

Level One Compliance Report

BULK EARTHWORKS FILLING OPERATIONS Everleigh Estate - Precinct 9.4

January 31, 2023

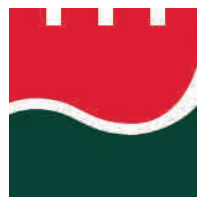
Prepared By

MORRISON GEOTECHNIC PTY LTD

Prepared for:

Shadforth Civil Pty Ltd

Document Reference: PTP/10047



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GEOTECHNIC

Gold Coast Office
Job No: PTP/10047
Ref No: P9.4
Author: G. Taylor

31st January 2023

Shadforth Civil
99 Sandalwood Lane
Forest Glen Qld 4556

ATTENTION: MR JACOB HINES
Email: jacob.hines@shadcivil.com.au

Dear Sir,

**RE: LEVEL ONE COMPLIANCE REPORT FOR BULK EARTHWORKS FILLING OPERATIONS,
EVERLEIGH ESTATE - PRECINCT 9.4, TEVIOT ROAD, GREENBANK**

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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 Everleigh Estate – Precinct 9.4, Teviot Road, Greenbank.

Earthworks operations were carried out by Shadforth Civil.

Earthworks filling operations for Precinct 9.4 allotments and roads were carried out between 8th September and 10th October 2022.

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

Figure 1 and Figure 2 present the extent of earthworks as shown on the Premise Earthworks Drawings MIR-0904-C201-C and MIR-0904-C202-C.

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 9.4) - Premise Earthwork Drawing MIR-0904-C201-C

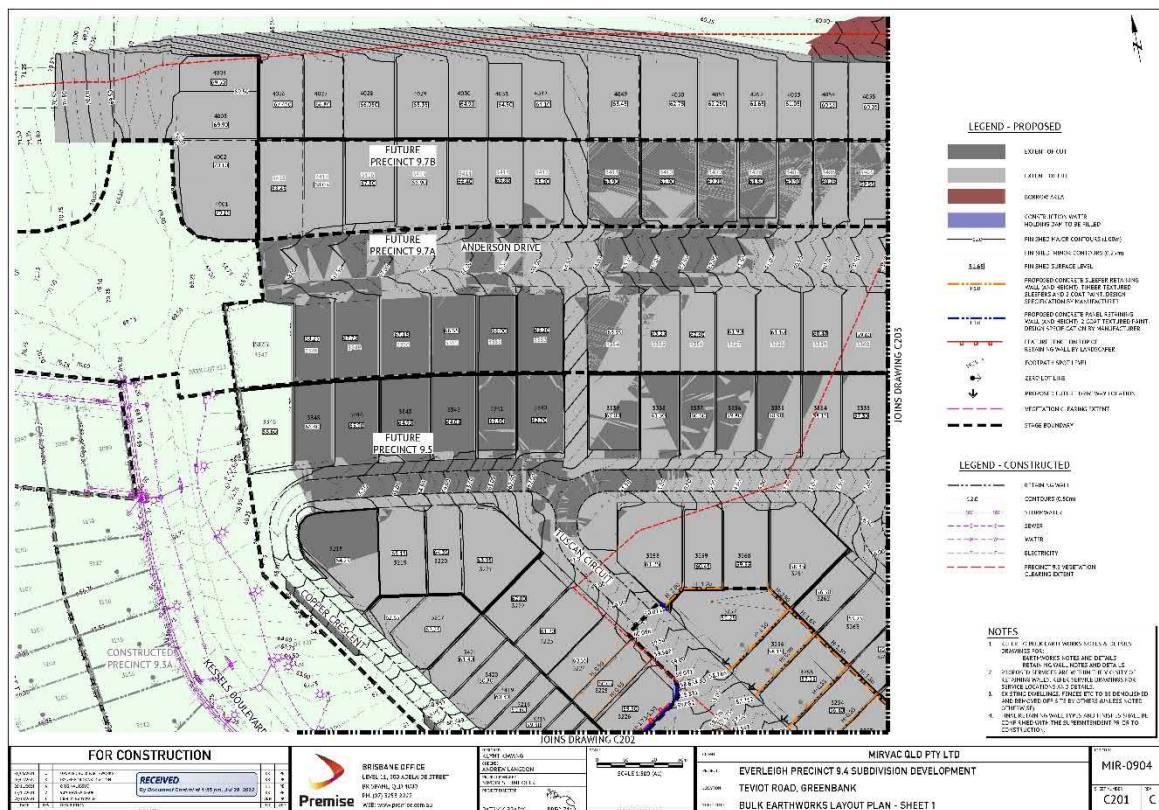


Figure 2: Extent of Fill (Precinct 9.4) - Premise Earthwork Drawing MIR-0904-C202-C

