

> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# Level One Report AS3798

Client: Shadforth

**Project:** Village Green Stages 6 & 7 **Address:** Palmview, Qld 4553

**Job No.** J21/72 **Docket No.** 41679



Version	Date	Author	Initials	Reviewer	Initials
1	12/01/2022	LW	Line	DW	DANA

Form No: W169 - Version 4 (14/05/2021)











> Office: 07 5496 6715 Fax: 07 5496 6717

**ABN:** 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# **Table of Contents**

1.0	Introduction	Page 1
2.0	Site Description	Page 1
3.0	Foundation Preparation	Page 1
3.1	Site Stripping	
3.2	Proof Rolling	
4.0	Controlled Filling	Page 2
5.0	Compaction Control Testing	Page 2
6.0	Field Density Results	Page 2
7.0	Report on Filling Operations	Page 3
8.0	Notes	Page 3
	Appendix 1 – General Layout Plan	
	Appendix 2 – Field Density Reports	
	<b>Appendix 3</b> – Typical Site Conditions	

CONSTRUCTION MATERIALS TESTING

Appendix 4 – Site Information



> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

#### 1.0 Introduction

Wagner Soil Testing has recently completed a Level One Overview of Earthworks, in accordance with the requirements of **AS3798** – **"Guidelines on Earthworks for Commercial and Residential Developments"** for Village Green Stages 6 & 7, Palmview.

Controlled fill (as defined in AS 2870) was placed by Shadforth. Stripping instructions, proof rolling, and compaction control testing was carried out by Wagner Soil Testing (on a fulltime basis) during all earthwork's operations. Our onsite supervision component excludes assessments of fill quality and engineering properties that are outside the requirements of AS3798 – 2007, including CBR values and soil reactivity.

#### 2.0 Site Description

The site is located at Village Green Boulevard, Palmview, Qld 4553. The general location of the site is shown in the attached site plans (Appendix 1). The site is bound by ongoing residential development & Village Green Boulevard.

#### 3.0 Foundation Preparation

#### 3.1 Site Stripping

Vegetation, topsoil, and organic rich materials were stripped and stockpiled onsite prior to the commencement of filling operations. As a safety factor several test pits were excavated in the proposed fill area to assess subsurface conditions & no significant issues were noted during this phase.

#### 3.2 Proof Rolling

All stripped areas were proof rolled prior to any fill placement. Any compressible areas with apparent movement were excavated to a firm base before any fill being placed.

### 4.0 Controlled Filling

Fill materials (onsite / imported) were compacted using a medium sized pad foot roller in layers not exceeding 0.3m loose. The natural ground in the areas of filling generally comprised of Silty Sand (SM) & Silty Sandy Clay (CI – CH). The fill material used was generally as above. Moisture contents of all fill placed was monitored by Wagner Soil Testing. Total volumes of fill reached 23,139m³.



> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

### 5.0 Compaction Control Testing

Compaction Control Testing was carried out by Wagner Soil Testing. Testing was carried out in accordance with the requirements of **AS3798 Table 5.1 (Minimum Relative Compaction)** and **Table 8.1 (Frequency of Field Density Tests).** During the works, 51 (fifty-one) Field Dry Densities were carried out on fill materials together with Dynamic Cone Penetrometers (DCP's) over the filled zones periodically & at the completion of earthworks operations to help quantify bearing capacities.

### 6.0 Field Density Results

All Nuclear Field Densities carried out on the fill indicated Density Ratios greater than the specified requirement of 95% (standard compaction) & AS3798 Table 5.1.

### 7.0 Report on Filling Operations

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".

#### 8.0 Notes

Certified / Controlled (Level 1) Fill is only an assurance of its density. There are sites where long-term consolidations of fill can occur, unrelated to its actual density. Sites where fill has been placed over inferior material and sites where the depth of controlled fill varies dramatically over short distances are sites where differential consolidations must be considered. Although all Field Densities carried out reached density ratios greater than 95% as required, some material still may have bearing ratios below 100kPa as per AS2870 – Residential Slabs & Footings depending on material composition, and unfavourable site classifications and low subgrade design strengths still may be encountered.

All compacted fill is subject to secondary (creep) settlement, which is relational to the depth of the fill. Estimated secondary settlement may be of the order of 1% to 2% of the total fill height over 15 years. There is a possibility that additional fill has been placed after the date of the last field density test or at times when Wagner Soil Testing has not been notified that filling operations are in progress. The installation of services may cause disruption of the compacted fill.

