

Gold Coast Office
Job No: GL21/028
Ref No: 22022
Author: N. Dobson

29th March 2022

Shadforth Civil
99 Sandalwood Lane
Forest Glen Qld 4556

ATTENTION: MR DAVID BUGDEN
Email: david.bugden@shadcivil.com.au

Dear Sir,

**RE: LEVEL ONE COMPLIANCE REPORT FOR
BULK EARTHWORKS FILLING OPERATIONS,
EVERLEIGH PRECINCT 9.1 AND 9.2
TEVIOT ROAD, GREENBANK.**

Table of Contents

Table of Contents	1
1.0 INTRODUCTION	2
1.1 General.....	2
1.2 Previous Earthworks.....	5
1.3 The Project.....	5
2.0 THE BRIEF	5
2.1 Additional Requirements	6
3.0 METHODOLOGY	6
3.1 Stripped Surface Assessment.....	6
3.1.1 Filling Operations	8
4.0 STATEMENT OF COMPLIANCE	11
5.0 EXCLUSIONS	11
6.0 LIMITATIONS	11
ATTACHMENTS:	12
Appendix A – Site Plans Showing Test Locations	12
Appendix B – Laboratory Test Results Reports	12

1.0 INTRODUCTION

1.1 General

This report presents results of Level One Earthworks Inspections and associated compaction compliance testing carried out on earthworks fill constructed at the Everleigh Estate – Precinct 9.1 and 9.2, Teviot Road, Greenbank.

Earthworks operations were carried out by Shadforth Civil.

Earthworks filling operations for Precinct 9.1 and 9.2 allotments and roads were carried between 13th April 2021 and 3rd February 2022

The areas of fill covered by this report are presented as Figures 1, 2A, 2B and 3 below.

Figure 1, Figure 2A & 2B presents the extent of earthworks as shown on the Premise Earthworks Drawings MIR009-01-C201A, MIR009-02-C200A and MIR009-02-C201A.

Figure 3 presents the as constructed areas and actual areas of fill as shown on the Shadforth Civil Survey Plans.

Figure 1: Extent of Fill (Precinct 9.1) - Premise Earthwork Drawing MIR009-01-C201A

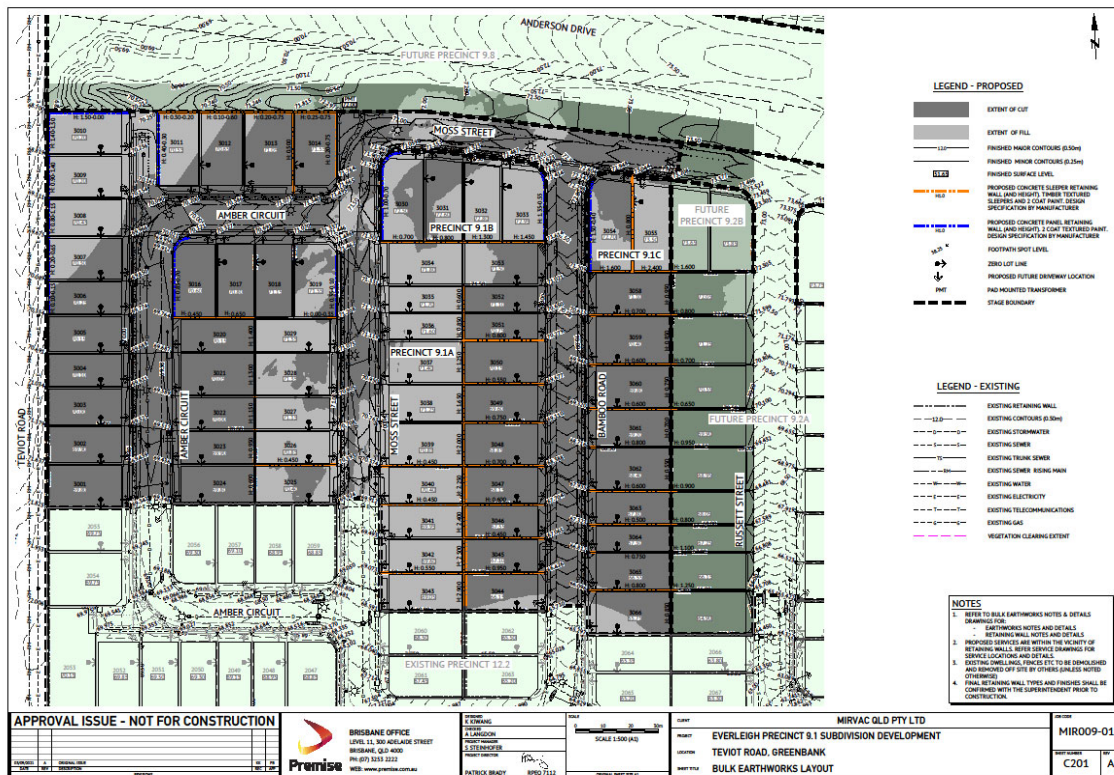


Figure 2A: Extent of Fill (Precinct 9.2) - Premise Earthwork Drawing MIR009-02-C200A

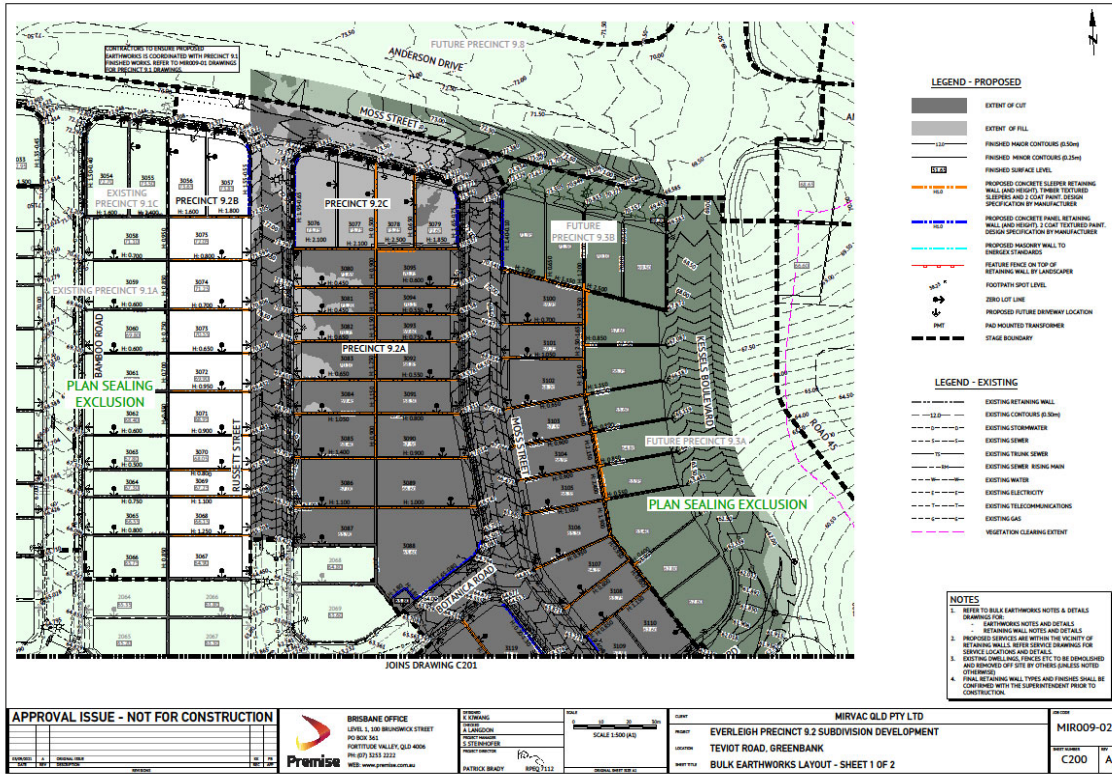


Figure 2B: Extent of Fill (Precinct 9.2) - Premise Earthwork Drawing MIR009-02-C201A