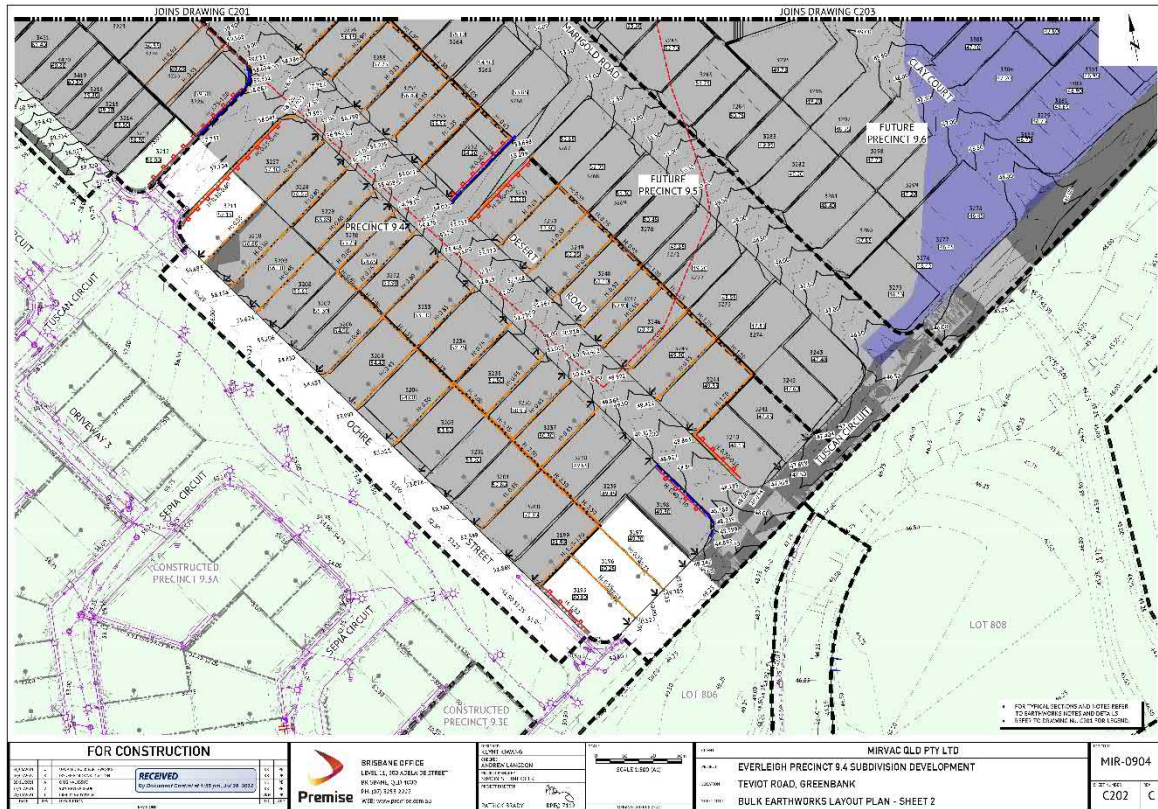
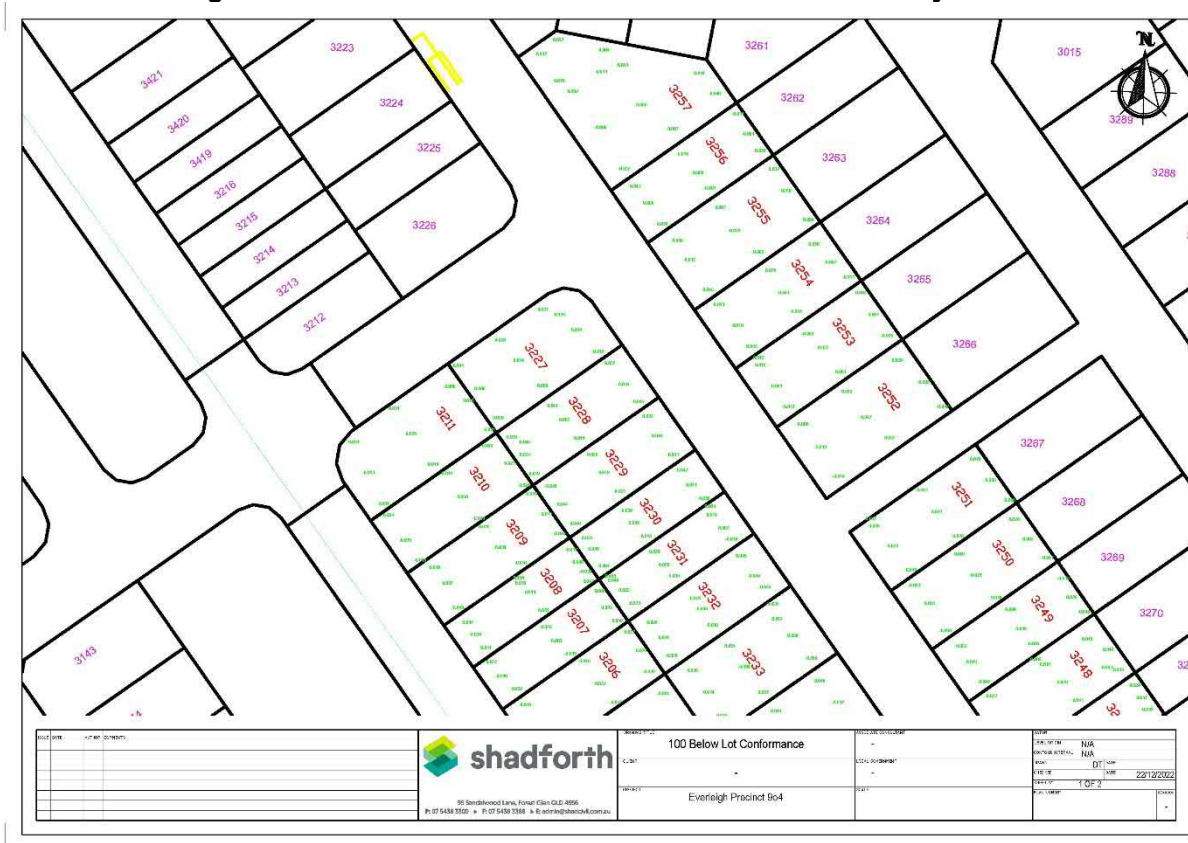
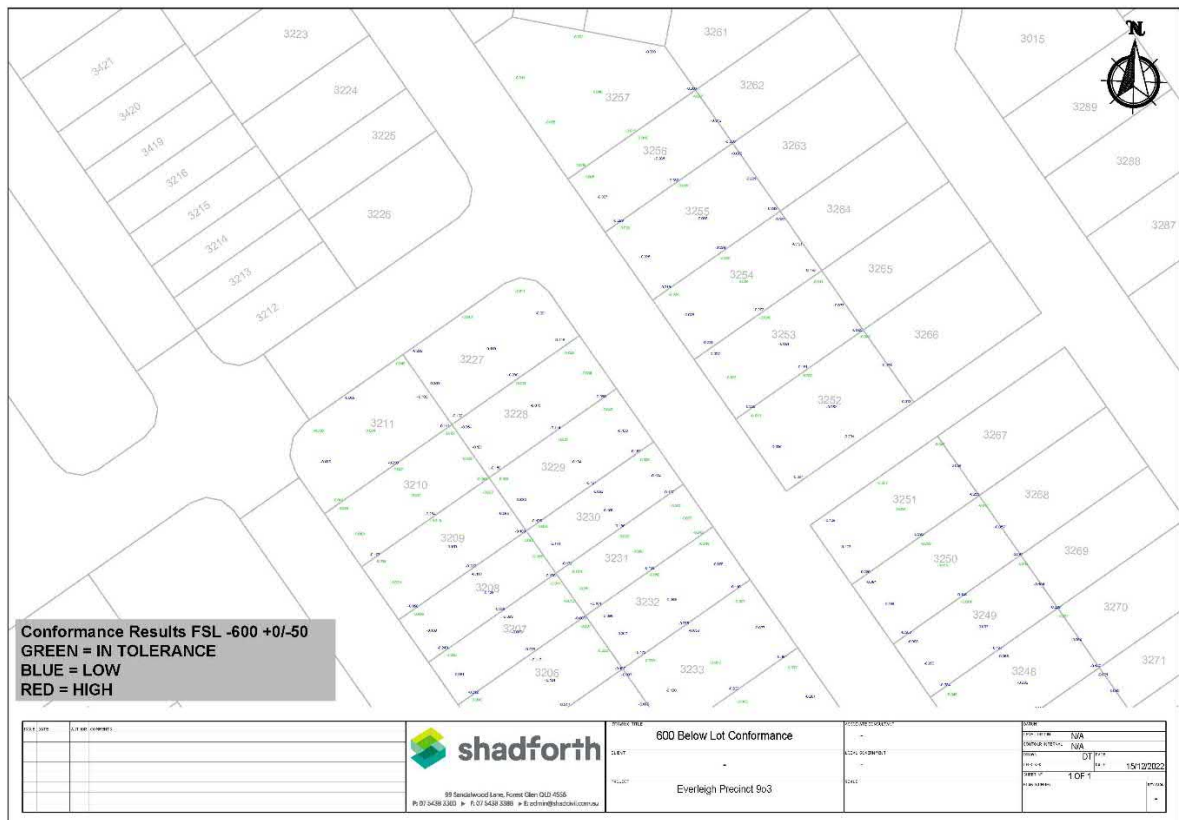
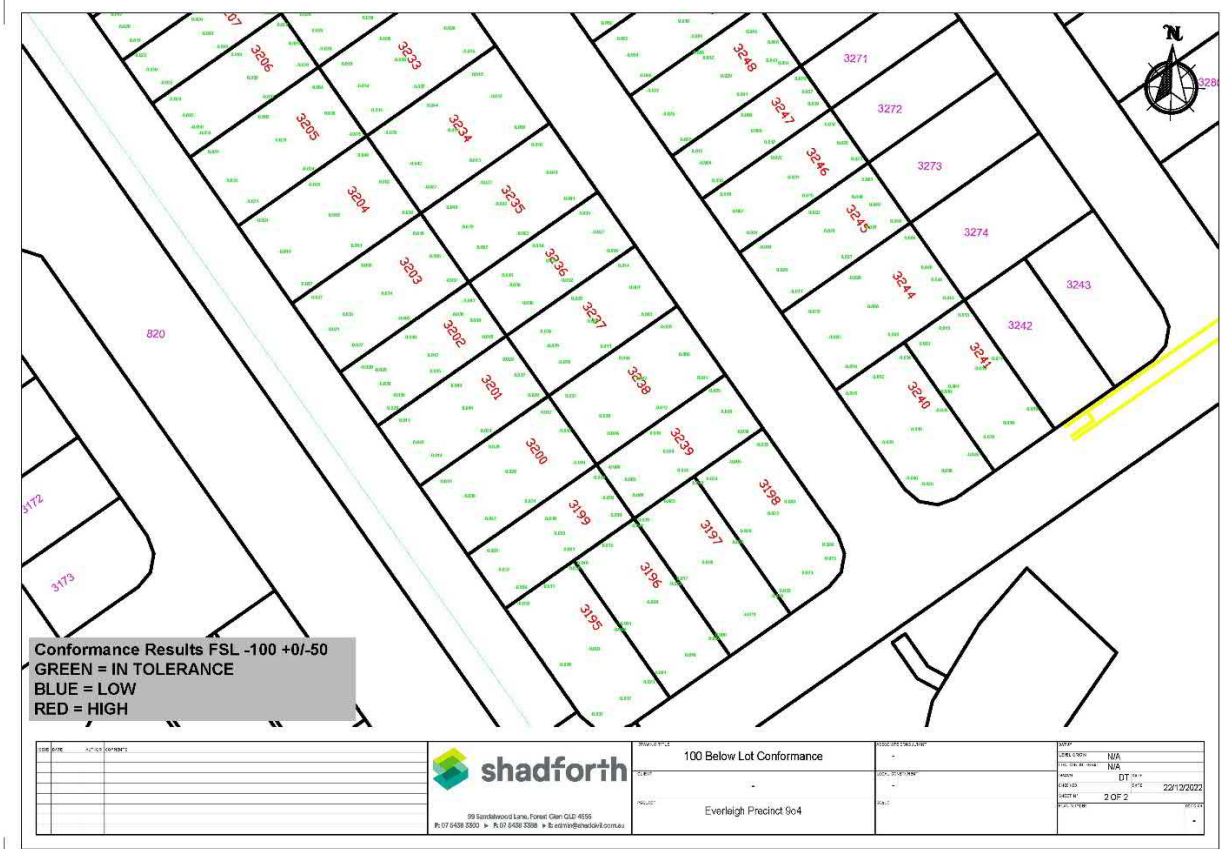


Figure 3: Actual Constructed Area of Fill – Shadforth Survey Plans





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.

- Bedrock – Sandstone (XW-HW) – Extremely to Highly weathered, very low to low strength, orange – yellow brown
- Bedrock – 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.

A photo showing the showing a typical stripped surface is given in Picture 1.

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 course 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 Clayey Sandy Gravel (GC), fine to coarse gravel, fine to coarse sand, 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 tined, 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 Plan 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 10th October 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 9.4, 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 Shadforth Civil 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.

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- (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.

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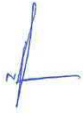
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- (b) is limited to observations of those parts of the site described in Section 1.0.

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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 sincerely,



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 C – Particle Size Distribution Report