Unless otherwise stated, Level 1 Certification does not address trench backfill operations, batter slope stability, retaining wall construction, global stability analysis, acid sulfate testing and or management. The "supervision" component of this Level 1 Report is not NATA endorsed. Wagner Soil Testing must be contacted if any site levels are modified whatsoever. It is the client's responsibility to maintain site drainage after the issue of this report.

A full geotechnical site investigation / classification and foundation design for the specific ground conditions should be carried out by suitably qualified or experienced personnel prior to building. This service can be provided, if required, by contacting Wagner Soil Testing.



> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

#### Constraints:

This report was produced for the sole use of Shadforth. This report should not be used by or depended upon for other projects or purposes on the same or other projects or by a third party. In the preparation of this report Wagner Soil Testing has relied upon information provided by the client and or their agents.

The results provided in this report are indicative of the subsurface conditions on the site only at the specific sampling or testing locations, and then only to the depths investigated along with the time the work was carried out. It is known that subsurface conditions can suddenly change due to irregular geological processes and as a result of human influences. Such changes may occur after Wagner Soil Testing's field testing has been completed.

Certain ground conditions and the materials behaviour observed or contained at the test locations may alter from those which may be encountered elsewhere on the site. Should variations in subsurface conditions be encountered, then additional advice should be sought from Wagner Soil Testing and if required, amendments made.

Wagner Soil Testing cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome, or conclusion given in this report.

To establish a geotechnical model as per AS1726-2017-5.2 we require extra testing. No differential settlement estimates have been calculated for this site.

For further technical support regarding this Geotechnical Report please contact Mr. Dean Wagner of Wagner Soil Testing.

AH

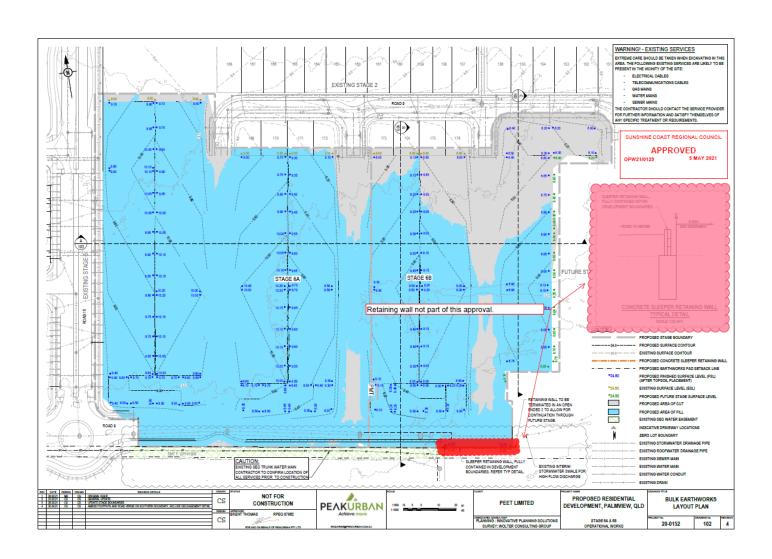
Dean Wagner
Managing Director
Wagner Soil Testing



> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# Appendix 1 – General Layout Plan – Stage 6A & 6B