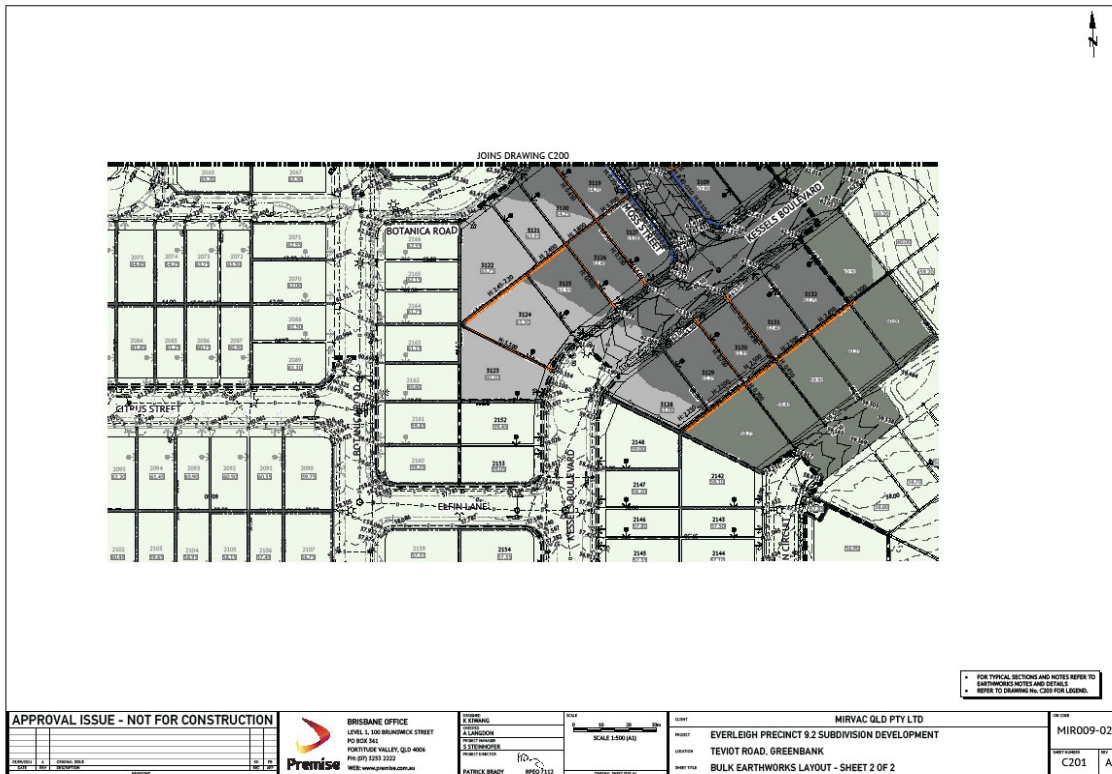
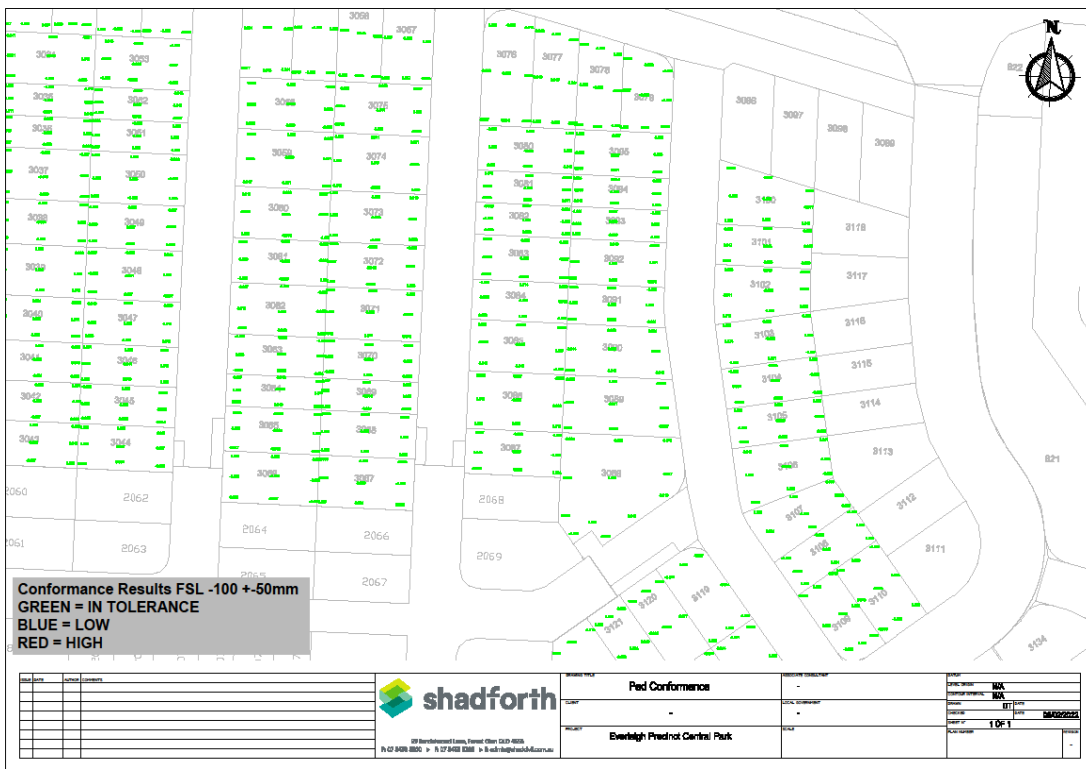
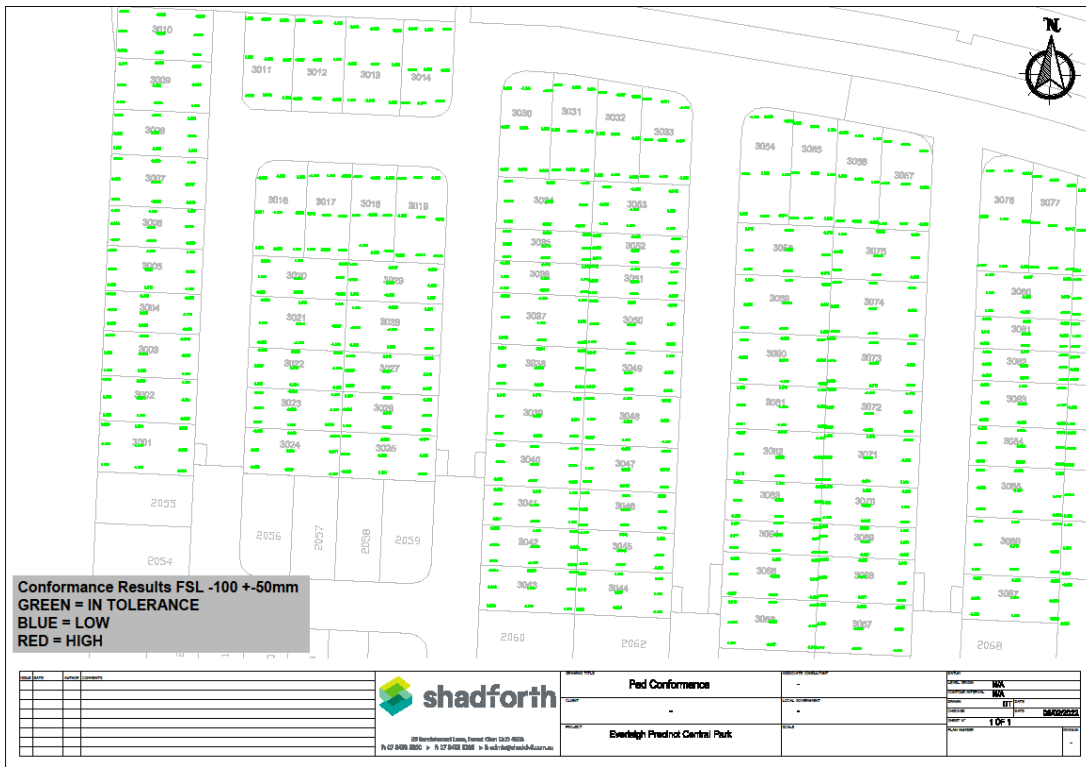
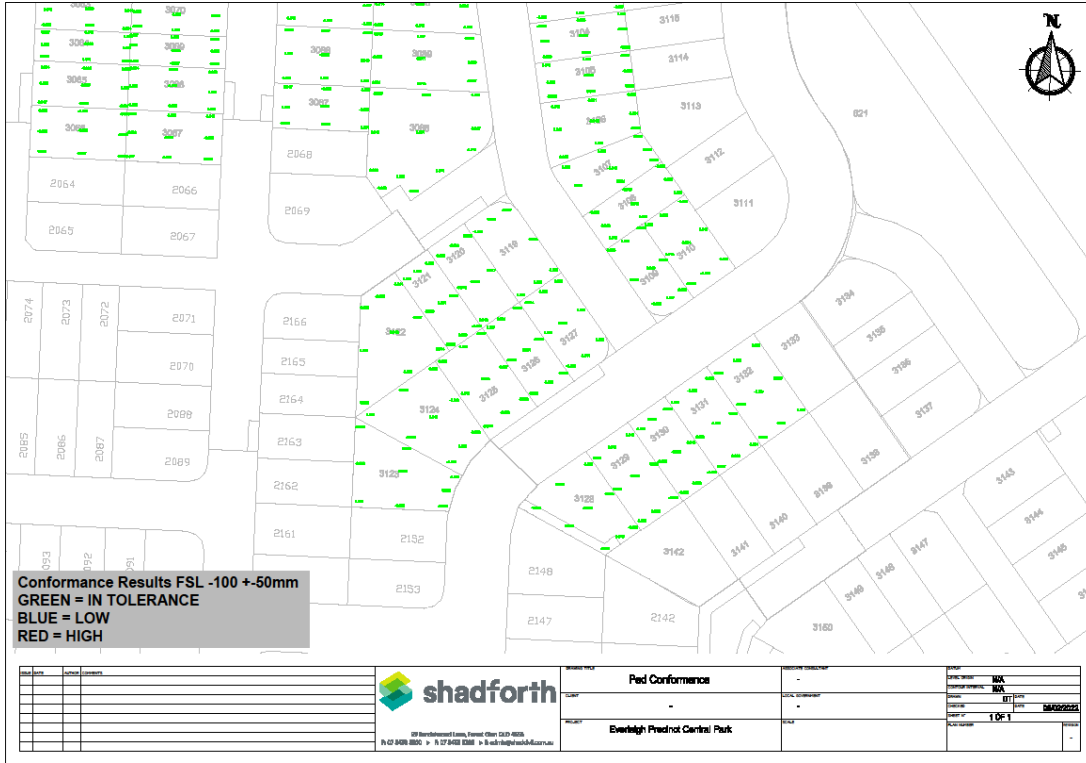


Figure 3: Actual Constructed Area of Fill – Shadforth Survey Plans





1.2 Previous Earthworks

As far as can be determined, there were no previous earthworks carried out at The Site.

1.3 The Project

The project includes filling operations to construct building platforms to support proposed residences, new pavements, and underground services. The Site is bounded by Existing Precincts to the south, existing developments to the west and future precincts to the north.

2.0 THE BRIEF

The Brief from the Client and relevant documents were limited to:

- Level One Inspection and Testing of the placement and compaction of fill materials in general accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”.
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.1.
- Earthworks Notes on MIR009-01-C210A Drawings.
- Recommendations in Morrison Geotechnic report “recommended filling Earthworks specification” report 16520B, dated 25th June 2020.

2.1 Additional Requirements

All fill at The Site was to be constructed in accordance with the Earthworks Specification as shown on Premise Drawing – MIR009-01-C210 Rev A.

The earthworks specification is presented as Figure 4 below.

Figure 4 Earthworks Specification

EARTHWORKS SPECIFICATION

SPECIFICATION	DEPTH RANGE (m)				PAVEMENT SUBGRADE	TRENCH BACKFILL
	0.0 - 0.6	0.6 - 3.00	3.00 - 5.00	> 5.00		
CBR %	-	-	-	-	10	15
LAYER THICKNESS (mm)	300	300	300	300	BETWEEN SUBGRADE AND 0.3m BELOW	300
MAXIMUM PARTICLE SIZE (mm)	200	500	500	500	200	200
% PASSING 37.5mm	80% MIN	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES
% PASSING 0.075mm	30% MIN	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES AND AS3798
COMPACTION	95% STD	95% STD	95% STD	95% STD	100% STD	95% MOD IN ROADS AND 95% STD OUTSIDE ROADS
MOISTURE	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	60% - 90% OF OMC	+/- 2% OMC
<p>NOTES:</p> <ol style="list-style-type: none"> 1. OMC - OPTIMUM MOISTURE CONTENT 2. LAYER OF THICKNESS IS LIMITED TO 300mm TO ALLOW IDENTIFICATION OF LARGER PARTICLES AND ALLOW EVERY CHANCE OF BREAK DOWN IN FILLING OR REMOVAL. 3. TREATMENT OF ROCK TO SIZES ABOVE SHOULD BE CARRIED OUT IN CUT PRIOR TO LOADING TO FILL AREAS. TREATED ROCK TO BE APPROVED BY GITA PRIOR TO TRANSPORTING. 4. UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT. 5. PROOF ROLL TESTING ON EACH COMPACTED LAYER USING RUBBER WHEELED PLANT SUCH AS LOADED ADT'S OR LOADED SCRAPERS. UNFAVOURABLE DEFORMATION OF THE COMPACTED SURFACE UNDER LOAD OF ADT'S OR SCRAPERS WILL REQUIRE REPAIR PRIOR TO ADDITIONAL PLACEMENT. 6. MECHANICAL INTERLOCK METHODOLOGY IS NOT APPROPRIATE DUE TO POOR DURABILITY OF SITE WON SANDSTONE. FILL COMPOSITION IS REQUIRED TO INCLUDE AN APPROPRIATE SAND GRAVEL AND FINES COMPONENT CONFORMING TO THE REQUIREMENTS OF AS798. <p>KEY OUTCOMES FOR EARTHWORKS OPERATIONS</p> <ol style="list-style-type: none"> 1. DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS 2. FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m 3. CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS 4. BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT 5. MATERIAL WON FROM CUTS AND USED IN FILL WITH REQUIRE <ul style="list-style-type: none"> • CUTS IN ROCK AS WELL AS BLENDED WITH • CUTS IN FINER MATERIALS SUCH AS SANDS AND CLAYS 6. CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289 						

Lots and pavements where rock of medium strength or stronger was exposed at the final cut earthworks levels, were cut to a depth of approximately 0.6m below the final earthworks levels. The excavated rock was then replaced with fill materials compliant with the specification requirements for materials within the 0.0m to 0.6m depth range as described in Figure 4 and compacted accordingly.

3.0 METHODOLOGY

Earthworks Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials.

Field and laboratory testing included walk over assessments of the existing ground conditions, proof roll testing of the fill foundations, observations of filling and compaction activities and compaction testing.

3.1 Stripped Surface Assessment

The fill areas covered by this report were stripped and cleared of visible loose materials, vegetation, and topsoil.

Materials exposed after stripping and that formed the fill foundation can be broadly summarised as:

- Natural - Silty Sand (SM) – at least dense, fine to medium grained sands, traces of low plasticity fines, grey – brown and moist.
- Natural – Sandy Clay (CI) – at least Very Stiff, medium plasticity, fine to medium grained sand, pale brown mottled orange and moist.

- Natural – Sandstone (XW-HW) – Extremely to Highly weathered, very low to low strength, orange – yellow brown
- Natural – Sandstone (MW-SW) – Moderately to Slightly weathered, medium, high, and very high strength, yellow grey, and pale grey

Following the stripped surface assessment of the fill areas, the foundation was approved for filling using the following process:

- Walk over assessments confirming that a competent natural foundation had been exposed.
- Proof roll testing using a large sized truck carrying out multiple passes confirming no movement of the exposed natural foundation.

Picture 1: View of The Site During Stripping Operations



3.2 Filling Operations

Fill materials were sourced onsite and can be broadly summarised as: -

- Onsite Gravelly Sandy Clay (CI), medium plasticity fines, fine to coarse sand, fine to coarse gravel, yellow - brown and moist.
- Ripped Sandstone with engineering properties of Gravelly Clayey Sand (SC), fine to coarse sand, fine to coarse gravel, low to medium plasticity fines with cobbles up to 200mm max.
- Blasted Sandstone with engineering properties of Gravelly Clayey Sand (SC), fine to coarse sand, fine to coarse gravel, low to medium plasticity fines with cobbles up to 200mm max.

Ripping operations were required to loosen high and very high strength sandstone. Ripped rock was then processed using mechanical crushing plant.

The methodology for the rock crushing operations can be broadly summarised as: -

- Large rock fragments were broken down by an excavator with a hammer attachment to sizes acceptable for the mechanical crushing plant.
- Mechanical crushing to reduce rock fragments to 200mm size or less.
- Mixing crushed product with onsite materials using a front-end loader and placed into stockpiles assessed to be suitable for filling and earthworks operations.

Placement and compaction of the fill materials was carried out using the following plant: -

- | | | |
|-------------------|--------------------|-----------------------------|
| • Water Carts | • Excavators | • Cat 825 Compactor |
| • Pad Foot Roller | • Grader | • Articulated Dump Truck's |
| • Dozers | • Front End Loader | • Mechanical Rock Crusher's |

The fill materials were moisture conditioned at the fill source and during placement to moisture contents suitable for compaction. Deleterious materials such as organics, sticks, roots and over size particles were sorted and removed during placement or were rejected for use. Occasional oversize particles including cobbles may be present in the deeper fill profile, however, are not considered to affect the fill as a mass.

Placement of the fill materials was carried out in layers appropriate for the above plant and compacted using the above plant carrying out multiple passes.

Our representative observed the filling process as described above which was assessed to be consistent for the entire thickness of fill.

Field density tests and laboratory compactions were carried out on the fill materials in accordance with Table 5.1 and 8.1 of AS3798 2007 (Guidelines on Earthworks for Commercial and Residential Developments) and tested to AS1289 test methods (Testing of Soils for Engineering Purposes).

Testing achieved the required specification of 95% of the Standard Maximum Dry Density (SMDD) at the test locations.

