

# Level One Compliance Report

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## BULK EARTHWORKS FILLING OPERATIONS Everleigh Estate Precinct 9.7

20 September 2023

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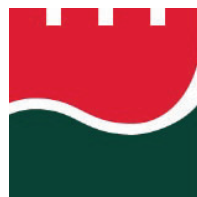
Prepared By

**MORRISON GEOTECHNIC**

Prepared for:

**Shadforth Civil Pty Ltd**

Document Reference: PTP/10047-P9.7



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Job No: PTP/10047  
Ref No: P9.7  
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20 September 2023

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**ATTENTION: CALLUM WATTS**  
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**RE: LEVEL ONE COMPLIANCE REPORT FOR BULK EARTHWORKS FILLING OPERATIONS,  
EVERLEIGH ESTATE - PRECINCT 9.7, 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 9.7, Teviot Road, Greenbank.

Earthworks operations were carried out by Shadforth Civil.

Earthworks filling operations for Precinct 9.7 allotments and roads were carried out between 8 September 2022 and 21 June 2023.

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

Figure 1 presents the extent of earthworks as shown on the Premise Earthworks Drawings MIR-0907-C200 and 201-B.

Figures 2 and 3 show the actual fill areas and conformance with the 600mm and 100mm below finished surface level as shown on the Shadforth Civil Survey Plans.

**Figure 1: Extent of Fill (Precinct 9.7) - Premise Earthworks Drawing MIR-0907-C200 and C201-B**



Figure 2: Actual Constructed Area of Fill (600mm BFSL) – Shadforth Survey Plans

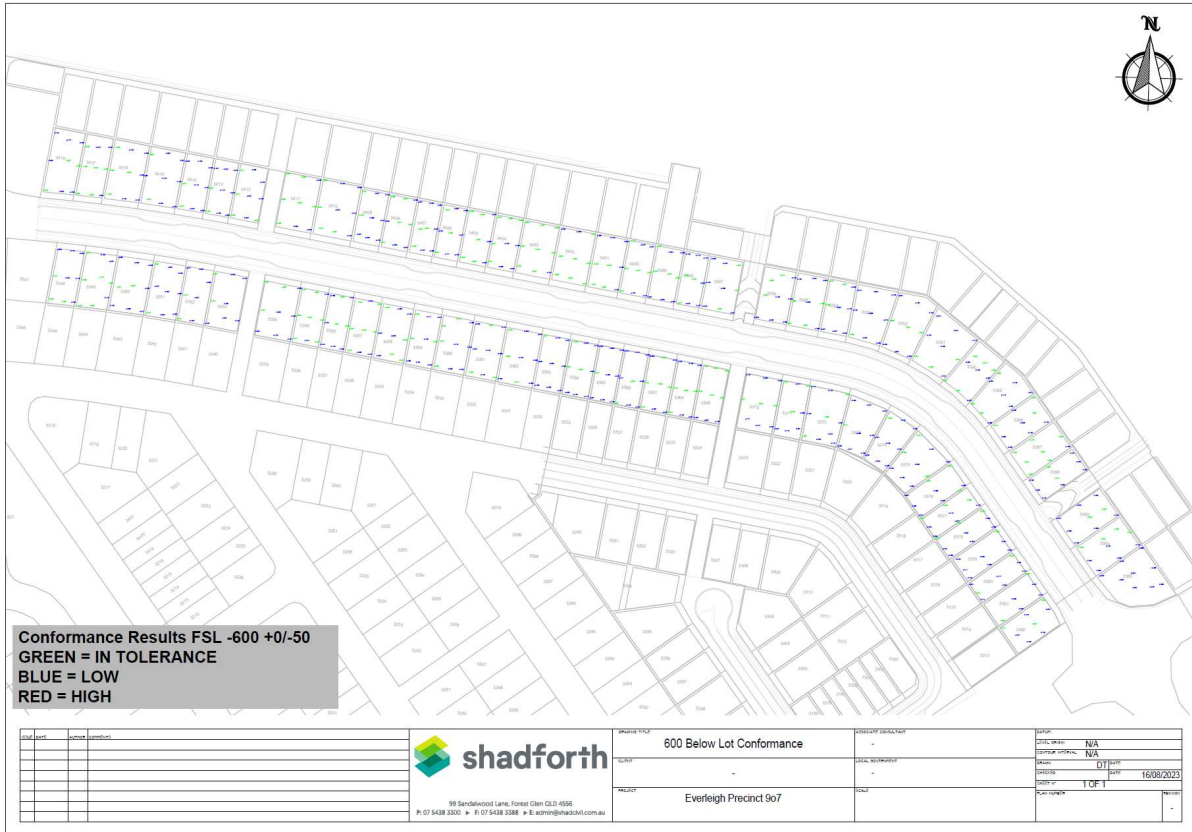
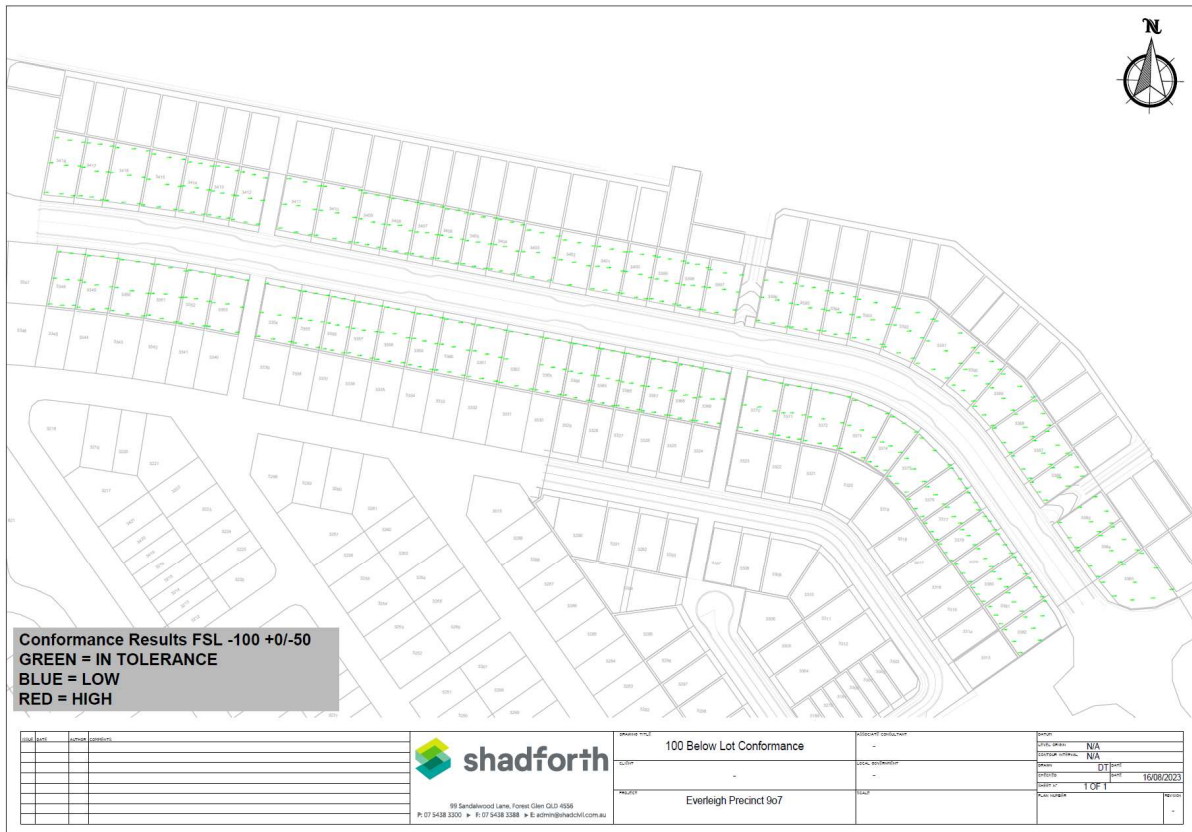


Figure 3: Actual Constructed Area of Fill (100mm BFSL) – Shadforth Survey Plans



## 1.2 Previous Earthworks

As far as Morrison Geotechnic are aware, there were no previous earthworks 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 the sports and recreation precinct and new precincts to the south and future precincts to the north and east.

## 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 Drawings MIR-0907-C200 and 201-B.
- Recommendations in Morrison Geotechnic report “Recommended Filling Earthworks Specification” report 16520B, dated 25<sup>th</sup> June 2020.

All other design requirements such as CBR and Quality of Materials, site classification, material assessments, foundation assessments and slope / global stability appraisals were not included in the Brief and are therefore excluded from this Report.

For the actual constructed fill thickness and extremities on fill placed, a disclosure plan should be requested from the developer.

## 2.1 Additional Requirements

Additional requirements for the fill shown in Premise Drawing – MIR009-01-C210 Rev A. are given in Figure 4.

**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"> <li>1. OMC - OPTIMUM MOISTURE CONTENT</li> <li>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.</li> <li>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.</li> <li>4. UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT.</li> <li>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.</li> <li>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.</li> </ol> <p>KEY OUTCOMES FOR EARTHWORKS OPERATIONS</p> <ol style="list-style-type: none"> <li>1. DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS</li> <li>2. FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m</li> <li>3. CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS</li> <li>4. BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT</li> <li>5. MATERIAL WON FROM CUTS AND USED IN FILL WITH REQUIRE <ul style="list-style-type: none"> <li>• CUTS IN ROCK AS WELL AS BLENDED WITH</li> <li>• CUTS IN FINER MATERIALS SUCH AS SANDS AND CLAYS</li> </ul> </li> <li>6. CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289</li> </ol>						

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 and exposed ground surfaces and during the placement and compaction of fill materials forming residential allotments and road subgrades.

Field and laboratory testing included walk over assessments of the existing ground conditions, proof roll testing of the stripped surface including the natural surface, observations of filling and compaction activities, field density testing using a soil moisture density gauge and Hilf Density compactions.

#### **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 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 maximum Hilf Density 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 the Random Stratified Location method.

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 typical fill construction activities 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 standards (AS3798, AS1289). Testing achieved the required specification of 95% Standard Maximum Dry Density (SMDD) at the test locations.

Level One Inspection and Testing has been carried out on the filling operation at the Site (limited to the extent shown in Figure 1). Based on the observations made by our Geo-technicians 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 AS2870-2011 Residential Slabs and Footings.

#### 5.0 EXCLUSIONS

This statement does not include any topsoil, which may be placed for use as dressing, trench backfill, areas outside the locations shown in Figure 1 or any other subsequent earthworks after 21 June 2023.

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 (**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 9.6, Everleigh Estate (**Project**). The Report is only intended to address those issues expressly described in the Brief/ Work Instructions in this Report.