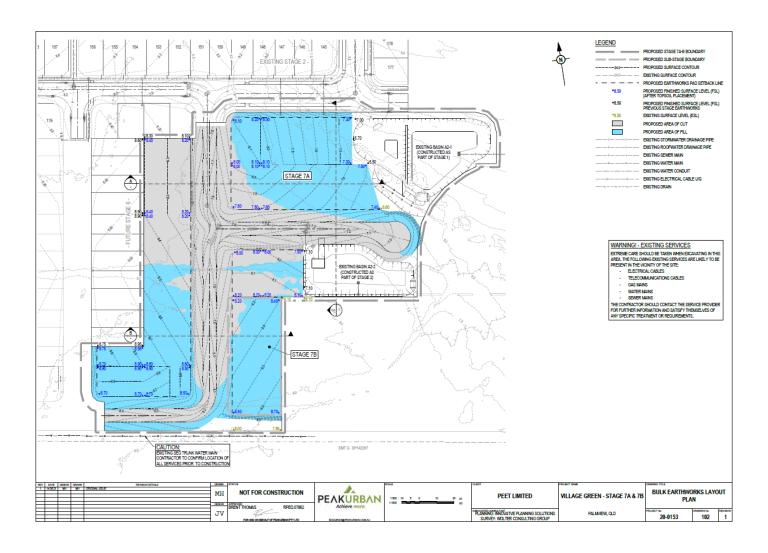


> Office: 07 5496 6715 Fax: 07 5496 6717

ABN: 49 416 679 791 Email: admin@wagnersoiltesting.com.au

Website: www.wagnersoiltesting.com.au

Appendix 1 – General Layout Plan – Stage 7A & 7B



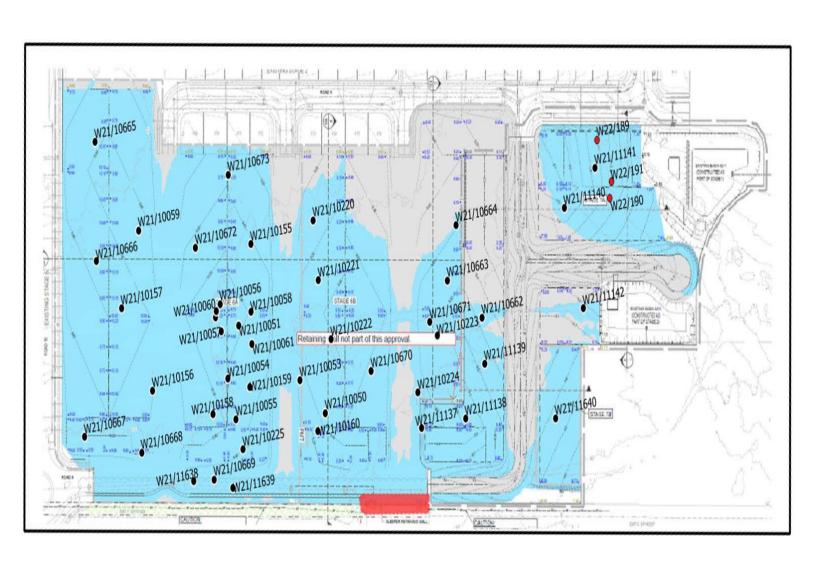


> Office: 07 5496 6715 Fax: 07 5496 6717

ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# Appendix 1A – Test Location Layout Plan



CONSTRUCTION

**MATERIALS** 

**TESTING** 



> Office: 07 5496 6715 Fax: 07 5496 6717

ABN: 49 416 679 791 Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# Appendix 2 – Field Density Reports





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	d		Job No:	J21/72
Client Address:	99 Sandalwood Lane, F	orest Gler	Qld 4556	Date:	26-Jul-21
Project:	Village Green Stages 6	& 7 BEW		Tested by:	SW
Location:	Village Green Boulevar	d - Palmvie	ew, Qld	Checked:	LW
Report Number:	1	Page	1 of 1	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5	5.1.1		
Sample Method	Earthworks Layer (Co		1.2.1 (6.4(b))	
Lab Number	W21/10050	W21/10051	W21/10052	
Test Location	E: 506983	E: 506930	E: 506915	
	N: 7041861	N: 7041911	N: 7041917	
	1st Lift	1st Lift	1st Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	26-Jul-21	26-Jul-21	26-Jul-21	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	2.08	2.06	2.11	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.11	2.11	2.15	
Peak Added Moisture (%)	+0.2	+2.4	+0.3	
Moisture Correction (%)	+0.3	+2.6	+0.4	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	98.5	97.5	98.5	
MOISTURE VARIATION (%)				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction Remarks	95%	95%	95%	
Remarks	Dogket #39437			



Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3

Date 24/08/2021

23/12/2020

TESTING





Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

### REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd			Job No:	J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556		Date:	28-Jul-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW		Tested by:	SW
Location:	Village Green Boulevard	d - Palmvie	w, Qld	Checked:	LW
Report Number:	2	Page	1 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5	5.1,1		
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))	
Lab Number	W21/10053	W21/10054	W21/10055	
Test Location	E: 506968	E: 506920	E: 506923	
	N: 7041879	N: 7041887	N: 7041867	
	2nd Lift	2nd Lift	2nd Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	28-Jul-21	28-Jul-21	28-Jul-21	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	2.24	2.09	2.18	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.19	2.15	2.18	
Peak Added Moisture (%)	+2.2	+2.2	+2.2	
Moisture Correction (%)	+2.4	+2.4	+2.4	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	102.5	97.0	100.0	
WOISTURE VARIATION (%)				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks		/		
	Docket #39439			
	/			



Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95

Version: 3

23/12/2020





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au Web: www.wagnersoiltesting.com.au

