.07	2.09
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.0	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**99.5**	**100.5**	**100.0**	**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

Material Test Report

Report Number: **25-043-27**
Issue Number: 1
Date Issued: 07/05/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15312
Date Sampled: 29/04/2025
Dates Tested: 29/04/2025 - 06/05/2025
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: Highland Stage 1 External Taylors Road
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S15312A	S15312B	S15312C	S15312D
Test Number	138	139	140	141
Date Tested	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Time Tested	14:00	14:05	14:10	14:15
Test Request #/Location	Taylor's Road MC100	Taylor's Road MC100	Taylor's Road MC99	Taylor's Road MC99
Chainage (m)	700	760	30	60
Location Offset (m)	CL	CL	CL	CL
Layer / Reduced Level	0.5m Below FL	0.5m Below FL	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	2.09	2.08	2.05	2.06
Field Moisture Content %	15.2	16.2	16.9	16.0
Field Dry Density (FDD) t/m^3	1.81	1.79	1.75	1.78
Peak Converted Wet Density t/m^3	2.03	2.05	2.06	2.06
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	2.5	3.0	3.0	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**103.0**	**101.5**	**99.5**	**100.0**
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: **25-043-28**
Issue Number: 1
Date Issued: 13/05/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15355
Date Sampled: 01/05/2025
Dates Tested: 01/05/2025 - 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: Highland Stage 1,Taylors Rd External Works
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S15355A	S15355B	S15355C	S15355D
Test Number	142	143	144	145
Date Tested	01/05/2025	01/05/2025	01/05/2025	01/05/2025
Time Tested	06:30	06:35	06:40	06:45
Test Request #/Location	Taylor's Rd External MC100	Taylor's Rd External MC100	Taylor's Rd External MC100	Taylor's Rd External MC100
Chainage (m)	740	780	800	840
Location Offset (m)	1m Right from CL	On Centre Line	On Centre Line	1m Right from CL
Layer / Reduced Level	0.8m Below FL	0.3m Below FL	0.3m Below FL	0.3m Below FL
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175	175
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	1.96	2.02	2.09	2.06
Field Moisture Content %	18.4	18.1	17.4	15.7
Field Dry Density (FDD) t/m^3	1.66	1.71	1.78	1.78
Peak Converted Wet Density t/m^3	2.03	2.05	2.06	2.02
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	2.5	1.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**96.5**	**98.5**	**101.5**	**102.0**
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: **25-043-29**
Issue Number: 1
Date Issued: 20/05/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15449
Date Sampled: 07/05/2025
Dates Tested: 07/05/2025 - 16/05/2025
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: Highland Stage 1,Walloon (Smec Redesign)
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15449A	S15449B	
Test Number	146	147	
Date Tested	07/05/2025	07/05/2025	
Time Tested	12:50	13:00	
Test Request #/Location	General Fill Lot 78	General Fill Lot 69	
Easting	8m Off North Boundary	6m Off North Boundary	
Northing	4m Off East Boundary	6m Off West Boundary	
Layer / Reduced Level	Finish Level	Finish Level	
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^3	2.05	2.09	
Field Moisture Content %	16.4	13.7	
Field Dry Density (FDD) t/m^3	1.77	1.84	
Peak Converted Wet Density t/m^3	1.94	1.94	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	4.5	4.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**106.0**	**107.5**	
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: **25-043-30**
Issue Number: 1
Date Issued: 05/06/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15834
Date Sampled: 28/05/2025
Dates Tested: 28/05/2025 - 04/06/2025
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: Highland Stage 1D,Retaining Wall Backfill
Material: General Fill
Material Source: Onsite