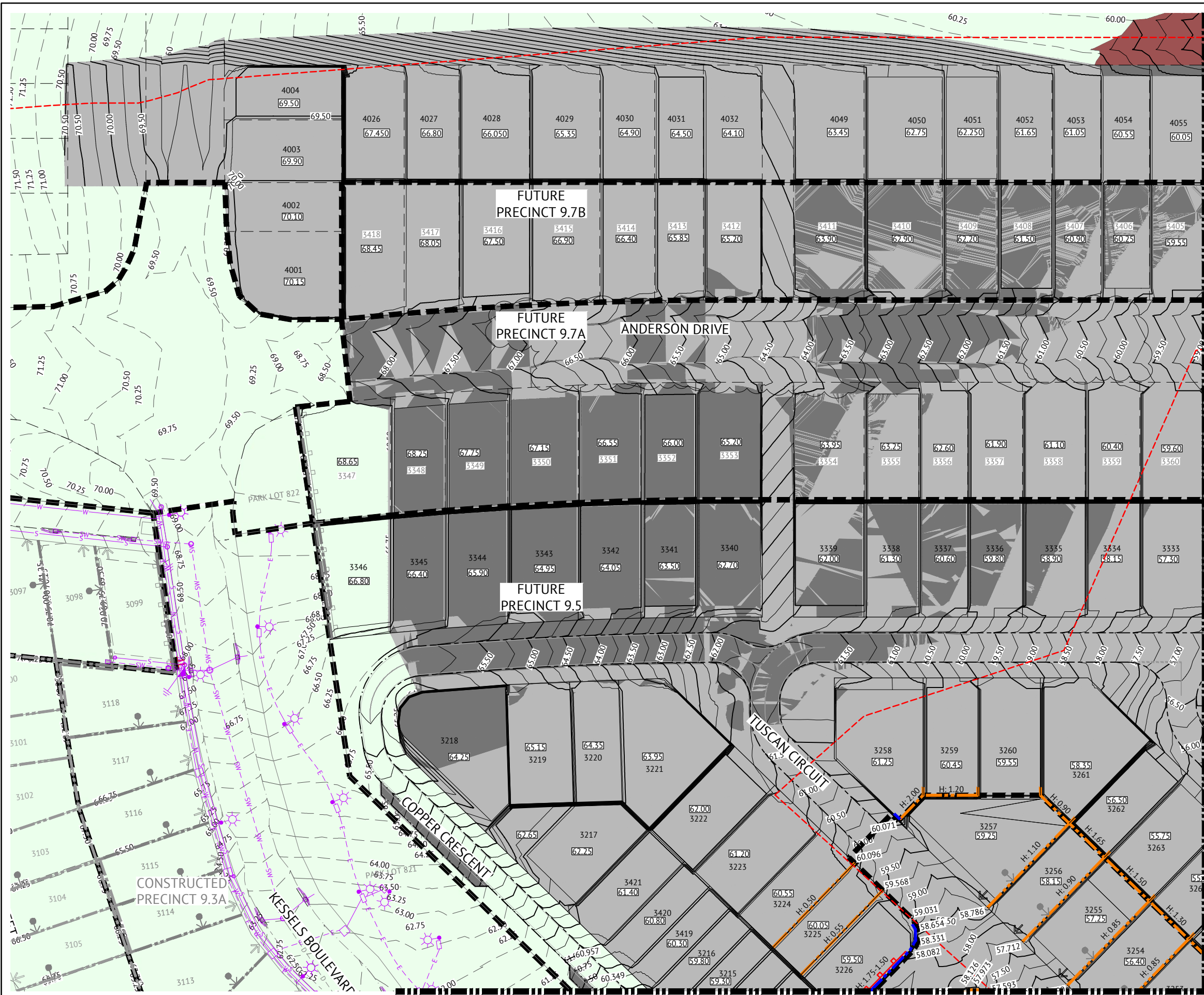


Appendix A

Site Plan & Test Locations

MORRISON GEOTECHNIC PTY LTD





JOINS DRAWING C203

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- BORROW AREA
- CONSTRUCTION WATER HOLDING DAM TO BE FILLED
- 12.0 FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.25m)
- 51.65 FINISHED SURFACE LEVEL
- PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- 58.25 x FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- VEGETATION CLEARING EXTENT
- STAGE BOUNDARY

LEGEND - CONSTRUCTED

- RETAINING WALL
- 12.0 CONTOURS (0.50m)
- SW STORMWATER
- S SEWER
- W WATER
- E ELECTRICITY
- PRECINCT 9.3 VEGETATION CLEARING EXTENT

- NOTES**
1. REFER TO BULK EARTHWORKS NOTES & DETAILS DRAWINGS FOR:
 - EARTHWORKS NOTES AND DETAILS
 - RETAINING WALL NOTES AND DETAILS
 2. PROPOSED SERVICES ARE WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS AND DETAILS.
 3. EXISTING DWELLINGS, FENCES ETC TO BE DEMOLISHED AND REMOVED OFF SITE BY OTHERS (UNLESS NOTED OTHERWISE)
 4. FINAL RETAINING WALL TYPES AND FINISHES SHALL BE CONFIRMED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

JOINS DRAWING C202

FOR CONSTRUCTION

30/06/2021	C	UPDATED BULK EARTHWORKS	
07/04/2022	B	ISSUED FOR CONSTRUCTION	
26/11/2021	A	ORIGINAL ISSUE	
12/11/2021	Z	90% REVIEW ISSUE	
28/10/2021	1	PRELIMINARY ISSUE	
DATE	REV	DESCRIPTION	REVISIONS

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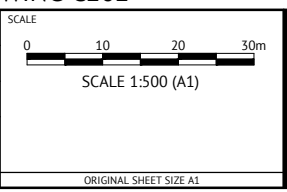
DESIGNED
KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
SIMON STEINHOFFER

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

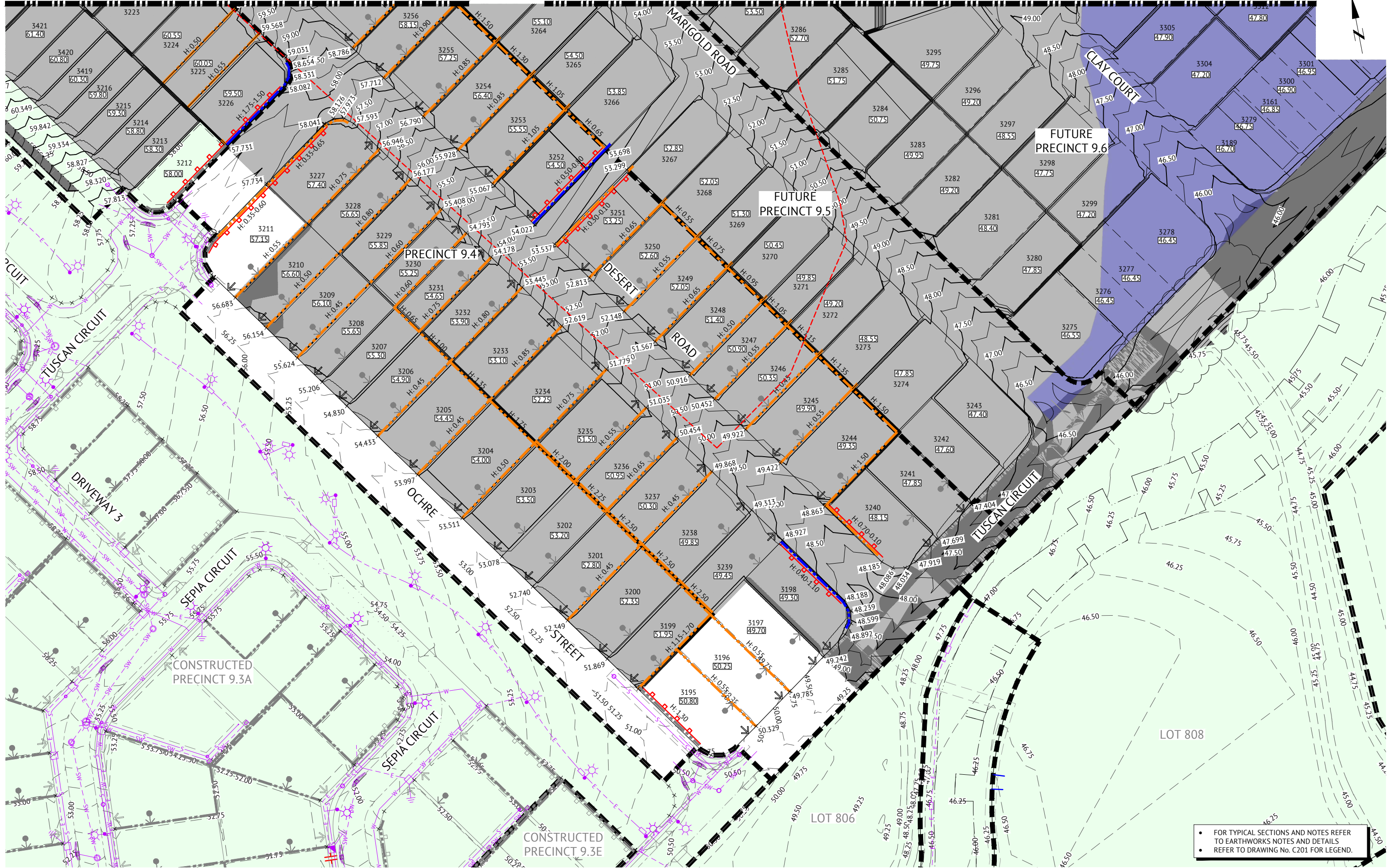
PROJECT
EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS LAYOUT PLAN - SHEET 1

JOB CODE
MIR-0904

SHEET NUMBER C201	REV C
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• FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS
 • REFER TO DRAWING No. C201 FOR LEGEND.

FOR CONSTRUCTION

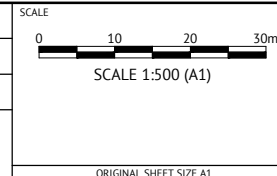
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 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112



CLIENT	MIRVAC QLD PTY LTD	JOB CODE	MIR-0904
PROJECT	EVERLEIGH PRECINCT 9.4 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C202
LOCATION	TEVIOT ROAD, GREENBANK	REV	C
SHEET TITLE	BULK EARTHWORKS LAYOUT PLAN - SHEET 2		



Appendix B

Laboratory Test Reports

MORRISON GEOTECHNIC PTY LTD



MORRISON
GEOTECHNIC

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth	Report Number :	SR/PTP/10047 - 1/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	1/09/2022
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks	Test Request :	-
Project Number :	PTP/10047	Page 1 of 1	
Location :	Greenbank		

Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,				
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Sample Number :	S/151611	S/151612	S/151613	S/151614		
Date Tested :	16/08/2022	16/08/2022	16/08/2022	16/08/2022		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill		
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 300		

Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	10:34	10:37	10:40	10:44		
Lot Number :	Desert Rd	3251	3250	3249		
Location 1 :	Lot 3232 & 3233 Boundary Line	7m From Front Lot Boundary	9m From Front Lot Boundary	6m From Front Lot Boundary		
Location 2 :	CL of Road	5m From Left Lot Boundary	4m From Left Lot Boundary	5m From Left Lot Boundary		
Location 3 :	RL 54.9	RL 55.2	RL 54.9	RL 54.5		
Location 4 :	-	-	-	-		

Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	12%	16%	15%	13%		
Oversize Density - Dry (t/m ³) :	2.38	2.38	2.54	2.43		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/151611	S/151612	S/151613	S/151614		
MDR Test Date :	30/08/2022	29/08/2022	30/08/2022	30/08/2022		
Compaction Type :	Standard	Standard	Standard	Standard		
Soil Description :	Gravelly Clay - Grey	Gravelly Clay - Grey	Gravelly Sandy Clay - Grey	Gravelly Clay - grey		

<i>MDR Test Results</i>						
PCWD (t/m ³) :	2.16	2.16	2.14	2.13		
Moisture Variation :	1.0%	0.5%	2.0%	2.5%		
ADJ PCWD (t/m ³) :	2.18	2.19	2.19	2.17		
ADJ Moisture Variation :	0.5%	0.5%	1.5%	2.0%		

<i>Moisture Test Results :</i>						
Field Moisture Content :	12.0%	11.0%	9.0%	9.0%		
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC		
Variation from OMC :	0.5% Dry of OMC	0.5% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC		
Relative Moisture Ratio (Q250) :	-	-	-	-		
Moisture Ratio :	N/A	N/A	N/A	N/A		


<i>Density Test Results</i>						
Field Wet Density (t/m ³) :	2.23	2.18	2.21	2.26		
Density Specification :	95%	95%	95%	95%		
Wet Density Ratio :	102.5%	99.5%	100.5%	104.0%		

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Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						



Remarks :						
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 <p>NATA NATIONAL ACCREDITATION</p>	<p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	<p>APPROVED SIGNATORY</p> <p><i>S.B.</i></p> <p>Samuel Bamford - Signatory</p>
	Document Number : RF1	Date : 9/08/2022



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 2/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	5/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/154435	S/154436	S/154437			
Date Tested :	29/08/2022	29/08/2022	29/08/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:19	10:25	10:31			
Lot Number :	Lot 3232	Lot 3233	Lot 3236			
Location 1 :	7m from Front Lot Boundary	5m from Front Lot Boundary	4m from Rear Lot Boundary			
Location 2 :	3.5m from Right Lot Boundary	6m from Right Lot Boundary	5m from Right Lot Boundary			
Location 3 :	RL: 51.98	RL: 50.29	RL: 49.25			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	0%	0%	0%			
Oversize Dry :	0%	0%	0%			
Oversize Density - Dry (t/m ³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/154435	S/154436	S/154437			
MDR Test Date :	31/08/2022	30/08/2022	31/08/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	2.00	2.06	2.00			
OMC :	12.5%	12.0%	12.0%			
ADJ MDD (t/m ³) :	-	-	-			
ADJ OMC :	-	-	-			
Moisture Test Results :						
Field Moisture Content :	11.0%	10.5%	10.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	1.5% Dry of OMC	1.5% Dry of OMC	1.0% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	89.0%	88.0%	91.0%			
Density Test Results						
Field Dry Density (t/m ³) :	1.98	2.04	1.98			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	99.0%	99.0%	99.0%			
-						
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
	Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208			APPROVED SIGNATORY  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth				Report Number :	SR/PTP/10047 - 5/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	8/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks				Test Request :	44791	
Project Number :	PTP/10047				Page 1 of 1		
Location :	Greenbank						
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,						
Sample Number :	S/152212	S/152213	S/152214	S/152215			
Date Tested :	18/08/2022	18/08/2022	18/08/2022	18/08/2022			
Material Source :	Onsite	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:26	10:34	10:40	10:44			
Lot Number :	3208	3206	3253	3254			
Location 1 :	5.5m from Front Lot Boundary	9m from Front Lot Boundary	6m from Front Lot Boundary	8m from Front Lot Boundary			
Location 2 :	7m from Right Lot Boundary	4m from Right Lot Boundary	10m From Left Lot Boundary	2m from Right Lot Boundary			
Location 3 :	RL: 51.9	RL: 50.8	RL: 53.6	RL: 54.0			
Location 4 :	-	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm			
Oversize Wet :	2%	3%	3%	4%			
Oversize Dry :	3%	4%	3%	4%			
Oversize Density - Dry (t/m ³) :	2.48	2.49	2.51	2.45			
Assigned MDR (Yes/No) :	No	No	No	No			
MDR Sample Number :	S/152212	S/152213	S/152214	S/152215			
MDR Test Date :	21/08/2022	19/08/2022	20/08/2022	21/08/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results							
MDD (t/m ³) :	2.00	1.94	1.98	1.91			
OMC :	11.5%	13.5%	11.5%	12.5%			
ADJ MDD (t/m ³) :	2.01	1.95	1.99	1.93			
ADJ OMC :	11.0%	13.0%	11.0%	12.0%			
Moisture Test Results :							
Field Moisture Content :	10.0%	11.0%	12.0%	12.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	1.0% Dry of OMC	2.0% Dry of OMC	0.5% Wet of OMC	0.0% Wet of OMC			
Relative Moisture Ratio (Q250) :	-	-	-	-			
Moisture Ratio :	91.0%	83.5%	106.0%	102.0%			
Density Test Results							
Field Dry Density (t/m ³) :	1.99	1.98	1.98	1.93			
Density Specification :	95%	95%	95%	95%			
Dry Density Ratio :	99.5%	101.0%	99.5%	100.5%			
Soil Particle Density (APD) t/m ³ :							
Soil Particle Density (APD) Date :							
Remarks :							
	Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208				APPROVED SIGNATORY  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 6/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	8/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	44792	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/152880	S/152881	S/152882			
Date Tested :	19/08/2022	19/08/2022	19/08/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	12:08	12:15	12:19			
Lot Number :	3205	3234	3235			
Location 1 :	7m from Front Lot Boundary	9m from Front Lot Boundary	9m from Front Lot Boundary			
Location 2 :	3m from Left Lot Boundary	5m from Right Lot boundary	7m from Right Lot Boundary			
Location 3 :	RL:52.2	RL: 51.7	RL: 51.4			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	0%	0%	0%			
Oversize Dry :	0%	0%	0%			
Oversize Density - Dry (t/m ³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/152880	S/152881	S/152882			
MDR Test Date :	20/08/2022	22/08/2022	21/08/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	1.88	1.78	1.99			
OMC :	14.0%	13.0%	12.0%			
ADI MDD (t/m ³) :	-	-	-			
ADI OMC :	-	-	-			
Moisture Test Results :						
Field Moisture Content :	12.5%	11.0%	10.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	1.5% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	88.5%	83.5%	86.5%			
Density Test Results						
Field Dry Density (t/m ³) :	1.87	1.80	2.01			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	99.5%	101.0%	101.0%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
	Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208			APPROVED SIGNATORY  Samuel Bamford - Signatory		
	Document Number :	RF1				



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth					Report Number :	SR/PTP/10047 - 9/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD					Report Date :	9/09/2022
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks					Test Request :	-
Project Number :	PTP/10047					Page 1 of 1	
Location :	Greenbank						
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,						
Sample Number :	S/151264	S/151265	S/151266	S/151267	S/151268		
Date Tested :	15/08/2022	15/08/2022	15/08/2022	15/08/2022	15/08/2022		
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite		
For use as :	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill		
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 300	275 / 300		
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	10:22	10:26	10:28	10:31	10:35		
Lot Number :	3227	3228	3229	3230	3231		
Location 1 :	7m From Front Lot Boundary	9m From Front Lot Boundary	4m From Front Lot Boundary	6m From Front Lot Boundary	9m From Front Lot Boundary		
Location 2 :	4m From Left Lot Boundary	5m From Left Lot Boundary	5m From Left Lot Boundary	3.5m From Left Lot Boundary	5m From Left Lot Boundary		
Location 3 :	RL 56.0	RL 55.7	RL 55.1	RL 55.46	RL 54.18		
Location 4 :	-	-	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	3%	10%	0%	1%	2%		
Oversize Density - Dry (t/m ³) :	2.47	2.40	-	2.48	2.38		
Assigned MDR (Yes/No) :	No	No	No	No	No		
MDR Sample Number :	S/151264	S/151265	S/151266	S/151267	S/151268		
MDR Test Date :	6/09/2022	6/09/2022	6/09/2022	6/09/2022	6/09/2022		
Compaction Type :	Standard	Standard	Standard	Standard	Standard		
Soil Description :	Gravelly Clayey Sand - Brown	Gravelly Sandy Clay - Brown	Clayey Sand - Brown	Gravelly Clayey Sand - Brown	Gravelly Clayey Sand - Brown		
MDR Test Results							
PCWD (t/m ³) :	2.08	2.11	2.11	2.08	2.08		
Moisture Variation :	0.5%	1.0%	1.0%	1.0%	1.0%		
ADJ PCWD (t/m ³) :	2.09	2.14	-	2.09	2.08		
ADJ Moisture Variation :	0.5%	0.5%	-	1.0%	1.0%		
Moisture Test Results :							
Field Moisture Content :	11.5%	10.5%	11.5%	12.0%	11.0%		
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC		
Variation from OMC :	0.5% Dry of OMC	0.5% Dry of OMC	1.0% Dry of OMC	1.0% Dry of OMC	1.0% Dry of OMC		
Relative Moisture Ratio (Q250) :	-	-	-	-	-		
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A		
Density Test Results							
Field Wet Density (t/m ³) :	2.17	2.24	2.21	2.12	2.15		
Density Specification :	95%	95%	95%	95%	95%		
Wet Density Ratio :	104.0%	105.0%	104.5%	101.5%	103.5%		
Soil Particle Density (APD) t/m ³ :							
Soil Particle Density (APD) Date :							
Remarks :							
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>			<p>APPROVED SIGNATORY</p>  Samuel Bamford - Signatory				