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Lt	d		Job No:	J21/72
Client Address:	99 Sandalwood Lane, I	Forest Gler	n Qld 4556	Date:	28-Jul-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW		Tested by:	SW
Location:	Village Green Bouleva	Village Green Boulevard - Palmview, Qld		Checked:	LW
Report Number:	3	Page	2 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5			
Sample Method	Earthworks Layer (Co		1.2.1 (6.4(b))	
Lab Number	W21/10056	W21/10057	W21/10058	
Test Location	E: 506919	E: 506918	E: 506939	
	N: 7041923	N: 7041910	N: 7041916	
	1st Lift	3rd Lift	2nd Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	28-Jul-21	28-Jul-21	28-Jul-21	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	2.07	2.12	2.17	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.15	2.17	2.20	
Peak Added Moisture (%)	+2.1	+2.2	+2.3	
Moisture Correction (%)	+2.3	+2.4	+2.5	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	96.5	97.5	99.0	
O Toronto Toronto	Oton doub	Standard	Standard	
Compaction Type	Standard	95%	95%	
Degree of Compaction	95%	95%	9070	
Remarks	Docket #39439			
	2001001100100			

NATA

Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95

Version: 3

23/12/2020





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Lt	d		Job No:	J21/72
Client Address:	99 Sandalwood Lane,	Forest Gler	Qld 4556	Date:	29-Jul-21
Project:	Village Green Stages 6	/illage Green Stages 6 & 7 BEW			LW
Location:	Village Green Bouleva	Village Green Boulevard - Palmview, Qld		Checked:	DW
Report Number:	4	Page	1 of 1	Order No:	Hayden G

mpact) AS 1289 W21/10060 E: 506916 N: 7041920	1.2.1 (6.4(b))  W21/10061  E: 506938		
W21/10060 E: 506916			
	E: 506938		
N: 7041920			
	N: 7041901		
H: 11m	H: 10m		
Allotment Fill	Allotment Fill		
Onsite	Onsite		
175	175		
200	200		
29-Jul-21	29-Jul-21		
After Compaction	After Compaction		
2.02	2.00		
N/A	N/A		
2.03	2.03		
+0.1	+2.2		
+0.2	+2.5		
19.0	19.0		
0.0	0.0		
99.5	98.5		
	165 A 1875 A		
Standard	Standard		
95%	95%		
Degree of Compaction 95% 95% 95% 95%			
Docket #40804			
	Standard 95% Docket #40804		



Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3

RIALS TESTING

Date 24/08/2021

23/12/2020





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	t		Job No:	J21/72
Client Address:	99 Sandalwood Lane, F	orest Gler	n Qld 4556	Date:	2-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:	Village Green Boulevar	d - Palmvie	ew, Qld	Checked:	LW
Report Number:	5	Page	1 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5		
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))
Lab Number	W21/10155	W21/10156	W21/10157
Test Location	E: 506943	E: 506944	E: 506945
	N: 7041948	N: 7041889	N: 7041931
	2nd Lift	2nd Lift	2nd Lift
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	2-Aug-21	2-Aug-21	2-Aug-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	2.09	2.00	1.96
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.11	2.06	2.05
Peak Added Moisture (%)	+2.3	+0.1	+2.3
Moisture Correction (%)	+2.5	+0.2	+2.6
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	99.0	97.5	95.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	4		
	Docket #37736		

NATA

Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95

Version: 3

23/12/2020





**Phone:** 07 5496 6715 **Mobile:** 0438 924 637 **Fax:** 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Lt	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane,	Forest Gler	Qld 4556	Date:	2-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:	Village Green Bouleva	/illage Green Boulevard - Palmview, Qld			LW
Report Number:	6	Page	2 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1				
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))		
Lab Number	W21/10158	W21/10159	W21/10160		
Test Location	E: 506908	E: 506934	E: 506977		
	N: 7041948	N: 7041889	N: 7041853		
	4th Lift	3rd Lift	3rd Lift		
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill		
Material Source	Onsite	Onsite	Onsite		
Depth Tested	175	175	175		
Layer Thickness	200	200	200		
Date Tested	2-Aug-21	2-Aug-21	2-Aug-21		
Material Sampled	After Compaction	After Compaction	After Compaction		
Test Results					
Insitu Wet Density (t/m³)	2.10	2.09	2.00		
Insitu Moisture Content (%)	N/A	N/A	N/A		
PCWD (t/m³)	2.16	2.13	2.06		
Peak Added Moisture (%)	+2.2	+2.5	+2.2		
Moisture Correction (%)	+2.4	+2.7	+2.5		
Retaining Seive (mm)	19.0	19.0	19.0		
Percentage Oversize (wet)	0.0	0.0	0.0		
HILF DENSITY RATIO (%)	97.5	98.0	97.0		
MOISTURE VARIATION (%)					
Compaction Type	Standard	Standard	Standard		
Degree of Compaction	95%	95%	95%		
Remarks	3070 3070				
Tomano	Docket #37736				
		<del>/</del>			