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- (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.

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- (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 office.

Yours faithfully



**GARY TAYLOR**  
For and on behalf of  
**MORRISON GEOTECHNIC**



**SIMON WYNNE (RPEQ 17390)**  
For and on behalf of  
**MORRISON GEOTECHNIC**

**ATTACHMENTS:**

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



# Appendix A

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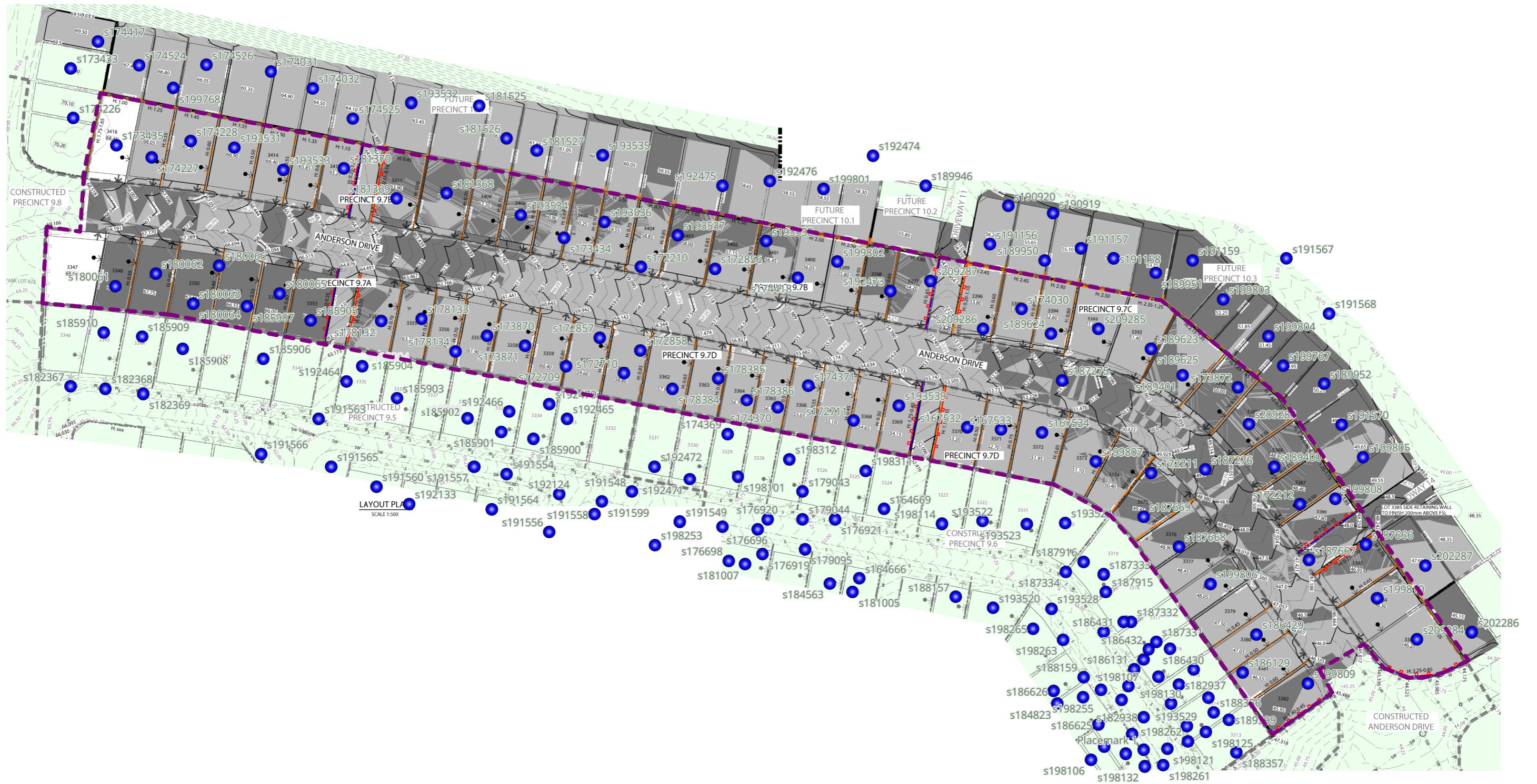
## Site Plan & Test Locations

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EVERLEIGH PRECINCT 9.7 - LEVEL 1 TESTS



# Appendix B

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# Laboratory Test Reports



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## Soil Compaction and Density Tests Report - Compaction Control



Client :	Shadforth			Report Number :	SR/PTP/10047 - 35/1	
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/167532	S/167533	S/167534			
Date Tested :	28/10/2022	28/10/2022	28/10/2022			
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	10:41	10:53			
Lot Number :	3323	3322	3321			
Location 1 :	E: 9222.9	E: 9223.1	E: 9237.1			
Location 2 :	N: 32008.7	N: 31992.8	N: 31989.3			
Location 3 :	RL: 52.06	RL: 52.17	RL: 52.20			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
OverSize Wet :	13%	1%	3%			
OverSize Density - Dry (t/m <sup>3</sup> ) :	2.30	2.84	2.29			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/167532	S/167533	S/167534			
MDR Test Date :	14/11/2022	10/11/2022	15/11/2022			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown			
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.16	2.05	2.09			
Moisture Variation :	0.5%	2.0%	2.5%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.17	2.06	2.09			
ADJ Moisture Variation :	0.5%	2.0%	2.5%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	10.0%	8.5%	9.5%			
Moisture Specification :	-	-	-			
Variation from OMC :	<b>0.5% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>2.5% Dry of OMC</b>			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.09	2.13	2.09			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	<b>96.0%</b>	<b>103.0%</b>	<b>100.0%</b>			
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>        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>				<b>APPROVED SIGNATORY</b>  Nick Dobson - Signatory		

### Soil Compaction and Density Tests Report - Compaction Control



Client :	Shadforth			Report Number :	SR/PTP/10047 - 56/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	3/02/2023
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/172210	S/172211	S/172212		
Date Tested :	24/11/2022	24/11/2022	24/11/2022		
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 :	14:02	14:09	14:17		
Lot Number :	-	-	-		
Location 1 :	E: 499137.28	E: 499187.81	E: 499259.84		
Location 2 :	N: 6932145.97	N: 6932128.07	N: 6932123.95		
Location 3 :	RL: 62.77	RL: 59.62	RL: 56.46		
Location 4 :	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm		
Oversize Wet :	14%	17%	14%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.12	2.08	1.94		
Assigned MDR (Yes/No) :	No	No	No		
MDR Sample Number :	S/172210	S/172211	S/172212		
MDR Test Date :	9/01/2023	9/01/2023	9/01/2023		
Compaction Type :	Standard	Standard	Standard		
Soil Description :	Gravelly Clay - Brown	Gravelly Clay - Brown	Gravelly Clay - Brown		
<b>MDR Test Results</b>					
PCWD (t/m <sup>3</sup> ) :	2.17	2.13	2.13		
Moisture Variation :	0.5%	2.5%	2.5%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.17	2.12	2.11		
ADJ Moisture Variation :	0.5%	2.0%	2.0%		
<b>Moisture Test Results :</b>					
Field Moisture Content :	8.5%	6.5%	6.5%		
Moisture Specification :	±2% of OMC	±2% of OMC	±2% of OMC		
Variation from OMC :	0.5% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC		
Relative Moisture Ratio (Q250) :	-	-	-		
Moisture Ratio :	N/A	N/A	N/A		
<b>Density Test Results</b>					
Field Wet Density (t/m <sup>3</sup> ) :	2.13	2.11	2.12		
Density Specification :	95%	95%	95%		
Wet Density Ratio :	98.5%	99.5%	100.5%		
Soil Particle Density (APD) t/m <sup>3</sup> :					
Soil Particle Density (APD) Date :					
Remarks :					
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		





### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 58/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	3/02/2023	
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/172709	S/172710	S/172711			
Date Tested :	28/11/2022	28/11/2022	28/11/2022			
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 :	14:01	14:11	14:15			
Lot Number :	3331	3330	3329			
Location 1 :	E: 499188.23	E: 499211.33	E: 499226.39			
Location 2 :	N: 6932100.85	N: 6932097.41	N: 6932095.42			
Location 3 :	RL: 55.37	RL: 54.76	RL: 54.02			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	8%	10%	7%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.31	2.25	2.22			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/172709	S/172710	S/172711			
MDR Test Date :	11/01/2023	11/01/2023	11/01/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Gravelly Clayey SAND - Brown	Sandy GRAVEL - Brown	Sandy GRAVEL - Brown			
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.04	2.03	2.01			
Moisture Variation :	2.5%	2.5%	2.0%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.06	2.05	2.02			
ADJ Moisture Variation :	2.5%	2.0%	2.0%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	7.0%	4.5%	4.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	<b>2.5% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	1.99	2.05	2.06			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	<b>97.0%</b>	<b>100.0%</b>	<b>102.0%</b>			
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <small>WORLD RECOGNISED ACCREDITATION</small>	<small>Note: The results contained in this report relate only to the item/s that were tested/sampled</small> <b>Accredited for Compliance with ISO/IEC 17025 - Testing</b> Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast  Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208			<b>APPROVED SIGNATORY</b>    Nick Dobson - Signatory		



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 59/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	3/02/2023
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/172856	S/172857	S/172858		
Date Tested :	29/11/2022	29/11/2022	29/11/2022		
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 :	10:28	10:36	10:40		
Lot Number :	3364	3365	3366		
Location 1 :	E: 4991814.20	E: 499198.73	E: 499217.43		
Location 2 :	N: 6932110.61	N: 6932100.66	N: 6932106.03		
Location 3 :	RL: 56.61	RL: 55.89	RL: 55.50		
Location 4 :	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm		
Oversize Wet :	7%	12%	16%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.33	2.34	2.29		
Assigned MDR (Yes/No) :	No	No	No		
MDR Sample Number :	S/172856	S/172857	S/172858		
MDR Test Date :	12/01/2023	12/01/2023	12/01/2023		
Compaction Type :	Standard	Standard	Standard		
Soil Description :	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown		
<i>MDR Test Results</i>					
PCWD (t/m <sup>3</sup> ) :	2.03	2.15	2.10		
Moisture Variation :	2.5%	1.0%	2.0%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.05	2.17	2.13		
ADJ Moisture Variation :	2.0%	1.0%	2.0%		
<i>Moisture Test Results :</i>					
Field Moisture Content :	6.5%	10.0%	5.0%		
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC		
Variation from OMC :	<b>2.0% Dry of OMC</b>	<b>1.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>		
Relative Moisture Ratio (Q250) :	-	-	-		
Moisture Ratio :	N/A	N/A	N/A		
<i>Density Test Results</i>					
Field Wet Density (t/m <sup>3</sup> ) :	2.15	2.11	2.15		
Density Specification :	95%	95%	95%		
Wet Density Ratio :	<b>105.0%</b>	<b>97.0%</b>	<b>100.5%</b>		
Soil Particle Density (APD) t/m <sup>3</sup> :					
Soil Particle Density (APD) Date :					
Remarks :					
 <p><b>Note:</b> The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		