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Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S15834A	S15834B	
Test Number	148	149	
Date Tested	28/05/2025	28/05/2025	
Time Tested	13:03	13:10	
Test Request #/Location	Retaining Wall Backfill	Retaining Wall Backfill	
Easting	464887	464903	
Northing	6948029	6948001	
Layer / Reduced Level	1.5m Below FL	1m Below FL	
Thickness of Layer (mm)	200	200	
Soil Description	Sandy CLAY	Sandy CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	1.93	1.93	
Field Moisture Content %	13.0	13.1	
Field Dry Density (FDD) t/m^3	1.71	1.70	
Peak Converted Wet Density t/m^3	1.98	1.99	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	2.5	3.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**97.5**	**97.0**	
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: **25-043-31**
Issue Number: 1
Date Issued: 06/06/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 15830
Date Sampled: 27/05/2025
Dates Tested: 28/05/2025 - 05/06/2025
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: Highland Stage 1A,Walloon
Material: General Fill
Material Source: Onsite

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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	S15830A	S15830B	
Test Number	150	151	
Date Tested	27/05/2025	27/05/2025	
Time Tested	11:00	11:10	
Test Request #/Location	General Fill	General Fill	
Easting	465125	465132	
Northing	6947951	6947950	
Layer / Reduced Level	Finish Level	Finish Level	
Thickness of Layer (mm)	200	200	
Soil Description	Sandy CLAY	Sandy CLAY	
Test Depth (mm)	175	175	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	2.06	2.03	
Field Moisture Content %	18.9	19.6	
Field Dry Density (FDD) t/m^3	1.74	1.70	
Peak Converted Wet Density t/m^3	2.08	2.07	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	2.5	2.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**99.0**	**98.0**	
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: **25-043-32**
Issue Number: 1
Date Issued: 13/06/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 16091
Date Sampled: 12/06/2025
Dates Tested: 12/06/2025 - 12/06/2025
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: Highland Stage 1,Walloon
Material: General Fill
Material Source: Onsite

Qualtest Laboratory Pty Ltd
Brisbane Laboratory
2 / 40 Boyland Ave Cooper Plains QLD 4108
Phone: 0417 011 515
Email: greg@qualtestgeo.com

Accredited for compliance with ISO/IEC 17025 - Testing

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	S16091A	S16091B	S16091C	S16091D
Test Number	152	153	154	155
Date Tested	12/06/2025	12/06/2025	12/06/2025	12/06/2025
Time Tested	07:00	07:05	07:15	07:20
Test Request #/Location	General Fill Batter 1A	General Fill Batter 1A	General Fill Re Wall 1D	General Fill Re Wall 1D
Easting	465150	465144	464877	464909
Northing	6947908	6947954	6948047	6947989
Layer / Reduced Level	Finish Level	Finish Level	Finish Level	Finish Level
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY	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^3	1.98	2.03	2.02	1.99
Field Moisture Content %	16.0	16.0	16.5	16.0
Field Dry Density (FDD) t/m^3	1.70	1.75	1.73	1.72
Peak Converted Wet Density t/m^3	2.04	2.11	2.11	2.10
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	-1.0	-1.0	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**97.0**	**96.0**	**95.5**	**95.0**
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: **25-043-33**
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason: *Location Amended*
Date Issued: 24/06/2025
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: LUKE SANDERS
Project Number: 25-043
Project Name: LEVEL ONE SUPERVISION
Project Location: HIGHLAND ESTATE WALLOON - BEW
Client Reference: 2574-003
Work Request: 16223
Date Sampled: 18/06/2025
Dates Tested: 18/06/2025 - 20/06/2025
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: Highland,Walloon (1A Dam Backfill)
Material: General Fill
Material Source: Onsite

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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Josh Fowler
Field Technician
NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S16223A	S16223B	S16223C
Test Number	156	157	158
Date Tested	18/06/2025	18/06/2025	18/06/2025
Time Tested	11:00	11:05	11:10
Test Request #/Location	General Fill 1A Dam	General Fill 1A Dam	General Fill 1A Dam
Easting	465117	465112	465118
Northing	6948107	6948109	6948112
Layer / Reduced Level	2m Below FL	2m Below FL	1.5m Below FL
Thickness of Layer (mm)	200	200	200
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	175	175	175
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	2.04	2.08	2.07
Field Moisture Content %	18.6	18.8	17.9
Field Dry Density (FDD) t/m^3	1.72	1.75	1.76
Peak Converted Wet Density t/m^3	2.05	2.05	2.02
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	-0.5	0.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**99.5**	**101.0**	**102.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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