Date 24/08/2021

Authorised Signatory
Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95

Version: 3

23/12/2020





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556			4-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:					LW
Report Number:	7	Page	1 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co	mpact) AS 1289	1.2.1 (6.4(b))	
Lab Number	W21/10220	W21/10221	W21/10222	
Test Location	E: 506986	E: 506986	E: 506991	
	N: 7041953	N: 7041924	N: 7041895	
	Final Level	Final Level	Final Level	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	4-Aug-21	4-Aug-21	4-Aug-21	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	1.96	2.00	1.97	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.06	2.06	2.06	
Peak Added Moisture (%)	+2.3	+0.2	+0.3	
Moisture Correction (%)	+2.6	+0.3	+0.4	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	95.5	97.0	96.0	
MOISTURE VARIATION (%)				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks	D1			
	Docket #37740			
		/		

NATA

Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3 23/12/2020

CONSTRUCTION MATERIALS

**TESTING** 





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd			Job No:	J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556			4-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:				Checked:	LW
Report Number:	8	Page	2 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co		1.2.1 (6.4(b))	
Lab Number	W21/10223	W21/10224	W21/10225	
Test Location	E: 506926	E: 507062	E: 507046	
	N: 7041852	N: 7041886	N: 7041861	
	Final Level	1st Lift	1st Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	4-Aug-21	4-Aug-21	4-Aug-21	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	2.04	2.02	2.01	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.08	2.09	2.08	
Peak Added Moisture (%)	+2.2	+0.2	+0.2	
Moisture Correction (%)	+2.5	+0.3	+0.3	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	98.0	96.5	96.5	
MOISTURE VARIATION (%)			E 23 (211 - 11 / 2	
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks				
	Docket #37740			



Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3

23/12/2020





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Lt	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, I	99 Sandalwood Lane, Forest Glen Qld 4556			6-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:					LW
Report Number:	9	Page	1 of 2	Order No:	Hayden G

AS 1289 5.8.1/5.7.1/5.1.1			
Earthworks Layer (Co		1.2.1 (6.4(b))	
W21/10662		W21/10664	
E: 507093	E: 507072	E: 507081	
N: 7041890	N: 7041911	N: 7041936	
2nd Lift	2nd Lift	2nd Lift	
Allotment Fill	Allotment Fill	Allotment Fill	
Onsite	Onsite	Onsite	
175	175	175	
200	200	200	
6-Aug-21	6-Aug-21	6-Aug-21	
After Compaction	After Compaction	After Compaction	
2.00		2.00	
N/A	N/A	N/A	
2.02	2.01	2.01	
+2.3	+3.3	+2.3	
+2.6	+3.7	+2.6	
19.0	19.0	19.0	
0.0	0.0	0.0	
99.0	99.0	99.0	
Standard	Standard	Standard	
95%	95%	95%	
	Docket #37739		
/		<b>+</b>	
	W21/10662 E: 507093 N: 7041890 2nd Lift  Allotment Fill  Onsite  175 200 6-Aug-21 After Compaction  2.00 N/A 2.02 +2.3 +2.6  19.0 0.0  Standard	W21/10662       W21/10663         E: 507093       E: 507072         N: 7041890       N: 7041911         2nd Lift       2nd Lift         Allotment Fill       Allotment Fill         Onsite       Onsite         175       175         200       200         6-Aug-21       6-Aug-21         After Compaction       After Compaction         2.00       1.99         N/A       N/A         2.02       2.01         +2.3       +3.3         +2.6       +3.7            19.0       19.0         0.0       0.0         99.0       99.0         Standard       Standard         95%       95%	



Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3 23/12/2020





Web: www.wagnersoiltesting.com.au

Phone: 07 5496 6715 Mobile: 0438 924 637

Fax: 07 5496 6717 Email: admin@wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, F	orest Gler	Qld 4556	Date:	6-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:					LW
Report Number:	10	10 Page 2 of 2			