**Soil Compaction and Density Tests Report - Compaction Control**

Client :	Shadforth			Report Number :	SR/PTP/10047 - 60/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	6/02/2023
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/173433	S/173434	S/173435		
Date Tested :	5/12/2022	5/12/2022	5/12/2022		
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 :	12:58	13:01	13:06		
Lot Number :	3417	3416	3416		
Location 1 :	E: 498992.36	E: 498993.91	E: 499002.87		
Location 2 :	N: 6932202.20	N: 6932196.74	N: 6932203.88		
Location 3 :	0.3m BFL	0.3m BFL	0.3m BFL		
Location 4 :	-	-	-		
Test Fraction (mm) :	< 37.5mm	< 37.5mm	< 19mm		
Oversize Wet :	9%	11%	20%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.39	2.24	2.35		
Assigned MDR (Yes/No) :	No	No	No		
MDR Sample Number :	S/173433	S/173434	S/173435		
MDR Test Date :	18/01/2023	18/01/2023	13/01/2023		
Compaction Type :	Standard	Standard	Standard		
Soil Description :	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Sandy Clay - Brown		
<i>MDR Test Results</i>					
PCWD (t/m <sup>3</sup> ) :	2.29	2.30	2.17		
Moisture Variation :	1.5%	2.0%	-0.5%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.30	2.29	2.21		
ADJ Moisture Variation :	1.5%	2.0%	-0.5%		
<i>Moisture Test Results :</i>					
Field Moisture Content :	12.0%	11.5%	10.0%		
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	0.5% Wet of OMC		
Relative Moisture Ratio (Q250) :	-	-	-		
Moisture Ratio :	N/A	N/A	N/A		
<i>Density Test Results</i>					
Field Wet Density (t/m <sup>3</sup> ) :	2.19	2.28	2.13		
Density Specification :	95%	95%	95%		
Wet Density Ratio :	95.5%	99.5%	96.5%		
Soil Particle Density (APD) t/m <sup>3</sup> :					
Soil Particle Density (APD) Date :					
Remarks :					
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		



**Soil Compaction and Density Tests Report - Compaction Control**

Client :	Shadforth			Report Number :	SR/PTP/10047 - 61/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	6/02/2023
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/173870	S/173871	S/173872		
Date Tested :	6/12/2022	6/12/2022	6/12/2022		
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 :	10:35	10:41	10:50		
Lot Number :	3358	3359	3360		
Location 1 :	E: 499156.83	E: 499181.37	E: 499198.52		
Location 2 :	N: 6932112.75	N: 6932110.50	N: 6932103.26		
Location 3 :	RL: 60.27	RL: 59.60	RL: 59.22		
Location 4 :	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm		
Oversize Wet :	4%	1%	6%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.32	2.20	2.26		
Assigned MDR (Yes/No) :	No	No	No		
MDR Sample Number :	S/173870	S/173871	S/173872		
MDR Test Date :	17/01/2023	18/01/2023	17/01/2023		
Compaction Type :	Standard	Standard	Standard		
Soil Description :	Sandy Clayey Gravel	Sandy Clayey Gravel	Sandy Clayey Gravel		
<i>MDR Test Results</i>					
PCWD (t/m <sup>3</sup> ) :	2.14	2.16	2.09		
Moisture Variation :	1.5%	2.0%	2.0%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.14	2.16	2.10		
ADJ Moisture Variation :	1.5%	2.0%	2.0%		
<i>Moisture Test Results :</i>					
Field Moisture Content :	9.5%	11.0%	9.5%		
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	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 <sup>3</sup> ) :	2.18	2.21	2.12		
Density Specification :	95%	95%	95%		
Wet Density Ratio :	101.5%	102.5%	101.5%		
Soil Particle Density (APD) t/m <sup>3</sup> :					
Soil Particle Density (APD) Date :					
Remarks :					
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 62/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	6/02/2023	
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/174030	S/174031	S/174032			
Date Tested :	7/12/2022	7/12/2022	7/12/2022			
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 :	10:31	10:36	10:49			
Lot Number :	4029	4030	4031			
Location 1 :	E: 499057.03	E: 499070.84	E: 499087.75			
Location 2 :	N: 6932224.07	N: 6932218.35	N: 6932211.19			
Location 3 :	RL: 64.75	RL: 64.75	RL: 64.30			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	5%	9%	11%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.34	2.26	2.24			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/174030	S/174031	S/174032			
MDR Test Date :	18/01/2023	19/01/2023	18/01/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Sandy Gravelly - Brown	Sandy Gravelly - Brown	Sandy Gravelly - Brown			
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	1.99	2.03	2.02			
Moisture Variation :	1.5%	2.0%	2.5%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.00	2.04	2.04			
ADJ Moisture Variation :	1.5%	2.0%	2.0%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	6.0%	6.0%	5.5%			
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	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 <sup>3</sup> ) :	2.05	1.99	2.00			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	102.0%	97.0%	97.5%			
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 63/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	6/02/2023
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/174226	S/174227	S/174228		
Date Tested :	8/12/2022	8/12/2022	8/12/2022		
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 :	10:33	10:41	10:47		
Lot Number :	3418	3417	3416		
Location 1 :	E: 498979.55	E: 498999.14	E: 499009.54		
Location 2 :	N: 6932193.19	N: 6932196.88	N: 6932191.86		
Location 3 :	RL: 68.11	RL: 67.84	RL: 67.33		
Location 4 :	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm		
Oversize Wet :	10%	12%	14%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.21	2.26	2.25		
Assigned MDR (Yes/No) :	No	No	No		
MDR Sample Number :	S/174226	S/174227	S/174228		
MDR Test Date :	19/01/2023	19/01/2023	19/01/2023		
Compaction Type :	Standard	Standard	Standard		
Soil Description :	Clayey Gravelly Sand - Brown	Clayey Gravelly Sand - Brown	Gravelly Clayey Sand - Brown		
<i>MDR Test Results</i>					
PCWD (t/m <sup>3</sup> ) :	2.13	2.21	2.17		
Moisture Variation :	2.0%	2.0%	2.0%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.14	2.22	2.18		
ADJ Moisture Variation :	1.5%	1.5%	1.5%		
<i>Moisture Test Results :</i>					
Field Moisture Content :	8.5%	9.0%	8.0%		
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	1.5% 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 <sup>3</sup> ) :	2.10	2.19	2.16		
Density Specification :	95%	95%	95%		
Wet Density Ratio :	98.5%	98.5%	99.0%		
Soil Particle Density (APD) t/m <sup>3</sup> :					
Soil Particle Density (APD) Date :					
Remarks :					
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		

### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 68/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	21/02/2023	
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/180064	S/180065	S/180066			
Date Tested :	6/02/2023	6/02/2023	6/02/2023			
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 :	10:30	10:34	10:41			
Lot Number :	3349	3350	3351			
Location 1 :	E: 499039	E: 499026	E: 499044			
Location 2 :	N: 6932125	N: 6932126	N: 6932134			
Location 3 :	RL: 67.68	RL: 67.02	RL: 66.21			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	18%	9%	8%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.09	2.67	2.41			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/180064	S/180065	S/180066			
MDR Test Date :	21/02/2023	21/02/2023	21/02/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Sandy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown			
<b>MDR Test Results</b>						
PCWD (t/m <sup>3</sup> ) :	2.14	2.03	2.10			
Moisture Variation :	2.5%	2.5%	2.5%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.13	2.07	2.12			
ADJ Moisture Variation :	2.0%	2.5%	2.5%			
<b>Moisture Test Results :</b>						
Field Moisture Content :	8.0%	7.5%	8.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	<b>2.0% Dry of OMC</b>	<b>2.5% Dry of OMC</b>	<b>2.5% Dry of OMC</b>			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<b>Density Test Results</b>						
Field Wet Density (t/m <sup>3</sup> ) :	2.10	2.12	2.22			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	<b>98.5%</b>	<b>102.5%</b>	<b>104.5%</b>			
-						
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p><b>Note:</b> The results contained in this report relate only to the item/s that were tested/sampled</p> <p><b>Accredited for Compliance with ISO / IEC 17025 - Testing</b></p> <p>Protest Engineering (Gold Coast) Accreditation Number - 19667</p> <p>Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				<p><b>APPROVED SIGNATORY</b></p>  <p>Nick Dobson - Signatory</p>		

### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth	Report Number :	SR/PTP/10047 - 69/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	21/02/2023
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/174369	S/174370	S/174371	S/174417	S/174418	
Date Tested :	9/12/2022	9/12/2022	9/12/2022	9/12/2022	9/12/2022	
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	
Test / Layer Depths :	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	
Time :	10:31	10:38	10:42	11:57	12:04	
Lot Number :	3364	3365	3366	4001	4002	
Location 1 :	E: 499252.16	E: 499272.33	E: 499284.41	E: 498989.53	E: 498989.07	
Location 2 :	N: 6932073.64	N: 6932084.70	N: 6932092.69	N: 6932192.55	N: 6932207.49	
Location 3 :	RL: 66.01	RL: 65.73	RL: 64.76	RL: 69.48	RL: 69.48	
Location 4 :	-	-	-	-	-	

Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	
Override Wet :	13%	12%	7%	12%	7%	
Override Density - Dry (t/m <sup>3</sup> ) :	2.15	2.21	2.29	2.25	2.32	
Assigned MDR (Yes/No) :	No	No	No	No	No	
MDR Sample Number :	S/174369	S/174370	S/174371	S/174417	S/174418	
MDR Test Date :	20/01/2023	20/01/2023	20/01/2023	20/01/2023	20/01/2023	
Compaction Type :	Standard	Standard	Standard	Standard	Standard	
Soil Description :	Clayey Sandy Gravel - Brown	Clayey Sandy Gravel - Brown	Clayey Sandy Gravel - Brown	Clayey Sandy Gravel - Brown	Clayey Sandy Gravel - Brown	



<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.08	2.03	2.05	2.06	2.09	
Moisture Variation :	2.0%	1.0%	1.0%	2.0%	1.5%	
ADJ PCWD (t/m <sup>3</sup> ) :	2.09	2.05	2.07	2.08	2.11	
ADJ Moisture Variation :	2.0%	1.0%	1.0%	1.5%	1.5%	