Fill placed and compacted at measured density ratios less than 95% was tyned, moisture conditioned and re-compacted until the required specification was achieved. Retesting was carried out using Random Stratified Location methods.

The Location of the field density tests are shown on the Site Plans contained in Appendix A. These test locations and levels were not obtained by survey and therefore should only be considered as approximate.

Photos showing the general earthworks operations are given in Pictures 2 to 4.

Picture 2: View of the Crushing Operation and Produced Product



Picture 3: View of the Site During Construction



Picture 4: View of the Site During Construction



4.0 STATEMENT OF COMPLIANCE

Our representatives observed the relevant earthworks operations including the stripped surface, fill placement and compaction operations and carried out field density tests and laboratory compaction tests in accordance with the required standard (AS3798, AS1289). Testing achieved the required specification of 95% SMDD at the test locations.

Level One Inspection and Testing has been carried out on the filling operation and limited to the extent shown in Figure 3. Based on the observations made by our Geotechnicians and the results of the field and laboratory tests, the placed and compacted fill at the above project has, as far as we have been able to assess, been constructed in general accordance with the intent of AS3798.

The fill can be deemed to be “controlled” in accordance with AS2870.

5.0 EXCLUSIONS

This statement does not include any topsoil, which may be placed for use as dressing, trench backfill, areas outside the areas shown in Figure 3 or any other subsequent earthworks after 3rd February 2022.

Assessments of material quality such as soaked CBR and site classifications are excluded from this commission.

Our on-site attendance specifically excludes assessments of fill material quality and engineering properties that are outside the requirements of AS3798 – 2007.

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.

6.0 LIMITATIONS

This Report has been prepared by Morrison Geotechnic Pty Ltd (**Morrison Geotechnic**), and may include contributions from Morrison Geotechnic’s officers and employees, sub-contractors, sub-consultants, or agents (**Contributors**).

This Report is for the sole benefit and use of Shadforth Civil Pty Ltd (**Client**), its designers, clients, and relevant statutory authorities for the sole purpose of providing geotechnical advice and recommendations in respect of the Bulk Earthworks Filling Operations at Precinct 9.1 and 9.2, Everleigh Estate (**Project**). The Report is only intended to address those issues expressly described in the Brief/ Work Instructions in this Report.

This Report should not be used or relied upon for any other purpose without Morrison Geotechnic’s prior written consent. Morrison Geotechnic and the Contributors do not accept any responsibility or liability in any way whatsoever for the use or reliance of this Report by anyone other than Golding Urban Pty Ltd (**Client**), its designers, its clients, and relevant statutory authorities or by anyone else for any purpose other than that for which it has been prepared.

Except with Morrison Geotechnic’s prior written consent, this Report may not be:

- (a) released to any other party, whether in whole or in part (other than to the Client’s officers, employees, advisers, designers, clients, and relevant statutory authorities).
- (b) used or relied upon by any other party.

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The information (including technical information and information obtained through discussions) on which this report is based has been provided by the Client and third parties. Morrison Geotechnic and the Contributors:

- (a) have relied upon and presumed the accuracy of this information.
- (b) have not verified the accuracy or reliability of this information (other than as expressly stated in this Report).
- (c) have not made any independent investigations or enquiries in respect of those matters of which it has no actual knowledge at the time of giving this Report to the Client; and
- (d) make no warranty or guarantee, expressed or implied, as to the accuracy or reliability of this information.

Morrison Geotechnic and the Contributors do not accept responsibility or liability for any incorrect assumptions related to this Report. For the avoidance of doubt, this Report:

- (a) is not an environmental, contamination or hazardous materials assessment; may be invalid, incomplete, or inaccurate (including errors in the scope of work, investigation methodology, observations, opinions, and advice) where the information provided to Morrison Geotechnic was invalid, incomplete, or inaccurate.
- (b) is limited to observations of those parts of the site described in Section 1.0.

No warranty or guarantee, whether express or implied, is made in respect of the geotechnical data, information, advice, opinions, and recommendations present in this Report.

If further information becomes available, or additional assumptions need to be made, Morrison Geotechnic reserves its right to amend this Report.

If you have any queries regarding the above, please contact our Gold Coast office.

Yours faithfully



Nicholas Dobson
For and on behalf of
MORRISON GEOTECHNIC PTY LIMITED



Simon Wynne RPEQ 17390
For and on behalf of
MORRISON GEOTECHNIC PTY LIMITED

ATTACHMENTS:

- Appendix A – Site Plans Showing Test Locations
- Appendix B – Laboratory Test Results Reports



Appendix A

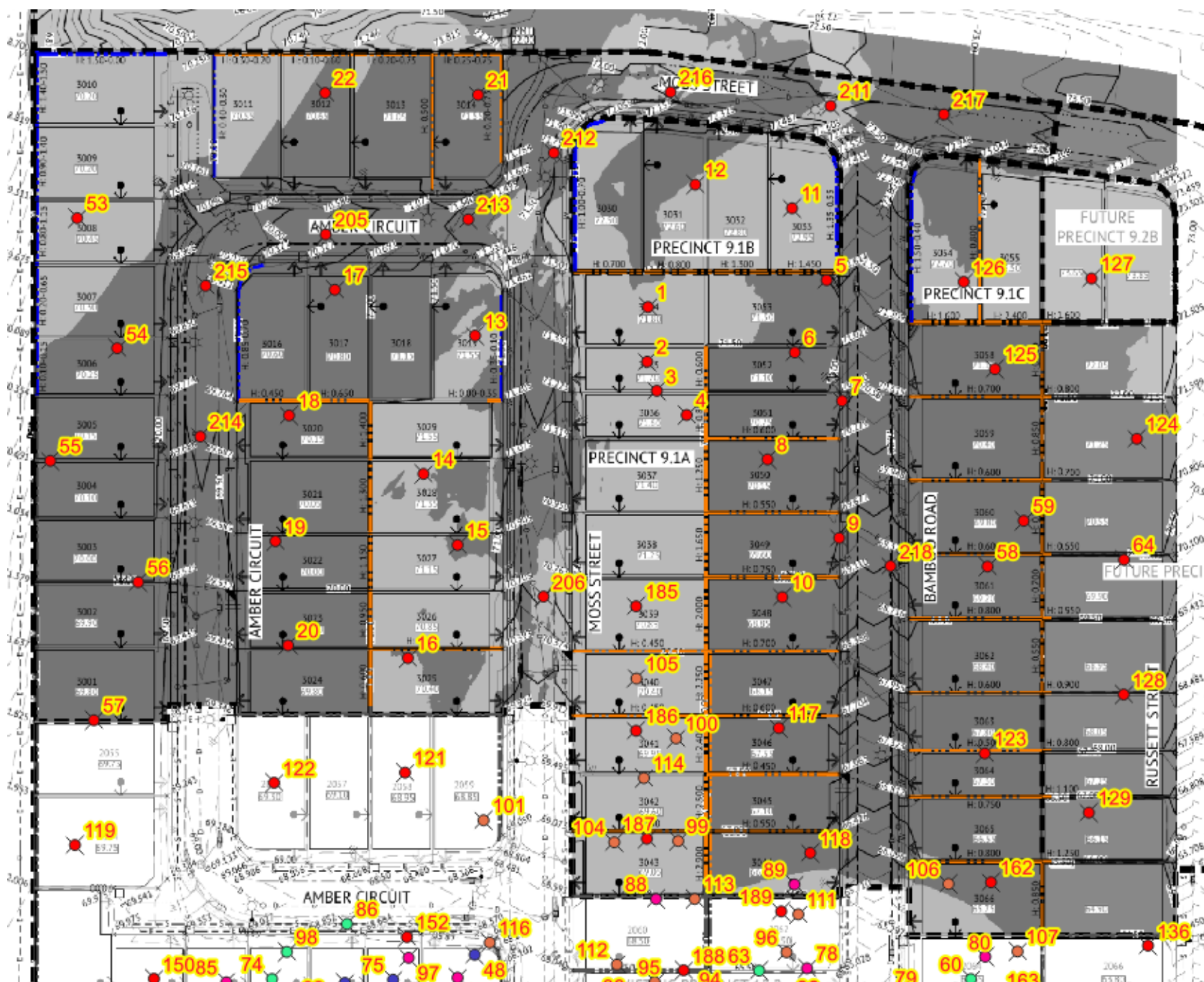
Site Plan & Test Locations



MORRISON GEOTECHNIC PTY LTD



MORRISON
GEOTECHNIC



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

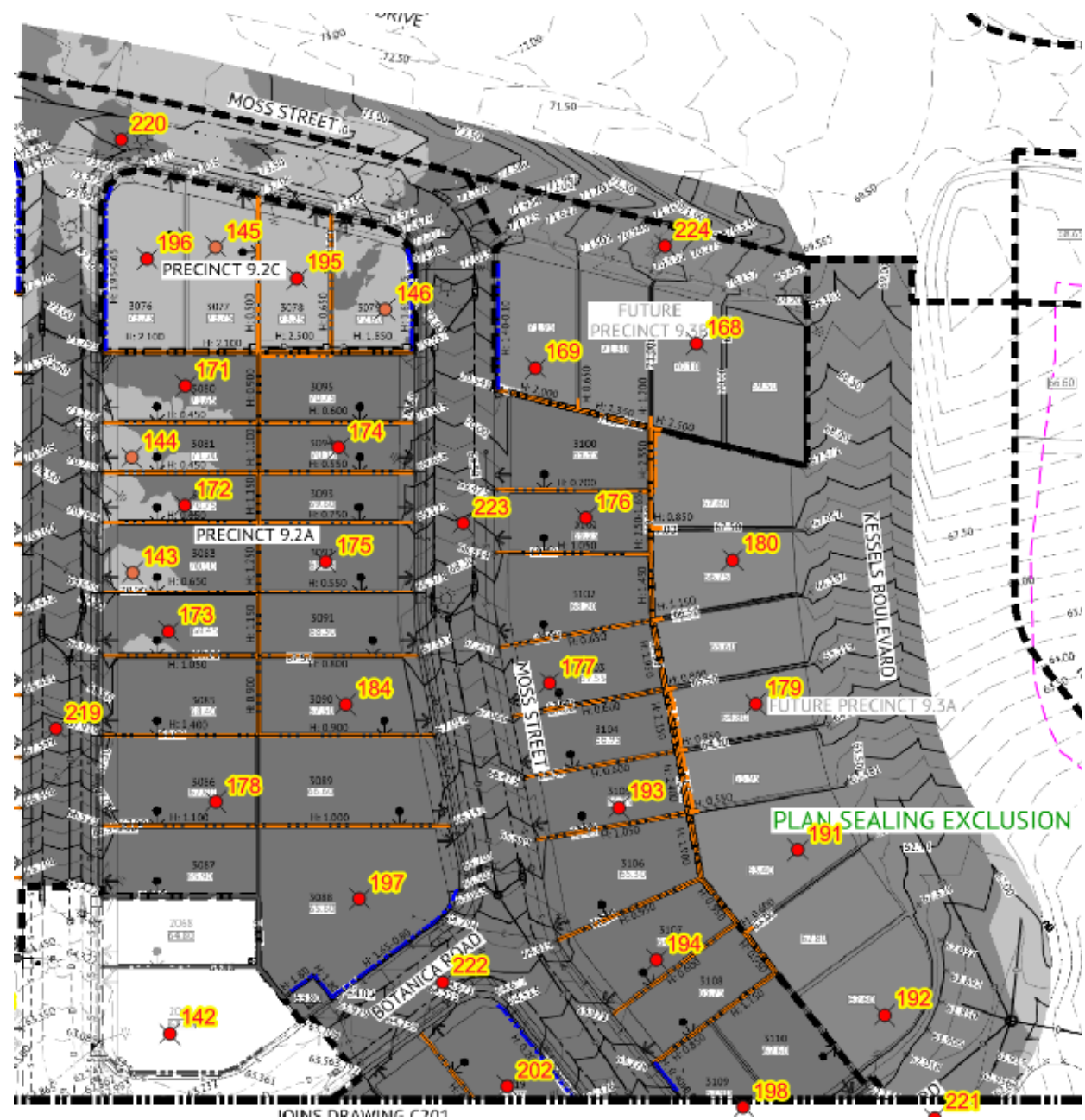
Unit 34A / 53-57 Link Drive, Yatala 4207 Ph: 5596 1599
 Email: goldcoastlab@morrisongeo.com.au

Engineers: M.Ballard
 D.Dragun
 Geologists: R.Howchin
 Laboratory: I.Masman, G.Taylor

LEGEND

- - 0.0m TO 0.6m - Below FSL
- - 0.6m to 1.0m - Below FSL
- - 1.0m to 2.0m - Below FSL
- - 2.0m to 3.0m - Below FSL
- - 3.0m to 4.0m - Below FSL

Map Description :	Test Plots				
Client :	Shadforth P/L				
Project :	Everleigh Precinct 9.1				
Project No :	GL21/028	Drawing No :	1/1	Scale :	Not to Scale



