



LEVEL ONE EARTHWORKS REPORT

**Proposed Residential
Subdivision
Eden's Crossing Stage
30-35 BEW
Redbank Plains**

DECEMBER 18 2024

Shadforth Civil

Authored by: QUALTEST LABORATORY PTY LTD

REF: 7489



Qualtest Laboratory

Est. 1987

Ref: 7489
Job: 24-081
Author: R. Mitchell

18th December 2024

Shadforth Civil
99 Sandalwood Lane
Forest Glen Qld 4556

ATTENTION: MR STEPHEN ODDO
Email: Stephen.Oddo@shadcivil.com.au

Dear Sir,

RE: LEVEL ONE EARTHWORKS REPORT

**PROJECT: PROPOSED RESIDENTIAL SUBDIVISION
EDEN'S CROSSING STAGE 30 – 35 BEW
REDBANK PLAINS**

CLIENT: SHADFORTH CIVIL

CONSULTANT: KN GROUP

CONTRACTOR: SHADFORTHS

Revision	Date	Author	Reviewer	Description
0	18.12.2024	R. Mitchell	M. Morrison	For Review

GEOTECHNICAL AND LABORATORY SERVICES

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1.0 INTRODUCTION

1.1 General

This report presents results and documentation for the Level One Inspection and Testing of earthworks filling operations at the proposed Residential Subdivision the Eden's Crossing Stages 30 – 35 residential development at Redbank Plains (The Site).

Qualtest Laboratory Pty Ltd was commissioned by Shadforth Civil (The Client) to provide Level 1 Earthworks Inspection and Testing services as defined in Section 8 of AS3798.

Filling operations covered by this report were constructed between 27th February 2024 and 25th October 2024.

The purpose of Level 1 commission and this report is to provide an opinion that the earthworks operations carried out by the Client have been carried out in accordance with AS3798, relevant project specifications and Local Authority requirements as appropriate.

This report has been carried out in general accordance with the following: -

- AS3798-2007 - Guidelines on Earthwork for Commercial and Residential Development
- KN Group Consulting Engineers Notes and Drawings
- Ipswich City Council Requirements.

This report does not cover underground services, trench backfill, pavements, retaining walls, filling outside areas shown on Figure 2 or any other works after 25th October 2024.

1.2 The Development

The development comprises of the following: -

- Multistage Residential Development containing residential lots and associated infrastructure including roads and underground services.

Earthworks to be constructed at the site are presented on KN Group Consulting Engineers Drawings and is presented as Figure 1 below.

The actual extent of fill covered by this report is presented as a Heat Map as Figure 2 below.

Figure 1: Bulk Earthworks Plan – Eden's Crossing Stages 30 - 35
Extent of Fill – Pale Grey Shade

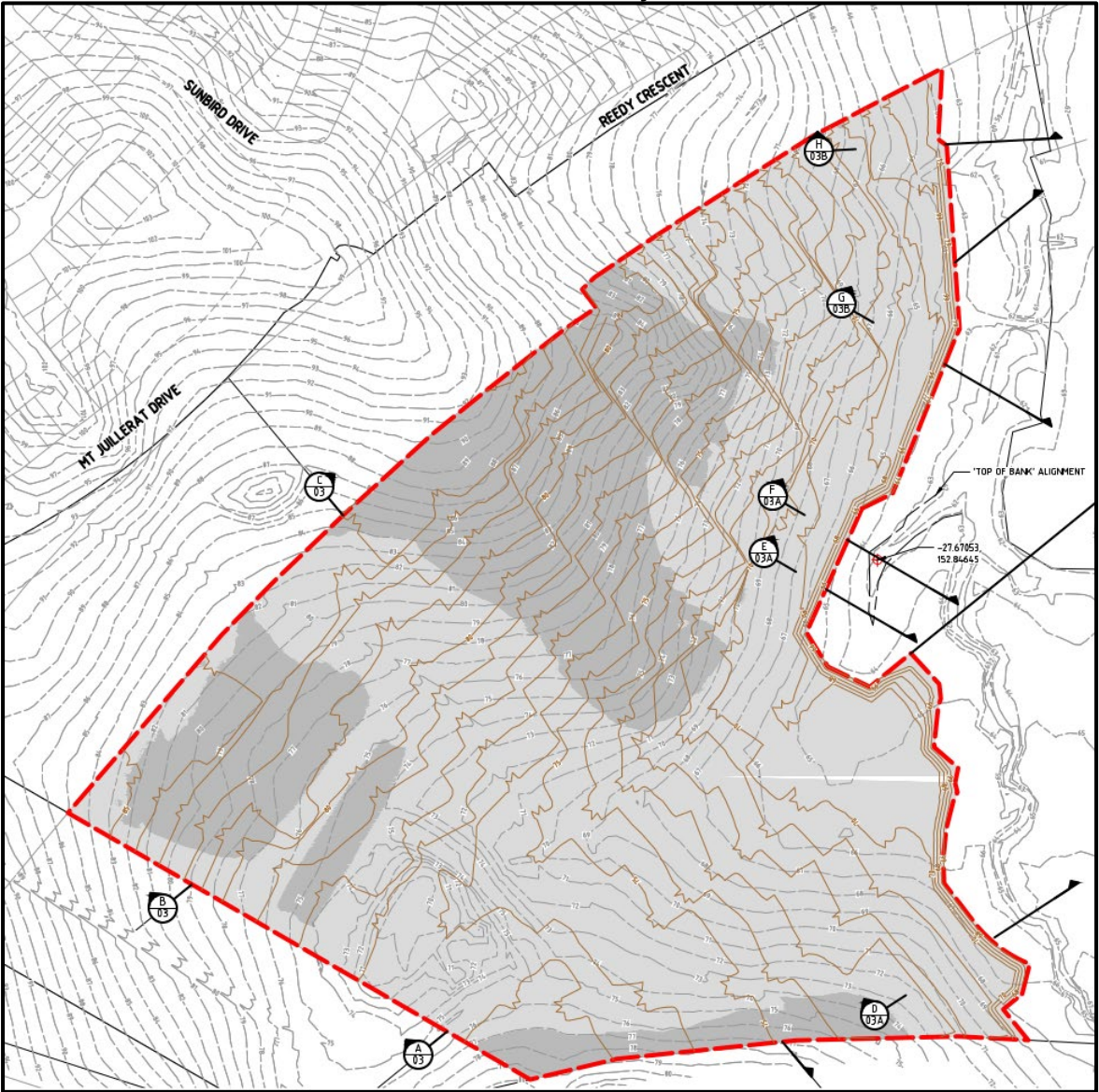
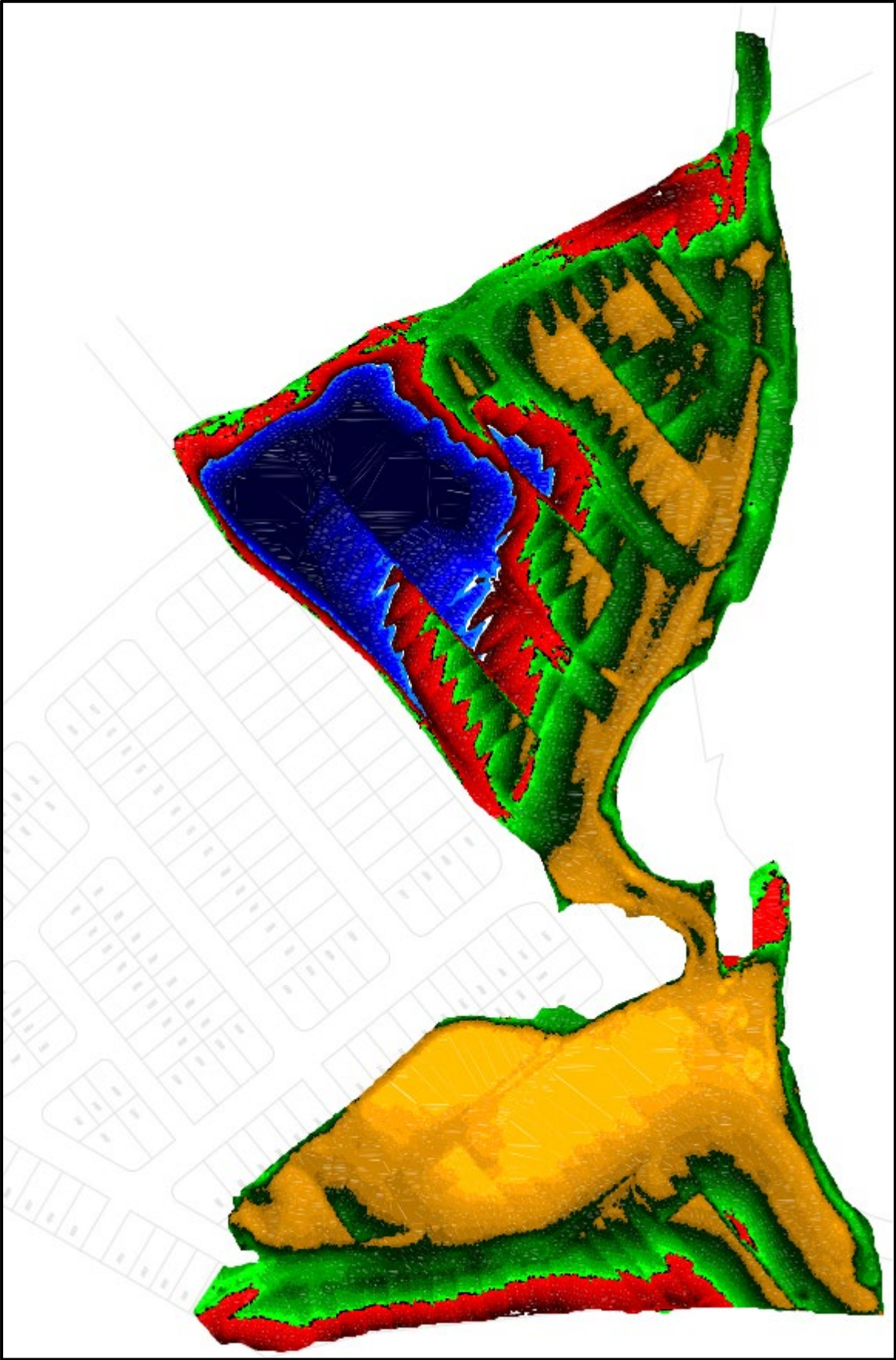


Figure 2: Shadforths Heatmap Showing Earthworks Extents - Green and Orange = Fill



2.0 WORKS AND SPECIFICATIONS

All filling operations at the Site are to be placed and compacted in accordance with the following: -

- Level One Inspection and Testing of the placement and compaction of fill materials in accordance with AS 3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”.
- Relative Density Control Testing in accordance with AS 1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS 3798 Table 8.1.
- Ipswich City Council Specifications.
- KN Group Consulting Engineers Drawings and Notes on Drawings.
- Density Ratio – 95% Standard

Low reactive fill materials has been used as capping over potentially reactive soils was to generally conform to the following criteria: -

- Shrink Swell Index (Iss) – 1.5% Max.
- Particle Size Distribution:
 - Max Particle Size – 75mm
 - % passing 19mm – 80% Min.
 - % passing 0.075mm – 10% Min.
- Plasticity:
 - Liquid Limit – 45% Max.
 - Plasticity Index - >7% <20%
- Permeability – 5×10^{-7} m/s Max.

3.0 FILL FOUNDATION

Areas to be filled at the site were observed to be stripped of vegetation, grass, redundant services, existing uncontrolled fill, water affected ground, topsoil and loose / weak materials to depths exposing competent natural ground.

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

- Adequate removal of topsoil, organics and existing fill to expose natural soils consisting of: -
 - Sandy Clay (CI), at least stiff, medium plastic fines, orange brown and moist.
 - Sandstone (XW), typically low strength, fine to coarse sands, grey brown.
- Compliant proof roll testing of the stripped surface using onsite earthworks plant.