<i>Moisture Test Results :</i>						
Field Moisture Content :	7.5%	8.0%	7.5%	6.0%	6.0%	
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 :	<b>2.0% Dry of OMC</b>	<b>1.0% Dry of OMC</b>	<b>1.0% Dry of OMC</b>	<b>1.5% Dry of OMC</b>	<b>1.5% Dry of OMC</b>	
Relative Moisture Ratio (Q250) :	-	-	-	-	-	
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	

<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.06	2.02	2.10	2.06	2.12	
Density Specification :	98%	98%	98%	98%	98%	
Wet Density Ratio :	<b>99.0%</b>	<b>98.5%</b>	<b>101.5%</b>	<b>99.0%</b>	<b>100.5%</b>	



	-	-	-	-	-	

Soil Particle Density (APD) t/m <sup>3</sup> :						
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  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  <p>Nick Dobson - Signatory</p>
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### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 76/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	21/02/2023	
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/178132	S/178133	S/178134			
Date Tested :	23/01/2023	23/01/2023	23/01/2023			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Trench Backfill	Trench Backfill	Trench Backfill			
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 :	14:03	14:09	14:13			
Lot Number :	3354	3355	3356			
Location 1 :	E: 499114.53	E: 499130.57	E: 499143.72			
Location 2 :	N: 6932118.80	N: 6932119.46	N: 6932102.56			
Location 3 :	RL: 63.85	RL: 63.15	RL: 62.50			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
OverSize Wet :	13%	15%	16%			
OverSize Density - Dry (t/m <sup>3</sup> ) :	16.92	10.51	5.93			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/178132	S/178133	S/178134			
MDR Test Date :	14/02/2023	14/02/2023	14/02/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Gravelly Sand - Brown	Gravelly Sand - Brown	Gravelly Sand - Brown			
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	1.99	1.94	1.96			
Moisture Variation :	2.0%	2.5%	2.5%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.25	2.21	2.20			
ADJ Moisture Variation :	2.0%	2.0%	2.0%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	3.5%	3.5%	5.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.14	2.16	2.11			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	<b>95.0%</b>	<b>97.5%</b>	<b>96.0%</b>			
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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>				<b>APPROVED SIGNATORY</b>  Nick Dobson - Signatory		



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 77/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	21/02/2023	
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/178384	S/178385	S/178386			
Date Tested :	24/01/2023	24/01/2023	24/01/2023			
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 :	14:00	14:08	14:14			
Lot Number :	3364	3363	3362			
Location 1 :	E: 499230.52	E: 499248.10	E: 499261.74			
Location 2 :	N: 6932091.27	N: 6932090.39	N: 6932090.13			
Location 3 :	RL: 56.60	RL: 56.60	RL: 57.62			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 37.5mm	< 19mm			
Oversize Wet :	0%	11%	0%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	2.30	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/178384	S/178385	S/178386			
MDR Test Date :	13/02/2023	13/02/2023	13/02/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Sandy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown			
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.09	2.12	2.13			
Moisture Variation :	1.0%	1.0%	2.0%			
ADJ PCWD (t/m <sup>3</sup> ) :	-	2.14	-			
ADJ Moisture Variation :	-	1.0%	-			
<i>Moisture Test Results :</i>						
Field Moisture Content :	7.0%	5.5%	7.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	<b>1.0% Dry of OMC</b>	<b>1.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.07	2.14	2.12			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	<b>99.0%</b>	<b>100.0%</b>	<b>99.0%</b>			
-						
-						
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p><b>Note:</b> The results contained in this report relate only to the item/s that were tested/sampled  <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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>				<b>APPROVED SIGNATORY</b>    Nick Dobson - Signatory		



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 79/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	2/03/2023	
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/181368	S/181369	S/181370			
Date Tested :	13/02/2023	13/02/2023	13/02/2023			
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 :	14:06	14:15	14:20			
Lot Number :	3411	3412	3413			
Location 1 :	E: 499140	E: 499120	E: 499099			
Location 2 :	N: 6932169	N: 6932167	N: 6932179			
Location 3 :	RL: 63.54	RL: 64.89	RL: 65.42			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
OverSize Wet :	10%	1%	11%			
OverSize Density - Dry (t/m <sup>3</sup> ) :	2.33	2.29	1.58			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/181368	S/181369	S/181370			
MDR Test Date :	1/03/2023	1/03/2023	1/03/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown			
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.17	2.13	2.20			
Moisture Variation :	2.5%	2.0%	0.5%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.18	2.13	2.11			
ADJ Moisture Variation :	2.0%	2.0%	0.5%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	6.0%	6.5%	6.0%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>0.5% Dry of OMC</b>			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.11	2.05	2.08			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	<b>96.5%</b>	<b>96.0%</b>	<b>98.5%</b>			
-						
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p><b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b> 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><b>APPROVED SIGNATORY</b></p>  <p>Nick Dobson - Signatory</p>		



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth				Report Number :	SR/PTP/10047 - 90/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	20/03/2023
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/185889	S/185890	S/185891	S/185892		
Date Tested :	9/03/2023	9/03/2023	9/03/2023	9/03/2023		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	General Fill	General Fill	General Fill	General Fill		
Test / Layer Depths :	150 / 175	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	AS1289.1.2.1 - cl6.4b		
Time :	10:00	10:08	10:15	10:22		
Lot Number :	-	-	-	-		
Location 1 :	Basin Fill	Basin Fill	Basin Fill	Basin Fill		
Location 2 :	E: 499342	E: 499345	E: 499358	E: 499365		
Location 3 :	N: 6931915	N: 6931924	N: 6931921	N: 6931916		
Location 4 :	RL: 45.05	RL: 45.45	RL: 45.85	RL: 46.25		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	0%	0%	0%	0%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-	-	-		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/185889	S/185890	S/185891	S/185892		
MDR Test Date :	16/03/2023	16/03/2023	16/03/2023	16/03/2023		
Compaction Type :	Standard	Standard	Standard	Standard		
Soil Description :	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown		
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.15	2.19	2.17	2.21		
Moisture Variation :	1.5%	2.0%	1.5%	2.0%		
ADJ PCWD (t/m <sup>3</sup> ) :	-	-	-	-		
ADJ Moisture Variation :	-	-	-	-		
<i>Moisture Test Results :</i>						
Field Moisture Content :	7.0%	10.5%	9.5%	10.0%		
Moisture Specification :	-	-	-	-		
Variation from OMC :	1.5% 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		
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.15	2.15	2.16	2.15		
Density Specification :	95%	95%	95%	95%		
Wet Density Ratio :	100.0%	98.5%	100.0%	97.5%		
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>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 - 91/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD						Report Date :	20/03/2023
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks						Test Request :	-
Project Number :	PTP/10047						Page 1 of 4	
Location :	Greenbank							
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,							
Sample Number :	S/185893	S/185894	S/185895	S/185896	S/185897	S/185898		
Date Tested :	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023		
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	10:30	10:36	10:42	10:51	11:01	11:10		
Lot Number :	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6		
Location 1 :	E: 499262	E: 499183	E: 499192	E: 499171	E: 499141	E: 499008		
Location 2 :	N: 6931869	N: 6931993	N: 6931982	N: 6932020	N: 6932033	N: 6932053		
Location 3 :	0.3m BFL	0.3m BFL	FL	0.3m BFL	FL	0.3m BFL		
Location 4 :	-	-	-	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	0%	0%	0%	0%	0%	0%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-	-	-	-	-		
Assigned MDR (Yes/No) :	No	No	No	No	No	No		
MDR Sample Number :	S/185893	S/185894	S/185895	S/185896	S/185897	S/185898		
MDR Test Date :	17/03/2023	16/03/2023	17/03/2023	17/03/2023	17/03/2023	17/03/2023		
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard		
Soil Description :	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown		
<b>MDR Test Results</b>								
PCWD (t/m <sup>3</sup> ) :	2.16	2.16	2.14	2.19	2.14	2.13		
Moisture Variation :	2.0%	1.5%	2.0%	2.0%	1.5%	1.5%		
ADJ PCWD (t/m <sup>3</sup> ) :	-	-	-	-	-	-		
ADJ Moisture Variation :	-	-	-	-	-	-		
<b>Moisture Test Results :</b>								
Field Moisture Content :	8.0%	9.5%	10.0%	10.0%	10.5%	9.0%		
Moisture Specification :	-	-	-	-	-	-		
Variation from OMC :	2.0% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC	1.5% Dry of OMC		
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-		
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A		
<b>Density Test Results</b>								
Field Wet Density (t/m <sup>3</sup> ) :	2.15	2.15	2.16	2.16	2.14	2.15		
Density Specification :	95%	95%	95%	95%	95%	95%		
Wet Density Ratio :	99.5%	100.0%	101.0%	98.5%	100.0%	101.0%		
-								
-								
Soil Particle Density (APD) t/m <sup>3</sup> :								
Soil Particle Density (APD) Date :								
Remarks :								
 <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>APPROVED SIGNATORY</p>  <p>Nick Dobson - Signatory</p>				



## Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth					Report Number :	SR/PTP/10047 - 91/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD					Report Date :	20/03/2023
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks					Test Request :	-
Project Number :	PTP/10047					Page 2 of 4	
Location :	Greenbank						
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,						
Sample Number :	S/185899	S/185900	S/185901	S/185902	S/185903	S/185904	
Date Tested :	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023	
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	
Time :	11:19	11:26	11:39	11:48	12:05	12:18	
Lot Number :	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	
Location 1 :	E: 499109	E: 499176	E: 499162	E: 499148	E: 499120	E: 499115	
Location 2 :	N: 6932044	N: 6932078	N: 6932074	N: 6932079	N: 6932057	N: 6932096	
Location 3 :	0.3m BFL	FL	0.3m BFL	FL	FL	0.3m BFL	
Location 4 :	-	-	-	-	-	-	
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	
Oversize Wet :	0%	0%	0%	0%	0%	0%	
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-	-	-	-	-	
Assigned MDR (Yes/No) :	No	No	No	No	No	No	
MDR Sample Number :	S/185899	S/185900	S/185901	S/185902	S/185903	S/185904	
MDR Test Date :	16/03/2023	16/03/2023	16/03/2023	16/03/2023	16/03/2023	16/03/2023	
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard	
Soil Description :	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	
<b>MDR Test Results</b>							
PCWD (t/m <sup>3</sup> ) :	2.13	2.12	2.15	2.09	2.13	2.16	
Moisture Variation :	1.5%	1.5%	2.5%	1.5%	2.0%	2.0%	
ADJ PCWD (t/m <sup>3</sup> ) :	-	-	-	-	-	-	
ADJ Moisture Variation :	-	-	-	-	-	-	
<b>Moisture Test Results :</b>							
Field Moisture Content :	9.0%	9.0%	7.5%	7.0%	10.0%	9.5%	
Moisture Specification :	-	-	-	-	-	-	
Variation from OMC :	1.5% Dry of OMC	1.5% Dry of OMC	2.5% Dry of OMC	1.5% Dry of OMC	2.0% 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	
<b>Density Test Results</b>							
Field Wet Density (t/m <sup>3</sup> ) :	2.12	2.11	2.10	2.10	2.12	2.13	
Density Specification :	95%	95%	95%	95%	95%	95%	
Wet Density Ratio :	99.5%	99.5%	98.0%	100.5%	99.5%	98.5%	
-							
Soil Particle Density (APD) t/m <sup>3</sup> :							
Soil Particle Density (APD) Date :							
Remarks :							
 <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>			