Test Methods		AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co		1.2.1 (6.4(b))		
Lab Number	W21/10665	W21/10666	W21/10667		
Test Location	E: 506845	E: 506839	E: 506821		
	N: 7042012	N: 7041956	N: 7041874		
	Final Level	Final Level	Final Level		
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill		
Material Source	Onsite	Onsite	Onsite		
Depth Tested	175	175	175		
Layer Thickness	200	200	200		
Date Tested	6-Aug-21	6-Aug-21	6-Aug-21		
Material Sampled	After Compaction	After Compaction	After Compaction		
Test Results					
Insitu Wet Density (t/m³)	2.11	2.12	2.06		
Insitu Moisture Content (%)	N/A	N/A	N/A		
PCWD (t/m³)	2.13	2.18	2.10		
Peak Added Moisture (%)	+0.2	+2.2	+2.2		
Moisture Correction (%)	+0.3	+2.4	+2.4		
Retaining Seive (mm)	19.0	19.0	19.0		
Percentage Oversize (wet)	0.0	0.0	0.0		
r crocinage everage (week)	0.0	5.0			
HILF DENSITY RATIO (%)	99.0	97.0	98.0		
MOISTURE VARIATION (%)					
Compaction Type	Standard	Standard	Standard		
Degree of Compaction	95%	95%	95%		
Remarks		N.			
	/ Docket #37739				

NATA

Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3

23/12/2020

Date 24/08/2021

CONSTRUCTION

**MATERIALS** 

**TESTING** 





Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556			10-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:					LW
Report Number:	11	Page	1 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))	
Lab Number	W21/10668	W21/10669	W21/10670	
Test Location	E: 506858	E: 506905	E: 507016	
	N: 7041861	N: 7041841	N: 7041876	
	Final Level	Final Level	Final Level	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Blended	Blended	Blended	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	10-Aug-21	10-Aug-21	10-Aug-21	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	2.08	1.99	1.97	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.04	2.02	2.02	
Peak Added Moisture (%)	+2.3	+0.3	+0.3	
Moisture Correction (%)	+2.6	+0.4	+0.4	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	102.0	98.5	97.0	
MOISTURE VARIATION (%)				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks		,	***	
	Docket #37744			
		/		
	<del></del>	1		

NATA

Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3

23/12/2020





> **Phone:** 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au Web: www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, I	99 Sandalwood Lane, Forest Glen Qld 4556			10-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:					LW
Report Number:	12	Page	2 of 2	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5				
Sample Method	Earthworks Layer (Co		1.2.1 (6.4(b))		
Lab Number	W21/10671	W21/10672	W21/10673		
Test Location	E: 507058	E: 506906	E: 506932		
	N: 7041893	N: 7041952	N: 7041983		
	Final Level	Final Level	Final Level		
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill		
Material Source	Blended	Blended	Blended		
Depth Tested	175	175	175		
Layer Thickness	200	200	200		
Date Tested	10-Aug-21	10-Aug-21	10-Aug-21		
Material Sampled	After Compaction	After Compaction	After Compaction		
Test Results					
Insitu Wet Density (t/m³)	1.96	1.96	1.98		
Insitu Moisture Content (%)	N/A	N/A	N/A		
PCWD (t/m³)	2.01	2.01	2.01		
Peak Added Moisture (%)	+0.1	+0.4	+0.1		
Moisture Correction (%)	+0.2	+0.5	+0.2		
Retaining Seive (mm)	19.0	19.0	19.0		
Percentage Oversize (wet)	0.0	0.0	0.0		
HILF DENSITY RATIO (%)	97.5	97.5	98.5		
MOISTURE VARIATION (%)					
Compaction Type	Standard	Standard	Standard		
Degree of Compaction	95%	95%	95%		
Remarks	1				
	Docket #37744				
		/			



**Authorised Signatory** Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

23/12/2020 Form No: 95 Version: 3

CONSTRUCTION





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au Web: www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556			11-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:					LW
Report Number:	13	Page	1 of 2	Order No:	Hayden G