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 10/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	9/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/153764	S/153765	S/153766			
Date Tested :	24/08/2022	24/08/2022	24/08/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / -	150 / -	150 / -			
Sampling Method :	AS1289.1.2.1 - cl6.4a	AS1289.1.2.1 - cl6.4a	AS1289.1.2.1 - cl6.4a			
Time :	10:15	10:30	12:25			
Lot Number :	Stage 9.4	Stage 9.4	Stage 9.4			
Location 1 :	Lot 3257	Lot 3256	Lot 3256			
Location 2 :	E: 9148.240	E: 9141.790	E: 9129.330			
Location 3 :	N: 32009.126	N: 31794.161	N: 31987.030			
Location 4 :	RL: 57.45	RL: 57.09	RL: 56.84			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	0%	0%	0%			
Oversize Dry :	0%	0%	0%			
Oversize Density - Dry (t/m ³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/153764	S/153765	S/153766			
MDR Test Date :	25/08/2022	25/08/2022	26/08/2022			
Soil Description :	Sandy Clay	Sandy Clay	Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	1.89	1.75	1.76			
OMC :	9.5%	11.0%	10.0%			
ADJ MDD (t/m ³) :	-	-	-			
ADJ OMC :	-	-	-			
Moisture Test Results :						
Field Moisture Content :	9.0%	10.5%	10.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.5% Dry of OMC	1.0% Dry of OMC	0.5% Wet of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	95.0%	92.0%	102.5%			
Density Test Results						
Field Dry Density (t/m ³) :	1.83	1.75	1.77			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	96.5%	99.5%	100.5%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p style="font-size: small;">Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				<p>APPROVED SIGNATORY</p>  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 12/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	14/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/154345	S/154346	S/154347			
Date Tested :	26/08/2022	26/08/2022	26/08/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Level 1 Fill	Level 1 Fill	Level 1 Fill			
Test / Layer Depths :	150 / -	150 / -	150 / -			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	09:15	10:30	11:25			
Lot Number :	Stage 9.4	Stage 9.4	Stage 9.4			
Location 1 :	Lot 3225	Lot 3204	Lot 3234			
Location 2 :	E: 9144.10	E: 9147.73	E: 9158.03			
Location 3 :	N: 31893.43	N: 31879.91	N: 31889.11			
Location 4 :	RL: 51.23	RL: 50.55	RL: 50.37			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Enlarge Wet :	0%	0%	0%			
Enlarge Dry :	0%	0%	0%			
Enlarge Density - Dry (t/m ³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/154345	S/154346	S/154347			
MDR Test Date :	27/08/2022	27/08/2022	27/08/2022			
Soil Description :	Sandy Clay	Sandy Clay	Sandy Clay			
<i>MDR Test Results</i>						
MDD (t/m ³) :	1.75	1.79	1.77			
OMC :	13.0%	12.5%	12.5%			
ADJ MDD (t/m ³) :	-	-	-			
ADJ OMC :	-	-	-			
<i>Moisture Test Results :</i>						
Field Moisture Content :	13.5%	13.5%	11.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.5% Wet of OMC	1.0% Wet of OMC	1.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	103.5%	107.5%	89.0%			
<i>Density Test Results</i>						
Field Dry Density (t/m ³) :	1.72	1.81	1.73			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	98.5%	101.0%	98.0%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :	Locations provided by compactor on-site.					
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				APPROVED SIGNATORY  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 13/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/157533	S/157534	S/157535			
Date Tested :	14/09/2022	14/09/2022	14/09/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:33	10:39	10:44			
Lot Number :	3206	3205	3232			
Location 1 :	E: 499125	E: 499138	E: 499144			
Location 2 :	N: 6931901	N: 6931185	N: 6931914			
Location 3 :	RL: 53.4	RL: 53.01	RL: 53.9			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	8%	3%	4%			
Oversize Dry :	8%	3%	5%			
Oversize Density - Dry (t/m ³) :	2.46	2.52	2.54			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/157533	S/157534	S/157535			
MDR Test Date :	16/09/2022	16/09/2022	15/09/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	2.14	2.07	2.06			
OMC :	9.0%	12.0%	9.5%			
ADJ MDD (t/m ³) :	2.16	2.08	2.08			
ADJ OMC :	8.5%	11.5%	9.0%			
Moisture Test Results :						
Field Moisture Content :	8.0%	9.5%	8.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.5% Dry of OMC	2.0% Dry of OMC	0.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	95.0%	82.0%	95.5%			
Density Test Results						
Field Dry Density (t/m ³) :	2.06	2.00	1.99			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	95.0%	96.5%	95.5%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p style="font-size: small;">Note: The results contained in this report relate only to the items that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				<p>APPROVED SIGNATORY</p>  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 14/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/157230	S/157231	S/157232	S/157259	S/157260	S/157261
Date Tested :	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 300	275 / 300	275 / 300
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	10:51	10:58	11:06	11:31	11:39	11:45
Lot Number :	3330	3329	3328	3228	3229	3230
Location 1 :	E: 499236	E: 499249	E: 499265	E: 499115	E: 499137	E: 499138
Location 2 :	N: 6932064	N: 6932063	N: 6932062	N: 6931953	N: 6931921	N: 6931934
Location 3 :	RL: 54.9	RL: 54.7	RL: 54.2	RL: 55.6	RL: 55.3	RL: 54.9
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	7%	3%	3%	3%	7%	4%
Oversize Dry :	8%	3%	4%	3%	8%	5%
Oversize Density - Dry (t/m ³) :	2.47	2.53	2.51	2.48	2.53	2.55
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/157230	S/157231	S/157232	S/157259	S/157260	S/157261
MDR Test Date :	16/09/2022	15/09/2022	14/09/2022	14/09/2022	16/09/2022	14/09/2022
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
MDR Test Results						
MDD (t/m ³) :	1.86	1.93	1.98	1.89	1.92	1.85
OMC :	15.0%	16.0%	12.0%	13.5%	16.5%	17.5%
ADJ MDD (t/m ³) :	1.90	1.94	2.00	1.91	1.96	1.87
ADJ OMC :	13.5%	15.5%	11.5%	13.0%	15.5%	17.0%
Moisture Test Results :						
Field Moisture Content :	13.0%	15.5%	12.5%	12.0%	13.5%	15.0%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	1.0% Dry of OMC	0.0% Dry of OMC	1.0% Wet of OMC	1.0% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	93.5%	99.5%	110.5%	92.5%	88.0%	88.0%
Density Test Results						
Field Dry Density (t/m ³) :	1.91	1.86	1.90	1.90	1.88	1.84
Density Specification :	95%	95%	95%	95%	95%	95%
Dry Density Ratio :	101.0%	96.0%	95.0%	99.5%	96.0%	98.0%
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
	Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast			APPROVED SIGNATORY  Samuel Bamford - Signatory		
	Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208					



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 15/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/157033	S/157034	S/157035			
Date Tested :	12/09/2022	12/09/2022	12/09/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	14:04	14:12	14:17			
Lot Number :	3237	3236	Desert Rd			
Location 1 :	E: 499188	E: 499183	E: 499188			
Location 2 :	N: 6931851	N: 6931867	N: 6931900			
Location 3 :	RL: 50.4	RL: 50.6	RL: 50.8			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	2%	4%	2%			
Oversize Dry :	2%	4%	2%			
Oversize Density - Dry (t/m ³) :	2.45	2.52	2.49			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/157033	S/157034	S/157035			
MDR Test Date :	15/09/2022	13/09/2022	15/09/2022			
Soil Description :	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay			
MDR Test Results						
MDD (t/m ³) :	1.96	2.03	1.95			
OMC :	13.0%	13.0%	15.5%			
ADJ MDD (t/m ³) :	1.96	2.05	1.95			
ADJ OMC :	13.0%	12.5%	15.5%			
Moisture Test Results :						
Field Moisture Content :	13.0%	11.5%	13.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.0% Wet of OMC	1.0% Dry of OMC	2.0% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	101.5%	90.5%	88.5%			
Density Test Results						
Field Dry Density (t/m ³) :	1.90	1.95	1.90			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	97.0%	95.0%	97.0%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY					
				 Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforths			Report Number :	SR/PTP/10047 - 16/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/155807	S/155808	S/155809			
Date Tested :	6/09/2022	6/09/2022	6/09/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:02	10:13	10:24			
Lot Number :	3207	3204	3210			
Location 1 :	6m from Front Lot Boundary	10m from Front Lot Boundary	12m from Front Lot Boundary			
Location 2 :	8m from Right Lot Boundary	5m from Right Lot Boundary	6m from Right Lot Boundary			
Location 3 :	RL - 52.0	RL - 51.6	RL - 54.5			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	8%	3%	5%			
Oversize Dry :	8%	3%	5%			
Oversize Density - Dry (t/m ³) :	2.50	2.45	2.51			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/155807	S/155808	S/155809			
MDR Test Date :	8/09/2022	8/09/2022	8/09/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	2.02	2.12	2.07			
OMC :	9.0%	11.5%	10.5%			
ADJ MDD (t/m ³) :	2.06	2.13	2.08			
ADJ OMC :	8.5%	11.0%	10.0%			
Moisture Test Results :						
Field Moisture Content :	8.0%	9.5%	8.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.5% Dry of OMC	1.0% Dry of OMC	2.0% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	93.5%	89.0%	78.0%			
Density Test Results						
Field Dry Density (t/m ³) :	2.06	2.07	1.99			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	100.5%	97.0%	95.5%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
	Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208			APPROVED SIGNATORY  Samuel Bamford - Signatory		
	Document Number : RF1			Date : 12/04/2022		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 17/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/155673	S/155674	S/155675			
Date Tested :	5/09/2022	5/09/2022	5/09/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	14:11	14:22	14:52			
Lot Number :	3254	Road	3228			
Location 1 :	E 9162.58	E 9142.21	E 9126.80			
Location 2 :	N 31974.52	N 31960.86	N 31954.29			
Location 3 :	RL 55.58	RL 54.99	RL 54.87			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	7%	7%	6%			
Oversize Dry :	7%	8%	6%			
Oversize Density - Dry (t/m ³) :	2.52	2.46	2.46			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/155673	S/155674	S/155675			
MDR Test Date :	8/09/2022	7/09/2022	7/09/2022			
Soil Description :	Gravelly Sand	Gravelly Sand	Gravelly Sand			
MDR Test Results						
MDD (t/m ³) :	2.00	1.94	1.99			
OMC :	9.5%	9.5%	12.0%			
ADJ MDD (t/m ³) :	2.03	1.97	2.01			
ADJ OMC :	9.0%	9.0%	11.0%			
Moisture Test Results :						
Field Moisture Content :	7.5%	9.0%	10.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	1.5% Dry of OMC	0.0% Wet of OMC	0.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	83.5%	102.5%	94.5%			
Density Test Results						
Field Dry Density (t/m ³) :	1.95	1.94	1.91			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	96.0%	98.5%	95.0%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
				APPROVED SIGNATORY  Samuel Bamford - Signatory		
Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208						