### Soil Compaction and Density Tests Report - Compaction Control



Client :	Shadforth						Report Number :	SR/PTP/10047 - 91/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD						Report Date :	20/03/2023
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks						Test Request :	-
Project Number :	PTP/10047						Page 3 of 4	
Location :	Greenbank							
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,							
Sample Number :	S/185905	S/185906	S/185907	S/185908	S/185909	S/185910		
Date Tested :	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023		
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	12:29	12:39	12:46	12:55	13:03	13:16		
Lot Number :	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18		
Location 1 :	E: 499080	E: 499067	E: 499050	E: 499035	E: 499019	E: 499003		
Location 2 :	N: 6932103	N: 6932103	N: 6932103	N: 692107	N: 6932112	N: 6932113		
Location 3 :	FL	FL	FL	0.3m BFL	0.3m BFL	FL		
Location 4 :	-	-	-	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	0%	0%	0%	0%	0%	0%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-	-	-	-	-		
Assigned MDR (Yes/No) :	No	No	No	No	No	No		
MDR Sample Number :	S/185905	S/185906	S/185907	S/185908	S/185909	S/185910		
MDR Test Date :	16/03/2023	16/03/2023	16/03/2023	16/03/2023	16/03/2023	16/03/2023		
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard		
Soil Description :	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown		
<i>MDR Test Results</i>								
PCWD (t/m <sup>3</sup> ) :	2.09	2.14	2.09	2.09	2.12	2.10		
Moisture Variation :	2.0%	1.5%	2.0%	1.5%	0.0%	1.5%		
ADJ PCWD (t/m <sup>3</sup> ) :	-	-	-	-	-	-		
ADJ Moisture Variation :	-	-	-	-	-	-		
<i>Moisture Test Results :</i>								
Field Moisture Content :	9.0%	10.0%	9.0%	13.0%	11.5%	12.5%		
Moisture Specification :	-	-	-	-	-	-		
Variation from OMC :	2.0% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC	0.0% Dry of OMC	1.5% Dry of OMC		
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-		
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A		
<i>Density Test Results</i>								
Field Wet Density (t/m <sup>3</sup> ) :	2.12	2.12	2.11	2.11	2.11	2.13		
Density Specification :	95%	95%	95%	95%	95%	95%		
Wet Density Ratio :	101.5%	99.0%	100.5%	101.0%	99.5%	101.5%		
-								
-								
Soil Particle Density (APD) t/m <sup>3</sup> :								
Soil Particle Density (APD) Date :								
Remarks :								
 <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>				

### Soil Compaction and Density Tests Report - Compaction Control



Client :	Shadforth		Report Number :	SR/PTP/10047 - 91/1		
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD		Report Date :	20/03/2023		
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks		Test Request :	-		
Project Number :	PTP/10047		Page 4 of 4			
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/185911	S/185912				
Date Tested :	9/03/2023	9/03/2023				
Material Source :	Onsite	Onsite				
For use as :	General Fill	General Fill				
Test / Layer Depths :	150 / 175	150 / 175				
Sampling Method :	AS1289.1.2.1 - c16.4b	AS1289.1.2.1 - c16.4b				
Time :	13:29	13:39				
Lot Number :	Lot 19	Lot 20				
Location 1 :	E: 499055	E: 499072				
Location 2 :	N: 6931991	N: 6931973				
Location 3 :	0.3m BFL	FL				
Location 4 :	-	-				
Test Fraction (mm) :	< 19mm	< 19mm				
Oversize Wet :	14%	13%				
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.31	2.29				
Assigned MDR (Yes/No) :	No	No				
MDR Sample Number :	S/185911	S/185912				
MDR Test Date :	16/03/2023	16/03/2023				
Compaction Type :	Standard	Standard				
Soil Description :	Sandy CLAY - Brown	Sandy CLAY - Brown				
<b>MDR Test Results</b>						
PCWD (t/m <sup>3</sup> ) :	2.13	2.07				
Moisture Variation :	0.0%	0.0%				
ADJ PCWD (t/m <sup>3</sup> ) :	2.16	2.10				
ADJ Moisture Variation :	-	0.0%				
<b>Moisture Test Results :</b>						
Field Moisture Content :	11.5%	10.5%				
Moisture Specification :	-	-				
Variation from OMC :	<b>At OMC</b>	<b>0.0% Dry of OMC</b>				
Relative Moisture Ratio (Q250) :	-	-				
Moisture Ratio :	N/A	N/A				
<b>Density Test Results</b>						
Field Wet Density (t/m <sup>3</sup> ) :	2.11	2.11				
Density Specification :	95%	95%				
Wet Density Ratio :	<b>98.0%</b>	<b>100.0%</b>				
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b> Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast  Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208			<b>APPROVED SIGNATORY</b>    Nick Dobson - Signatory			





**Soil Compaction and Density Tests Report - Compaction Control**

Client :	Shadforth				Report Number :	SR/PTP/10047 - 92/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	20/03/2023
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/186129	S/186130	S/186131	S/186132		
Date Tested :	10/03/2023	10/03/2023	10/03/2023	10/03/2023		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	General Fill	General Fill	General Fill	General Fill		
Test / Layer Depths :	150 / 175	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	AS1289.1.2.1 - cl6.4b		
Time :	10:00	10:30	11:00	23:30		
Lot Number :	-	-	-	-		
Location 1 :	Basin Fill	Basin Fill	Basin Fill	Basin Fill		
Location 2 :	E: 499451	E: 499441	E: 499433	E: 49928		
Location 3 :	N: 6931978	N: 6931984	N: 6931994	N: 6932003		
Location 4 :	RL: 46.68	RL: 46.9	RL: 47.27	RL: 47.6		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	10%	15%	8%	11%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.33	2.15	2.35	2.25		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/186129	S/186130	S/186131	S/186132		
MDR Test Date :	17/03/2023	15/03/2023	15/03/2023	15/03/2023		
Compaction Type :	Standard	Standard	Standard	Standard		
Soil Description :	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown		
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.26	2.27	2.31	2.26		
Moisture Variation :	0.0%	2.0%	1.0%	2.0%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.26	2.25	2.31	2.26		
ADJ Moisture Variation :	0.0%	2.0%	1.0%	2.0%		
<i>Moisture Test Results :</i>						
Field Moisture Content :	10.5%	7.0%	9.5%	8.5%		
Moisture Specification :	-	-	-	-		
Variation from OMC :	<b>0.0% Wet of OMC</b>	<b>2.0% Dry of OMC</b>	<b>1.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>		
Relative Moisture Ratio (Q250) :	-	-	-	-		
Moisture Ratio :	N/A	N/A	N/A	N/A		
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.29	2.28	2.28	2.29		
Density Specification :	95%	95%	95%	95%		
Wet Density Ratio :	<b>101.5%</b>	<b>101.5%</b>	<b>98.5%</b>	<b>101.0%</b>		
Soil Particle Density (APD) t/m <sup>3</sup> :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>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><b>APPROVED SIGNATORY</b></p>  <p>Nick Dobson - Signatory</p>		



## Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth 99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Number :	SR/PTP/10047 - 94/1
Client Address :	Everleigh Estate - Precinct 9.4 Earthworks				Report Date :	22/03/2023
Project Name :	PTP/10047				Test Request :	-
Project Number :	Greenbank				Page 1 of 1	
Location :						
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/186429	S/186430	S/186431	S/186432		
Date Tested :	14/03/2023	14/03/2023	14/03/2023	14/03/2023		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	General Fill	General Fill	General Fill	General Fill		
Test / Layer Depths :	150 / 175	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	AS1289.1.2.1 - cl6.4b		
Time :	10:30	10:45	11:00	11:15		
Lot Number :	Basin	Basin	Basin	Basin		
Location 1 :	E: 499463	E: 499438	E: 499402	E: 499420		
Location 2 :	N: 6931993	N: 6931979	N: 6931994	N: 6931987		
Location 3 :	RL: 47.7	RL: 47.3	RL: 47.0	RL: 48.1		
Location 4 :	-	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	4%	0%	0%	6%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.06	-	-	2.19		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/186429	S/186430	S/186431	S/186432		
MDR Test Date :	21/03/2023	21/03/2023	20/03/2023	20/03/2023		
Compaction Type :	Standard	Standard	Standard	Standard		
Soil Description :	Gravelly Clayey SAND Brown	Gravelly Clayey SAND Brown	Gravelly Clayey SAND Brown	Gravelly Clayey SAND Brown		
<b>MDR Test Results</b>						
PCWD (t/m <sup>3</sup> ) :	2.21	2.20	2.20	2.20		
Moisture Variation :	4.0%	4.0%	4.0%	4.0%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.20	-	-	2.20		
ADJ Moisture Variation :	4.0%	-	-	3.5%		
<b>Moisture Test Results</b>						
Field Moisture Content :	5.0%	6.0%	6.5%	5.5%		
Moisture Specification :	-	-	-	-		
Variation from OMC :	<b>4.0% Dry of OMC</b>	<b>4.0% Dry of OMC</b>	<b>4.0% Dry of OMC</b>	<b>3.5% Dry of OMC</b>		
Relative Moisture Ratio (Q250) :	-	-	-	-		
Moisture Ratio :	N/A	N/A	N/A	N/A		
<b>Density Test Results</b>						
Field Wet Density (t/m <sup>3</sup> ) :	2.23	2.23	2.21	2.23		
Density Specification :	95%	95%	95%	95%		
Wet Density Ratio :	<b>101.5%</b>	<b>101.0%</b>	<b>100.5%</b>	<b>101.5%</b>		
Remarks :						
 <p>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>  <p>Ben Pittard - Signatory</p>		