A picture of the stripped natural surface observed prior to filling are presented below.

Picture 1: Stripped Natural Surface



4.0 FILLING OPERATIONS

Fill at the site was sourced from the following locations: -

- General Fill below 1.2m from Final Earthworks Levels
 - Onsite cuts.
- Low Reactive Capping Fill between the final earthworks level and 1.2m below.
 - Onsite Borrow sources consisting ripped sandstone

All fill materials were appropriately blended and moisture conditions prior to and during placement and compaction.

Materials used as fill can be broadly summarised as: -

- Lower Fill Materials – Below 1.2m from the finished earthworks levels
 - Sandy Clay (CI) medium plasticity, fine to medium sands, orange brown and moist.
 - Silty Clay (CI – CH), medium to high plasticity, traces of sand, dark brown and moist.

- Capping Materials – Upper 1.2m of the fill profile and borrowed from local borrow pit.
 - Clayey Sand (SC), fine to coarse sand, low plasticity fines, traces of fine to medium gravel and moist.
 - Sandy Clay (CL), low to medium plasticity fines, fine to coarse sand and moist.

Fill was constructed using the following plant: -

- Excavators
- Water Truck
- Dozer
- Scrapers
- Truck and Dogs
- Padfoot Roller
- Compactor
- Grader
- Articulated Dump Trucks
- Body Trucks

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

To the extent that was reasonably practicable, fill materials visibly containing excessive amounts of silts or deleterious materials such as sticks, oversize particles were sorted to remove the contaminants prior to placement or rejected for use. Some cobble sized particles may remain in the body of the fill, however, are unlikely to be in sufficient quantities to adversely affect the performance of the new fill. Sloping areas requiring filling were benched and continually keyed into the slope prior to and during fill placement.

Pictures of the filling operations are presented below.

Picture 2: Filling Operations



Samples of the capping materials used between the final earthworks level and 1.2m below were collected after compaction and testing generally conformed with the criteria presented in Section 2 and are summarised below in Table 1. Test reports are attached

Table 1 – Summary of Capping Materials Test Results.

Test Number	Particle Size % Passing			Plasticity Index %		Shrink Swell (%)
	75mm	19mm	0.075mm	LL	PI	
S10234A	100	100	15	30	6	0.2
S10327A	100	100	16	32	7	0.2
S10503A	100	98	25	34	18	0.7
S10276A	100	100	21	31	8	0.4
S10297A	100	100	19	30	6	0.3
S10443A	100	100	15	30	5	0.2
S10519A	100	100	28	34	14	0.4
S10539A	100	90	15	33	17	0.1
S10606A	100	100	21	31	8	0.2
S10636A	100	97	20	27	5	0.2
S10454A	100	100	15	30	5	0.3
S10672A	100	98	13	28	5	0.2
S10717A	100	100	18	27	5	0.0
S10977A	100	98	23	30	8	0.3
S10698A	100	100	19	33	10	1.0
S11326A	100	100	20	30	8	0.2
S11872A	100	100	21	30	9	0.3
S11924A	100	100	11	27	4	0.2
S11950A	100	100	21	27	6	0.3
S11979A	100	100	19	28	5	0.2
S12113A	100	100	15	29	7	0.2
S12317A	100	100	13	25	4	0.2
S12367A	100	100	20	28	4	0.2
S12423A	100	100	20	28	6	0.3
S12514A	100	100	19	27	6	0.2
S12265A	100	100	14	26	4	0.2
S12351A	100	100	19	28	5	0.3
S12411A	100	100	23	26	4	0.2
S12459A	100	100	19	27	6	0.2
S12565A	100	100	19	27	6	0.2
S12617A	100	100	21	29	8	0.3

Notes.
LL – Liquid Limit
PI – Plasticity Index
LS – Linear Shrinkage
Green – Meets Specification
Red – Does not meet specification

The tested materials generally conform to the specification with the exception of the Plasticity Index shown in Table 1 above, however the outliers do not affect the performance of the fill as a whole.

The permeability testing has passed the required specification of 5×10^{-7} m/s Max.

5.0 COMPACTION TESTING

Compaction testing was carried out on the compacted fill materials in accordance with Table 5.1 and 8.1 of AS3798 2007 and tested to AS1289 test methods. All test locations were selected by Qualtest at random and staggered over the fill area and depth. Test locations were not obtained by survey and on this basis, the locations should be considered as approximate only.

Compaction testing achieved the minimum required compaction specification of 95% Standard at the test locations. Areas where the compaction specification was not achieved were reworked and re-tested using random stratified location processes.

The location of the compaction tests and area of fill covered under this report are shown on the Site Plan contained in Appendix A.

Compaction Test Reports and Capping Compliance Testing are contained in Appendix B.

6.0 STATEMENT OF COMPLIANCE

Our representatives observed the relevant earthworks operations during our engagement including the stripped surface, new fill placement and compaction operations, and compaction testing.

As far as Qualtest could assess, the fill at The Site has been observed to be placed and compacted in accordance with the requirements outlined in Section 2.0.

The fill at The Site can be considered to be "Controlled" as defined in AS2870.

7.0 EXCLUSIONS

The compliance statement specifically excludes any topsoil, which may be placed for use as Lot dressing or any other subsequent earthworks after 25th October 2024. All trench backfill, underground services, landscaping fill, fill outside the area shown as Figure 1 and other fill placed without our knowledge is also excluded.

Assessments of batter stability, global stability, and material quality such as soaked CBR and site classifications are excluded from this commission. The stability of any fill batters in the long term must take account of the variable materials used for the construction of the fill platforms and all surface loads including traffic loads near the crest of all batters.

Our on-site attendance specifically excludes assessments of fill material quality and engineering properties that are outside the requirements of AS.3798 - 2007, including soil or fill reactivity and soaked CBR values. We note that the fill materials comprise clay soils, which may result in unfavourable site classifications for individual lots and low subgrade design strengths for pavements.

Controlled fill (Level 1 Fill) provides an overview that the Earthwork Specification has been met. There are instances where significant long-term settlements of controlled fill can occur. Large total and differential settlements can be expected where fill has been placed over soft and compressible soils and where the thickness of controlled fill varies significantly across a lot.

Should you require further information regarding the above please do not hesitate to contact this office.

Yours faithfully,



MICHAEL MORRISON

For and on behalf of

QUALTEST LABORATORY PTY LTD.

Appendix A – Site Plan and Compaction Test Locations

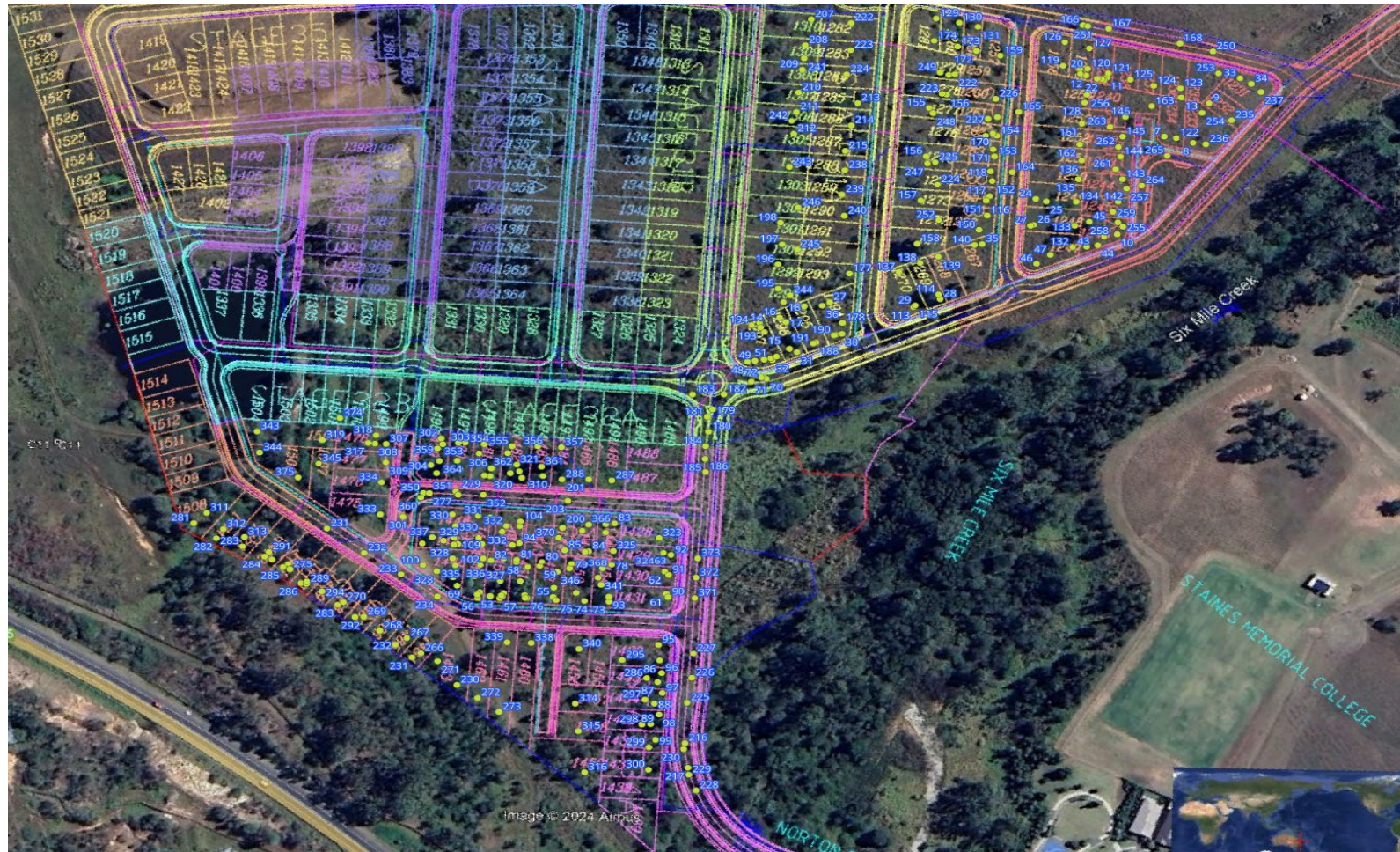
Appendix B - Compaction Test Reports

Appendix C - Capping Qualities

A photograph of a construction site. In the foreground, there is a dirt road with tire tracks. To the right, a white pickup truck is parked, featuring a logo on its side. In the background, several excavators are working on a large pile of earth, and a row of modern houses with solar panels is visible under a clear sky.