Earthworks Layer (Co		1.2.1 (6.4(b))
		W21/11139
E: 507046		E: 507092
N: 70418844		N: 7041868
Final Level		Final Level
Allotment Fill		Allotment Fill
Imported		Imported
		175
200	200	200
11-Aug-21	11-Aug-21	11-Aug-21
After Compaction	After Compaction	After Compaction
1.92	1.93	1.93
N/A	N/A	N/A
2.02	2.03	2.02
+2.2	+0.4	+0.2
+2.5	+0.5	+0.3
19.0	19.0	19.0
0.0	0.0	0.0
95.5	95.0	95.5
Standard	Standard	Standard
		95%
9070	30 /0	3570
Pocket #37750		
	/	
	Earthworks Layer (Co W21/11137 E: 507046 N: 70418844 Final Level Allotment Fill Imported 175 200 11-Aug-21 After Compaction  1.92 N/A 2.02 +2.2 +2.5	W21/11137         W21/11138           E: 507046         E: 507076           N: 70418844         N: 7041844           Final Level         Allotment Fill           Imported         Imported           175         175           200         200           11-Aug-21         11-Aug-21           After Compaction         After Compaction           1.92         1.93           N/A         N/A           2.02         2.03           +2.2         +0.4           +2.5         +0.5           19.0         19.0           0.0         0.0           Standard         Standard           95%         95%

**Authorised Signatory** Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Version: 3 Form No: 95

CONSTRUCTION

23/12/2020





Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556			11-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:					LW
Report Number:	14	Page	2 of 2	Order No:	Hayden G

AS 1289 5.8.1/5.7.1/5.1.1			
	1.2.1 (6.4(b))		
W21/11141	W21/11142		
E: 507177	E: 507161		
N: 7041933	N: 7041884		
1st Lift	1st Lift		
Allotment Fill	Allotment Fill		
Imported	Imported		
175	175		
200	200		
11-Aug-21	11-Aug-21		
n After Compaction	After Compaction		
1.92	1.93		
N/A	N/A		
2.02	2.02		
+2.4	+0.1		
+2.7	+0.2		
19.0	19.0		
0.0	0.0		
	007		
95.0	95.5		
Standard	Standard		
95%	95%		
7			
Docket #37750			
#			
	Docket #37750		



Date 24/08/2021

Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95

Version: 3

23/12/2020





**Phone:** 07 5496 6715 **Mobile:** 0438 924 637 **Fax:** 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556			18-Aug-21
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:	Village Green Boulevar	Village Green Boulevard - Palmview, Qld			JJ
Report Number:	15	Page	1 of 1	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5		
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))
Lab Number	W21/11638	W21/11639	W21/11640
Test Location	E: 506891	E: 506917	E: 507136
	N: 7041842	N: 7041835	N: 7041835
	0.3m Below FL	0.3m Below FL	1st Lift
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	18-Aug-21	18-Aug-21	18-Aug-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	2.01	2.03	1.99
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.06	2.07	2.06
Peak Added Moisture (%)	+4.3	+4.2	+1.8
Moisture Correction (%)	+4.6	+4.5	+2.0
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	97.5	98.0	96.5
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks		Docket #41205	
	1	DUCKEL #41205	

NATA

Authorised Signatory
Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3 23/12/2020

CONSTRUCTION

**MATERIALS** 

**TESTING** 

Date \_ 2/09/2021





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

### REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, F	99 Sandalwood Lane, Forest Glen Qld 4556			13-Jan-22
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:	Village Green Boulevar	Village Green Boulevard - Palmview, Qld			LW
Report Number:	16	Page	1 of 2	Order No:	BJ

Test Methods	AS 1289 5.8.1/5.7.1/5	5.1.1	
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))
Lab Number	W22/187	W22/188	W22/189
Test Location	E: 507185	E: 507187	E: 507180
C -1- D : - D 1-C11	N: 7041933	N: 7041941	N: 7041962
Swale Drain Backfill	0.5m Below FL	Final Level	0.6m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	13-Jan-22	13-Jan-22	13-Jan-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	1.93	2.00	1.91
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	1.96	2.03	1.95
Peak Added Moisture (%)	+2.2	+2.2	+2.4
Moisture Correction (%)	+2.5	+2.5	+2.7
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	98.5	99.0	97.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks		/ Doolest #44044	
	Docket #41614		
		1	

NATA

Authorised Signatory Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95

Version: 3

23/12/2020

Date 17/01/2022

CONSTRUCTION

**MATERIALS** 

**TESTING** 





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

**Email:** admin@wagnersoiltesting.com.au **Web:** www.wagnersoiltesting.com.au

# REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Lt	Shadforth's Civil Pty Ltd			J21/72
Client Address:	99 Sandalwood Lane, I	99 Sandalwood Lane, Forest Glen Qld 4556			13-Jan-22
Project:	Village Green Stages 6	Village Green Stages 6 & 7 BEW			SW
Location:	Village Green Bouleva	Village Green Boulevard - Palmview, Qld			LW
Report Number:	17	Page	2 of 2	Order No:	BJ