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth		Report Number :	SR/PTP/10047 - 97/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD		Report Date :	6/04/2023	
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/187275	S/187276			
Date Tested :	20/03/2023	20/03/2023			
Material Source :	Onsite	Onsite			
For use as :	General Fill	General Fill			
Test / Layer Depths :	150 / 175	150 / 175			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	11:00	11:30			
Lot Number :	-	-			
Location 1 :	E 499388	E 499427			
Location 2 :	N 6932100	N 6932077			
Location 3 :	0.3m Below Finish Level	0.3m Below Finish Level			
Location 4 :	-	-			
Test Fraction (mm) :	< 19mm	< 19mm			
Oversize Wet :	6%	7%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.36	2.31			
Assigned MDR (Yes/No) :	No	No			
MDR Sample Number :	S/187275	S/187276			
MDR Test Date :	3/04/2023	3/04/2023			
Compaction Type :	Standard	Standard			
Soil Description :	Clayey SAND - Brown	Clayey SAND - Brown			
<i>MDR Test Results</i>					
PCWD (t/m <sup>3</sup> ) :	2.13	2.11			
Moisture Variation :	2.0%	2.0%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.14	2.13			
ADJ Moisture Variation :	2.0%	2.0%			
<i>Moisture Test Results :</i>					
Field Moisture Content :	8.0%	8.0%			
Moisture Specification :	-	-			
Variation from OMC :	2.0% Dry of OMC	2.0% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-			
Moisture Ratio :	N/A	N/A			
<i>Density Test Results</i>					
Field Wet Density (t/m <sup>3</sup> ) :	2.16	2.15			
Density Specification :	95%	95%			
Wet Density Ratio :	100.5%	101.0%			
Remarks :					
 <p>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>  <p>Ben Pittard - Signatory</p>		


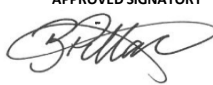
### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth				Report Number :	SR/PTP/10047 - 99/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	6/04/2023	
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/187666	S/187667	S/187668	S/187669			
Date Tested :	23/03/2023	23/03/2023	23/03/2023	23/03/2023			
Material Source :	Onsite	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill	General Fill			
Test / Layer Depths :	175 / 150	175 / 150	175 / 150	175 / 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			
Time :	10:59	11:15	11:30	11:45			
Lot Number :	-	-	-	-			
Location 1 :	E 499481	E 499482	E 499432	E 499418			
Location 2 :	N 6932007	N 6932018	N 6932028	N 6932040			
Location 3 :	RL 41.90	RL 41.50	RL 41.10	RL 40.8			
Location 4 :	-	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm			
Oversize Wet :	20%	10%	8%	18%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.53	2.31	2.39	2.21			
Assigned MDR (Yes/No) :	No	No	No	No			
MDR Sample Number :	S/187666	S/187667	S/187668	S/187669			
MDR Test Date :	4/04/2023	4/04/2023	4/04/2023	4/04/2023			
Compaction Type :	Standard	Standard	Standard	Standard			
Soil Description :	Gravelly Sand CLAY - Brown	Gravelly Sand CLAY - Brown	Gravelly Sand CLAY - Brown	Gravelly Sand CLAY - Brown			
<i>MDR Test Results</i>							
PCWD (t/m <sup>3</sup> ) :	2.09	2.17	2.21	2.14			
Moisture Variation :	2.0%	2.0%	2.0%	2.0%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.17	2.18	2.22	2.15			
ADJ Moisture Variation :	1.5%	1.5%	1.5%	1.5%			
<i>Moisture Test Results :</i>							
Field Moisture Content :	7.0%	8.0%	8.5%	6.0%			
Moisture Specification :	-	-	-	-			
Variation from OMC :	1.5% Dry of OMC	1.5% Dry of OMC	1.5% Dry of OMC	1.5% 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 <sup>3</sup> ) :	2.23	2.22	2.28	2.16			
Density Specification :	95%	95%	95%	95%			
Wet Density Ratio :	102.5%	101.5%	102.5%	100.0%			
Soil Particle Density (APD) t/m <sup>3</sup> :							
Soil Particle Density (APD) Date :							
Remarks :							
 <b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b> Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast  Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208				<b>APPROVED SIGNATORY</b>  Ben Pittard - Signatory			


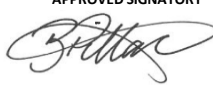
## Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 105/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	18/04/2023	
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/189399	S/189400	S/189401			
Date Tested :	3/04/2023	3/04/2023	3/04/2023			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Allotment Fill	Allotment Fill	Allotment Fill			
Test / Layer Depths :	175 / 150	175 / 150	175 / 150			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	10:45	11:00	11:15			
Lot Number :	-	-	-			
Location 1 :	Lots 3392 - 3388	Lots 3392 - 3388	Lots 3392 - 3388			
Location 2 :	E 499452	E 499470	E 499420			
Location 3 :	N 6932085	N 6932060	N 6932103			
Location 4 :	0.3m Below Finish Level	0.3m Below Finish Level	0.3m Below Finish Level			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	17%	18%	13%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.24	2.28	2.30			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/189399	S/189400	S/189401			
MDR Test Date :	13/04/2023	13/04/2023	13/04/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Gravelly SAND - Brown	Gravelly SAND - Brown	Gravelly SAND - Brown			
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.26	2.25	2.24			
Moisture Variation :	0.5%	0.5%	0.5%			
ADJ PCWD (t/m <sup>3</sup> ) :	2.26	2.26	2.25			
ADJ Moisture Variation :	0.5%	0.5%	0.5%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	7.5%	8.5%	9.5%			
Moisture Specification :	-	-	-			
Variation from OMC :	<b>0.5% Dry of OMC</b>	<b>0.5% Dry of OMC</b>	<b>0.5% Dry of OMC</b>			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.30	2.31	2.29			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	<b>102.0%</b>	<b>102.0%</b>	<b>102.0%</b>			
Remarks :						
 <p>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>	<b>APPROVED SIGNATORY</b>  Ben Pittard - Signatory					



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth 99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Number :	SR/PTP/10047 - 114/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	28/04/2023	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 3		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/192461	S/192462	S/192463	S/192464	S/192465	S/192466
Date Tested :	19/04/2023	19/04/2023	19/04/2023	19/04/2023	19/04/2023	19/04/2023
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	09:00	09:15	09:30	09:45	10:00	10:15
Lot Number :	-	-	-	-	-	-
Location 1 :	E 499079.6	E 499037.1	E 499051.6	E 499100.3	E 499118.4	E 499165
Location 2 :	N 6932045	N 6932046.8	N 6932043.2	N 6932094.1	N 6932078.9	N 6932082.1
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	17%	12%	12%	15%	15%	13%
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.24	2.25	2.27	2.36	2.02	2.35
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/192461	S/192462	S/192463	S/192464	S/192465	S/192466
MDR Test Date :	24/04/2023	24/04/2023	24/04/2023	24/04/2023	24/04/2023	24/04/2023
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown
<b>MDR Test Results</b>						
PCWD (t/m <sup>3</sup> ) :	2.06	2.06	2.07	2.07	2.08	2.10
Moisture Variation :	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
ADJ PCWD (t/m <sup>3</sup> ) :	2.09	2.08	2.10	2.11	2.07	2.13
ADJ Moisture Variation :	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
<b>Moisture Test Results :</b>						
Field Moisture Content :	5.0%	6.5%	5.5%	6.0%	5.5%	6.0%
Moisture Specification :	±2% of OMC	±2% of OMC	±2% of OMC	±2% of OMC	±2% of OMC	±2% of OMC
Variation from OMC :	2.0% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC	2.0% 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
<b>Density Test Results</b>						
Field Wet Density (t/m <sup>3</sup> ) :	2.14	2.13	2.15	2.15	2.13	2.13
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	102.0%	102.0%	102.5%	102.0%	103.0%	100.0%
Remarks :						
 <p><b>Accredited for Compliance with ISO / IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Ben Pittard - Signatory		

### Soil Compaction and Density Tests Report - Compaction Control



Client :	Shadforth			Report Number :	SR/PTP/10047 - 114/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	28/04/2023	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 2 of 3		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/192467	S/192468	S/192469	S/192470	S/192471	S/192472
Date Tested :	19/04/2023	19/04/2023	19/04/2023	19/04/2023	19/04/2023	19/04/2023
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	10:30	10:45	11:00	11:15	11:30	11:45
Lot Number :	-	-	-	-	-	-
Location 1 :	E 499218.7	E 499185.2	E 499017	E 499180.5	E 499237.1	E 499222.6
Location 2 :	N 6931954.5	N 6931975.2	N 6932033.1	N 6932084.9	N 6932054.6	N 6932059.6
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	15%	19%	8%	15%	19%	15%
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.35	2.25	2.31	2.34	2.32	2.16
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/192467	S/192468	S/192469	S/192470	S/192471	S/192472
MDR Test Date :	24/04/2023	24/04/2023	24/04/2023	24/04/2023	24/04/2023	24/04/2023
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown	Gravelly Sandy CLAY - Brown
<b>MDR Test Results</b>						
PCWD (t/m <sup>3</sup> ) :	2.10	2.07	2.06	2.14	2.07	2.10
Moisture Variation :	1.5%	2.0%	2.0%	1.5%	1.5%	2.0%
ADJ PCWD (t/m <sup>3</sup> ) :	2.13	2.10	2.08	2.17	2.12	2.11
ADJ Moisture Variation :	1.5%	1.5%	2.0%	1.5%	1.0%	1.5%
<b>Moisture Test Results :</b>						
Field Moisture Content :	5.0%	5.0%	5.5%	5.5%	5.0%	6.5%
Moisture Specification :	±2% of OMC	±2% of OMC	±2% of OMC	±2% of OMC	±2% of OMC	±2% of OMC
Variation from OMC :	1.5% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC	1.0% Dry of OMC	1.5% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
<b>Density Test Results</b>						
Field Wet Density (t/m <sup>3</sup> ) :	2.14	2.13	2.14	2.13	2.14	2.12
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	100.5%	101.5%	103.0%	98.0%	101.0%	100.5%
Remarks :						
 <p>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>  <p>Ben Pittard - Signatory</p>		