APPENDIX A

Site Plan and Compaction Test Locations



Qualitest Laboratory

Est. 1987

LEGEND:

Test Locations



CLIENT: Shadforth Civil

TITLE: Compaction Test Locations

DRAWING NO: 24-081-01

DATE: 18th December 2024

LOCATION: Eden's Crossing Stage 30-35 BEW

PROJECT NO: 24-081

CHECKED BY: GG



APPENDIX B

COMPACTION TEST REPORTS

Material Test Report

Report Number: 24-081-1
Issue Number: 1
Date Issued: 14/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9188
Date Sampled: 04/03/2024
Dates Tested: 04/03/2024 - 06/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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 Email: rhys@qualtestgeo.com

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	S9188A	S9188B	S9188C	S9188D	S9188E	S9188F
Test Number	1	2	3	4	5	6
Date Tested	04/03/2024	04/03/2024	04/03/2024	04/03/2024	04/03/2024	04/03/2024
Time Tested	10:00	10:05	10:10	10:15	10:20	10:25
Test Request #/Location	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Easting	484883	484876	484868	484844	484820	484788
Northing	6939492	6939443	6939415	6939374	6939303	6939258
Layer / Reduced Level	2nd Layer of Fill	2nd Layer of Fill	2nd Layer of Fill	2nd Layer of Fill	2nd Layer of Fill	2nd Layer of Fill
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	175	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	7	0	16	6	4	7
Field Wet Density (FWD) t/m ³	2.06	1.98	2.05	2.03	2.05	2.08
Field Moisture Content %	13.6	31.3	12.9	13.8	12.1	17.2
Field Dry Density (FDD) t/m ³	1.81	1.51	1.81	1.79	1.83	1.77
Peak Converted Wet Density t/m ³	**	1.89	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.09	**	2.14	2.09	2.07	2.06
Moisture Variation (Wv) %	**	2.0	**	**	**	**
Adjusted Moisture Variation %	2.0	**	1.0	1.5	2.0	2.0
Hilf Density Ratio (%)	98.5	104.5	95.5	97.5	99.0	100.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-2
Issue Number: 1
Date Issued: 14/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9173
Date Sampled: 01/03/2024
Dates Tested: 01/03/2024 - 12/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9173A	S9173B	S9173C
Test Number	7	8	9
Date Tested	01/03/2024	01/03/2024	01/03/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 30, Lot 1234	Stage 30, Lot 1233	Stage 30, Lot, 1232
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	2m West, 4m South	5m South, 6m West	3m South, 7m West
Elevation (m)	RL: 64.20	RL: 64.30	RL: 64.00
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	11	0
Field Wet Density (FWD) t/m ³	1.92	2.10	2.00
Field Moisture Content %	20.1	14.5	13.2
Field Dry Density (FDD) t/m ³	1.60	1.84	1.77
Peak Converted Wet Density t/m ³	2.00	**	2.05
Adjusted Peak Converted Wet Density t/m ³	**	2.16	**
Moisture Variation (Wv) %	1.5	**	3.0
Adjusted Moisture Variation %	**	1.5	**
Hilf Density Ratio (%)	96.5	97.0	98.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-3
Issue Number: 1
Date Issued: 15/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9205
Date Sampled: 05/03/2024
Dates Tested: 05/03/2024 - 07/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S9205A	S9205B	S9205C	S9205D
Test Number	10	11	12	13
Date Tested	05/03/2024	05/03/2024	05/03/2024	05/03/2024
Time Tested	13:30	13:40	13:50	14:00
Test Request #/Location	Stage 30, Lot 1246	Stage 30, Lot 1239	Stage 30, Lot 1255	Stage 30, Lot 1236
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m East, 4m South	6m East, 3m South	8m East, 4m South	6m East, 4m South
Elevation (m)	RL: 65.70	RL: 65.50	RL: 66.10	RL: 66.32
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.08	2.10	2.11	2.09
Field Moisture Content %	20.2	22.1	19.7	19.6
Field Dry Density (FDD) t/m ³	1.73	1.72	1.76	1.75
Peak Converted Wet Density t/m ³	2.03	2.03	2.03	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	102.5	103.5	103.5	103.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-4
Issue Number: 1
Date Issued: 19/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9260
Date Sampled: 07/03/2024
Dates Tested: 07/03/2024 - 08/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Accredited for compliance with ISO/IEC 17025 - Testing



Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9260A	S9260B	S9260C	S9260D	S9260E
Test Number	19	20	21	22	23
Date Tested	07/03/2024	07/03/2024	07/03/2024	07/03/2024	07/03/2024
Time Tested	09:00	09:10	09:20	13:00	13:10
Test Request #/Location	Stage 30, Lot 1255	Stage 30, Lot 1255	Stage 30, Lot 1239	Stage 30, Lot 1239	Stage 30, Lot 1239
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NWCNR	O/S NW CNR	O/S NW CNR
Offset	3m South, 7m East	4m South, 10m East	3m South, 10m East	4m South, 12m East	5m South, 7m East
Elevation (m)	RL: 71.90	RL: 71.60	RL: 71.10	RL: 70.80	RL: 70.50
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.82	1.85	1.85	1.82	1.88
Field Moisture Content %	22.4	23.1	20.1	24.9	20.2
Field Dry Density (FDD) t/m ³	1.49	1.50	1.54	1.45	1.56
Peak Converted Wet Density t/m ³	1.87	1.85	1.88	1.87	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.5	2.0	2.0	2.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.0	100.0	98.5	97.0	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-5
Issue Number: 1
Date Issued: 20/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9316
Date Sampled: 12/03/2024
Dates Tested: 12/03/2024 - 15/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S9316A	S9316B	S9316C	S9316D
Test Number	24	25	26	27
Date Tested	11/03/2024	11/03/2024	11/03/2024	11/03/2024
Time Tested	14:00	14:10	14:20	14:30
Test Request #/Location	Stage 30, Lot 1249	Stage 30, Lot 1249	Stage 30, Lot 1248	Stage 30, Lot 1248
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	3m West, 9m South	2m West, 7m South	3m West, 9m South	4m West, 8m South
Elevation (m)	RL: 69.55	RL: 69.35	RL: 68.60	RL: 68.30
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	1.79	1.71	1.86	1.91
Field Moisture Content %	27.7	30.8	28.0	24.7
Field Dry Density (FDD) t/m ³	1.40	1.31	1.45	1.53
Peak Converted Wet Density t/m ³	1.80	1.77	1.86	1.89
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.5	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	99.5	96.5	100.0	101.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-6
Issue Number: 1
Date Issued: 20/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9220
Date Sampled: 06/03/2024
Dates Tested: 06/03/2024 - 19/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9220A	S9220B	S9220C	S9220D	S9220E
Test Number	14	15	16	17	18
Date Tested	06/03/2024	06/03/2024	06/03/2024	06/03/2024	06/03/2024
Time Tested	11:00	11:10	11:20	14:00	14:10
Test Request #/Location	Stage 31, Lot 1297	Stage 31, Lot 1297	Stage 31, Lot 1296	Stage 31, Lot 1296	Stage 31, Lot 1295
Line / Offset	8m West, 1m North	12m West, 2m North	8m West, 1m North	13m West, 2m North	8m West, 1m North
Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Elevation (m)	RL: 67.50	RL: 67.80	RL: 67.40	RL: 68.00	RL: 67.60
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.99	1.95	1.94	1.88	1.88
Field Moisture Content %	16.0	15.9	15.8	24.4	25.8
Field Dry Density (FDD) t/m ³	1.72	1.68	1.68	1.51	1.50
Peak Converted Wet Density t/m ³	1.98	1.99	1.97	1.94	1.91
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.5	2.5	2.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.5	98.0	98.5	96.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-7
Issue Number: 1
Date Issued: 21/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9341
Date Sampled: 12/03/2024
Dates Tested: 12/03/2024 - 15/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-31, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9341A	S9341B	S9341C	S9341D	S9341E
Test Number	28	29	30	31	32
Date Tested	12/03/2024	12/03/2024	12/03/2024	12/03/2024	12/03/2024
Time Tested	09:20	09:30	09:40	09:50	10:00
Test Request #/Location	Stage 31 Road	Stage 31 Road	Stage 31 Road	Stage 31 Road	Stage 31 Road
Line / Offset	O/S NE CNR Lot 1269	O/S NE CNR Lot 1270	O/S NE CNR Lot 1294	O/S NE CNR Lot 1296	O/S NE CNR Lot 1297
Offset	8m East, 4m South	8m East, 4m South	8m East, 4m South	8m East, 4m South	8m East, 4m South
Elevation (m)	RL: 67.50	RL: 67.00	RL: 67.20	RL: 67.80	RL: 68.10
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	17
Field Wet Density (FWD) t/m ³	1.97	1.96	1.88	1.88	1.97
Field Moisture Content %	19.5	21.8	26.3	20.2	13.8
Field Dry Density (FDD) t/m ³	1.65	1.61	1.49	1.56	1.73
Peak Converted Wet Density t/m ³	1.97	1.93	1.95	1.91	**
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	2.05
Moisture Variation (Wv) %	0.0	2.0	3.0	2.0	**
Adjusted Moisture Variation %	**	**	**	**	3.5
Hilf Density Ratio (%)	99.5	101.5	97.0	98.5	96.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-8
Issue Number: 1
Date Issued: 21/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9368
Date Sampled: 13/03/2024
Dates Tested: 13/03/2024 - 19/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9368A	S9368B	S9368C	S9368D	S9368E
Test Number	33	34	35	36	37
Date Tested	13/03/2024	13/03/2024	13/03/2024	13/03/2024	13/03/2024
Time Tested	10:30	10:40	10:50	11:00	11:10
Test Request #/Location	Stage 30, Road	Stage 30, Road	Stage 30, Road	Stage 31, Road	Stage 31, Road
Line / Offset	O/S NW CNR Lot 1231	O/S NE CNR Lot 1232	O/S NW CNR Lot 1267	O/S NE CNR Lot 1294	O/S NE CNR Lot 1294
Offset	8m North, 7m East	8m East, 4m South	8m North, 7m East	8m North, 3m West	8m North, 13West
Elevation (m)	RL: 65.51	RL: 66.13	RL: 65.70	RL: 66.00	RL: 65.30
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.79	1.94	1.94	1.85	1.84
Field Moisture Content %	26.4	25.7	23.2	25.2	23.4
Field Dry Density (FDD) t/m ³	1.42	1.55	1.57	1.48	1.49
Peak Converted Wet Density t/m ³	1.86	1.94	1.99	1.89	1.88
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.0	100.0	97.5	98.0	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-8
Issue Number: 1
Date Issued: 21/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9368
Date Sampled: 13/03/2024
Dates Tested: 13/03/2024 - 19/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9368F	S9368G	S9368H	S9368I	S9368J
Test Number	38	39	40	41	42
Date Tested	13/03/2024	13/03/2024	13/03/2024	13/03/2024	13/03/2024
Time Tested	13:30	13:40	13:50	14:00	14:10
Test Request #/Location	Stage 30, Lot 1254	Stage 30, Lot 1253	Stage 30, Lot 1252	Stage 30, Lot 1251	Stage 30, Lot 1250
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	10m South, 3m West	10m South, 2m West	8m South, 3m West	10m South, 3m West	9m South, 3m West
Elevation (m)	RL: 73.20	RL: 73.00	RL: 72.70	RL: 72.20	RL: 72.00
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.85	1.80	1.99	1.95	1.99
Field Moisture Content %	23.4	29.8	25.0	23.9	22.1
Field Dry Density (FDD) t/m ³	1.50	1.39	1.59	1.58	1.63
Peak Converted Wet Density t/m ³	1.88	1.74	1.84	1.96	1.96
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	4.5	1.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	103.5	108.0	99.5	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-9
Issue Number: 1
Date Issued: 22/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9399
Date Sampled: 14/03/2024
Dates Tested: 14/03/2024 - 20/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9399A	S9399B	S9399C	S9399D	S9399E
Test Number	43	44	45	46	47
Date Tested	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Stage 30, Road	Stage 30, Road	Stage 30, Road	Stage 30, Road	Stage 30, Road
Line / Offset	O/S NE CNR Lot 1246	O/S NE CNR Lot 1246	O/S NE CNR Lot 1246	O/S NE CNR Lot 1247	O/S NE CNR Lot 1247
Offset	8m East, 5m South	8m East, 10m South	8m East, 10m North	8m East, 5m South	8m East, 10m South
Elevation (m)	RL: 66.60	RL: 66.30	RL: 66.00	RL: 59.70	RL: 66.60
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.82	1.87	1.81	1.87	1.94
Field Moisture Content %	19.7	25.0	23.7	22.6	23.3
Field Dry Density (FDD) t/m ³	1.52	1.49	1.46	1.52	1.57
Peak Converted Wet Density t/m ³	1.87	1.92	1.89	1.92	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	3.0	0.0	2.0	2.5	3.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.5	97.5	96.0	97.5	104.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-10
Issue Number: 1
Date Issued: 22/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9416
Date Sampled: 15/03/2024
Dates Tested: 15/03/2024 - 19/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9416A	S9416B	S9416C	S9416D	S9416E
Test Number	48	49	50	51	52
Date Tested	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Time Tested	12:00	12:10	12:20	12:30	12:40
Test Request #/Location	Stage 31, Road Roadabout next to Lot 1297	Stage 31, Road Roadabout next to Lot 1297	Stage 31, Road Roadabout next to Lot 1297	Stage 31, Road Roadabout next to Lot 1297	Stage 31, Road Roadabout next to Lot 1297
Line / Offset	O/S SE CNR Lot 1297	O/S SE CNR Lot 1297	O/S SE CNR Lot 1297	O/S SE CNR Lot 1297	O/S SE CNR Lot 1297
Offset	4m South, 2m West	6m South, 3m West	8m South, 2m West	10m South, 5m West	12m South, 2m West
Elevation (m)	RL: 66.00	RL: 65.70	RL: 65.40	RL: 65.10	RL: 64.80
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.85	1.86	1.84	1.88	1.88
Field Moisture Content %	25.4	16.6	18.9	20.7	15.9
Field Dry Density (FDD) t/m ³	1.48	1.60	1.55	1.56	1.62
Peak Converted Wet Density t/m ³	1.86	1.86	1.85	1.85	1.86
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	4.0	4.5	4.5	4.5	4.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	100.0	99.5	101.5	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-11
Issue Number: 1
Date Issued: 25/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9482
Date Sampled: 20/03/2024 7:30
Dates Tested: 20/03/2024 - 22/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, 1 x trip
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9482A	S9482B	S9482C	S9482D	S9482E
Test Number	56	57	58	59	60
Date Tested	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Stage 34, Lot 1449	Stage 34, Lot 1450	Stage 34, Lot 1451	Stage 34, Lot 1452	Stage 34, Lot 1453
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	7m North, 2m West	9m North, 2m West	10m North, 2m West	10m North, 2m West	10m North, 3m West
Elevation (m)	RL: 75.7	RL: 75.5	RL: 75.2	RL: 74.6	RL: 74.4
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.90	1.84	1.84	1.84	1.90
Field Moisture Content %	14.0	22.1	19.3	17.6	19.0
Field Dry Density (FDD) t/m ³	1.67	1.51	1.55	1.57	1.60
Peak Converted Wet Density t/m ³	1.92	1.89	1.83	1.89	1.89
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	2.0	3.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	97.0	101.0	97.5	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-12
Issue Number: 1
Date Issued: 25/03/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9493
Date Sampled: 21/03/2024 7:30
Dates Tested: 21/03/2024 - 22/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9493A	S9493B	S9493C
Test Number	61	62	63
Date Tested	21/03/2024	21/03/2024	21/03/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 34, Lot 1431	Stage 34, Lot 1430	Stage 34, Lot 1429
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	6m East, 2m North	6m East, 2m North	6m East, 2m North
Elevation (m)	RL: 66.00	RL: 66.50	RL: 66.80
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.94	1.85	1.85
Field Moisture Content %	22.6	23.5	23.2
Field Dry Density (FDD) t/m ³	1.58	1.50	1.50
Peak Converted Wet Density t/m ³	1.92	1.93	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	96.0	96.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-13
Issue Number: 1
Date Issued: 04/04/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9433
Date Sampled: 18/03/2024
Dates Tested: 18/03/2024 - 25/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9433A	S9433B	S9433C
Test Number	53	54	55
Date Tested	18/03/2024	18/03/2024	18/03/2024
Time Tested	14:00	14:10	14:20
Test Request #/Location	Stage 34, Lot 1450	Stage 34, Lot 1451	Stage 34, Lot 1452
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	7m South, 4m West	7m South, 4m West	7m South, 4m West