ENGINEERING DRAWING C301



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

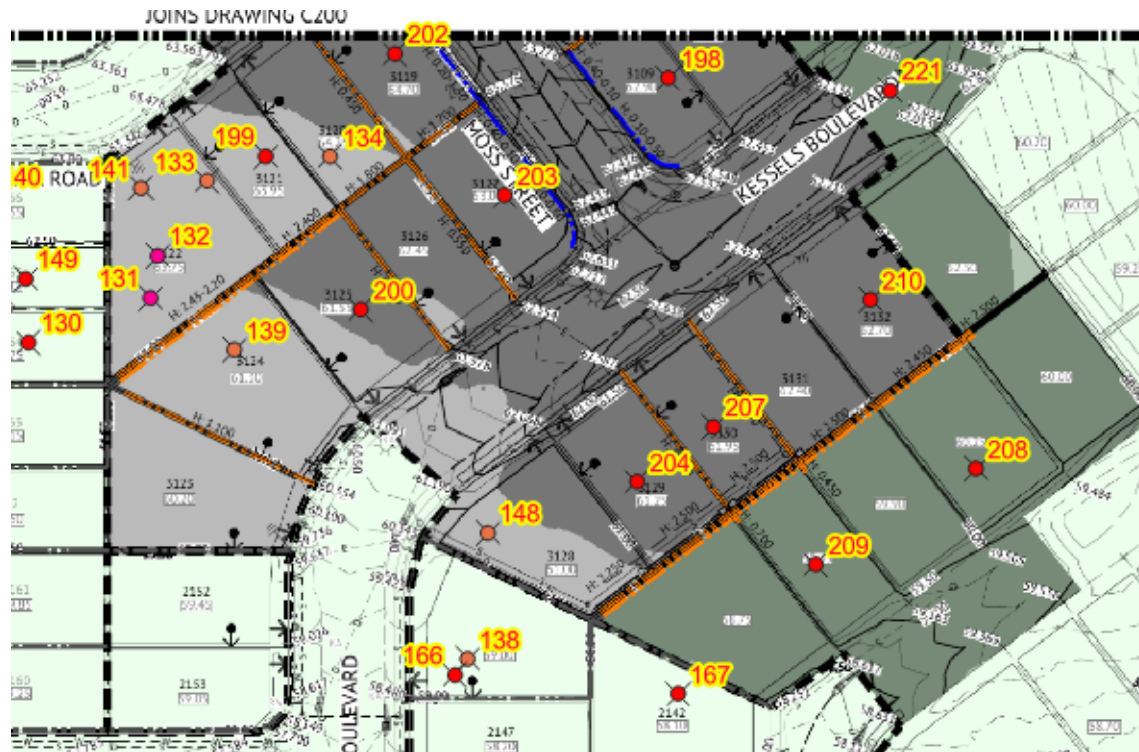
Unit 34A / 53-57 Link Drive, Yatala 4207 Ph: 5596 1599
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- — 1.0m to 2.0m - Below FSL
- — 2.0m to 3.0m - Below FSL
- — 3.0m to 4.0m - Below FSL

Map Description :	Test Plots				
Client :	Shadforth P/L				
Project :	Everleigh Precinct 9.2				
Project No :	GL21/028	Drawing No :	1/2	Scale :	Not to Scale



MORRISON GEOTECHNIC PTY LTD

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- — 2.0m to 3.0m - Below FSL
- — 3.0m to 4.0m - Below FSL

Map Description :	Test Plots				
Client :	Shadforth P/L				
Project :	Everleigh Precinct 9.2				
Project No :	GL21/028	Drawing No :	2/2	Scale :	Not to Scale

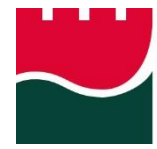


Appendix B

Laboratory Test Reports



MORRISON GEOTECHNIC PTY LTD



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GEOTECHNIC

Material Test Report

Report Number: GL21/028-2
Issue Number: 1
Date Issued: 23/05/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5128
Dates Tested: 07/05/2021 - 21/05/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Location: TOP 600mm
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5128A	G21-5128B	G21-5128C	G21-5128D	G21-5128E
Test Number	1	2	3	4	5
Date Tested	07/05/2021	07/05/2021	07/05/2021	07/05/2021	07/05/2021
Time Tested	12:00	12:10	12:20	12:30	12:40
Test Request #/Location	LOT 3034	LOT 3035	LOT 3036	LOT 3037	LOT 3053
Easting	E 498653	E 498652	E 498654	E 498661	E 498692
Northing	N 6932142	N 6932129	N 6932123	N 6932118	N 6932147
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
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	2.15	2.20	2.16	2.18	2.16
Field Moisture Content %	12.4	12.5	11.7	13.7	11.1
Field Dry Density (FDD) t/m ³	1.92	1.96	1.94	1.92	1.94
Peak Converted Wet Density t/m ³	2.12	2.20	2.24	2.17	2.19
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	2.0	-0.5	0.0	1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.5	100.0	97.0	100.5	98.5
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: GL21/028-2
Issue Number: 1
Date Issued: 23/05/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5128
Dates Tested: 07/05/2021 - 21/05/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Location: TOP 600mm
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5128F	G21-5128G	G21-5128H	G21-5128I	G21-5128J
Test Number	6	7	8	9	10
Date Tested	07/05/2021	07/05/2021	07/05/2021	07/05/2021	07/05/2021
Time Tested	12:50	13:00	13:10	13:20	13:30
Test Request #/Location	LOT 3052	LOT 3051	LOT 3050	LOT 3049	LOT 3048
Easting	E 498685	E 498695	E 498679	E498695	E 498682
Northing	N 6932131	N 6932121	N 6932108	N 6932090	N 6932077
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	14	0	0	0
Field Wet Density (FWD) t/m ³	2.19	2.16	2.20	2.18	2.20
Field Moisture Content %	12.4	13.5	11.5	11.8	10.8
Field Dry Density (FDD) t/m ³	1.95	1.90	1.97	1.95	1.98
Peak Converted Wet Density t/m ³	2.18	**	2.22	2.19	2.18
Adjusted Peak Converted Wet Density t/m ³	**	2.20	**	**	**
Moisture Variation (Wv) %	0.0	**	2.0	1.5	0.0
Adjusted Moisture Variation %	**	0.0	**	**	**
Hilf Density Ratio (%)	100.5	98.0	99.5	99.5	101.0
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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-3
Issue Number: 1
Date Issued: 23/05/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5176
Date Sampled: 14/05/2021
Dates Tested: 14/05/2021 - 17/05/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5176A	G21-5176B	G21-5176C	G21-5176D	G21-5176E	G21-5176F
Test Number	11	12	13	14	15	16
Date Tested	14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Tested	09:20	09:30	09:40	09:50	10:00	11:30
Test Request #/Location	LOT 3033	LOT 3031	LOT 3019	LOT 3028	LOT 3027	LOT 3025
Easting	498684	498663	498614	498603	498610	498599
Northing	6932163	6932169	6932135	6932105	6932089	6932064
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	12	14	7	9	7	8
Field Wet Density (FWD) t/m ³	2.19	2.21	2.16	2.22	2.17	2.19
Field Moisture Content %	10.3	10.6	10.2	10.4	10.9	10.8
Field Dry Density (FDD) t/m ³	1.99	2.00	1.96	2.01	1.96	1.98
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.20	2.22	2.17	2.22	2.21	2.18
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.5	0.0	-0.5	0.5
Hilf Density Ratio (%)	99.5	99.5	99.5	100.5	98.0	100.5
Compaction Method	Standard	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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-3
Issue Number: 1
Date Issued: 23/05/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5176
Date Sampled: 14/05/2021
Dates Tested: 14/05/2021 - 17/05/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5176G	G21-5176H	G21-5176I	G21-5176J	G21-5176K	G21-5176L
Test Number	17	18	19	20	21	22
Date Tested	14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Tested	11:40	11:50	12:00	14:40	14:50	15:00
Test Request #/Location	LOT 3017	LOT 3020	LOT 3022	LOT 3024	LOT 3014	LOT 3012
Easting	498583	498573	498570	498573	498615	498581
Northing	6932145	6932118	6932090	6932067	6932188	6932189
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	8	9	9	10	10	8
Field Wet Density (FWD) t/m ³	2.16	2.20	2.29	2.20	2.18	2.19
Field Moisture Content %	11.7	10.2	10.7	10.9	10.5	10.9
Field Dry Density (FDD) t/m ³	1.94	2.00	2.07	1.98	1.98	1.98
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.18	2.18	2.38	2.19	2.21	2.19
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.5	1.0	2.0	1.0	0.0	0.0
Hilf Density Ratio (%)	99.5	101.0	96.0	100.5	99.0	100.0
Compaction Method	Standard	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: GL21/028-4
Issue Number: 1
Date Issued: 02/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5195
Date Sampled: 18/05/2021
Dates Tested: 18/05/2021 - 28/05/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5195A	G21-5195B	G21-5195C	G21-5195D
Test Number	23	24	25	26
Date Tested	18/05/2021	18/05/2021	18/05/2021	18/05/2021
Time Tested	08:00	09:30	11:00	12:20
Test Request #/Location	LOT 3156	LOT - BOUNDY OF 3154 & 3155	LOT 3154	LOT 3156
Easting	498977	498956	498976	498953
Northing	6931874	6931804	6931805	6931783
Elevation (m)	2.5m BELOW FL	1.5m BELOW FL	1m BELOW FL	2m BELOW FL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	11	11	9	9
Field Wet Density (FWD) t/m ³	2.17	2.25	2.27	2.26
Field Moisture Content %	12.9	14.0	12.8	11.5
Field Dry Density (FDD) t/m ³	1.92	1.97	2.01	2.02
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.22	2.28	2.29	2.29
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	-0.5
Hilf Density Ratio (%)	97.5	98.5	99.0	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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-5
Issue Number: 1
Date Issued: 03/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5222
Date Sampled: 20/05/2021
Dates Tested: 20/05/2021 - 31/05/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5222A	G21-5222B	G21-5222C	G21-5222D
Sample Number	35	36	37	38
Test Number	20/05/2021	20/05/2021	20/05/2021	20/05/2021
Date Tested	09:30	09:40	10:00	10:30
Time Tested	LOT 2065	LOT 2063	LOT 2061	LOT 2061
Test Request #/Location	498723	498692	498663	498641
Easting	6931985	6931988	6931988	6931988
Northing	2.4m BELOW FL	3.0m BELOW FL	3.0m BELOW FL	2.4m BELOW FL
Elevation (m)	Clayey Sandy. Orange-Brown	Clayey Sandy. Orange-Brown	Clayey Sandy. Orange-Brown	Clayey Sandy. Orange-Brown
Soil Description	150	150	150	150
Test Depth (mm)	19.0	19.0	19.0	19.0
Sieve used to determine oversize (mm)	0	0	9	14
Percentage of Wet Oversize (%)	2.19	2.18	2.23	2.29
Field Wet Density (FWD) t/m ³	14.3	12.5	11.5	11.8
Field Moisture Content %	1.92	1.94	2.00	2.05
Field Dry Density (FDD) t/m ³	2.17	2.17	**	**
Peak Converted Wet Density t/m ³	**	**	2.14	2.13
Adjusted Peak Converted Wet Density t/m ³	0.5	0.5	**	**
Moisture Variation (Wv) %	**	**	2.0	0.5
Adjusted Moisture Variation %	101.0	100.5	104.0	107.0
Hilf Density Ratio (%)	Standard	Standard	Standard	Standard
Compaction Method	**	**	**	**
Report Remarks				

Moisture Variation Note:

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

Material Test Report

Report Number: GL21/028-5
Issue Number: 1
Date Issued: 03/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5222
Date Sampled: 20/05/2021
Dates Tested: 20/05/2021 - 31/05/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5222E	G21-5222F	G21-5222G	G21-5222H
Sample Number				
Test Number	39	40	41	42
Date Tested	20/05/2021	20/05/2021	20/05/2021	20/05/2021
Time Tested	10:50	11:00	11:50	12:00
Test Request #/Location	LOT 2074	LOT 2076	LOT 2063	BAMBOO ROAD
Easting	498709	498692	498682	498707
Northing	6931959	6931962	6931987	6931982
Elevation (m)	2m BELOW FL	3m BELOW FL	2.5m BELOW FL	1.5m BELOW SG
Soil Description	Clayey Sandy. Orange-Brown	Clayey Sandy. Orange-Brown	Clayey Sandy. Orange-Brown	Clayey Sandy. Orange-Brown
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 (%)	17	12	13	16
Field Wet Density (FWD) t/m ³	2.22	2.25	2.22	2.21
Field Moisture Content %	12.3	12.5	13.3	13.3
Field Dry Density (FDD) t/m ³	1.98	2.00	1.96	1.95
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.16	2.18	2.14	2.15
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	0.5	0.0	0.5
Hilf Density Ratio (%)	103.0	103.5	104.0	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: GL21/028-6
Issue Number: 1
Date Issued: 08/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5275
Date Sampled: 26/05/2021
Dates Tested: 26/05/2021 - 07/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5275A	G21-5275B	G21-5275C	G21-5275D	G21-5275E
Test Number	43	44	45	46	47
Date Tested	26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Time Tested	07:30	07:40	07:50	08:00	08:10
Test Request #/Location	BAMBOO ROAD	LOT 2074	LOT 2076	LOT 2077	LOT 2046
Easting	498698	498711	498685	498669	498615
Northing	6931987	6931967	6931965	6931969	6931970
Elevation (m)	1.1m BELOW FL	1.4m BELOW FL	2.5m BELOW FL	3.5m BELOW FL	4.2m BELOW FL
Layer / Reduced Level	**	**	**	**	**
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	12	9	12	13	9
Field Wet Density (FWD) t/m ³	2.20	2.24	2.23	2.21	2.26
Field Moisture Content %	12.5	12.1	12.8	13.3	12.3
Field Dry Density (FDD) t/m ³	1.96	2.00	1.98	1.95	2.01
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.27	2.30	2.30	2.29	2.33
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0	-0.5
Hilf Density Ratio (%)	97.0	97.5	97.0	96.5	97.0
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: GL21/028-6
Issue Number: 1
Date Issued: 08/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5275
Date Sampled: 26/05/2021
Dates Tested: 26/05/2021 - 07/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5275F	G21-5275G	G21-5275H	G21-5275I	G21-5275J
Sample Number					
Test Number	48	49	50	51	52
Date Tested	26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Time Tested	08:20	08:30	08:40	11:30	11:40
Test Request #/Location	LOT 2047	LOT 2049	LOT 2045	LOT 2047	LOT 2046
Easting	498614	498585	498592	498604	498604
Northing	6931998	6931992	6931973	6931990	6931970
Elevation (m)	4.0m BELOW FL	3.9m BELOW FL	4.5m BELOW FL	3.6m BELOW FL	3.7m BELOW FL
Layer / Reduced Level	**	**	**	**	**
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	11	13	9	12	10
Field Wet Density (FWD) t/m ³	2.26	2.23	2.24	2.24	2.23
Field Moisture Content %	12.1	12.4	12.0	12.1	11.9
Field Dry Density (FDD) t/m ³	2.02	1.99	2.00	2.00	2.00
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.35	2.32	2.34	2.34	2.33
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	96.5	96.0	95.5	96.0	95.5
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: GL21/028-7
Issue Number: 1
Date Issued: 10/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5200
Dates Tested: 19/05/2021 - 08/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Nick Dobson
Senior Technician
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5200A	G21-5200B	G21-5200C	G21-5200D
Sample Number				
Test Number	27	28	29	30
Date Tested	19/05/2021	19/05/2021	19/05/2021	19/05/2021
Time Tested	06:50	07:00	07:10	07:20
Test Request #/Location	LOT 2073	LOT 2075	BOTANICA ROAD	BOTANICA ROAD
Easting	498726	498701	498679	498638
Northing	6931962	6931966	6931972	6931975
Elevation (m)	4.7m BELOW FL	5.0m BELOW FL	3.9m BELOW SG	3.1m BELOW SG
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	10	11	9	12
Field Wet Density (FWD) t/m ³	2.19	2.18	2.20	2.18
Field Moisture Content %	11.9	12.1	11.7	12.2
Field Dry Density (FDD) t/m ³	1.96	1.95	1.97	1.94
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.27	2.26	2.28	2.25
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	-0.5	0.0
Hilf Density Ratio (%)	96.5	96.5	96.5	96.5
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



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

ABN: 51 009 878 899

Gold Coast Laboratory

Unit 34A / 53-57 Link Drive Yatala QLD 4207

Phone: (07) 5596 1599

Email: ndobson@mgeo.com.au

Report Number: GL21/028-7
Issue Number: 1
Date Issued: 10/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5200
Dates Tested: 19/05/2021 - 08/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Nick Dobson

Senior Technician

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5200E	G21-5200F	G21-5200G	G21-5200H
Sample Number				
Test Number	31	32	33	34
Date Tested	19/05/2021	19/05/2021	19/05/2021	19/05/2021
Time Tested	11:30	11:40	11:50	12:00
Test Request #/Location	LOT 2074	LOT 2076	BOTANICA ROAD	LOT 2078
Easting	498716	498689	498661	498638
Northing	6931963	6931967	6931979	6931970
Elevation (m)	4.5m BELOW FL	4.9m BELOW FL	3.3m BELOW SG	2.5m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	12	7	8	12
Field Wet Density (FWD) t/m ³	2.21	2.16	2.17	2.19
Field Moisture Content %	11.7	11.9	12.0	12.2
Field Dry Density (FDD) t/m ³	1.98	1.93	1.94	1.96
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.27	2.23	2.26	2.28
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	-0.5	0.0	-0.5
Hilf Density Ratio (%)	97.0	97.0	96.0	96.0
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: GL21/028-8
Issue Number: 1
Date Issued: 14/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5288
Date Sampled: 27/05/2021
Dates Tested: 27/05/2021 - 11/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G21-5288A	G21-5288B	G21-5288C	G21-5288D	G21-5288E	G21-5288F
Test Number	53	54	55	56	57	58
Date Tested	27/05/2021	27/05/2021	27/05/2021	27/05/2021	27/05/2021	27/05/2021
Time Tested	08:20	08:30	08:40	08:50	09:00	09:10
Test Request #/Location	LOT 3008	LOT 3006	LOT 3004	LOT 3002	LOT 2055	LOT 3062
Easting	498526	498535	498520	498540	498530	498731
Northing	6932161	6932132	6932108	6932081	6932050	6932073
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	13	3	0	5	0	0
Field Wet Density (FWD) t/m ³	2.19	2.20	2.23	2.20	2.19	2.21
Field Moisture Content %	11.3	11.7	11.2	10.7	11.6	12.3
Field Dry Density (FDD) t/m ³	1.97	1.97	2.00	1.99	1.96	1.97
Peak Converted Wet Density t/m ³	**	**	2.21	**	2.19	2.13
Adjusted Peak Converted Wet Density t/m ³	2.13	2.12	**	2.13	**	**
Moisture Variation (Wv) %	**	**	0.5	**	0.5	1.0
Adjusted Moisture Variation %	0.5	1.0	**	0.5	**	**
Hilf Density Ratio (%)	102.5	104.0	101.0	103.5	100.5	103.5
Compaction Method	Standard	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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-8
Issue Number: 1
Date Issued: 14/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5288
Date Sampled: 27/05/2021
Dates Tested: 27/05/2021 - 11/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5288G	G21-5288H	G21-5288I	G21-5288J	G21-5288K	G21-5288L
Test Number	59	60	61	62	63	64
Date Tested	27/05/2021	27/05/2021	27/05/2021	27/05/2021	27/05/2021	27/05/2021
Time Tested	11:00	11:10	11:20	11:30	12:00	12:10
Test Request #/Location	LOT 3060	LOT 2065	LOT 2078	LOT 2049	LOT 2063	LOT 3072
Easting	498736	498724	498645	498583	498677	498758
Northing	6932094	6931993	6931959	6931988	6931995	6932086
Elevation (m)	FINISHED LEVEL	2.1m BELOW FL	2.2m BELOW FL	3.5m BELOW FL	2.1m BELOW FL	FINISHED LEVEL
Soil Description	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	7	0	0	0	0
Field Wet Density (FWD) t/m ³	2.24	2.23	2.19	2.20	2.20	2.19
Field Moisture Content %	11.3	12.0	12.1	11.1	11.7	11.9
Field Dry Density (FDD) t/m ³	2.02	1.99	1.95	1.98	1.97	1.96
Peak Converted Wet Density t/m ³	2.20	**	2.18	2.21	2.18	2.20
Adjusted Peak Converted Wet Density t/m ³	**	2.19	**	**	**	**
Moisture Variation (Wv) %	0.5	**	0.5	0.5	0.5	0.5
Adjusted Moisture Variation %	**	0.0	**	**	**	**
Hilf Density Ratio (%)	102.0	102.0	100.5	100.0	101.0	99.5
Compaction Method	Standard	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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-9
Issue Number: 1
Date Issued: 18/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12.1 SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5302
Date Sampled: 28/05/2021
Dates Tested: 28/05/2021 - 09/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5302A	G21-5302B	G21-5302C	G21-5302D
Test Number	65	66	67	68
Date Tested	28/05/2021	28/05/2021	28/05/2021	28/05/2021
Time Tested	10:20	10:30	10:40	10:50
Test Request #/Location	LOT 2073	LOT 2075	LOT 2077	LOT 2078
Easting	498719	498696	498675	498641
Northing	6931959	6931960	6931962	6931967
Elevation (m)	3.5m BELOW FL	2.2m BELOW FL	3m BELOW FL	1.7m BELOW FL
Soil Description	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown	Clayey Sand. Brown
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	7	0
Field Wet Density (FWD) t/m ³	2.20	2.20	2.15	2.20
Field Moisture Content %	12.3	11.8	11.7	12.2
Field Dry Density (FDD) t/m ³	1.96	1.97	1.92	1.96
Peak Converted Wet Density t/m ³	2.09	2.07	**	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	2.05	**
Moisture Variation (Wv) %	1.5	2.0	**	2.5
Adjusted Moisture Variation %	**	**	2.0	**
Hilf Density Ratio (%)	105.5	106.0	105.0	104.5
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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-10
Issue Number: 1
Date Issued: 18/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5328
Date Sampled: 01/06/2021
Dates Tested: 01/06/2021 - 08/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

G Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5328A	G21-5328B	G21-5328C	G21-5328D	G21-5328E	G21-5328F
Test Number	69	70	71	72	73	74
Date Tested	01/06/2021	01/06/2021	01/06/2021	01/06/2021	01/06/2021	01/06/2021
Time Tested	07:30	07:40	07:50	08:00	08:10	08:20
Test Request #/Location	LOT 2073	LOT 2075	LOT 2078	LOT 2046	LOT 2044	LOT 2050
Easting	498726	498702	498659	498607	498582	498569
Northing	6931968	6931958	6931959	6931958	6931964	6931993
Elevation (m)	1.8m BELOW FINISHED LEVEL	1.5m BELOW FINISHED LEVEL	1.0m BELOW FINISHED LEVEL	3.1m BELOW FINISHED LEVEL	2.7m BELOW FINISHED LEVEL	3.0m BELOW FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	19.0	37.5	37.5	37.5
Percentage of Wet Oversize (%)	8	11	14	9	10	11
Field Wet Density (FWD) t/m ³	2.20	2.22	2.18	2.20	2.23	2.22
Field Moisture Content %	15.2	14.8	14.4	14.3	14.4	14.2
Field Dry Density (FDD) t/m ³	1.91	1.93	1.90	1.93	1.95	1.94
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.28	2.29	2.24	2.31	2.33	2.30
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	-0.5	0.0	0.0
Hilf Density Ratio (%)	96.5	97.0	97.0	95.5	96.0	96.5
Compaction Method	Standard	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: GL21/028-10
Issue Number: 1
Date Issued: 18/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5328
Date Sampled: 01/06/2021
Dates Tested: 01/06/2021 - 08/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5328G	G21-5328H	G21-5328I	G21-5328J	G21-5328K	G21-5328L
Test Number	75	76	77	78	79	80
Date Tested	01/06/2021	01/06/2021	01/06/2021	01/06/2021	01/06/2021	01/06/2021
Time Tested	08:30	08:40	08:50	09:00	09:10	09:20
Test Request #/Location	LOT 2048	LOT 2047	LOT 2061	LOT 2063	BAMBOO ROAD	LOT 2064
Easting	498596	498617	498651	498688	498705	498727
Northing	6931993	6931984	6931989	6931995	6931990	6931998
Elevation (m)	3.2m BELOW FINISHED LEVEL	3.4m BELOW FINISHED LEVEL	2.1m BELOW FINISHED LEVEL	1.7m BELOW FINISHED LEVEL	1.1m BELOW SUBGRADE	1.4m BELOW FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	19.0	19.0	19.0	37.5	19.0
Percentage of Wet Oversize (%)	8	15	11	17	13	12
Field Wet Density (FWD) t/m ³	2.22	2.21	2.20	2.20	2.23	2.24
Field Moisture Content %	13.6	14.4	14.7	14.7	14.5	13.9
Field Dry Density (FDD) t/m ³	1.96	1.93	1.92	1.92	1.95	1.97
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.28	2.26	2.27	2.28	2.31	2.34
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.0	0.0	-0.5	-0.5
Hilf Density Ratio (%)	97.5	97.5	97.0	96.5	96.5	96.0
Compaction Method	Standard	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: GL21/028-11
Issue Number: 1
Date Issued: 18/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5342
Date Sampled: 02/06/2021
Dates Tested: 02/06/2021 - 09/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5342A	G21-5342B	G21-5342C	G21-5342D	G21-5342E
Test Number	81	82	83	84	85
Date Tested	02/06/2021	02/06/2021	02/06/2021	02/06/2021	02/06/2021
Time Tested	10:20	10:30	10:40	11:00	11:20
Test Request #/Location	LOT 2046	LOT 2045	LOT 2043	LOT 2042	LOT 2051
Easting	498617	498595	498570	498558	498559
Northing	6931963	6931959	6931962	6931967	6931992
Elevation (m)	1.1m BELOW FINISHED LEVEL	1.7m BELOW FINISHED LEVEL	1.9m BELOW FINISHED LEVEL	1.6m BELOW FINISHED LEVEL	1.8m BELOW FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	14	11	13	10	9
Field Wet Density (FWD) t/m ³	2.18	2.19	2.16	2.18	2.15
Field Moisture Content %	12.4	12.3	13.7	12.7	12.8
Field Dry Density (FDD) t/m ³	1.94	1.95	1.90	1.93	1.91
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.22	2.25	2.24	2.27	2.25
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.5	0.5	0.0	0.0	0.0
Hilf Density Ratio (%)	98.5	97.0	96.5	96.0	95.5
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: GL21/028-11
Issue Number: 1
Date Issued: 18/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5342
Date Sampled: 02/06/2021
Dates Tested: 02/06/2021 - 09/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5342F	G21-5342G	G21-5342H	G21-5342I	G21-5342J
Sample Number					
Test Number	86	87	88	89	90
Date Tested	02/06/2021	02/06/2021	02/06/2021	02/06/2021	02/06/2021
Time Tested	11:30	12:25	12:35	12:45	12:55
Test Request #/Location	LOT 2049	LOT 2047	LOT 2060	LOT 2062	LOT 2078
Easting	498586	498610	498654	498685	498652
Northing	6932005	6931993	6932011	6932014	6931966
Elevation (m)	2.1m BELOW FINISHED LEVEL	2.0m BELOW FINISHED LEVEL	1.5m BELOW FINISHED LEVEL	1.3m BELOW FINISHED LEVEL	0.6m BELOW FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	13	11	10	11	11
Field Wet Density (FWD) t/m ³	2.17	2.17	2.18	2.19	2.21
Field Moisture Content %	13.2	13.5	14.4	13.8	12.4
Field Dry Density (FDD) t/m ³	1.91	1.91	1.91	1.93	1.96
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.26	2.26	2.25	2.27	2.29
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	95.5	96.0	97.0	96.5	96.5
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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-12
Issue Number: 1
Date Issued: 19/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5353
Date Sampled: 03/06/2021
Dates Tested: 03/06/2021 - 09/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5353A	G21-5353B	G21-5353C	G21-5353D
Test Number	91	92	93	94
Date Tested	03/06/2021	03/06/2021	03/06/2021	03/06/2021
Time Tested	14:00	14:10	14:20	14:30
Test Request #/Location	LOT 2074	LOT 2065	LOT 2076	LOT 2063
Easting	498715	498733	498684	498671
Northing	6931954	6931988	6931955	6931990
Elevation (m)	0.8m BELOW FL	1.1m BELOW FL	1.5m BELOW FL	1.2m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	11	12	13	14
Field Wet Density (FWD) t/m ³	2.22	2.20	2.20	2.24
Field Moisture Content %	16.2	15.3	15.4	16.0
Field Dry Density (FDD) t/m ³	1.91	1.91	1.90	1.93
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.30	2.29	2.28	2.30
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	96.5	96.0	96.5	97.5
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: GL21/028-13
Issue Number: 1
Date Issued: 19/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5374
Date Sampled: 07/06/2021
Dates Tested: 07/06/2021 - 10/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5374A	G21-5374B	G21-5374C	G21-5374D
Test Number	95	96	97	98
Date Tested	07/06/2021	07/06/2021	07/06/2021	07/06/2021
Time Tested	07:50	07:55	08:00	08:05
Test Request #/Location	LOT 2061	LOT 2063	LOT 2048	LOT 2050
Easting	498654	498683	498600	498573
Northing	6931992	6931999	6931998	6931999
Elevation (m)	0.8m BELOW FL	0.7m BELOW FL	1.4m BELOW FL	2.4m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	37.5	37.5	37.5
Percentage of Wet Oversize (%)	12	12	14	14
Field Wet Density (FWD) t/m ³	2.24	2.22	2.19	2.17
Field Moisture Content %	13.8	13.5	13.6	14.0
Field Dry Density (FDD) t/m ³	1.97	1.95	1.93	1.90
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.31	2.30	2.29	2.27
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	97.0	96.5	95.5	95.5
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: GL21/028-14
Issue Number: 1
Date Issued: 19/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5387
Date Sampled: 08/06/2021
Dates Tested: 08/06/2021 - 10/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5387A	G21-5387B	G21-5387C	G21-5387D
Sample Number				
Test Number	99	100	101	102
Date Tested	08/06/2021	08/06/2021	08/06/2021	08/06/2021
Time Tested	07:30	07:40	07:50	08:00
Test Request #/Location	LOT 3041	LOT 3043	LOT 2056	LOT 2043
Easting	498659	498659	498616	498571
Northing	6932024	6932046	6932028	6931972
Elevation (m)	1m BELOW FL	0.8m BELOW FL	1m BELOW FL	0.8m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	13	10	13	13
Field Wet Density (FWD) t/m ³	2.20	2.19	2.19	2.20
Field Moisture Content %	11.9	11.8	12.8	12.4
Field Dry Density (FDD) t/m ³	1.96	1.96	1.94	1.96
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.30	2.27	2.29	2.30
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	-0.5	0.5	0.0	0.0
Hilf Density Ratio (%)	95.5	96.5	96.0	95.5
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: GL21/028-15
Issue Number: 1
Date Issued: 19/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5406
Date Sampled: 10/06/2021
Dates Tested: 10/06/2021 - 14/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5406A	G21-5406B	G21-5406C	G21-5406D	G21-5406E	G21-5406F
Test Number	103	104	105	106	107	108
Date Tested	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021	10/06/2021
Time Tested	08:30	08:40	08:50	10:00	10:10	10:30
Test Request #/Location	MOSS STREET	LOT 3043	LOT 3040	LOT 3066	LOT 2064	LOT 2072
Easting	498630	498645	498650	498719	498734	498735
Northing	6931958	6932023	6932059	6932014	6931999	6931966
Elevation (m)	1.0m BELOW FL	0.6m BELOW FL	0.6m BELOW FL	0.6m BELOW FL	0.6m BELOW FL	0.6m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	19.0	37.5	37.5	19.0	37.5
Percentage of Wet Oversize (%)	12	12	12	9	10	14
Field Wet Density (FWD) t/m ³	2.20	2.22	2.22	2.22	2.20	2.24
Field Moisture Content %	9.9	11.4	10.1	10.4	10.0	10.4
Field Dry Density (FDD) t/m ³	2.00	1.99	2.01	2.01	2.00	2.03
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.28	2.30	2.28	2.30	2.30	2.31
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.5	0.0	0.0	0.0
Hilf Density Ratio (%)	96.5	96.5	97.0	96.0	95.5	97.0
Compaction Method	Standard	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: GL21/028-16
Issue Number: 1
Date Issued: 26/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5423
Date Sampled: 14/06/2021
Dates Tested: 14/06/2021 - 18/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5423A	G21-5423B	G21-5423C	G21-5423D
Test Number	109	110	111	112
Date Tested	14/06/2021	14/06/2021	14/06/2021	14/06/2021
Time Tested	08:30	08:40	08:50	10:00
Test Request #/Location	LOT 2070	LOT 2071	LOT 2062	LOT 2061
Easting	498752	498753	498686	498646
Northing	6931951	6931962	6932007	6931996
Elevation (m)	1.4m BELOW FL	1.1m BELOW FL	1.0m BELOW FL	0.6m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	19.0	19.0	37.5
Percentage of Wet Oversize (%)	13	16	12	13
Field Wet Density (FWD) t/m ³	2.22	2.21	2.20	2.23
Field Moisture Content %	10.8	10.7	10.1	10.2
Field Dry Density (FDD) t/m ³	2.00	2.00	2.00	2.02
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.26	2.26	2.31
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.5	0.0
Hilf Density Ratio (%)	97.0	98.0	97.5	96.5
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: GL21/028-16
Issue Number: 1
Date Issued: 26/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5423
Date Sampled: 14/06/2021
Dates Tested: 14/06/2021 - 18/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: AS 1289.5.7.1 and 1289.2.1.1 laboratory Testing carried out by Morrison Geotechnic's Darra Laboratory. NATA Accreditation No. 1169, Site No. 1162.
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	G21-5423E	G21-5423F	G21-5423G	G21-5423H
Sample Number	113	114	115	116
Test Number	14/06/2021	14/06/2021	14/06/2021	14/06/2021
Date Tested	10:10	10:20	12:00	12:30
Time Tested	LOT 2060	LOT 3042	LOT 2065	LOT 2047
Test Request #/Location	498663	498652	498739	498618
Easting	6932011	6932037	6931983	6932001
Northing	0.7m BELOW FL	0.6m BELOW FL	0.6m BELOW FL	0.8m BELOW FL
Elevation (m)	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Soil Description	150	150	150	150
Test Depth (mm)	37.5	37.5	37.5	37.5
Sieve used to determine oversize (mm)	16	15	14	13
Percentage of Wet Oversize (%)	2.26	2.24	2.22	2.23
Field Wet Density (FWD) t/m ³	10.5	10.3	10.4	10.2
Field Moisture Content %	2.04	2.03	2.01	2.03
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.32	2.30	2.29	2.31
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.0	0.0
Adjusted Moisture Variation %	97.0	97.0	97.0	96.5
Hilf Density Ratio (%)	Standard	Standard	Standard	Standard
Compaction Method	**	**	**	**
Report Remarks				

Moisture Variation Note:

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

Material Test Report



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 Gold Coast Laboratory
 ABN: 51 009 878 899
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
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 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-17
Issue Number: 1
Date Issued: 26/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5446
Date Sampled: 17/06/2021
Dates Tested: 17/06/2021 - 21/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

G Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G21-5446A	G21-5446B	G21-5446C	G21-5446D	G21-5446E
Test Number	117	118	119	120	121
Date Tested	17/06/2021	17/06/2021	17/06/2021	17/06/2021	17/06/2021
Time Tested	09:10	09:20	09:30	09:40	09:50
Test Request #/Location	LOT 3046	LOT 3044	LOT 2054	LOT 2014	LOT 2058
Easting	498681	498688	498526	498523	498599
Northing	6932048	6932021	6932023	6931986	6932039
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	37.5	37.5	37.5	19.0
Percentage of Wet Oversize (%)	14	14	12	10	18
Field Wet Density (FWD) t/m ³	2.21	2.24	2.26	2.24	2.18
Field Moisture Content %	12.6	12.2	12.0	12.6	12.1
Field Dry Density (FDD) t/m ³	1.96	1.99	2.02	1.99	1.94
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.30	2.31	2.33	2.29	2.26
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.0	0.5	0.5
Hilf Density Ratio (%)	96.0	97.0	97.0	98.0	96.5
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: GL21/028-17
Issue Number: 1
Date Issued: 26/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5446
Date Sampled: 17/06/2021
Dates Tested: 17/06/2021 - 21/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G21-5446F	G21-5446G	G21-5446H	G21-5446I	G21-5446J
Test Number	122	123	124	125	126
Date Tested	17/06/2021	17/06/2021	17/06/2021	17/06/2021	17/06/2021
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	LOT 2056	LOT 3063	LOT 3075	LOT 3058	LOT 3054
Easting	498570	498727	498761	498729	498722
Northing	6932036	6932043	6932112	6932128	6932147
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	19.0
Percentage of Wet Oversize (%)	12	11	12	10	16
Field Wet Density (FWD) t/m ³	2.24	2.22	2.21	2.22	2.19
Field Moisture Content %	12.7	12.1	13.1	12.7	12.7
Field Dry Density (FDD) t/m ³	1.99	1.98	1.96	1.97	1.94
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.33	2.29	2.29	2.28	2.27
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.5	0.0	0.5
Hilf Density Ratio (%)	96.5	97.0	96.5	97.5	96.5
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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
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 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
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 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-18
Issue Number: 1
Date Issued: 26/06/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5457
Date Sampled: 18/06/2021
Dates Tested: 18/06/2021 - 22/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite 200mm minus



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5457A	G21-5457B	G21-5457C	G21-5457D
Test Number	127	128	129	130
Date Tested	18/06/2021	18/06/2021	18/06/2021	18/06/2021
Time Tested	10:00	10:20	12:00	14:00
Test Request #/Location	LOT 3056	LOT 3070	LOT 3068	LOT 2164
Easting	498751	498758	498750	498805
Northing	6932148	6932056	6932030	6931940
Layer / Reduced Level	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	0.8m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
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 (%)	14	13	9	14
Field Wet Density (FWD) t/m ³	2.20	2.23	2.17	2.21
Field Moisture Content %	10.7	11.5	10.6	10.9
Field Dry Density (FDD) t/m ³	1.99	2.00	1.96	1.99
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.28	2.24	2.27
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	0.5	0.5	0.5
Hilf Density Ratio (%)	96.0	97.5	97.0	97.5
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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
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 Email: gtaylor@mgeo.com.au

Report Number: GL21/028-19
Issue Number: 1
Date Issued: 02/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5469
Date Sampled: 21/06/2021
Dates Tested: 21/06/2021 - 29/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G21-5469A	G21-5469B	
Test Number	131	132	
Date Tested	21/06/2021	21/06/2021	
Time Tested	11:00	11:10	
Test Request #/Location	LOT 3122	LOT 3122	
Easting	498826	498827	
Northing	6931947	6931954	
Elevation (m)	2m BELOW FINISHED LEVEL	1.5m BELOW FINISHED LEVEL	
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	14	12	
Field Wet Density (FWD) t/m ³	2.21	2.20	
Field Moisture Content %	10.0	9.7	
Field Dry Density (FDD) t/m ³	2.01	2.01	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.27	2.19	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.5	0.0	
Hilf Density Ratio (%)	97.0	100.5	
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