## Soil Compaction and Density Tests Report - Compaction Control



Client :	Shadforth 99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Number :	SR/PTP/10047 - 114/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	28/04/2023
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks				Test Request :	-
Project Number :	PTP/10047				Page 3 of 3	
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/192473	S/192474	S/192475	S/192476		
Date Tested :	19/04/2023	19/04/2023	19/04/2023	19/04/2023		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	General Fill	General Fill	General Fill	General Fill		
Test / Layer Depths :	175 / 150	175 / 150	175 / 150	175 / 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		
Time :	12:00	12:15	12:30	12:45		
Lot Number :	-	-	-	-		
Location 1 :	General Fill Area 9.7	General Fill Area 9.7	General Fill Area 9.7	General Fill Area 9.7		
Location 2 :	E 499317	E 499310	E 499250	E 499269		
Location 3 :	N 6932130	N 6932184	N 6932172	N 6932174		
Location 4 :	0.9m Below Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	10%	20%	17%	20%		
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.21	2.23	2.20	2.15		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/192473	S/192474	S/192475	S/192476		
MDR Test Date :	26/04/2023	21/04/2023	21/04/2023	21/04/2023		
Compaction Type :	Standard	Standard	Standard	Standard		
Soil Description :	Clayey SAND- Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown		
<b>MDR Test Results</b>						
PCWD (t/m <sup>3</sup> ) :	2.21	2.21	2.22	2.21		
Moisture Variation :	2.5%	3.0%	2.5%	3.0%		
ADJ PCWD (t/m <sup>3</sup> ) :	2.21	2.22	2.22	2.20		
ADJ Moisture Variation :	2.5%	2.5%	2.5%	2.5%		
<b>Moisture Test Results :</b>						
Field Moisture Content :	8.5%	7.0%	7.5%	7.0%		
Moisture Specification :	-	-	-	-		
Variation from OMC :	2.5% Dry of 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	N/A		
<b>Density Test Results</b>						
Field Wet Density (t/m <sup>3</sup> ) :	2.21	2.21	2.21	2.21		
Density Specification :	95%	95%	95%	95%		
Wet Density Ratio :	100.0%	100.0%	99.5%	100.5%		
Remarks :						
 <p>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>  <p>Ben Pittard - Signatory</p>		





### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth		Report Number :	SR/PTP/10047 - 117/1		
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD		Report Date :	15/05/2023		
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/189623	S/189624				
Date Tested :	4/04/2023	4/04/2023				
Material Source :	Onsite	Onsite				
For use as :	General Fill	General Fill				
Test / Layer Depths :	150 / 175	150 / 175				
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b				
Time :	10:00	10:15				
Lot Number :	-	-				
Location 1 :	E 499421	E 499381				
Location 2 :	N 6932107	N 6932113				
Location 3 :	0.6m Below Finish Level	0.6m Below Finish Level				
Location 4 :	-	-				
Test Fraction (mm) :	< 37.5mm	< 37.5mm				
Oversize Wet :	24%	21%				
Oversize Density - Dry (t/m <sup>3</sup> ) :	1.88	2.31				
Assigned MDR (Yes/No) :	No	No				
MDR Sample Number :	S/189623	S/189624				
MDR Test Date :	27/04/2023	13/04/2023				
Compaction Type :	Standard	Standard				
Soil Description :	Clayey GRAVEL - Brown	Clayey GRAVEL - Brown				
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	Not Testable using this Method	Not Testable using this Method				
Moisture Variation :	-	-				
ADJ PCWD (t/m <sup>3</sup> ) :	-	-				
ADJ Moisture Variation :	-	-				
<i>Moisture Test Results :</i>						
Field Moisture Content :	3.5%	7.5%				
Moisture Specification :	-	-				
Variation from OMC :	-	-				
Relative Moisture Ratio (Q250) :	-	-				
Moisture Ratio :	-	-				
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.24	2.23				
Density Specification :	95%	95%				
Wet Density Ratio :	-	-				
Remarks :						
 <p><b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory			



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth 99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Number :	SR/PTP/10047 - 122/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	24/05/2023	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 4		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/193520	S/193521	S/193522	S/193523	S/193524	S/193525
Date Tested :	27/04/2023	27/04/2023	27/04/2023	27/04/2023	27/04/2023	27/04/2023
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	11:00	11:10	11:20	11:30	11:40	11:50
Lot Number :	-	-	-	-	-	-
Location 1 :	E 499358	E 499347	E 499354	E 499371	E 499387	E 499332
Location 2 :	N 6932004	N 6931978	N 6932038	N 6932037	N 6932037	N 6931895
Location 3 :	1m Below Finish Level	0.6m Below Finish Level	1.5m Below Finish Level	0.3m Below Finish Level	0.5m Below Finish Level	1m Below Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	11%	11%	10%	12%	11%	10%
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.41	2.36	2.20	2.37	2.15	2.26
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/193520	S/193521	S/193522	S/193523	S/193524	S/193525
MDR Test Date :	2/05/2023	2/05/2023	2/05/2023	2/05/2023	2/05/2023	2/05/2023
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly Clayey SAND Light Brown	Gravelly Clayey SAND Light Brown	Gravelly Clayey SAND Light Brown	Gravelly Clayey SAND Light Brown	Gravelly Clayey SAND Light Brown	Gravelly Clayey SAND Light Brown
<b>MDR Test Results</b>						
PCWD (t/m <sup>3</sup> ) :	2.18	2.17	2.17	2.15	2.19	2.14
Moisture Variation :	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
ADJ PCWD (t/m <sup>3</sup> ) :	2.21	2.19	2.17	2.18	2.19	2.15
ADJ Moisture Variation :	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
<b>Moisture Test Results</b>						
Field Moisture Content :	6.5%	7.0%	8.0%	7.0%	7.5%	6.5%
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 :	<b>0.5% Dry of OMC</b>	<b>0.5% Dry of OMC</b>	<b>0.5% Dry of OMC</b>	<b>0.5% Dry of OMC</b>	<b>0.5% Dry of OMC</b>	<b>0.5% Dry of OMC</b>
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
<b>Density Test Results</b>						
Field Wet Density (t/m <sup>3</sup> ) :	2.17	2.16	2.18	2.18	2.17	2.17
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	<b>98.5%</b>	<b>99.0%</b>	<b>100.5%</b>	<b>100.0%</b>	<b>99.0%</b>	<b>101.0%</b>
Remarks :						
 <p>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>  <p>Nick Dobson - Signatory</p>		



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 122/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	24/05/2023	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 2 of 4		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/193526	S/193527	S/193528	S/193529	S/193530	S/193531
Date Tested :	27/04/2023	27/04/2023	27/04/2023	27/04/2023	27/04/2023	27/04/2023
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	12:00	12:10	12:20	12:30	12:40	12:50
Lot Number :	-	-	-	-	-	-
Location 1 :	E 499337	E 499346	E 499381	E 499435	E 499334	E 499055
Location 2 :	N 6931998	N 6931898	N 6932003	N 6931956	N 6931886	N 6932187
Location 3 :	Finish level	0.9m Below Finish Level	0.5m Below Finish Level	1.5m Below Finish Level	1.2m Below Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	13%	18%	12%	0%	0%
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	2.28	2.19	2.26	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/193526	S/193527	S/193528	S/193529	S/193530	S/193531
MDR Test Date :	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.12	2.15	2.13	2.15	2.13	2.13
Moisture Variation :	2.0%	2.5%	2.5%	2.0%	2.0%	2.0%
ADJ PCWD (t/m <sup>3</sup> ) :	-	2.17	2.14	2.16	-	-
ADJ Moisture Variation :	-	2.0%	2.0%	2.0%	-	-
<i>Moisture Test Results :</i>						
Field Moisture Content :	6.5%	8.0%	7.0%	7.5%	8.5%	8.0%
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 :	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>	<b>2.0% Dry of OMC</b>
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.16	2.19	2.18	2.17	2.16	2.17
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	<b>102.0%</b>	<b>101.0%</b>	<b>102.0%</b>	<b>100.0%</b>	<b>101.5%</b>	<b>102.0%</b>
Remarks :						
 <p><b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b> 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>	<b>APPROVED SIGNATORY</b>    Nick Dobson - Signatory					
	Document Number : RF1 <span style="float: right;">Date : 11/04/2023</span>					



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 122/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	24/05/2023	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 3 of 4		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/193532	S/193533	S/193534	S/193535	S/193536	S/193537
Date Tested :	27/04/2023	27/04/2023	27/04/2023	27/04/2023	27/04/2023	27/04/2023
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	13:00	13:10	13:20	13:30	13:40	13:50
Lot Number :	-	-	-	-	-	-
Location 1 :	E 499126	E 499075	E 499170	E 499202	E 499203	E 499232
Location 2 :	N 6932205	N 6932178	N 6932160	N 6932184	N 6932158	N 6932152
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/193532	S/193533	S/193534	S/193535	S/193536	S/193537
MDR Test Date :	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly SAND - Brown	Gravelly SAND - Brown	Gravelly SAND - Brown	Gravelly SAND - Brown	Gravelly SAND - Brown	Gravelly SAND - Brown
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.15	2.13	2.16	2.16	2.15	2.16
Moisture Variation :	2.0%	1.5%	1.5%	2.0%	1.5%	1.5%
ADJ PCWD (t/m <sup>3</sup> ) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
<i>Moisture Test Results :</i>						
Field Moisture Content :	8.5%	8.5%	7.5%	8.5%	9.5%	9.0%
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	1.5% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC	1.5% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.17	2.15	2.18	2.17	2.18	2.16
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	101.0%	101.0%	101.0%	100.0%	101.5%	100.0%
Remarks :						
 <p><b>Accredited for Compliance with ISO / IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth		Report Number :	SR/PTP/10047 - 122/1		
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD		Report Date :	24/05/2023		
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks		Test Request :	-		
Project Number :	PTP/10047		Page 4 of 4			
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/193538	S/193539				
Date Tested :	27/04/2023	27/04/2023				
Material Source :	Onsite	Onsite				
For use as :	General Fill	General Fill				
Test / Layer Depths :	150 / 175	150 / 175				
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b				
Time :	14:00	14:10				
Lot Number :	-	-				
Location 1 :	E 499267	E 499320				
Location 2 :	N 6932150	N 6932084				
Location 3 :	Finish Level	Finish Level				
Location 4 :	-	-				
Test Fraction (mm) :	< 19mm	< 19mm				
Oversize Wet :	0%	0%				
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-				
Assigned MDR (Yes/No) :	No	No				
MDR Sample Number :	S/193538	S/193539				
MDR Test Date :	4/05/2023	4/05/2023				
Compaction Type :	Standard	Standard				
Soil Description :	Gravelly Clayey SAND Dark Brown	Gravelly Clayey SAND Dark Brown				
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.17	2.16				
Moisture Variation :	1.5%	1.5%				
ADJ PCWD (t/m <sup>3</sup> ) :	-	-				
ADJ Moisture Variation :	-	-				
<i>Moisture Test Results :</i>						
Field Moisture Content :	6.0%	9.0%				
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC				
Variation from OMC :	1.5% Dry of OMC	1.5% Dry of OMC				
Relative Moisture Ratio (Q250) :	-	-				
Moisture Ratio :	N/A	N/A				
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.15	2.18				
Density Specification :	95%	95%				
Wet Density Ratio :	99.0%	100.5%				
Remarks :						
 <p>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>  <p>Nick Dobson - Signatory</p>			