Elevation (m)	RL: 74.60	RL: 74.50	RL: 74.70
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.81	1.88	1.81
Field Moisture Content %	21.1	23.2	25.6
Field Dry Density (FDD) t/m ³	1.49	1.53	1.44
Peak Converted Wet Density t/m ³	1.89	1.96	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	0.0	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	96.0	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-14
Issue Number: 1
Date Issued: 05/04/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9558
Date Sampled: 02/04/2024 8:30
Dates Tested: 02/04/2024 - 04/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9558A	S9558B	S9558C
Test Number	64	65	66
Date Tested	02/04/2024	02/04/2024	02/04/2024
Time Tested	13:00	13:10	13:20
Test Request #/Location	Stage 34, Road	Stage 34, Road	Stage 34, Road
Line / Offset	O/S NE CNR Lot 129	O/S NE CNR, Lot 130	O/S NE CNR, Lot 131
Offset	5m East, 2m North	5m East, 2m North	5m East, 2m North
Elevation (m)	RL: 78.00	RL: 77.50	RL: 78.30
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.89	1.88	1.95
Field Moisture Content %	23.3	27.1	26.2
Field Dry Density (FDD) t/m ³	1.53	1.48	1.54
Peak Converted Wet Density t/m ³	1.92	1.95	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	0.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.5	96.5	101.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-15
Issue Number: 1
Date Issued: 15/04/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9576
Date Sampled: 03/04/2024
Dates Tested: 03/04/2024 - 08/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9576A	S9576B	S9576C
Test Number	67	68	69
Date Tested	03/04/2024	03/04/2024	03/04/2024
Time Tested	10:30	10:40	10:50
Test Request #/Location	Lot 1450	Lot 1449	Lot 1448
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	6m South, 3m East	6m South, 3m East	6m South, 3m East
Elevation (m)	RL: 68.10	RL: 68.50	RL: 68.80
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.84	1.83	1.85
Field Moisture Content %	22.6	22.7	24.1
Field Dry Density (FDD) t/m ³	1.50	1.49	1.49
Peak Converted Wet Density t/m ³	1.86	1.86	1.86
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	98.5	99.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-16
Issue Number: 1
Date Issued: 17/04/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9649
Date Sampled: 10/04/2024
Dates Tested: 10/04/2024 - 15/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9649A	S9649B	S9649C
Test Number	70	71	72
Date Tested	10/04/2024	10/04/2024	10/04/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 32, Road	Stage 32, Road	Stage 32, Road
Line / Offset	O/S SW CNR Lot 1297	O/S SW CNR Lot 1297	O/S SW CNR Lot 1297
Offset	6m South, 4m West	12m South, 4m West	16m South, 4m East
Elevation (m)	RL: 66.00	RL: 66.50	RL: 65.90
Thickness of Layer (mm)	175	175	175
Soil Description	Clay, Brown	Clay, Brown	Clay, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.88	1.88	1.89
Field Moisture Content %	26.7	32.3	23.9
Field Dry Density (FDD) t/m ³	1.48	1.42	1.53
Peak Converted Wet Density t/m ³	1.91	1.90	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.5	99.0	97.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-17
Issue Number: 1
Date Issued: 17/04/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9674
Date Sampled: 11/04/2024
Dates Tested: 11/04/2024 - 15/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9674A	S9674B	S9674C	S9674D	S9674E
Test Number	73	74	75	76	77
Date Tested	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Time Tested	10:10	10:20	10:30	10:40	10:50
Test Request #/Location	Stage 34, Lot 1454	Stage 34, Lot 1453	Stage 34, Lot 1452	Stage 34, Lot 1451	Stage 34, Lot 1450
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	3m West, 4m South	3m West, 4m South	3m West, 4m South	3m West, 4m South	3m West, 4m South
Elevation (m)	RL: 70.00	RL: 70:30	RL: 69:70	RL: 70:00	RL: 70.10
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.82	1.82	1.85	1.87	1.87
Field Moisture Content %	34.9	25.8	25.1	24.0	23.9
Field Dry Density (FDD) t/m ³	1.35	1.45	1.48	1.51	1.51
Peak Converted Wet Density t/m ³	1.82	1.86	1.88	1.92	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.0	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.0	98.0	98.5	97.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-18
Issue Number: 1
Date Issued: 18/04/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9712
Date Sampled: 15/04/2024
Dates Tested: 15/04/2024 - 17/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9712A	S9712B	S9712C
Test Number	83	84	85
Date Tested	15/04/2024	15/04/2024	15/04/2024
Time Tested	11:20	11:30	11:40
Test Request #/Location	Stage 34 - Lot 1440	Stage 34 - Lot 1441	Stage 34 - Lot 1442
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	3m South, 6m East	3m South, 6m East	3m South, 6m East
Elevation (m)	RL: 69.50	RL: 69.50	RL: 69.50
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.86	1.76	1.87
Field Moisture Content %	20.7	23.5	19.5
Field Dry Density (FDD) t/m ³	1.54	1.42	1.57
Peak Converted Wet Density t/m ³	1.82	1.76	1.82
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	0.5	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.5	100.0	102.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-19
Issue Number: 1
Date Issued: 18/04/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9693
Date Sampled: 12/04/2024
Dates Tested: 12/04/2024 - 15/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 34, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9693A	S9693B	S9693C	S9693D	S9693E
Test Number	78	79	80	81	82
Date Tested	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Stage 34, Lot 1454	Stage 34, Lot 1453	Stage 34, Lot 1452	Stage 34, Lot 1451	Stage 34, Lot 1450
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	5m North, 2m West	5m North, 2m West	5m North, 2m West	5m North, 2m West	5m North, 2m West
Elevation (m)	RL: 70.00	RL: 70.30	RL: 70.10	RL: 70.40	RL: 70.10
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.96	1.99	1.98	1.99	1.99
Field Moisture Content %	29.6	27.3	32.9	26.9	26.9
Field Dry Density (FDD) t/m ³	1.51	1.56	1.49	1.57	1.57
Peak Converted Wet Density t/m ³	2.05	2.07	2.06	2.09	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	-0.5	0.0	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.0	96.0	96.0	95.5	96.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-20
Issue Number: 1
Date Issued: 13/05/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9856
Date Sampled: 29/04/2024 8:30
Dates Tested: 29/04/2024 - 07/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 34, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S9856A	S9856B	S9856C	S9856D
Test Number	86	87	88	89
Date Tested	29/04/2024	29/04/2024	29/04/2024	29/04/2024
Time Tested	12:30	12:40	12:50	13:00
Test Request #/Location	Stage 34, Lot 1432	Stage 34, Lot 1433	Stage 34, Lot 1434	Stage 34, Lot 1435
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	5m South, 4m West	5m South, 4m West	5m South, 4m West	5m South, 4m West
Elevation (m)	RL: 69.90	RL: 69.70	RL: 69.50	RL: 69.40
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	1.96	1.96	1.97	1.96
Field Moisture Content %	18.9	12.4	23.4	20.1
Field Dry Density (FDD) t/m ³	1.65	1.75	1.60	1.63
Peak Converted Wet Density t/m ³	2.03	1.97	2.00	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	4.0	0.0	-1.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	96.5	99.5	98.5	98.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-21
Issue Number: 1
Date Issued: 13/05/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9928
Date Sampled: 02/05/2024
Dates Tested: 02/05/2024 - 08/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9928A	S9928B	S9928C	S9928D	S9928E
Test Number	100	101	102	103	104
Date Tested	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Stage 34, Lot 1448	Stage 34, Lot 1447	Stage 34, Lot 1449	Stage 34, Lot 1445	Stage 34, Lot 1444
Line / Offset	O/S NW CNR	O/S NE CNR	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	5m West, 7m South	4m West, 2m South	8m East, 4m North	7m North, 6m East	7m North, 4m East
Elevation (m)	RL: 75.30	RL: 75.30	RL: 74.80	RL: 74.60	RL: 74.30
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	4	0	0	0
Field Wet Density (FWD) t/m ³	1.97	1.96	1.96	1.93	1.84
Field Moisture Content %	22.1	22.8	22.2	26.6	30.5
Field Dry Density (FDD) t/m ³	1.61	1.60	1.61	1.53	1.41
Peak Converted Wet Density t/m ³	2.04	**	2.01	2.01	1.88
Adjusted Peak Converted Wet Density t/m ³	**	2.03	**	**	**
Moisture Variation (Wv) %	0.0	**	0.5	-1.0	0.5
Adjusted Moisture Variation %	**	0.5	**	**	**
Hilf Density Ratio (%)	96.5	96.5	98.0	96.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-22
Issue Number: 1
Date Issued: 14/05/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9872
Date Sampled: 30/04/2024
Dates Tested: 30/04/2024 - 09/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 34, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9872A	S9872B	S9872C	S9872D	S9872E
Test Number	95	96	97	98	99
Date Tested	30/04/2024	30/04/2024	30/04/2024	30/04/2024	30/04/2024
Time Tested	10:10	10:20	10:30	10:40	10:50
Test Request #/Location	Stage 34 - Lot 1432	Stage 34 - Lot 1433	Stage 34 - Lot 1434	Stage 34 - Lot 1435	Stage 34 - Lot 1336
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	4m North, 2m East	4m North, 3m East	4m North, 2m East	5m North, 2m East	4m North, 2m East
Elevation (m)	RL: 68.50	RL: 68.90	RL: 69.00	RL: 69.20	RL: 68.90
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.94	1.90	2.02	1.94	1.94
Field Moisture Content %	16.2	18.3	12.0	16.6	13.6
Field Dry Density (FDD) t/m ³	1.67	1.60	1.80	1.66	1.71
Peak Converted Wet Density t/m ³	2.02	1.97	2.07	2.01	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	1.5	0.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.0	96.5	97.5	96.5	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-23
Issue Number: 1
Date Issued: 14/05/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9901
Date Sampled: 01/05/2024
Dates Tested: 01/05/2024 - 08/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 34, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9901A	S9901B	S9901C	S9901D	S9901E
Test Number	90	91	92	93	94
Date Tested	01/05/2024	01/05/2024	01/05/2024	01/05/2024	01/05/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Stage 34, Lot 1431	Stage 34, Lot 1430	Stage 34, Lot 1429	Stage 34, Lot 1454	Stage 34, Lot 1444
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR	O/S NE CNR	O/S NE CNR
Offset	6m North, 4m East	6m North, 4m East	6m North, 4m East	8m West, 3m South	8m West, 3m South
Elevation (m)	RL: 68.38	RL: 68.00	RL: 68.50	RL: 68.10	RL: 67.80
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.91	1.91	1.91	1.94	1.92
Field Moisture Content %	23.5	22.8	25.3	19.6	22.4
Field Dry Density (FDD) t/m ³	1.55	1.55	1.52	1.62	1.57
Peak Converted Wet Density t/m ³	1.93	1.96	1.97	2.01	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	0.5	0.0	0.0	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	97.5	97.0	96.5	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-24
Issue Number: 1
Date Issued: 16/05/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9946
Date Sampled: 03/05/2024
Dates Tested: 03/05/2024 - 09/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9946A	S9946B	S9946C
Test Number	105	106	107
Date Tested	03/05/2024	03/05/2024	03/05/2024
Time Tested	10:00	10:15	10:25
Test Request #/Location	Stage 34 - Lot 1444	Stage 34 - Lot 1451	Stage 34- Lot 1450
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	9m North, 3m East	5m North, 8m East	8m East, 3m North
Elevation (m)	RL: 73.00	RL: 72.60	RL: 73.20
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.06	1.88	2.06