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 18/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/156520	S/156521	S/156522			
Date Tested :	8/09/2022	8/09/2022	8/09/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:33	10:41	10:47			
Lot Number :	3203	3202	3201			
Location 1 :	E: 499148	E: 499151	E: 499171			
Location 2 :	N: 6931861	N: 6931851	N: 6931844			
Location 3 :	RL: 51.5	RL: 51.1	RL: 50.72			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Enlarge Wet :	4%	3%	2%			
Enlarge Dry :	4%	3%	2%			
Enlarge Density - Dry (t/m ³) :	2.42	2.41	2.39			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/156520	S/156521	S/156522			
MDR Test Date :	11/09/2022	11/09/2022	10/09/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
<i>MDR Test Results</i>						
MDD (t/m ³) :	2.00	2.02	2.00			
OMC :	9.5%	9.5%	9.5%			
ADJ MDD (t/m ³) :	2.01	2.03	2.00			
ADJ OMC :	9.0%	9.5%	9.5%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	9.0%	9.5%	8.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.0% Dry of OMC	0.0% Dry of OMC	0.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	97.5%	98.5%	92.5%			
<i>Density Test Results</i>						
Field Dry Density (t/m ³) :	2.00	2.00	2.03			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	99.5%	98.5%	101.5%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				APPROVED SIGNATORY  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 19/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/156523	S/156524	S/156525			
Date Tested :	8/09/2022	8/09/2022	8/09/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	11:01	11:08	11:16			
Lot Number :	3217	3219	3221			
Location 1 :	E: 499019	E: 499028	E: 499053			
Location 2 :	N: 6932049	N: 6932029	N: 6932046			
Location 3 :	RL: 62.7	RL: 61.0	RL: 61.9			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Enlarge Wet :	4%	4%	4%			
Enlarge Dry :	4%	4%	5%			
Enlarge Density - Dry (t/m ³) :	2.42	2.39	2.43			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/156523	S/156524	S/156525			
MDR Test Date :	10/09/2022	9/09/2022	11/09/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
<i>MDR Test Results</i>						
MDD (t/m ³) :	2.00	2.00	2.01			
OMC :	11.0%	11.0%	10.0%			
ADJ MDD (t/m ³) :	2.02	2.01	2.02			
ADJ OMC :	10.5%	11.0%	9.5%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	10.0%	9.5%	9.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.5% Dry of OMC	1.0% Dry of OMC	0.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	95.5%	89.5%	96.0%			
<i>Density Test Results</i>						
Field Dry Density (t/m ³) :	2.01	1.99	2.00			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	100.0%	98.5%	99.0%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				APPROVED SIGNATORY  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 20/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	23/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/156174	S/156175	S/156176			
Date Tested :	7/09/2022	7/09/2022	7/09/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	14:09	14:17	14:25			
Lot Number :	3252	3204	3237			
Location 1 :	11m from Front Lot Boundary	8m from Front Lot Boundary	10m from Front Lot Boundary			
Location 2 :	7m from Right Lot Boundary	7m from Right Lot Boundary	3m from Right Lot Boundary			
Location 3 :	RL - 52.9	RL - 52.03	RL - 51.6			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	0%	0%	0%			
Oversize Dry :	0%	0%	0%			
Oversize Density - Dry (t/m ³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/156174	S/156175	S/156176			
MDR Test Date :	10/09/2022	10/09/2022	10/09/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	2.07	2.07	2.07			
OMC :	9.0%	10.5%	8.5%			
ADJ MDD (t/m ³) :	-	-	-			
ADJ OMC :	-	-	-			
Moisture Test Results :						
Field Moisture Content :	9.0%	9.0%	9.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.0% Dry of OMC	2.0% Dry of OMC	1.0% Wet of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	99.0%	83.0%	110.5%			
Density Test Results						
Field Dry Density (t/m ³) :	2.03	2.06	2.08			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	98.0%	99.5%	100.5%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY					
	 Samuel Bamford - Signatory					



Dry Density / Moisture Ratio Report

Client :	Shadforth				Report Number :	SR/PTP/10047 - 21/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	29/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks				Test Request :	-	
Project Number :	PTP/10047				Page 1 of 1		
Location :	Greenbank						
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,						
Sample Number :	S/160056	S/160060	S/160061	S/160062			
Date Tested :	27/09/2022	27/09/2022	27/09/2022	27/09/2022			
Material Source :	Onsite	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:32	10:41	10:49	10:56			
Lot Number :	Precinct 9.4/9.5	Precinct 9.4/9.5	Precinct 9.4/9.5	Precinct 9.4/9.5			
Location 1 :	E:499187	E: 499197	E: 499211	E: 499215			
Location 2 :	N: 6931949	N: 6931931	N: 6931917	N: 6931879			
Location 3 :	0.4m BFL	0.4m BFL	0.4m BFL	0.4m BFL			
Location 4 :	-	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm			
Oversize Wet :	5%	4%	3%	7%			
Oversize Dry :	5%	4%	3%	8%			
Oversize Density - Dry (t/m ³) :	2.45	2.46	2.47	2.45			
Assigned MDR (Yes/No) :	No	No	No	No			
MDR Sample Number :	S/160056	S/160060	S/160061	S/160062			
MDR Test Date :	28/09/2022	28/09/2022	28/09/2022	28/09/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results							
MDD (t/m ³) :	2.13	2.10	1.98	2.12			
OMC :	10.5%	10.5%	10.0%	9.0%			
ADJ MDD (t/m ³) :	2.14	2.11	1.99	2.14			
ADJ OMC :	10.0%	10.0%	10.0%	8.5%			
Moisture Test Results :							
Field Moisture Content :	8.0%	8.0%	9.5%	9.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	2.0% Dry of OMC	2.0% Dry of OMC	0.5% Dry of OMC	0.5% Wet of OMC			
Relative Moisture Ratio (Q250) :	-	-	-	-			
Moisture Ratio :	80.5%	79.5%	95.0%	108.5%			
Density Test Results							
Field Dry Density (t/m ³) :	2.07	2.05	2.01	2.04			
Density Specification :	95%	95%	95%	95%			
Dry Density Ratio :	96.5%	97.0%	101.0%	95.0%			
Soil Particle Density (APD) t/m ³ :							
Soil Particle Density (APD) Date :							
Remarks :							
	Note: The results contained in this report relate only to the items that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208				APPROVED SIGNATORY  Samuel Bamford - Signatory		



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 22/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	29/09/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/159797	S/159798	S/159799	S/159800	S/159801	
Date Tested :	26/09/2022	26/09/2022	26/09/2022	26/09/2022	26/09/2022	
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	
For use as :	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 300	275 / 300	
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	
Time :	10:28	10:36	10:43	10:52	10:58	
Lot Number :	Precinct 9.5	Precinct 9.5	Precinct 9.5	Precinct 9.4	Precinct 9.4	
Location 1 :	E: 499017	E: 499040	E: 499050	E: 499136	E: 499124	
Location 2 :	N: 6932056	N: 6932041	N: 6932016	N: 6932019	N: 6932004	
Location 3 :	RL: 61.94	RL: 61.52	RL: 61.1	0.6m Below Finish Level	0.3m Below Subgrade	
Location 4 :	-	-	-	-	-	
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	
Oversize Wet :	3%	3%	3%	4%	5%	
Oversize Dry :	4%	4%	3%	5%	5%	
Oversize Density - Dry (t/m ³) :	2.48	2.52	2.48	2.54	2.52	
Assigned MDR (Yes/No) :	No	No	No	No	No	
MDR Sample Number :	S/159797	S/159798	S/159799	S/159800	S/159801	
MDR Test Date :	28/09/2022	28/09/2022	28/09/2022	28/09/2022	28/09/2022	
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	
MDR Test Results						
MDD (t/m ³) :	1.88	1.89	2.09	1.98	1.96	
OMC :	17.5%	17.5%	11.5%	12.0%	9.5%	
ADJ MDD (t/m ³) :	1.90	1.91	2.10	2.00	1.98	
ADJ OMC :	16.5%	17.0%	11.5%	11.0%	9.0%	
Moisture Test Results :						
Field Moisture Content :	16.0%	17.5%	9.5%	10.5%	7.0%	
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	
Variation from OMC :	0.5% Dry of OMC	0.5% Wet of OMC	1.5% Dry of OMC	1.0% Dry of OMC	2.0% Dry of OMC	
Relative Moisture Ratio (Q250) :	-	-	-	-	-	
Moisture Ratio :	96.0%	103.5%	84.5%	91.5%	76.0%	
Density Test Results						
Field Dry Density (t/m ³) :	1.83	1.84	2.02	2.00	2.01	
Density Specification :	95%	95%	95%	95%	95%	
Dry Density Ratio :	96.5%	96.5%	96.5%	100.0%	101.5%	
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				<p>APPROVED SIGNATORY</p>  <p>Samuel Bamford - Signatory</p>		