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10047 - 135/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	12/06/2023	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks			Test Request :	-	
Project Number :	PTP/10047			Page 1 of 2		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/199801	S/199802	S/199803	S/199804	S/199805	S/199806
Date Tested :	6/06/2023	6/06/2023	6/06/2023	6/06/2023	6/06/2023	6/06/2023
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 / 175	150 / 175	150 / 175	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	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	08:00	08:10	08:20	08:30	08:40	08:50
Lot Number :	-	-	-	-	-	-
Location 1 :	E 499290	E 499296	E 499450	E 499468	E 499505	E 499445
Location 2 :	N 6932171	N 6932142	N 6932127	N 6932112	N 6932064	N 6932013
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/199801	S/199802	S/199803	S/199804	S/199805	S/199806
MDR Test Date :	9/06/2023	9/06/2023	9/06/2023	9/06/2023	9/06/2023	9/06/2023
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.16	2.16	2.15	2.16	2.16	2.17
Moisture Variation :	0.5%	0.5%	1.5%	0.0%	1.5%	0.0%
ADJ PCWD (t/m <sup>3</sup> ) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
<i>Moisture Test Results :</i>						
Field Moisture Content :	12.0%	11.5%	10.5%	12.0%	10.0%	13.0%
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 :	0.5% Dry of OMC	0.5% Dry of OMC	1.5% Dry of OMC	0.0% Dry of OMC	1.5% Dry of OMC	At OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.13	2.15	2.13	2.16	2.14	2.13
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	98.5%	99.5%	99.5%	99.5%	99.0%	98.0%
Remarks :						
 <p><b>Accredited for Compliance with ISO / IEC 17025 - Testing</b>          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><b>APPROVED SIGNATORY</b></p>  Nick Dobson - Signatory		

### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth				Report Number :	SR/PTP/10047 - 135/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	12/06/2023	
Project Name :	Everleigh Estate - Precinct 9.4 Earthworks				Test Request :	-	
Project Number :	PTP/10047				Page 2 of 2		
Location :	Greenbank						
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,						
Sample Number :	S/199807	S/199808	S/199809	S/199810			
Date Tested :	6/06/2023	6/06/2023	6/06/2023	6/06/2023			
Material Source :	Onsite	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / 175	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	AS1289.1.2.1 - cl6.4b			
Time :	09:00	09:10	09:20	09:30			
Lot Number :	-	-	-	-			
Location 1 :	E 499399	E 499494	E 499484	E 499511			
Location 2 :	N 6932062	N 6932047	N 6931974	N 6932007			
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level			
Location 4 :	-	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm			
Oversize Wet :	0%	0%	0%	0%			
Oversize Density - Dry (t/m <sup>3</sup> ) :	-	-	-	-			
Assigned MDR (Yes/No) :	No	No	No	No			
MDR Sample Number :	S/199807	S/199808	S/199809	S/199810			
MDR Test Date :	8/06/2023	8/06/2023	8/06/2023	8/06/2023			
Compaction Type :	Standard	Standard	Standard	Standard			
Soil Description :	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown			
<i>MDR Test Results</i>							
PCWD (t/m <sup>3</sup> ) :	2.19	2.19	2.17	2.18			
Moisture Variation :	0.0%	2.0%	2.0%	1.0%			
ADJ PCWD (t/m <sup>3</sup> ) :	-	-	-	-			
ADJ Moisture Variation :	-	-	-	-			
<i>Moisture Test Results :</i>							
Field Moisture Content :	10.5%	12.5%	8.0%	8.5%			
Moisture Specification :	+/-2.0% of OMC	+/-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	2.0% Dry of OMC	1.0% 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 <sup>3</sup> ) :	2.14	2.15	2.14	2.13			
Density Specification :	95%	95%	95%	95%			
Wet Density Ratio :	97.5%	98.0%	98.5%	98.0%			
Remarks :							
 <p><b>Accredited for Compliance with ISO / IEC 17025 - Testing</b> 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><b>APPROVED SIGNATORY</b></p>  <p>Nick Dobson - Signatory</p>			

### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth				Report Number :	SR/PTP/10047 - 139/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	15/08/2023
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/209283	S/209284	S/209285	S/209286	S/209287	
Date Tested :	27/07/2023	27/07/2023	27/07/2023	27/07/2023	27/07/2023	
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	
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 :	10:10	10:20	10:30	10:40	10:50	
Lot Number :	-	-	-	-	-	
Location 1 :	E 499460	E 499527	E 499400	E 499354	E 499333	
Location 2 :	N 6932077	N 6931991	N 6932115	N 6932115	N 6932134	
Location 3 :	Finish Level	0.3m Below Finish Level	0.3m Below Finish Level	Finish Level	Finish Level	
Location 4 :	-	-	-	-	-	
Test Fraction (mm) :	< 37.5mm	< 37.5mm	< 37.5mm	< 37.5mm	< 37.5mm	
Oversize Wet :	7%	7%	18%	10%	20%	
Oversize Density - Dry (t/m <sup>3</sup> ) :	2.20	2.15	2.16	2.20	2.16	
Assigned MDR (Yes/No) :	No	No	No	No	No	
MDR Sample Number :	S/209283	S/209284	S/209285	S/209286	S/209287	
MDR Test Date :	8/08/2023	8/08/2023	8/08/2023	8/08/2023	8/08/2023	
Compaction Type :	Standard	Standard	Standard	Standard	Standard	
Soil Description :	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	Gravelly Clayey SAND - Brown	
<i>MDR Test Results</i>						
PCWD (t/m <sup>3</sup> ) :	2.23	2.24	2.24	2.22	2.23	
Moisture Variation :	1.5%	1.5%	1.5%	1.5%	1.5%	
ADJ PCWD (t/m <sup>3</sup> ) :	2.23	2.23	2.22	2.22	2.22	
ADJ Moisture Variation :	1.5%	1.5%	1.5%	1.0%	1.0%	
<i>Moisture Test Results :</i>						
Field Moisture Content :	6.5%	7.0%	6.0%	6.5%	5.5%	
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 :	<b>1.5% Dry of OMC</b>	<b>1.5% Dry of OMC</b>	<b>1.5% Dry of OMC</b>	<b>1.0% Dry of OMC</b>	<b>1.0% Dry of OMC</b>	
Relative Moisture Ratio (Q250) :	-	-	-	-	-	
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	
<i>Density Test Results</i>						
Field Wet Density (t/m <sup>3</sup> ) :	2.20	2.19	2.21	2.21	2.19	
Density Specification :	95%	95%	95%	95%	95%	
Wet Density Ratio :	<b>99.0%</b>	<b>98.5%</b>	<b>99.5%</b>	<b>99.5%</b>	<b>99.0%</b>	
Remarks :						
 <p><b>Accredited for Compliance with ISO/ IEC 17025 - Testing</b> 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><b>APPROVED SIGNATORY</b></p>  <p>Nick Dobson - Signatory</p>		





# Appendix C

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# Particle Size Distribution Report

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MORRISON GEOTECHNIC



**MORRISON**  
GEOTECHNIC

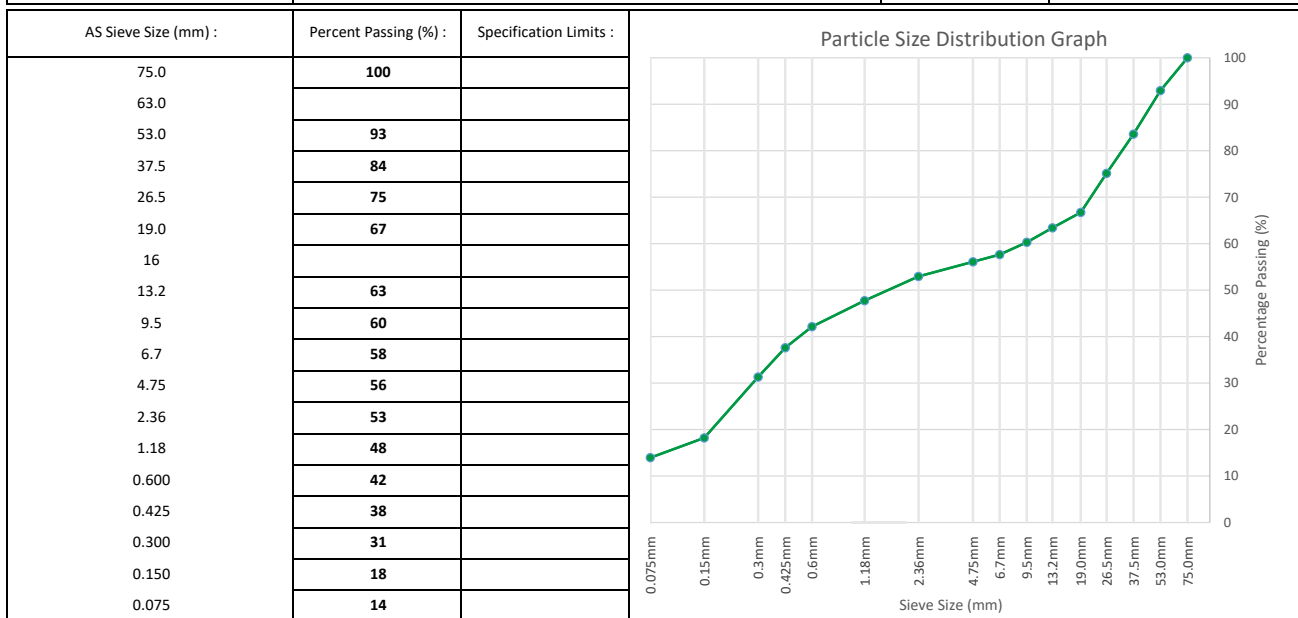
## Particle Size Distribution Report

Client :	Shadforths	Report Number :	SR/PTP/10047 - 137/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	16/06/2023
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	Sandy GRAVEL trace Clay - Brown
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Sample Number :	S/199768	Sampling Method :	AS1289.1.2.1 - cl6.4b
Date Tested :	12/06/2023	Time :	10:40
Material Source :	Onsite	Location 1 :	E 499031
For Use As :	General Fill	Location 2 :	N 6932211
Lot Number :	-	Location 3 :	Depth 0.00m - 0.60m
PSD Specification Number :	N/A	Location 4 :	-



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        Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	<p><b>APPROVED SIGNATORY</b></p>  <p>Joshua Andres - Signatory</p>
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