Field Moisture Content %	12.6	21.6	15.6
Field Dry Density (FDD) t/m ³	1.83	1.54	1.78
Peak Converted Wet Density t/m ³	2.09	1.94	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-2.0	2.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	97.0	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-25
Issue Number: 1
Date Issued: 17/05/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9972
Date Sampled: 07/05/2024 7:00
Dates Tested: 07/05/2024 - 15/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S9972A	S9972B	S9972C	S9972D	S9972E
Test Number	108	109	110	111	112
Date Tested	07/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Stage 34, Lot 1448	Stage 34, Lot 1447	Stage 34, Lot 1449	Stage 34, Lot 1450	Stage 34, Lot 1451
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	10m South, 5m East	4m South, 3m East	5m South, 4m East	5m South, 4m East	5m South, 4m East
Layer / Reduced Level	Sub Capping FSL	Sub Capping FSL	Sub Capping FSL	Sub Capping FSL	Sub Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.02	2.02	2.06	2.06
Field Moisture Content %	16.4	17.4	17.0	19.2	21.0
Field Dry Density (FDD) t/m ³	1.73	1.72	1.72	1.73	1.70
Peak Converted Wet Density t/m ³	2.06	2.05	2.06	2.07	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	2.0	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	98.5	97.5	99.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-26
Issue Number: 1
Date Issued: 17/05/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 9987
Date Sampled: 08/05/2024 7:00
Dates Tested: 08/05/2024 - 15/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S9987A	S9987B	S9987C
Test Number	113	114	115
Date Tested	08/05/2024	08/05/2024	08/05/2024
Time Tested	12:00	12:10	12:20
Test Request #/Location	Stage 30, Lot 1270	Stage 30, Lot 1269	Stage 30, Lot 1270
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	6m South, 3m West	6m South, 3m West	6m South, 3m West
Layer / Reduced Level	Sub Capping FSL	Sub Capping FSL	Sub Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.99	1.94	1.97
Field Moisture Content %	21.6	18.6	18.1
Field Dry Density (FDD) t/m ³	1.64	1.64	1.67
Peak Converted Wet Density t/m ³	2.00	2.00	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	1.5	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	97.0	99.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-27
Issue Number: 1
Date Issued: 17/05/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10007
Date Sampled: 09/05/2024 7:00
Dates Tested: 09/05/2024 - 15/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10007A	S10007B	S10007C
Test Number	116	117	118
Date Tested	09/05/2024	09/05/2024	09/05/2024
Time Tested	11:00	11:10	11:20
Test Request #/Location	Stage 30, Lot 1266	Stage 30, Lot 1265	Stage 30, Lot 1264
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	9m North, 4m West	9m North, 3m West	9m North, 4m West
Layer / Reduced Level	Sub Capping FSL	Sub Capping FSL	Sub Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.00	1.93	1.94
Field Moisture Content %	20.0	16.7	20.7
Field Dry Density (FDD) t/m ³	1.66	1.66	1.61
Peak Converted Wet Density t/m ³	2.01	2.02	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	95.5	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-28
Issue Number: 1
Date Issued: 05/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10326
Date Sampled: 28/05/2024
Dates Tested: 28/05/2024 - 30/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10326A	S10326B	S10326C
Test Number	126	127	128
Date Tested	28/05/2024	28/05/2024	28/05/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 30, Lot 1256	Stage 30, Lot 1255	Stage 30, Lot 1254
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	7m South, 3m East	7m South, 3m East	7m South, 3m East
Layer / Reduced Level	0.4m Below FSL	0.4m Below FSL	0.4m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.94	2.03	2.00
Field Moisture Content %	11.3	10.6	12.2
Field Dry Density (FDD) t/m ³	1.74	1.83	1.78
Peak Converted Wet Density t/m ³	2.02	2.02	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	3.5	3.0	4.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	100.5	98.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-29
Issue Number: 1
Date Issued: 06/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10275
Date Sampled: 24/05/2024
Dates Tested: 24/05/2024 - 31/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S10275A	S10275B	S10275C	S10275D
Test Number	122	123	124	125
Date Tested	24/05/2024	24/05/2024	24/05/2024	24/05/2024
Time Tested	12:00	12:10	12:20	12:30
Test Request #/Location	Stage 30: Lot 1234	Stage 30, Lot 1236	Stage 30: Lot 1237	Stage 30: Lot 1238
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m South, 3m East	8m South, 3m East	7m South, 3m East	8m South, 4m East
Layer / Reduced Level	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	1.94	1.99	2.07	2.07
Field Moisture Content %	10.2	10.8	13.7	13.7
Field Dry Density (FDD) t/m ³	1.76	1.80	1.82	1.82
Peak Converted Wet Density t/m ³	1.94	2.02	2.15	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	-1.0	-1.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.0	98.5	96.5	97.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-30
Issue Number: 1
Date Issued: 07/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10293
Date Sampled: 27/05/2024
Dates Tested: 27/05/2024 - 28/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10293A	S10293B	S10293C
Test Number	119	120	121
Date Tested	27/05/2024	27/05/2024	27/05/2024
Time Tested	13:50	13:57	14:05
Test Request #/Location	Stage 30, Lot 1256	Stage 30, Lot 1255	Stage 30, Lot 1239
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	8m South, 3m West	8m South, 3m West	8m South, 3m West
Layer / Reduced Level	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.03	2.07
Field Moisture Content %	10.5	10.6	10.8
Field Dry Density (FDD) t/m ³	1.83	1.83	1.87
Peak Converted Wet Density t/m ³	2.03	2.04	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	99.5	101.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-31
Issue Number: 1
Date Issued: 17/06/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10432
Date Sampled: 03/06/2024
Dates Tested: 03/06/2024 - 12/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10432A	S10432B	S10432C
Test Number	129	130	131
Date Tested	03/06/2024	03/06/2024	03/06/2024
Time Tested	11:00	11:20	11:40
Test Request #/Location	Stage 30 - Road	Stage 30 - Road	Stage 30 - Road
Line / Offset	O/S NW CNR Lot 1281	O/S NW CNR Lot 1280	O/S NW CNR Lot 1258
Offset	6m North, 2m West	6m North, 2m West	6m North, 2m West
Layer / Reduced Level	0.5m Below FSL	0.5m Below FSL	0.5m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.96	2.03	2.03
Field Moisture Content %	12.5	13.3	14.3
Field Dry Density (FDD) t/m ³	1.75	1.79	1.78
Peak Converted Wet Density t/m ³	2.05	2.12	2.09
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	-0.5	-1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.5	95.5	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-35
Issue Number: 1
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10449
Date Sampled: 04/06/2024
Dates Tested: 04/06/2024 - 17/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S10449A	S10449B	S10449C	S10449D	S10449E
Test Number	132	133	134	135	136
Date Tested	04/06/2024	04/06/2024	04/06/2024	04/06/2024	04/06/2024
Time Tested	12:00	12:10	12:20	12:30	12:40
Test Request #/Location	Stage 30 - Lot 1247	Stage 3 - , Lot 1248	Stage 30 - Lot 1249	Stage 30 - Lot 1250	Stage 30 - Lot 1251
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	8m West, 1m North	7m West, 1m North	7m West, 1m North	8m West, 2m North	7m West, 1m North
Layer / Reduced Level	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.97	2.00	1.92	1.96	1.92
Field Moisture Content %	12.3	10.9	11.4	11.5	11.5
Field Dry Density (FDD) t/m ³	1.75	1.81	1.72	1.76	1.72
Peak Converted Wet Density t/m ³	2.01	2.00	1.99	2.01	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	3.0	3.5	3.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	100.5	96.0	97.5	95.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-36
Issue Number: 1
Date Issued: 24/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10697
Date Sampled: 17/06/2024
Dates Tested: 17/06/2024 - 21/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S10697A	S10697B	S10697C	S10697D	S10697E
Test Number	172	173	174	175	176
Date Tested	17/06/2024	17/06/2024	17/06/2024	17/06/2024	17/06/2024
Time Tested	09:00	09:10	09:20	09:30	09:40
Test Request #/Location	Stage 30- Lot 1258	Stage 31- Lot 1280	Stage 31 - Lot 1281	Stage 31- Lot 1279	Stage 31- Lot 1278
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m East, 2m South	8m East, 2m South	8m East, 2m South	8m East, 2m South	8m East, 2m South
Layer / Reduced Level	0.5m Below FSL	0.5m Below FSL	0.5m Below FSL	0.5m Below FSL	0.5m Below FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.95	1.94	2.00	1.97	1.93
Field Moisture Content %	8.9	7.5	6.7	8.3	6.6
Field Dry Density (FDD) t/m ³	1.79	1.81	1.88	1.82	1.81
Peak Converted Wet Density t/m ³	1.98	1.98	1.96	1.97	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	3.5	4.0	4.0	4.5	4.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	98.5	102.0	100.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-37
Issue Number: 1
Date Issued: 24/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10496
Date Sampled: 06/06/2024
Dates Tested: 06/06/2024 - 19/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S10496A	S10496B	S10496C	S10496D	S10496E
Test Number	137	138	139	140	141
Date Tested	06/06/2024	06/06/2024	06/06/2024	06/06/2024	06/06/2024
Time Tested	09:00	09:10	09:20	09:30	09:40
Test Request #/Location	Stage 31, Lot 1270	Stage 31, Lot 1269	Stage 31, Lot 1268	Stage 31, Lot 1267	Stage 30, Lot 1246
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	10m West, 2m North	7m West, 2m North	7m West, 2m North	10m West, 2m North	6m West, 2m North
Layer / Reduced Level	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.08	2.02	2.01	2.08	2.01
Field Moisture Content %	10.6	11.6	11.3	9.0	8.9
Field Dry Density (FDD) t/m ³	1.88	1.81	1.81	1.91	1.84
Peak Converted Wet Density t/m ³	2.16	2.10	2.06	2.14	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.0	1.5	0.0	0.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.5	96.5	97.5	97.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-37
Issue Number: 1
Date Issued: 24/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10496
Date Sampled: 06/06/2024
Dates Tested: 06/06/2024 - 19/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S10496F	S10496G	S10496H	S10496I	S10496J
Test Number	142	143	144	145	146
Date Tested	06/06/2024	06/06/2024	06/06/2024	06/06/2024	06/06/2024
Time Tested	09:50	10:00	10:10	10:20	10:30
Test Request #/Location	Stage 30, Lot 1245	Stage 30, Lot 1244	Stage 30, Lot 1243	Stage 30, Lot 1242	Stage 30, Lot 1241
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	6m West, 2m North	6m West, 2m North	6m West, 2m North	6m West, 2m North	6m West, 2m North
Layer / Reduced Level	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.07	2.01	2.01	1.99	2.01
Field Moisture Content %	11.7	10.9	8.6	6.5	8.6
Field Dry Density (FDD) t/m ³	1.86	1.81	1.85	1.87	1.85
Peak Converted Wet Density t/m ³	2.14	1.98	2.07	2.03	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	2.5	2.5	3.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.0	101.5	97.0	98.0	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-38
Issue Number: 1
Date Issued: 24/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10597
Date Sampled: 12/06/2024
Dates Tested: 12/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite (Sandstone Capping)