Dry Density / Moisture Ratio Report

Client :	Shadforth		Report Number :	SR/PTP/10047 - 23/1		
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD		Report Date :	29/09/2022		
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks		Test Request :	-		
Project Number :	PTP/10047		Page 1 of 1			
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/158638	S/158639				
Date Tested :	20/09/2022	20/09/2022				
Material Source :	Onsite	Onsite				
For use as :	Allotment Fill	Allotment Fill				
Test / Layer Depths :	275 / 300	275 / 300				
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b				
Time :	08:27	08:34				
Lot Number :	3247	3248				
Location 1 :	E: 499219	E: 499219				
Location 2 :	N: 6931894	N: 6931905				
Location 3 :	RL: 50.4	RL: 50.7				
Location 4 :	-	-				
Test Fraction (mm) :	< 19mm	< 19mm				
Oversize Wet :	8%	3%				
Oversize Dry :	8%	3%				
Oversize Density - Dry (t/m ³) :	2.55	2.49				
Assigned MDR (Yes/No) :	No	No				
MDR Sample Number :	S/158638	S/158639				
MDR Test Date :	22/09/2022	21/09/2022				
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay				
MDR Test Results						
MDD (t/m ³) :	1.84	1.89				
OMC :	11.0%	11.0%				
ADJ MDD (t/m ³) :	1.89	1.91				
ADJ OMC :	10.0%	11.0%				
Moisture Test Results						
Field Moisture Content :	9.0%	10.0%				
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC				
Variation from OMC :	1.0% Dry of OMC	0.5% Dry of OMC				
Relative Moisture Ratio (Q250) :	-	-				
Moisture Ratio :	90.5%	94.0%				
Density Test Results						
Field Dry Density (t/m ³) :	1.92	1.88				
Density Specification :	95%	95%				
Dry Density Ratio :	102.0%	98.5%				
-						
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
			APPROVED SIGNATORY  Samuel Bamford - Signatory			
Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208						

Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 24/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	18/10/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/161372	S/161373	S/161374			
Date Tested :	4/10/2022	4/10/2022	4/10/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / 175	150 / 175	150 / 175			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	22:36	10:50	10:57			
Lot Number :	-	-	-			
Location 1 :	E 499158	E 499116	E 499135			
Location 2 :	N 6931984	N 6931961	N 6931942			
Location 3 :	0.6m BFL	0.6m BFL	0.6m BFL			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	0%	0%	0%			
Oversize Dry :	0%	0%	0%			
Oversize Density - Dry (t/m ³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/161372	S/161373	S/161374			
MDR Test Date :	5/10/2022	6/10/2022	7/10/2022			
Soil Description :	Sandy Clay	Sandy Clay	Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	2.04	1.86	1.83			
OMC :	8.0%	14.5%	14.5%			
ADJ MDD (t/m ³) :	-	-	-			
ADJ OMC :	-	-	-			
Moisture Test Results :						
Field Moisture Content :	8.0%	12.0%	13.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.0% Wet of OMC	2.0% Dry of OMC	1.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	102.0%	84.5%	90.0%			
Density Test Results						
Field Dry Density (t/m ³) :	2.07	1.90	1.84			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	101.5%	101.5%	100.5%			
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
	Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208			APPROVED SIGNATORY  Samuel Bamford - Signatory		

Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 27/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	6/12/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/163059	S/163060	S/163061	S/163062	S/163063	S/163064
Date Tested :	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -	150 / -
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	11:27	11:30	11:37	11:46	11:50	11:58
Lot Number :	3234	3236	3248	3246	Layer 1	Layer 2
Location 1 :	E: 499168	E: 499187	E: 499217	E: 499236	E: 499211	E: 499230
Location 2 :	N: 6931889	N: 6931898	N: 6931898	N: 6931881	N: 6932027	N: 6932009
Location 3 :	FFL	FFL	0.6m BFL	0.6m BFL	Layer 1	Layer 2
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Dry :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m ³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/163059	S/163060	S/163061	S/163062	S/163063	S/163064
MDR Test Date :	12/10/2022	12/10/2022	13/10/2022	14/10/2022	13/10/2022	12/10/2022
Soil Description :	Sandy Clayey Gravel	Sandy Clayey Gravel	Sandy Clayey Gravel	Sandy Clayey Gravel	Sandy Clayey Gravel	Sandy Clayey Gravel
MDR Test Results						
MDD (t/m ³) :	1.98	2.04	1.99	1.97	1.97	1.97
OMC :	13.0%	11.0%	10.0%	12.0%	10.5%	11.5%
ADJ MDD (t/m ³) :	-	-	-	-	-	-
ADJ OMC :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	11.0%	10.0%	10.0%	12.0%	9.0%	10.5%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	2.0% Dry of OMC	1.0% Dry of OMC	0.0% Dry of OMC	0.0% Wet of OMC	1.5% Dry of OMC	1.0% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	83.0%	92.0%	98.0%	101.5%	86.5%	90.5%
Density Test Results						
Field Dry Density (t/m ³) :	1.94	1.97	1.95	1.90	1.96	1.95
Density Specification :	95%	95%	95%	95%	95%	95%
Dry Density Ratio :	97.5%	97.0%	97.5%	96.5%	99.5%	99.0%
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
	Note: The results contained in this report relate only to the items that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast			APPROVED SIGNATORY  Samuel Bamford - Signatory		
	Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208					

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth	Report Number :	SR/PTP/10047 - 28/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	22/11/2022
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks	Test Request :	-
Project Number :	PTP/10047	Page 1 of 1	
Location :	Greenbank		

Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
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Sample Number :	S/162807	S/162808	S/162809	S/162810	S/162811	S/162812
Date Tested :	10/10/2022	10/10/2022	10/10/2022	10/10/2022	10/10/2022	10/10/2022
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -	150 / -

Sampling Method :	AS1289.1.2.1 - c16.4b	AS1289.1.2.1 - c16.4b	AS1289.1.2.1 - c16.4b	AS1289.1.2.1 - c16.4b	AS1289.1.2.1 - c16.4b	AS1289.1.2.1 - c16.4b
Time :	11:30	11:39	11:43	11:57	12:10	12:15
Lot Number :	3236	3237	3247	3249	3251	3234
Location 1 :	E: 499185	E: 499168	E: 499194	E: 499209	E: 499228	E: 499185
Location 2 :	N: 6931858	N: 6931901	N: 6931849	N: 6931921	N: 6931890	N: 6931936
Location 3 :	FL	FL	0.6m BFL	0.6m BFL	0.6m BFL	FL
Location 4 :	-	-	-	-	-	-

Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	18%	0%	16%	18%	14%	1%
Oversize Density - Dry (t/m ³) :	2.28	-	2.26	2.14	2.36	2.24
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/162807	S/162808	S/162809	S/162810	S/162811	S/162812
MDR Test Date :	20/10/2022	20/10/2022	14/10/2022	20/10/2022	13/10/2022	13/10/2022
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly Sandy Clay - Grey	Gravel - Grey	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Gravelly Sand - Brown	Gravelly Sandy Clay - Brown

MDR Test Results						
PCWD (t/m ³) :	2.09	2.21	2.19	2.17	2.14	2.13
Moisture Variation :	2.5%	0.5%	1.0%	2.5%	2.0%	2.0%
ADJ PCWD (t/m ³) :	2.12	-	2.20	2.17	2.17	2.13
ADJ Moisture Variation :	2.0%	-	1.0%	2.0%	1.5%	2.0%

Moisture Test Results :						
Field Moisture Content :	6.5%	11.0%	#N/A	6.5%	9.5%	10.0%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	2.0% Dry of OMC	0.5% Dry of OMC	1.0% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A



Density Test Results						
Field Wet Density (t/m ³) :	2.04	2.10	2.12	2.12	2.13	2.17
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	96.5%	95.5%	96.5%	97.5%	98.5%	102.0%

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Soil Particle Density (APD) t/m ³ :	
Soil Particle Density (APD) Date :	



Remarks :	
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 <p>Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	<p>APPROVED SIGNATORY</p>  <p>Nick Dobson - Signatory</p>
	<p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p>



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 29/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	9/11/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/166405	S/166406	S/166407			
Date Tested :	26/10/2022	26/10/2022	26/10/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / -	150 / -	150 / -			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	14:15	14:30	15:00			
Lot Number :	3259	3257	3260			
Location 1 :	E: 9129.2	E: 9123.0	E: 9145.3			
Location 2 :	N: 32032.7	N: 32012.3	N: 32032.0			
Location 3 :	RL: 60.48	RL: 59.13	RL: 59.50			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	12%	17%	12%			
Oversize Density - Dry (t/m ³) :	2.63	2.64	2.62			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/166405	S/166406	S/166407			
MDR Test Date :	8/11/2022	8/11/2022	8/11/2022			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results						
PCWD (t/m ³) :	2.21	2.10	2.21			
Moisture Variation :	1.0%	1.0%	0.5%			
ADJ PCWD (t/m ³) :	2.25	2.17	2.25			
ADJ Moisture Variation :	0.5%	1.0%	0.5%			
Moisture Test Results :						
Field Moisture Content :	9.0%	8.5%	9.5%			
Moisture Specification :	-	-	-			
Variation from OMC :	0.5% Dry of OMC	1.0% Dry of OMC	0.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
Density Test Results						
Field Wet Density (t/m ³) :	2.17	2.13	2.15			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	96.5%	98.0%	95.5%			
	-	-	-			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :	AS1289.1.2.1 cl16.4b and AS1289.5.8.1 performed by Protest Gold Coast Accreditation No. 22838					
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Sunshine Coast) Accreditation Number - 20499 Base Laboratory Site Number - 24490 - Sunshine Coast Base Laboratory Address - 4/81 Wisers Road, BUDERIM, QLD, 4556</p>	APPROVED SIGNATORY  Liam Manfield - Signatory					