Brisbane | Gold Coast | Maroochydore
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Report Number: GL21/028-20
Issue Number: 1
Date Issued: 09/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5482
Date Sampled: 22/06/2021
Dates Tested: 22/06/2021 - 29/06/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5482A	G21-5482B	G21-5482C	G21-5482D
Test Number	133	134	135	136
Date Tested	22/06/2021	22/06/2021	22/06/2021	22/06/2021
Time Tested	10:00	10:10	10:20	10:30
Test Request #/Location	LOT 3122	LOT 3120	LOT 2071	LOT 2066
Chainage (m)	498835	498855	498762	498763
Location Offset (m)	6931966	6931970	6931964	6932000
Elevation (m)	0.6m BELOW FL	0.7m BELOW FL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	19.0
Percentage of Wet Oversize (%)	14	13	15	16
Field Wet Density (FWD) t/m ³	2.26	2.21	2.22	2.24
Field Moisture Content %	11.7	12.2	12.0	12.3
Field Dry Density (FDD) t/m ³	2.02	1.97	1.98	1.99
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.33	2.28	2.32	2.30
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.5
Hilf Density Ratio (%)	97.0	97.0	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



Brisbane | Gold Coast | Maroochydore
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Report Number: GL21/028-21
Issue Number: 1
Date Issued: 09/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5497
Date Sampled: 24/06/2021
Dates Tested: 24/06/2021 - 02/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

G Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G21-5497A	G21-5497B	G21-5497C	G21-5497D	G21-5497E	G21-5497F
Test Number	137	138	139	140	141	142
Date Tested	24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021
Time Tested	09:50	10:00	10:10	10:20	10:30	11:40
Test Request #/Location	LOT 2145	LOT 2148	LOT 3124	LOT 2166	LOT 3122	LOT 2069
Easting	498884	498878	498839	498799	498824	498801
Northing	6931849	6931887	6931939	6931964	6931965	6931997
Elevation (m)	0.8m BELOW FINISHED LEVEL	0.6m BELOW FINISHED LEVEL	0.6m BELOW FINISHED LEVEL	0.6m BELOW FINISHED LEVEL	0.8m BELOW FINISHED LEVEL	FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	37.5	37.5	37.5	19.0	19.0
Percentage of Wet Oversize (%)	13	12	13	12	13	12
Field Wet Density (FWD) t/m ³	2.21	2.23	2.21	2.24	2.24	2.20
Field Moisture Content %	13.1	13.4	13.7	13.4	13.3	13.0
Field Dry Density (FDD) t/m ³	1.95	1.97	1.95	1.97	1.98	1.94
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.31	2.31	2.32	2.29	2.29
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.5	0.0	0.0	0.0	0.5	0.0
Hilf Density Ratio (%)	96.0	96.5	95.5	96.0	98.0	96.0
Compaction Method	Standard	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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Report Number: GL21/028-22
Issue Number: 1
Date Issued: 09/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5524
Date Sampled: 30/06/2021
Dates Tested: 30/06/2021 - 08/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5524A	G21-5524B	G21-5524C	G21-5524D
Test Number	143	144	145	146
Date Tested	30/06/2021	30/06/2021	30/06/2021	30/06/2021
Time Tested	10:50	10:55	11:00	11:10
Test Request #/Location	LOT 3083	LOT 3081	LOT 3077	LOT 3079
Easting	498794	498794	498810	498843
Northing	6932086	6932108	6932148	6932136
Elevation (m)	0.6m BELOW FL	0.6m BELOW FL	0.6m BELOW FL	0.8m BELOW FL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	13	13	11	11
Field Wet Density (FWD) t/m ³	2.22	2.20	2.18	2.21
Field Moisture Content %	10.2	9.8	9.7	10.0
Field Dry Density (FDD) t/m ³	2.01	2.00	1.99	2.01
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.31	2.29	2.28	2.28
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	-0.5	0.0
Hilf Density Ratio (%)	96.0	96.0	95.5	96.5
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



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

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Gold Coast Laboratory

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Report Number: GL21/028-22
Issue Number: 1
Date Issued: 09/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5524
Date Sampled: 30/06/2021
Dates Tested: 30/06/2021 - 08/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G21-5524E	G21-5524F	G21-5524G
Test Number	147	148	149
Date Tested	30/06/2021	30/06/2021	30/06/2021
Time Tested	11:20	11:40	12:00
Test Request #/Location	LOT 2041	LOT 3128	LOT 2165
Easting	498547	498881	498805
Northing	6931971	6931908	6931950
Elevation (m)	0.7m BELOW FL	1m BELOW FL	FINISHED LEVEL
Soil Description	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown	Clayey Sand. Orange-Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5
Percentage of Wet Oversize (%)	11	12	11
Field Wet Density (FWD) t/m ³	2.22	2.20	2.23
Field Moisture Content %	10.0	9.7	9.0
Field Dry Density (FDD) t/m ³	2.02	2.00	2.05
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.27	2.29
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0
Hilf Density Ratio (%)	97.0	96.5	97.5
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: GL21/028-23
Issue Number: 1
Date Issued: 14/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5565
Date Sampled: 07/07/2021
Dates Tested: 07/07/2021 - 12/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5565A	G21-5565B	G21-5565C	G21-5565D
Test Number	150	151	152	153
Date Tested	07/07/2021	07/07/2021	07/07/2021	07/07/2021
Time Tested	10:00	10:10	10:30	10:40
Test Request #/Location	LOT 2052	LOT 2050	LOT 2048	LOT 2046
Easting	498543	498573	498599	498612
Northing	6931993	6931986	6932002	6931964
Layer / Reduced Level	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	11	12	12	13
Field Wet Density (FWD) t/m ³	2.22	2.21	2.22	2.25
Field Moisture Content %	10.3	10.6	9.7	10.3
Field Dry Density (FDD) t/m ³	2.01	2.00	2.03	2.04
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.29	2.28	2.31
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	0.5	0.5	0.0
Hilf Density Ratio (%)	97.0	96.5	97.5	97.5
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



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Morrison Geotechnic Pty Ltd

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Report Number: GL21/028-23
Issue Number: 1
Date Issued: 14/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5565
Date Sampled: 07/07/2021
Dates Tested: 07/07/2021 - 12/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor

Geotech Field Supervisor

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5565E	G21-5565F	G21-5565G	G21-5565H
Test Number	154	155	156	157
Date Tested	07/07/2021	07/07/2021	07/07/2021	07/07/2021
Time Tested	10:50	11:10	12:00	12:15
Test Request #/Location	LOT 2044	LOT 2042	LOT 2014	LOT 2012
Easting	498586	498557	498524	498527
Northing	6931955	6931971	6931954	6931916
Layer / Reduced Level	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	13	14	14	12
Field Wet Density (FWD) t/m ³	2.23	2.23	2.22	2.23
Field Moisture Content %	9.9	9.8	10.3	10.3
Field Dry Density (FDD) t/m ³	2.03	2.03	2.01	2.02
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.31	2.30	2.32	2.31
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.0	0.0
Hilf Density Ratio (%)	96.5	97.0	95.5	96.5
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



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

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Gold Coast Laboratory

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Report Number: GL21/028-24
Issue Number: 1
Date Issued: 14/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5570
Date Sampled: 08/07/2021
Dates Tested: 08/07/2021 - 12/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor

Geotech Field Supervisor

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G21-5570A	G21-5570B	G21-5570C	G21-5570D	G21-5570E	G21-5570F
Test Number	158	159	160	161	162	163
Date Tested	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021
Time Tested	12:45	12:55	13:05	13:15	13:25	13:30
Test Request #/Location	LOT 2073	LOT 2075	LOT 2077	LOT 2079	LOT 3066	LOT 2065
Easting	498725	498700	498675	498648	498728	498730
Northing	6931952	6931953	6931953	6931949	6932014	6931989
Layer / Reduced Level	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay, Orange-Brown	Sandy Gravelly Clay, Orange-Brown	Sandy Gravelly Clay, Orange-Brown	Sandy Gravelly Clay, Orange-Brown	Sandy Gravelly Clay, Orange-Brown	Sandy Gravelly Clay, Orange-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	9	11	10	11	13	12
Field Wet Density (FWD) t/m ³	2.25	2.21	2.24	2.21	2.26	2.23
Field Moisture Content %	10.6	10.1	10.9	12.5	14.4	14.3
Field Dry Density (FDD) t/m ³	2.03	2.00	2.02	1.96	1.97	1.95
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.31	2.31	2.32	2.29	2.32	2.31
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	97.5	95.5	96.5	96.0	97.0	96.5
Compaction Method	Standard	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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
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Report Number: GL21/028-25
Issue Number: 1
Date Issued: 15/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5585
Dates Tested: 13/07/2021 - 14/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

G Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G21-5585A	G21-5585B	G21-5585C	G21-5585D	G21-5585E	G21-5585F
Test Number	164	165	166	167	168	169
Date Tested	13/07/2021	13/07/2021	13/07/2021	13/07/2021	13/07/2021	13/07/2021
Time Tested	10:10	10:20	10:30	12:15	13:00	13:30
Test Request #/Location	LOT 2144	LOT 2146	LOT 2148	LOT 2142	LOT 3098	LOT 3096
Easting	498912	498882	498876	498913	498902	498871
Northing	6931849	6931861	6931885	6931882	6932130	6932125
Layer / Reduced Level	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	12	12	10	12	13	11
Field Wet Density (FWD) t/m ³	2.23	2.23	2.26	2.22	2.24	2.24
Field Moisture Content %	9.5	10.3	11.4	12.8	12.2	12.6
Field Dry Density (FDD) t/m ³	2.04	2.02	2.02	1.97	2.00	1.99
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.31	2.28	2.29	2.30	2.29
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0	0.0	0.5
Hilf Density Ratio (%)	97.5	96.5	99.0	97.0	97.5	98.0
Compaction Method	Standard	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



Brisbane | Gold Coast | Maroochydore
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Report Number: GL21/028-26
Issue Number: 1
Date Issued: 23/07/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5611
Dates Tested: 16/07/2021 - 20/07/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G21-5611A	G21-5611B	G21-5611C	G21-5611D	G21-5611E	G21-5611F
Test Number	170	171	172	173	174	175
Date Tested	16/07/2021	16/07/2021	16/07/2021	16/07/2021	16/07/2021	16/07/2021
Time Tested	11:10	11:20	11:30	11:40	13:00	13:15
Test Request #/Location	FUTURE LOT - STAGE 9.4	LOT 3080	LOT 3082	LOT 3084	LOT 3094	LOT 3092
Easting	498924	498804	498804	498801	498834	498831
Northing	6932225	6932122	6932099	6932074	6932110	6932088
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	17	17	16	17	16	16
Field Wet Density (FWD) t/m ³	2.22	2.24	2.22	2.23	2.23	2.24
Field Moisture Content %	13.1	12.7	4.4	13.3	13.0	12.8
Field Dry Density (FDD) t/m ³	1.96	1.99	2.13	1.96	1.97	1.98
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.29	2.30	2.29	2.29	2.30
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0	0.5	0.0
Hilf Density Ratio (%)	97.0	98.0	96.5	97.5	97.5	97.5
Compaction Method	Standard	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: GL21/028-27
Issue Number: 1
Date Issued: 13/08/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5797
Dates Tested: 06/08/2021 - 10/08/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-5797A	G21-5797B	G21-5797C	G21-5797D
Test Number	184	185	186	187
Date Tested	06/08/2021	06/08/2021	06/08/2021	06/08/2021
Time Tested	08:00	08:10	08:20	08:30
Test Request #/Location	LOT 3090	LOT 3039	LOT 3041	LOT 3043
Easting	498835	498650	498650	498652
Northing	6932061	6932075	6932048	6932024
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
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 (%)	16	14	14	17
Field Wet Density (FWD) t/m ³	2.17	2.17	2.16	2.18
Field Moisture Content %	11.5	11.9	11.6	12.0
Field Dry Density (FDD) t/m ³	1.95	1.94	1.94	1.94
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.23	2.24	2.22	2.25
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	0.0	0.5	0.0
Hilf Density Ratio (%)	97.5	97.0	97.5	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: GL21/028-27
Issue Number: 1
Date Issued: 13/08/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5797
Dates Tested: 06/08/2021 - 10/08/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G21-5797E	G21-5797F	G21-5797G
Test Number	188	189	190
Date Tested	06/08/2021	06/08/2021	06/08/2021
Time Tested	13:45	13:55	14:05
Test Request #/Location	LOT 2061	LOT 2062	LOT 2077
Easting	498660	498682	498676
Northing	6931995	6932008	6931960
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	17	19	15
Field Wet Density (FWD) t/m ³	2.16	2.18	2.18
Field Moisture Content %	11.1	11.2	10.8
Field Dry Density (FDD) t/m ³	1.94	1.96	1.96
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.25	2.26	2.26
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0
Hilf Density Ratio (%)	96.0	96.5	96.0
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