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S10597A	S10597B	S10597C	S10597D
Test Number	155	156	157	158
Date Tested	11/06/2024	11/06/2024	11/06/2024	11/06/2024
Time Tested	14:00	14:10	14:20	14:30
Test Request #/Location	General Fill Lot 1277	General Fill - Lot 1275	General Fill - Lot 1273	General Fill - Lot 1271
Easting	Centre of Lot	Centre of Lot	Centre of Lot	Centre of Lot
Northing	**	**	**	**
Layer / Reduced Level	0.7m Below FSL	0.7m Below FSL	0.7m Below FSL	0.7m Below FSL
Thickness of Layer (mm)	200	200	200	200
Soil Description	Clayey Sand	Clayey Sand	Clayey Sand	Clayey Sand
Test Depth (mm)	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	1.92	1.95	1.94	1.94
Field Moisture Content %	8.7	7.7	8.8	7.6
Field Dry Density (FDD) t/m ³	1.77	1.81	1.78	1.80
Peak Converted Wet Density t/m ³	1.99	1.96	1.97	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	4.5	4.5	3.5	3.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	96.5	99.5	98.5	100.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-39
Issue Number: 1
Date Issued: 25/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10538
Date Sampled: 10/06/2024 7:00
Dates Tested: 10/06/2024 - 17/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S10538A	S10538B	S10538C	S10538D	S10538E
Test Number	150	151	152	153	154
Date Tested	10/06/2024	10/06/2024	10/06/2024	10/06/2024	10/06/2024
Time Tested	12:00	12:10	12:20	12:30	12:40
Test Request #/Location	Stage 31, Lot 1266	Stage 31, Lot 1265	Stage 31, Lot 1264	Stage 31, Lot 1263	Stage 31, Lot 1262
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m South, 3m East	8m South, 2m East	7m South, 3m East	8m South, 2m East	7m South, 2m East
Layer / Reduced Level	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.88	1.88	1.98	1.92	1.92
Field Moisture Content %	7.8	6.5	10.5	8.1	9.5
Field Dry Density (FDD) t/m ³	1.74	1.77	1.80	1.77	1.75
Peak Converted Wet Density t/m ³	1.95	1.94	2.02	1.99	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.5	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.5	97.0	98.0	96.5	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-40
Issue Number: 1
Date Issued: 25/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10604
Date Sampled: 12/06/2024
Dates Tested: 12/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S10604A	S10604C	S10604D	S10604E
Test Number	159	161	162	163
Date Tested	12/06/2024	12/06/2024	12/06/2024	12/06/2024
Time Tested	10:30	10:50	11:00	11:10
Test Request #/Location	Stage 30, Lot 1257	Stage 30, Lot 1253	Stage 30, Lot 1252	Stage 30, Lot 1240
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	5m South, 2m East	5m South, 2m East	6m South, 2m East	9m South, 2m East
Layer / Reduced Level	FSL	0.3m Below FSL	0.3m Below FSL	0.3m Below FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	1	0	0	0
Field Wet Density (FWD) t/m ³	1.97	1.96	2.00	2.00
Field Moisture Content %	11.2	9.0	10.4	11.8
Field Dry Density (FDD) t/m ³	1.77	1.80	1.81	1.79
Peak Converted Wet Density t/m ³	**	2.02	2.04	2.05
Adjusted Peak Converted Wet Density t/m ³	2.05	**	**	**
Moisture Variation (Wv) %	**	4.0	2.0	1.5
Adjusted Moisture Variation %	2.0	**	**	**
Hilf Density Ratio (%)	96.0	97.0	98.0	97.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-41
Issue Number: 1
Date Issued: 25/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10635
Date Sampled: 13/06/2024
Dates Tested: 13/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S10635A	S10635B	S10635C	S10635D	S10635E
Test Number	164	165	166	167	168
Date Tested	13/06/2024	13/06/2024	13/06/2024	13/06/2024	13/06/2024
Time Tested	08:30	08:40	08:50	09:00	09:10
Test Request #/Location	Stage 30, Road	Stage 30, Road	Stage 30, Road	Stage 30, Road	Stage 30, Road
Line / Offset	O/S Lot 1249 NW CNR	O/S Lot 1253 NW CNR	O/S Lot 1258 NW CNR	O/S Lot 1239 NW CNR	O/S Lot 1236 NW CNR
Offset	7m West, 1m East	7m West, 1m East	7m West, 1m East	6m North, 2m East	6m North, 2m East
Layer / Reduced Level	0.3m Below FSL	0.3m Below FSL	0.3m Below FSL	0.3m Below FSL	0.3m Below FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.04	1.95	2.02	2.00	2.00
Field Moisture Content %	8.4	8.8	8.8	9.0	9.6
Field Dry Density (FDD) t/m ³	1.88	1.80	1.86	1.83	1.82
Peak Converted Wet Density t/m ³	2.05	2.03	2.06	2.03	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.5	2.5	0.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	96.5	98.0	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-42
Issue Number: 1
Date Issued: 25/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10716
Date Sampled: 18/06/2024
Dates Tested: 18/06/2024 - 24/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10716A	S10716B	
Test Number	177	178	
Date Tested	18/06/2024	18/06/2024	
Time Tested	09:00	09:10	
Test Request #/Location	Stage 31, Lot 1293	Stage 31, Lot 1294	
Line / Offset	O/S NW CNR	O/S NW CNR	
Offset	10m South, 3m East	8m South, 3m East	
Layer / Reduced Level	0.4m Below FSL	0.4m Below FSL	
Thickness of Layer (mm)	175	175	
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	1.97	1.96	
Field Moisture Content %	10.4	9.2	
Field Dry Density (FDD) t/m ³	1.78	1.80	
Peak Converted Wet Density t/m ³	**	2.03	
Adjusted Peak Converted Wet Density t/m ³	2.05	**	
Moisture Variation (Wv) %	**	2.0	
Adjusted Moisture Variation %	2.0	**	
Hilf Density Ratio (%)	96.0	96.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-43
Issue Number: 1
Date Issued: 25/06/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10671
Date Sampled: 14/06/2024
Dates Tested: 14/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10671A	S10671B	S10671C
Test Number	169	170	171
Date Tested	14/06/2024	14/06/2024	14/06/2024
Time Tested	10:30	10:40	10:50
Test Request #/Location	Stage 30- Lot 1261	Stage 30- Lot 1262	Stage 30- Lot 1263
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m South, 2m East	8m South, 2m East	8m South, 2m East
Layer / Reduced Level	0.8m Below FSL	0.8m Below FSL	0.8m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.07	2.08	2.04
Field Moisture Content %	10.6	10.5	13.0
Field Dry Density (FDD) t/m ³	1.87	1.88	1.80
Peak Converted Wet Density t/m ³	2.15	2.14	2.13
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.5	1.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	97.0	95.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-52
Issue Number: 1
Date Issued: 10/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10944
Date Sampled: 05/07/2024
Dates Tested: 05/07/2024 - 08/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10944A	S10944B	
Test Number	179	180	
Date Tested	05/07/2024	05/07/2024	
Time Tested	13:35	13:44	
Test Request #/Location	Stage 30, Road	Stage 30, Road	
Line / Offset	O/S SE CNR Northern Roundabout	O/S SE CNR Northern Roundabout	
Offset	30m South, 6m West	40m South, 4m west	
Layer / Reduced Level	1st Layer	1st Layer	
Thickness of Layer (mm)	175	175	
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	7	5	
Field Wet Density (FWD) t/m ³	2.00	2.08	
Field Moisture Content %	19.9	15.1	
Field Dry Density (FDD) t/m ³	1.67	1.81	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.07	2.10	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.0	0.5	
Hilf Density Ratio (%)	96.5	99.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-53
Issue Number: 1
Date Issued: 10/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10955
Date Sampled: 08/07/2024
Dates Tested: 08/07/2024 - 09/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10955A	S10955B	S10955C
Test Number	181	182	183
Date Tested	08/07/2024	08/07/2024	08/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 30, Road	Stage 30, Road	Stage 30, Road
Line / Offset	O/S SE CNR Northern Roundabout	O/S SE CNR Northern Roundabout	O/S SE CNR Northern Roundabout
Offset	25m South, 4m West	30m South, 4m West	35m South, 4m West
Layer / Reduced Level	0.4m Below FSL	0.4m Below FSL	0.4m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.07	2.03	2.07
Field Moisture Content %	10.0	9.5	9.5
Field Dry Density (FDD) t/m ³	1.88	1.85	1.89
Peak Converted Wet Density t/m ³	2.09	2.01	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	101.0	102.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-57
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10973
Date Sampled: 09/07/2024
Dates Tested: 09/07/2024 - 16/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S10973A	S10973B	S10973C
Test Number	184	185	186
Date Tested	09/07/2024	09/07/2024	09/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Road	Road	Road
Line / Offset	O/S SE CNR Northern Roundabout	O/S SE CNR Northern Roundabout	O/S SE CNR Northern Roundabout
Offset	50m South, 5m West	55m South, 5m West	60m South, 5m West
Layer / Reduced Level	0.4m Below Capping FSL	0.4m Below Capping FSL	0.4m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.95	1.92	2.04
Field Moisture Content %	8.6	8.6	10.7
Field Dry Density (FDD) t/m ³	1.79	1.77	1.84
Peak Converted Wet Density t/m ³	2.02	2.01	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.0	4.0	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	95.5	96.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-59
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11003
Date Sampled: 10/07/2024 7:00
Dates Tested: 10/07/2024 - 16/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11003A	S11003B	S11003C
Test Number	187	188	189
Date Tested	10/07/2024	10/07/2024	10/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1296	Stage 31, Lot 1295	Stage 31, Lot 1294
Line / Offset	O/S CNR NW CNR	O/S CNR NW CNR	O/S CNR NW CNR
Offset	10m East, 3m South	10m East, 3m South	14m East, 2m South
Layer / Reduced Level	0.4m Below FSL	0.8m Below FSL	0.4m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.05	2.04
Field Moisture Content %	10.8	12.2	10.9
Field Dry Density (FDD) t/m ³	1.85	1.83	1.84
Peak Converted Wet Density t/m ³	2.12	2.11	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	97.0	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-60
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11072
Date Sampled: 12/07/2024
Dates Tested: 12/07/2024 - 17/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11072A	S11072B	S11072C
Test Number	193	194	195
Date Tested	12/07/2024	12/07/2024	12/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1297	Stage 31, Lot 1297	Stage 31, Lot 1298
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	6m East, 2m North	12m East, 4m North	9m East, 3m North
Layer / Reduced Level	0.4m Below FSL	FSL	0.4m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.03	1.92	1.93
Field Moisture Content %	11.2	8.3	7.4
Field Dry Density (FDD) t/m ³	1.83	1.77	1.80
Peak Converted Wet Density t/m ³	2.11	1.98	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	3.5	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	97.0	95.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-61
Issue Number: 1
Date Issued: 22/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11037
Date Sampled: 11/07/2024
Dates Tested: 11/07/2024 - 18/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11037A	S11037B	S11037C
Test Number	190	191	192
Date Tested	11/07/2024	11/07/2024	11/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1294	Stage 31, Lot 1295	Stage 31, Lot 1296
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	13m East, 3m South	10m East, 2m South	14m East, 3m South
Layer / Reduced Level	FSL Capping	FSL Capping	FSL Capping
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.99	1.93	1.97
Field Moisture Content %	8.0	7.8	9.4
Field Dry Density (FDD) t/m ³	1.85	1.79	1.80
Peak Converted Wet Density t/m ³	2.02	2.01	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.0	4.5	3.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	96.0	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-62
Issue Number: 1
Date Issued: 24/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11168
Date Sampled: 18/07/2024
Dates Tested: 18/07/2024 - 23/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11168A	S11168B	S11168C
Test Number	207	208	209
Date Tested	18/07/2024	18/07/2024	18/07/2024
Time Tested	10:00	10:10	22:02
Test Request #/Location	Stage 31 - Lot 1310	Stage 31 - Lot 1309	Stage 31 - Lot 1308
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	12m East, 3m North	12m East, 3m North	12m East, 3m North
Layer / Reduced Level	0.4m Below Capping FSL	0.4m Below Capping FSL	0.4m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.04	2.04
Field Moisture Content %	6.0	7.0	6.2
Field Dry Density (FDD) t/m ³	1.93	1.91	1.93
Peak Converted Wet Density t/m ³	2.07	2.07	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.5	4.5	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	99.0	98.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-64
Issue Number: 1
Date Issued: 25/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11199
Date Sampled: 19/07/2024
Dates Tested: 19/07/2024 - 24/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11199A	S11199B	S11199C
Test Number	210	211	212
Date Tested	19/07/2024	19/07/2024	19/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31 - Lot 1307	Stage 31- Lot 1306	Stage 31- Lot 1305
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	13m East, 4m North	11m East, 4m North	13m East, 3m North
Layer / Reduced Level	0.4m Below FSL	0.4m Below FSL	0.4m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	2	0
Field Wet Density (FWD) t/m ³	2.06	2.06	2.00
Field Moisture Content %	8.7	8.6	8.9
Field Dry Density (FDD) t/m ³	1.90	1.90	1.84
Peak Converted Wet Density t/m ³	2.11	**	2.05
Adjusted Peak Converted Wet Density t/m ³	**	2.08	**
Moisture Variation (Wv) %	3.0	**	3.0
Adjusted Moisture Variation %	**	3.5	**
Hilf Density Ratio (%)	97.5	99.0	97.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-65
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11092
Date Sampled: 15/07/2024
Dates Tested: 15/07/2024 - 29/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11092A	S11092B	S11092C
Test Number	196	197	198
Date Tested	15/07/2024	15/07/2024	15/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1299	Stage 31, Lot 1300	Stage 31, Lot 1301
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR
Offset	10m East, 4m North	10m East, 3m North	12m East, 4m North
Layer / Reduced Level	0.4m Below FSL	0.4m Below FSL	0.4m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.07	1.98	1.97
Field Moisture Content %	12.8	10.6	8.8
Field Dry Density (FDD) t/m ³	1.83	1.79	1.81
Peak Converted Wet Density t/m ³	2.15	2.08	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.5	1.5	4.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	95.0	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-66
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11113
Date Sampled: 16/07/2024
Dates Tested: 16/07/2024 - 06/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11113A	S11113B	S11113C
Test Number	204	205	206
Date Tested	16/07/2024	16/07/2024	16/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 1444	Lot 1445	Lot 1447
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	10m West, 1m North	10m West, 1m North	4m West, 1m North
Layer / Reduced Level	0.5m Below Subcapping FSL	0.5m Below Subcapping FSL	0.5m Below Subcapping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.99	2.00	1.99
Field Moisture Content %	33.6	18.8	20.9
Field Dry Density (FDD) t/m ³	1.49	1.68	1.65
Peak Converted Wet Density t/m ³	2.05	2.06	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	2.0	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.0	97.0	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-67
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11139
Date Sampled: 17/07/2024
Dates Tested: 17/07/2024 - 26/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S11139A	S11139B	S11139C	S11139D	S11139E
Test Number	199	200	201	202	203
Date Tested	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Time Tested	10:30	10:40	10:50	11:00	11:10
Test Request #/Location	Lot 1441	Road Parallel to Lot 1441	Lot 1485	Lot 1442	Road Parallel to Lot 1442
Line / Offset	O/S NE CNR	O/S NE CNR Lot 1441	O/S SE CNR	O/S NE CNR	O/S NE CNR Lot 1442
Offset	4m South, 2m West	7m South, 3m North	3m North, 2m West	4m South, 2m West	7m South, 3m North
Layer / Reduced Level	1m Below Subcapping FSL	0.4m Below Subcapping FSL	1m Below Subcapping FSL	1m Below Subcapping FSL	0.4m Below Subcapping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.95	1.95	1.94	1.91	2.01
Field Moisture Content %	20.8	20.7	20.6	23.3	22.4
Field Dry Density (FDD) t/m ³	1.62	1.61	1.61	1.55	1.64
Peak Converted Wet Density t/m ³	2.00	2.03	2.03	1.99	1.90
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	-0.5	0.0	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.5	96.0	95.5	96.0	106.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-68
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11305
Date Sampled: 25/07/2024
Dates Tested: 25/07/2024 - 01/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11305A	S11305B	S11305C
Test Number	222	223	224
Date Tested	25/07/2024	25/07/2024	25/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1282	Stage 31, Lot 1283	Stage 31, Lot 1284
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	12m East, 3m North	12m East, 4m North	10m East, 3m North
Layer / Reduced Level	0.4m Below Capping FSL	0.4m Below Capping FSL	0.4m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.12	2.12	1.98
Field Moisture Content %	11.9	11.6	11.6
Field Dry Density (FDD) t/m ³	1.89	1.90	1.78
Peak Converted Wet Density t/m ³	2.14	2.11	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	100.5	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-69
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11318
Date Sampled: 26/07/2024
Dates Tested: 26/07/2024 - 02/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S11318A	S11318B	S11318C	S11318D	S11318E
Test Number	213	214	215	216	217
Date Tested	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Time Tested	08:00	08:10	08:20	11:00	11:10
Test Request #/Location	Stage 31, Lot 1285	Stage 31, Lot 1286	Stage 31, Lot 1287	Internal Road Adjacent Lot 1436	Internal Road Adjacent Lot 1437
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR Lot 1436	O/S NW CNR Lot 1437
Offset	8m South, 2m East	8m South, 2m East	8m South, 2m East	7m East, 2m North	7m East, 2m North
Layer / Reduced Level	0.4m Below Capping FSL	0.4m Below Capping FSL	0.4m Below Capping FSL	1.5m Below Subcapping FSL	2m Below Subcapping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.10	2.01	2.01	1.94	1.95
Field Moisture Content %	10.5	13.2	10.9	10.8	15.6
Field Dry Density (FDD) t/m ³	1.90	1.78	1.81	1.75	1.68
Peak Converted Wet Density t/m ³	2.02	2.10	2.09	2.02	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	3.5	0.0	1.0	4.0	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	103.5	95.5	96.5	96.0	95.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-70
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11349
Date Sampled: 29/07/2024
Dates Tested: 29/07/2024 - 05/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11349A	S11349B	S11349C
Test Number	225	226	227
Date Tested	29/07/2024	29/07/2024	29/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Internal Road Adjacent Lot 1434	Internal Road Adjacent Lot 1433	Internal Road Adjacent Lot 1432
Line / Offset	O/S NW CNR Lot 1434	O/S NW CNR Lot 1433	O/S NW CNR Lot 1432
Offset	7m East, 2m North	7m East, 2m North	7m East, 2m North
Layer / Reduced Level	0.6m Below Subcapping FSL	0.3m Below Subcapping FSL	Subcapping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	5	8
Field Wet Density (FWD) t/m ³	2.05	2.04	2.04
Field Moisture Content %	17.6	18.1	15.6
Field Dry Density (FDD) t/m ³	1.74	1.72	1.76
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.16	2.15	2.14
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.0
Hilf Density Ratio (%)	95.0	95.0	95.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-71
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11390
Date Sampled: 31/07/2024
Dates Tested: 31/07/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-31, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11390A	S11390B	S11390C	S11390D
Test Number	231	232	233	234
Date Tested	31/07/2024	31/07/2024	31/07/2024	31/07/2024
Time Tested	10:00	10:10	10:20	10:30
Test Request #/Location	Road	Road	Road	Road
Line / Offset	O/S NW CNR Lot 1471	O/S NW CNR Lot 1469	O/S NW CNR Lot 1467	O/S NW CNR Lot 1465
Offset	8m North, 2m East	8m North, 2m East	8m North, 2m East	8m North, 2m East
Layer / Reduced Level	FSL Capping	FSL Capping	FSL Capping	FSL Capping
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.12	2.05	2.02	2.02
Field Moisture Content %	11.9	12.3	11.6	10.8
Field Dry Density (FDD) t/m ³	1.90	1.82	1.81	1.82
Peak Converted Wet Density t/m ³	2.09	2.09	2.10	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	101.5	98.0	96.0	97.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-71
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11390
Date Sampled: 31/07/2024
Dates Tested: 31/07/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-31, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11390E	S11390F	S11390G	
Test Number	235	236	237	
Date Tested	31/07/2024	31/07/2024	31/07/2024	
Time Tested	10:40	10:50	16:00	
Test Request #/Location	Stage 30, Lot 1232	Stage 30, Lot 1233	Stage 30, Lot 1231	
Line / Offset	O/S NW CNR	O/S NW CNR	O/S SW CNR	
Offset	8m South, 4m West	8m South, 4m West	6m North, 8m East	
Layer / Reduced Level	0.5m Below Capping FSL	0.5m Below Capping FSL	0.5m Below Capping FSL	
Thickness of Layer (mm)	175	175	175	
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	
Test Depth (mm)	150	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	
Field Wet Density (FWD) t/m ³	1.99	1.93	2.02	
Field Moisture Content %	9.7	9.5	14.3	
Field Dry Density (FDD) t/m ³	1.81	1.76	1.77	
Peak Converted Wet Density t/m ³	2.04	2.03	2.10	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	
Moisture Variation (Wv) %	3.5	4.5	0.0	
Adjusted Moisture Variation %	**	**	**	
Hilf Density Ratio (%)	97.5	95.5	96.5	
Compaction Method	Standard	Standard	Standard	
Report Remarks	**	**	**	