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 30/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	10/11/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/164666	S/164668	S/164669			
Date Tested :	18/10/2022	18/10/2022	18/10/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / -	150 / -	150 / -			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:36	10:44	10:55			
Lot Number :	-	-	-			
Location 1 :	E: 499231.7	E: 499223.5	E: 499238.8			
Location 2 :	N: 6931887.3	N: 6931871.3	N: 6931861.9			
Location 3 :	0.3m BFL	0.3m BFL	0.3m BFL			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	14%	6%	0%			
Oversize Density - Dry (t/m ³) :	2.33	2.20	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/164666	S/164668	S/164669			
MDR Test Date :	9/11/2022	9/11/2022	7/11/2022			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Sandy Clay with Gravel - Brown	Sandy Clay with Gravel - Brown	Sandy Clay with Gravel - Brown			
<i>MDR Test Results</i>						
PCWD (t/m ³) :	2.10	2.05	2.17			
Moisture Variation :	2.0%	1.5%	2.0%			
ADJ PCWD (t/m ³) :	2.13	2.06	-			
ADJ Moisture Variation :	1.5%	1.5%	-			
<i>Moisture Test Results :</i>						
Field Moisture Content :	4.5%	5.0%	7.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	1.5% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m ³) :	2.09	2.17	2.15			
Density Specification :	98%	98%	98%			
Wet Density Ratio :	98.5%	105.0%	99.0%			
Characteristic Value (Q020) :	CV(min) = 97.8%	CV(max) = 103.8%	Mean = 100.8%	Std. Dev. = 3.6%	n = 3	k = 0.828
	-	-	-			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				APPROVED SIGNATORY  Nick Dobson - Signatory		



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 31/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	22/11/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/150266	S/150267	S/150268			
Date Tested :	10/08/2022	10/08/2022	10/08/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	14:06	14:10	14:13			
Lot Number :	3252	3251	3250			
Location 1 :	9m from Front Lot Boundary	18m from Front Lot Boundary	10m from Front Lot Boundary			
Location 2 :	5m from Right Lot Boundary	2m from Lot Boundary	4m from Right Lot Boundary			
Location 3 :	2nd Layer	2nd Layer	2nd Layer			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	9%	13%	11%			
Oversize Density - Dry (t/m ³) :	2.34	2.17	9.00			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/150266	S/150267	S/150268			
MDR Test Date :	21/09/2022	21/09/2022	21/09/2022			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Sandy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown			
MDR Test Results						
PCWD (t/m ³) :	2.18	2.24	2.09			
Moisture Variation :	-1.0%	-2.5%	-1.5%			
ADJ PCWD (t/m ³) :	2.20	2.23	2.29			
ADJ Moisture Variation :	-1.0%	-2.0%	-1.0%			
Moisture Test Results :						
Field Moisture Content :	12.5%	3.0%	12.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	1.0% Wet of OMC	2.0% Wet of OMC	1.0% Wet of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
Density Test Results						
Field Wet Density (t/m ³) :	2.14	2.18	2.17			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	97.5%	97.5%	95.0%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the items that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>			<p>APPROVED SIGNATORY</p>  Nick Dobson - Signatory			



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth	Report Number :	SR/PTP/10047 - 32/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	22/11/2022
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks	Test Request :	-
Project Number :	PTP/10047	Page 1 of 1	
Location :	Greenbank		
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,		
Sample Number :	S/150472		
Date Tested :	11/08/2022		
Material Source :	Onsite		
For use as :	Allotment Fill		
Test / Layer Depths :	275 / 300		
Sampling Method :	AS1289.1.2.1 - cl6.4b		
Time :	11:45		
Lot Number :	3257		
Location 1 :	10m From Front Lot Boundary		
Location 2 :	6m From Right Lot Boundary		
Location 3 :	RL 59.85		
Location 4 :	-		
Test Fraction (mm) :	< 19mm		
Oversize Wet :	0%		
Oversize Density - Dry (t/m ³) :	-		
Assigned MDR (Yes/No) :	No		
MDR Sample Number :	S/150472		
MDR Test Date :	12/08/2022		
Compaction Type :	Standard		
Soil Description :	Clay - Brown		
<i>MDR Test Results</i>			
PCWD (t/m ³) :	2.18		
Moisture Variation :	-1.5%		
ADJ PCWD (t/m ³) :	-		
ADJ Moisture Variation :	-		
<i>Moisture Test Results</i>			
Field Moisture Content :	14.0%		
Moisture Specification :	+/-2.0% of OMC		
Variation from OMC :	1.5% Wet of OMC		
Relative Moisture Ratio (Q250) :	-		
Moisture Ratio :	N/A		
<i>Density Test Results</i>			
Field Wet Density (t/m ³) :	2.20		
Density Specification :	95%		
Wet Density Ratio :	101.0%		
Soil Particle Density (APD) t/m ³ :			
Soil Particle Density (APD) Date :			
Remarks :			
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>		<p>APPROVED SIGNATORY</p>  Nick Dobson - Signatory	

Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/10047 - 33/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	6/12/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/163729	S/163730	S/163731			
Date Tested :	12/10/2022	12/10/2022	12/10/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / 300	150 / 300	150 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	14:45	14:50	14:55			
Lot Number :	3246	3246	3246			
Location 1 :	E: 499229	E: 499280	E: 499289			
Location 2 :	N: 6931884	N: 6931937	N: 6932008			
Location 3 :	-	-	-			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Overflow Wet :	0%	0%	0%			
Overflow Dry :	0%	0%	0%			
Overflow Density - Dry (t/m ³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/163729	S/163730	S/163731			
MDR Test Date :	14/10/2022	14/10/2022	13/10/2022			
Soil Description :	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay			
MDR Test Results						
MDD (t/m ³) :	1.98	1.96	1.94			
OMC :	13.5%	11.0%	10.5%			
ADJ MDD (t/m ³) :	-	-	-			
ADJ OMC :	-	-	-			
Moisture Test Results :						
Field Moisture Content :	13.0%	9.5%	10.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	0.0% Dry of OMC	1.5% Dry of OMC	0.0% Wet of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	98.5%	87.5%	102.0%			
Density Test Results						
Field Dry Density (t/m ³) :	1.97	1.99	1.99			
Density Specification :	95%	95%	95%			
Dry Density Ratio :	99.5%	102.0%	103.0%			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY					
				 Samuel Bamford - Signatory		

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 34/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	6/12/2022	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 1		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/166417	S/166418	S/166419			
Date Tested :	27/10/2022	27/10/2022	27/10/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / -	150 / -	150 / -			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	11:10	11:15	11:22			
Lot Number :	3208	3207	3206			
Location 1 :	E: 9117.3	E: 9127.0	E: 9126.3			
Location 2 :	N: 31903.2	N: 31909.8	N: 31900.2			
Location 3 :	RL: 55.15	RL: 55.43	RL: 54.96			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
OverSize Wet :	12%	16%	14%			
OverSize Density - Dry (t/m ³) :	2.30	2.23	2.28			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/166417	S/166418	S/166419			
MDR Test Date :	7/11/2022	7/11/2022	7/11/2022			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Clayey Gravel - Brown	Clayey Gravel - Brown	Clayey Gravel - Brown			
<i>MDR Test Results</i>						
PCWD (t/m ³) :	2.33	2.29	2.28			
Moisture Variation :	2.5%	3.0%	3.0%			
ADJ PCWD (t/m ³) :	2.33	2.28	2.28			
ADJ Moisture Variation :	2.5%	2.5%	2.5%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	6.0%	5.0%	6.0%			
Moisture Specification :	-	-	-			
Variation from OMC :	2.5% Dry of OMC	2.5% Dry of OMC	2.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m ³) :	2.34	2.30	2.29			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	100.5%	100.5%	100.5%			
Characteristic Value (Q020) :	CV(min) = 100.5%	CV(max) = 100.5%	Mean = 100.5%	Std. Dev. = 0.0%	n = 3	k = 0.828
	-	-	-			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY  Nick Dobson - Signatory					
	Document Number :	RF1				Date :



Appendix C

Particle Size Distribution Report

MORRISON GEOTECHNIC PTY LTD



MORRISON
GEOTECHNIC

Particle Size Distribution Report

Client :	Shadforth	Report Number :	SR/PTP/10047 - 42/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	25/01/2023
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks	Test Request :	-
Project Number :	PTP/10047	Page 1 of 1	
Location :	Greenbank		

Test Methods :	AS1289.3.6.1, AS1289.2.1.1,
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Material Description	Gravel - Grey
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Sample Number :	S/167961	Sampling Method :	AS1289.1.2.1 - cl6.4b
Date Tested :	10/11/2022	Time :	14:25
Material Source :	Onsite	Location 1 :	E: 44104.03
For Use As :	General Fill	Location 2 :	N: 6931090.4
Lot Number :	-	Location 3 :	RL: 54.83
PSD Specification Number :	N/A	Location 4 :	-

AS Sieve Size (mm) :	Percent Passing (%) :	Specification Limits :
75.0	95	
63.0		
53.0	93	
37.5	82	
26.5	73	
19.0	67	
16		
13.2	60	
9.5	57	
6.7	54	
4.75	53	
2.36	51	
1.18	47	
0.600	41	
0.425	37	
0.300	29	
0.150	18	
0.075	14	

Sieve Size (mm)	Percentage Passing (%)
0.075	14
0.15	18
0.3	29
0.425	37
0.6	41
1.18	47
2.36	51
4.75	53
6.7	54
9.5	57
13.2	60
19.0	67
26.5	73
37.5	82
53.0	93
75.0	95

Remarks :	-
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 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	<p style="text-align: center;">APPROVED SIGNATORY</p> <div style="text-align: center;">  Nick Dobson - Signatory </div>
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