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

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Report Number: GL21/028-28
Issue Number: 1
Date Issued: 15/08/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5743
Dates Tested: 30/07/2021 - 02/08/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5743A	G21-5743B	G21-5743C	G21-5743D
Test Number	176	177	178	179
Date Tested	30/07/2021	30/07/2021	30/07/2021	30/07/2021
Time Tested	08:10	08:20	08:30	08:40
Test Request #/Location	LOT 3101	LOT 3103	LOT 3086	LOT 3115
Easting	498881	498874	498810	498914
Northing	6932096	6932065	6932042	6932061
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	14	15	15	14
Field Wet Density (FWD) t/m ³	2.22	2.24	2.22	2.25
Field Moisture Content %	11.4	11.0	10.9	12.1
Field Dry Density (FDD) t/m ³	1.99	2.02	2.00	2.01
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.30	2.31	2.29	2.32
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	96.5	97.0	96.5	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



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
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Report Number: GL21/028-28
Issue Number: 1
Date Issued: 15/08/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5743
Dates Tested: 30/07/2021 - 02/08/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5743E	G21-5743F	G21-5743G	G21-5743H
Test Number	180	181	182	183
Date Tested	30/07/2021	30/07/2021	30/07/2021	30/07/2021
Time Tested	14:10	14:20	14:40	15:00
Test Request #/Location	LOT 3117	LOT 3154	LOT 3156	LOT 3158
Easting	498909	498967	498967	498968
Northing	6932088	6931814	6931781	6931762
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
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 (%)	17	16	18	19
Field Wet Density (FWD) t/m ³	2.19	2.17	2.20	2.18
Field Moisture Content %	11.3	12.3	10.8	10.8
Field Dry Density (FDD) t/m ³	1.97	1.93	1.99	1.97
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.27	2.25	2.26	2.26
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	0.0	0.5	0.0
Hilf Density Ratio (%)	96.5	96.0	97.5	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



Brisbane | Gold Coast | Maroochydore
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Report Number: GL21/028-29
Issue Number: 1
Date Issued: 19/08/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5814
Dates Tested: 10/08/2021 - 16/08/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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G Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G21-5814A	G21-5814B	G21-5814C	G21-5814D	G21-5814E	G21-5814F
Test Number	191	192	193	194	195	196
Date Tested	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021	10/08/2021
Time Tested	09:00	09:10	10:00	10:10	14:50	15:00
Test Request #/Location	LOT 3113	LOT 3111	LOT 3105	LOT 3107	LOT 3078	LOT 3076
Easting	498922	498938	498887	498895	498826	498797
Northing	6932033	6932001	6932041	6932012	6932142	6932146
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	14	15	17	16	18	17
Field Wet Density (FWD) t/m ³	2.18	2.17	2.20	2.16	2.19	2.21
Field Moisture Content %	9.7	10.9	9.9	10.9	10.5	9.4
Field Dry Density (FDD) t/m ³	1.98	1.96	2.00	1.95	1.98	2.02
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.25	2.26	2.28	2.24	2.27	2.27
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.5	0.0	0.0	0.5	0.0	0.0
Hilf Density Ratio (%)	97.0	96.0	96.5	96.5	96.5	97.0
Compaction Method	Standard	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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Morrison Geotechnic Pty Ltd

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Gold Coast Laboratory

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Report Number: GL21/028-30
Issue Number: 1
Date Issued: 28/08/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5873
Dates Tested: 18/08/2021 - 23/08/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor

Geotech Field Supervisor

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5873A	G21-5873B	G21-5873C	G21-5873D
Test Number	197	198	199	200
Date Tested	18/08/2021	18/08/2021	18/08/2021	18/08/2021
Time Tested	15:15	15:25	15:35	15:45
Test Request #/Location	LOT 3088	LOT 3109	LOT 3121	LOT 3125
Easting	498838	498911	498845	498860
Northing	6932023	6931983	6931970	6931945
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
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 (%)	14	16	18	16
Field Wet Density (FWD) t/m ³	2.19	2.18	2.20	2.15
Field Moisture Content %	10.1	11.2	11.1	12.3
Field Dry Density (FDD) t/m ³	1.99	1.96	1.98	1.92
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.24	2.25	2.27	2.24
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	98.0	96.5	97.0	96.0
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



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

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Gold Coast Laboratory

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Report Number: GL21/028-30
Issue Number: 1
Date Issued: 28/08/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 5873
Dates Tested: 18/08/2021 - 23/08/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor

Geotech Field Supervisor

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-5873E	G21-5873F	G21-5873G	G21-5873H
Test Number	201	202	203	204
Date Tested	18/08/2021	18/08/2021	18/08/2021	18/08/2021
Time Tested	15:55	16:10	16:20	16:30
Test Request #/Location	LOT 3152	LOT 3119	LOT 3127	LOT 3129
Easting	498956	498866	498884	498906
Northing	6931839	6931987	6931964	6931917
Elevation (m)	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
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 (%)	19	17	17	18
Field Wet Density (FWD) t/m ³	2.20	2.18	2.18	2.20
Field Moisture Content %	10.4	10.6	10.7	11.0
Field Dry Density (FDD) t/m ³	1.99	1.97	1.97	1.98
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.28	2.26	2.25	2.27
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	96.5	96.5	97.0	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



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Report Number: GL21/028-31
Issue Number: 1
Date Issued: 25/10/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6205
Date Sampled: 11/10/2021
Dates Tested: 11/10/2021 - 21/10/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G21-6205A	G21-6205B	G21-6205C	G21-6205D	G21-6205E	G21-6205F
Test Number	205	206	207	208	209	210
Date Tested	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021
Time Tested	12:00	12:10	12:20	12:30	12:40	12:50
Test Request #/Location	AMBER CIRCUIT	MOSS STREET	LOT 3131	LOT 3139	LOT 3141	LOT3133
Easting	498581	498629	498919	498962	498936	498945
Northing	6932158	6932078	6931926	6931919	6931903	6931947
Elevation (m)	**	**	**	**	**	**
Layer / Reduced Level	0.5m BELOW SG	0.45m BELOW SG	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	11	11	11	12	11
Field Wet Density (FWD) t/m ³	2.16	2.19	2.17	2.17	2.16	2.18
Field Moisture Content %	15.4	16.6	14.5	12.7	12.4	12.2
Field Dry Density (FDD) t/m ³	1.87	1.88	1.89	1.93	1.92	1.94
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.26	2.27	2.28	2.28	2.20	2.24
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	-1.0	0.0	0.0	-0.5	0.0	0.0
Hilf Density Ratio (%)	95.5	96.5	95.5	95.5	98.0	97.5
Compaction Method	Standard	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: GL21/028-32
Issue Number: 1
Date Issued: 28/10/2021
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6235
Date Sampled: 20/10/2021
Dates Tested: 20/10/2021 - 21/10/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G21-6235A	G21-6235B	G21-6235C	G21-6235D
Test Number	211	212	213	214
Date Tested	20/10/2021	20/10/2021	20/10/2021	20/10/2021
Time Tested	10:05	10:10	10:15	10:20
Test Request #/Location	MOSS STREET	MOSS STREET	AMBER CIRCUIT	AMBER CIRCUIT
Easting	498693	498632	498613	498554
Northing	6932186	6932176	6932161	6932113
Elevation (m)	0.5m BELOW SG	0.3m BELOW SG	0.6m BELOW SG	0.3m BELOW SG
Soil Description	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown
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 (%)	9	11	11	7
Field Wet Density (FWD) t/m ³	2.16	2.16	2.15	2.16
Field Moisture Content %	11.5	11.3	10.8	11.0
Field Dry Density (FDD) t/m ³	1.94	1.94	1.94	1.94
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.08	2.09	2.10	2.06
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.5	1.0	1.5	1.5
Hilf Density Ratio (%)	104.0	103.0	102.5	104.5
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



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Report Number: GL21/028-33
Issue Number: 1
Date Issued: 15/11/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6306
Date Sampled: 02/11/2021
Dates Tested: 02/11/2021 - 09/11/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-6306A	G21-6306B	G21-6306C	G21-6306D
Test Number	215	216	217	218
Date Tested	02/11/2021	02/11/2021	02/11/2021	02/11/2021
Time Tested	11:30	11:40	14:00	14:10
Test Request #/Location	AMBER CIRCUIT	MOSS STREET	MOSS STREET	BAMBOO ROAD
Easting	498555	498657	498718	498709
Northing	6932146	6932189	6932184	6932137
Layer / Reduced Level	SUBGRADE	SUBGRADE	SUBGRADE	0.5m BELOW SG
Soil Description	Sandy Gravel. Brown	Sandy Gravel. Brown	Sandy Gravel. Brown	Sandy Gravel. Brown
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 (%)	10	7	9	9
Field Wet Density (FWD) t/m ³	2.17	2.18	2.16	2.17
Field Moisture Content %	8.7	9.3	9.0	9.3
Field Dry Density (FDD) t/m ³	2.00	2.00	1.98	1.98
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.19	2.18	2.18	2.20
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.5	1.0	1.0	1.0
Hilf Density Ratio (%)	99.0	100.0	99.0	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



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Report Number: GL21/028-34
Issue Number: 1
Date Issued: 27/11/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6356
Date Sampled: 09/11/2021
Dates Tested: 09/11/2021 - 11/11/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G21-6356A	G21-6356B	
Test Number	219	220	
Date Tested	09/11/2021	09/11/2021	
Time Tested	10:10	10:20	
Test Request #/Location	RUSSETT STREET	MOSS STREET	
Easting	498780	498792	
Northing	6932056	6932169	
Layer / Reduced Level	0.4m BELOW SG	0.4m BELOW SG	
Soil Description	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	9	11	
Field Wet Density (FWD) t/m ³	2.18	2.17	
Field Moisture Content %	11.8	12.2	
Field Dry Density (FDD) t/m ³	1.95	1.93	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.20	2.23	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	-0.5	0.5	
Hilf Density Ratio (%)	98.5	97.0	
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



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Report Number: GL21/028-35
Issue Number: 1
Date Issued: 21/12/2021
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6494
Date Sampled: 13/12/2021
Dates Tested: 13/12/2021 - 20/12/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G21-6494A	G21-6494B	G21-6494C	G21-6494D
Test Number	221	222	223	224
Date Tested	13/12/2021	13/12/2021	13/12/2021	13/12/2021
Time Tested	13:00	13:10	13:20	13:30
Test Request #/Location	KESSELS BOULEVARD	BOTANICA ROAD	MOSS STREET	DRIVEWAY 4
Easting	498948	498854	498858	498896
Northing	6931981	6932007	6932095	6932148
Layer / Reduced Level	0.3m BELOW SG	0.4m BELOW SG	0.4m BELOW SG	SUBGRADE
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
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 (%)	11	12	13	11
Field Wet Density (FWD) t/m ³	2.16	2.17	2.17	2.16
Field Moisture Content %	10.6	12.7	11.7	12.5
Field Dry Density (FDD) t/m ³	1.95	1.93	1.94	1.92
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.24	2.22	2.23	2.22
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	96.5	97.5	97.0	97.5
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



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Report Number: GL21/028-36
Issue Number: 1
Date Issued: 20/02/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6669
Date Sampled: 01/02/2022
Dates Tested: 01/02/2022 - 04/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD \pm 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G22-6669A	G22-6669B	
Test Number	225	226	
Date Tested	02/02/2022	02/02/2022	
Time Tested	12:15	13:35	
Test Request #/Location	LOT 3008	LOT 3009	
Easting	498519	498519	
Northing	6932164	6932181	
Elevation (m)	0.7m BELOW FL	0.3m BELOW FL	
Soil Description	Sandy Gravel. Grey	Sandy Gravel. Grey	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	14	13	
Field Wet Density (FWD) t/m ³	2.45	2.48	
Field Moisture Content %	7.7	6.7	
Field Dry Density (FDD) t/m ³	2.27	2.33	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.38	2.37	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	1.0	1.0	
Hilf Density Ratio (%)	103.0	105.0	
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



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Report Number: GL21/028-37
Issue Number: 1
Date Issued: 20/02/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: David, Callum
Project Number: GL21/028
Project Name: Everleigh Precinct 12 - SP2 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6678
Date Sampled: 02/02/2022
Dates Tested: 02/02/2022 - 03/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G22-6678A	G22-6678B	
Test Number	227	228	
Date Tested	02/02/2022	02/02/2022	
Time Tested	11:52	14:09	
Test Request #/Location	LOT 3010	LOT 3010	
Easting	498517	498531	
Northing	6932190	6932189	
Elevation (m)	1m BELOW FL	FINISHED LEVEL	
Layer / Reduced Level	Old Power Pole	Old Power Pole	
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	8	6	
Field Wet Density (FWD) t/m ³	2.15	2.17	
Field Moisture Content %	8.7	8.4	
Field Dry Density (FDD) t/m ³	1.98	2.00	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.14	2.13	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	1.5	1.5	
Hilf Density Ratio (%)	100.5	102.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

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