Test Methods	AS 1289 5.8.1/5.7.1/5		
Sample Method	Earthworks Layer (Co		1.2.1 (6.4(b))
Lab Number	W22/190	W22/191	W22/192
Test Location	E: 507185	E: 507187	E: 507180
0 1 D : D 1 CH	N: 7041933	N: 7041941	N: 7041962
Swale Drain Backfill	1.0m Below FL	0.5m Below FL	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	13-Jan-22	13-Jan-22	13-Jan-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	2.01	1.91	1.98
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.02	1.96	2.00
Peak Added Moisture (%)	+2.2	+0.1	+1.2
Moisture Correction (%)	+2.5	+0.2	+1.4
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	99.5	98.0	98.5
MOISTURE VARIATION (%)		A M. TANG. M. S. W.	
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks			
	// Docket #41614		
		<del>//</del>	

NATA

Authorised Signatory
Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Form No: 95 Version: 3 23/12/2020

CONSTRUCTION

V 01010111. C

**MATERIALS** 

**TESTING** 

Date 17/01/2022



> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# Appendix 3 – Typical Site Conditions





> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# Appendix 3 – Typical Site Conditions





> Office: 07 5496 6715 Fax: 07 5496 6717

ABN: 49 416 679 791 Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

# Appendix 4 – Site Information



Information

PO Box 171, Wamuran Qld 4512 296 Old North Road, Wamuran Qld 4512

> Office: 07 5496 6715 Fax: 07 5496 6717

ABN: 49 416 679 791 Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Important Information about your Report

As a client of Wagner Soil Testing Pty Ltd you should know that site subsurface conditions cause more construction problems than any other factor. These notes have been provided to help you interpret and understand the limitations of your report.

#### Your report is project specific

Your report has been developed on the basis of your unique project specific requirements as understood by Wagner Soil Testing and applies only to the site investigated. Project criteria typically include the general nature of the project; its size and configuration; the location of any structure on the site; other site improvements; the presence of underground utilities; and the additional risk imposed by scope-of-surface limitations imposed by the client. Your report should not be used if there are any changes to the project without first asking Wagner Soil Testing to assess how factors that changed subsequent to the date of the report affect the report's recommendations. Wagner Soil Testing cannot accept responsibility for problems that may occur due to changed factors if they are not consulted. Our report does not take into account any existing filled ground or any other unforeseen subsurface conditions that may change anticipated site classification.

#### Subsurface conditions can change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. Do not rely on a geotechnical engineering report whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. Always contact Wagner Soil Testing before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

#### Interpretation of factual data

Site assessment identifies actual subsurface conditions only at those points where samples are taken and when they are taken. Data derived from literature and external data source review, sampling and subsequent laboratory testing are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact on the proposed development and recommended actions. Actual conditions may differ from those inferred to exist, because no professional, no matter how qualified, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions. For this reason, owners

should retain the services of Wagner Soil Testing through the development stage, to identify variances, conduct additional tests if required, and recommend solutions to problems encountered on site.

#### Your report will only give preliminary recommendations

Your report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until project implementation has commenced and therefore your report recommendations can only be regarded as preliminary. Only Wagner Soil Testing, who prepared the report, is fully familiar with the background information needed to assess whether or not the report's recommendations are valid and whether or not changes should be considered as the project develops. If another party undertakes the implementation of recommendations of this report, there is a risk that the report will be misinterpreted, and Wagner Soil Testing cannot be held responsible for such misinterpretation.

### Your report is prepared for specific purposes and persons

To avoid misuse of the information contained in your report it is recommended that you confer with Wagner Soil Testing before passing your report on to another party who may not be familiar with the background and purpose of the report. Your report should not be applied to any project other than that originally specified at the time the report was issued.

It is a requirement that the client contacts Wagner Soil Testing Pty Ltd when the exact position of the proposed building is confirmed so we can check if our Boreholes fall in the footing area [our borelogs are only presumed indicative of the whole area until this is confirmed]. In the case of a cracked house investigation more testing may be required to conclude all possible causes of settlement and or movement. Initial drilling and lab testing may only identify some of the causes of the problem. Wagner Soil Testing should be contacted when additional testing is required. It is a company policy that Wagner Soil Testing are contacted if the development (including any portion and/or envelope) is sold and/or changes title as the report is only for the use of our direct client. If the development is sold and/or changes title Wagner Soil Testing must be contacted and subsequently will carry out a comprehensive site inspection - evaluation at no cost to ensure the preliminary report is relevant and no changes whatsoever have been made.