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-72
Issue Number: 1
Date Issued: 14/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11424
Date Sampled: 01/08/2024
Dates Tested: 01/08/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30 - 35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11424A	S11424B	S11424C
Test Number	238	239	240
Date Tested	01/08/2024	01/08/2024	01/08/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1288	Stage 31, Lot 1289	Stage 31, Lot 1290
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m South, 2m East	8m South, 2m East	8m South, 2m East
Layer / Reduced Level	Capping FSL	Capping FSL	Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.01	2.00	2.03
Field Moisture Content %	12.3	10.6	10.6
Field Dry Density (FDD) t/m ³	1.79	1.80	1.83
Peak Converted Wet Density t/m ³	2.10	2.10	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.5	95.0	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-73
Issue Number: 1
Date Issued: 15/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11366
Date Sampled: 30/07/2024
Dates Tested: 30/07/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11366A	S11366B	S11366C
Test Number	228	229	230
Date Tested	30/07/2024	30/07/2024	30/07/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Internal Road, Adjacent Lot 1438	Internal Road, Adjacent Lot 1437	Internal Road, Adjacent Lot 1436
Line / Offset	O/S NW CNR Lot 1438	O/S NW CNR Lot 1437	O/S NW CNR Lot 1436
Offset	15m East, 2m North	10m East, 2m North	8m East, 2m North
Layer / Reduced Level	FSL Subcapping	FSL Subcapping	FSL Subcapping
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.04	2.04	2.12
Field Moisture Content %	19.7	17.0	21.1
Field Dry Density (FDD) t/m ³	1.70	1.74	1.75
Peak Converted Wet Density t/m ³	2.10	2.06	2.13
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	-2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.0	99.0	99.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-74
Issue Number: 1
Date Issued: 15/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11474
Date Sampled: 05/08/2024
Dates Tested: 05/08/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11474A	S11474B	S11474C
Test Number	244	245	246
Date Tested	05/08/2024	05/08/2024	05/08/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1298	Stage 31, Lot 1300	Stage 31, Lot 1302
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	7m South, 3m East	7m South, 3m East	7m South, 3m East
Layer / Reduced Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.96	2.05	2.00
Field Moisture Content %	10.9	12.0	11.4
Field Dry Density (FDD) t/m ³	1.77	1.83	1.80
Peak Converted Wet Density t/m ³	2.05	2.04	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	100.5	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-75
Issue Number: 1
Date Issued: 15/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11532
Date Sampled: 07/08/2024
Dates Tested: 07/08/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S11532A	S11532B	S11532C	S11532D	S11532E
Test Number	247	248	249	250	251
Date Tested	07/08/2024	07/08/2024	07/08/2024	07/08/2024	07/08/2024
Time Tested	10:50	11:00	11:07	12:25	12:35
Test Request #/Location	Stage 31, Lot 1275	Stage 31, Lot 1277	Stage 31, Lot 1279	Road Stage 30	Road Stage 30
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR Lot 1235	O/S NW CNR Lot 1255
Offset	9m East, 2m South	9m East, 2m South	9m East, 2m South	7m North, 1m West	8m North, 1m West
Layer / Reduced Level	0.3m Below Capping FSL	0.3m Below Capping FSL	0.3m Below Capping FSL	0.2m Below Capping FSL	0.2m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.00	1.98	1.99	2.00	2.10
Field Moisture Content %	15.3	11.0	9.5	11.5	11.4
Field Dry Density (FDD) t/m ³	1.74	1.78	1.81	1.80	1.88
Peak Converted Wet Density t/m ³	2.08	2.04	2.05	2.05	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.5	0.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.5	97.0	97.0	97.5	102.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-76
Issue Number: 1
Date Issued: 15/08/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11554
Date Sampled: 08/08/2024
Dates Tested: 08/08/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	S11554A	S11554B	S11554C
Sample Number	S11554A	S11554B	S11554C
Test Number	252	253	254
Date Tested	08/08/2024	08/08/2024	08/08/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1272	Stage 30, Lot 1235	Stage 30, Lot 1233
Line / Offset	O/S NW CNR	O/S SW CNR	O/S SW CNR
Offset	9m South, 2m East	8m North, 3m East	11m North, 3m East
Layer / Reduced Level	0.2m Below Capping FSL	0.2m Below Capping FSL	0.2m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.96	1.94	1.96
Field Moisture Content %	7.4	9.5	9.3
Field Dry Density (FDD) t/m ³	1.83	1.77	1.79
Peak Converted Wet Density t/m ³	2.01	2.02	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.0	4.5	4.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.5	96.0	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-77
Issue Number: 1
Date Issued: 19/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11457
Date Sampled: 02/08/2024
Dates Tested: 02/08/2024 - 12/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11457A	S11457B	S11457C
Test Number	241	242	243
Date Tested	02/08/2024	02/08/2024	02/08/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 31, Lot 1309	Stage 31, Lot 1306	Stage 31, Lot 1304
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m South, 2m East	8m South, 2m East	8m South, 2m East
Layer / Reduced Level	0.2m Below Capping FSL	0.2m Below Capping FSL	0.2m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.00	1.92	2.00
Field Moisture Content %	16.0	16.0	11.7
Field Dry Density (FDD) t/m ³	1.73	1.65	1.79
Peak Converted Wet Density t/m ³	2.07	1.95	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.5	2.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.0	98.5	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-78
Issue Number: 1
Date Issued: 22/08/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11507
Date Sampled: 06/08/2024
Dates Tested: 06/08/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11507A	S11507B	S11507C	S11507D
Test Number	222	223	224	225
Date Tested	06/08/2024	06/08/2024	06/08/2024	06/08/2024
Time Tested	12:50	13:00	13:10	13:20
Test Request #/Location	Stage 31 - Lot 1279	Stage 31 - 1278	Stage 31 - 1274	Stage 31 - 1275
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	7m East, 2m South	8m East, 3m South	9m East, 1m South	8m East, 1m South
Layer / Reduced Level	0.5m Below Capping FSL	0.5m Below Capping FSL	0.5m Below Capping FSL	0.5m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	**	0
Field Wet Density (FWD) t/m ³	2.14	2.09	2.15	2.05
Field Moisture Content %	8.7	12.2	11.7	10.6
Field Dry Density (FDD) t/m ³	1.97	1.86	1.92	1.85
Peak Converted Wet Density t/m ³	2.10	2.14	2.09	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	-0.5	0.0	1.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	101.5	97.5	102.5	97.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-79
Issue Number: 1
Date Issued: 02/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11696
Date Sampled: 22/08/2024
Dates Tested: 22/08/2024 - 30/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11696A	S11696B	S11696C
Test Number	255	256	257
Date Tested	22/08/2024	22/08/2024	22/08/2024
Time Tested	07:00	07:10	07:20
Test Request #/Location	Stage 30, Lot 1246	Stage 30, Lot 1254	Stage 30, Lot 1244
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m South, 2m East	8m South, 2m East	8m South, 2m East
Layer / Reduced Level	Capping FSL	Capping FSL	Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.03	2.04
Field Moisture Content %	12.2	12.3	12.2
Field Dry Density (FDD) t/m ³	1.80	1.81	1.82
Peak Converted Wet Density t/m ³	2.09	2.04	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.0	99.5	96.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-80
Issue Number: 1
Date Issued: 02/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11643
Date Sampled: 20/08/2024
Dates Tested: 20/08/2024 - 30/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11643A	S11643B	S11643C
Test Number	226	227	228
Date Tested	20/08/2024	20/08/2024	20/08/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Stage 30, Lot 1260	Stage 30, Lot 1261	Stage 30, Lot 1262
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	8m South, 3m West	8m South, 3m West	8m South, 3m West
Layer / Reduced Level	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.04	2.03	2.10
Field Moisture Content %	12.3	13.2	11.6
Field Dry Density (FDD) t/m ³	1.82	1.79	1.88
Peak Converted Wet Density t/m ³	2.07	2.12	2.13
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.5	95.5	98.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-81
Issue Number: 1
Date Issued: 02/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11670
Date Sampled: 21/08/2024
Dates Tested: 21/08/2024 - 30/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11670A	S11670B	S11670C	S11670D
Test Number	229	230	231	232
Date Tested	21/08/2024	21/08/2024	21/08/2024	21/08/2024
Time Tested	07:30	07:40	07:50	13:10
Test Request #/Location	Lot 1479	Stage 30, Lot 1263	Stage 30, Lot 1264	Stage 30, Lot 1265
Line / Offset	O/S NW CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	6m East, 4m South	6m South, 4m West	6m South, 4m West	6m South, 4m West
Layer / Reduced Level	2m Below SubCapping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy Clay, Brown	Sandy Clay, Brown	Sandy Clay, Brown	Sandy Clay, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	1	0	0	0
Field Wet Density (FWD) t/m ³	2.03	2.10	2.11	2.02
Field Moisture Content %	15.7	14.6	13.1	11.8
Field Dry Density (FDD) t/m ³	1.76	1.84	1.87	1.81
Peak Converted Wet Density t/m ³	**	2.13	2.15	2.12
Adjusted Peak Converted Wet Density t/m ³	2.02	**	**	**
Moisture Variation (Wv) %	**	-1.0	0.0	-0.5
Adjusted Moisture Variation %	0.0	**	**	**
Hilf Density Ratio (%)	100.5	99.0	98.0	95.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-82
Issue Number: 1
Date Issued: 05/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11759
Date Sampled: 26/08/2024
Dates Tested: 26/08/2024 - 03/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 96% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11759A	S11759B	S11759C	S11759D
Test Number	258	259	260	261
Date Tested	26/08/2024	26/08/2024	26/08/2024	26/08/2024
Time Tested	07:05	07:10	07:20	07:30
Test Request #/Location	Stage 30, Lot 1246	Stage 30, Lot 1245	Stage 30, Lot 1244	Stage 30, Lot 1243
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	8m South, 3m West	8m South, 3m West	8m South, 3m West	8m South, 3m West
Layer / Reduced Level	0.5m Below Capping FSL	0.5m Below Capping FSL	0.5m Below Capping FSL	0.5m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.18	2.01	2.14	2.03
Field Moisture Content %	8.5	7.1	7.2	13.0
Field Dry Density (FDD) t/m ³	2.01	1.88	2.00	1.80
Peak Converted Wet Density t/m ³	2.07	2.04	2.03	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.5	4.5	3.5	3.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	105.0	98.5	105.5	100.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-82
Issue Number: 1
Date Issued: 05/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11759
Date Sampled: 26/08/2024
Dates Tested: 26/08/2024 - 03/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 96% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11759E	S11759F	S11759G	S11759H
Test Number	262	263	264	265
Date Tested	26/08/2024	26/08/2024	26/08/2024	26/08/2024
Time Tested	07:40	07:50	07:55	08:00
Test Request #/Location	Stage 30, Lot 1242	Stage 30, Lot 1241	Stage 30, Road Adjacent to Lot 1245	Stage 30, Road Adjacent to Lot 1234
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR Lot 1245	O/S SE CNR Lot 1234
Offset	8m South, 3m West	8m South, 3m West	10m East, 2m North	10m East, 1m North
Layer / Reduced Level	0.5m Below Capping FSL	0.5m Below Capping FSL	0.3m Below Capping FSL	0.3m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.07	2.10	2.16	2.10
Field Moisture Content %	7.0	5.3	8.7	7.1
Field Dry Density (FDD) t/m ³	1.94	1.99	1.99	1.96
Peak Converted Wet Density t/m ³	2.03	2.12	2.05	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	4.5	-0.5	3.5	4.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	102.0	99.0	105.5	102.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-83
Issue Number: 1
Date Issued: 09/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11871
Date Sampled: 29/08/2024
Dates Tested: 29/08/2024 - 06/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S11871A	S11871B	S11871C	S11871D	S11871E
Test Number	271	272	273	274	275
Date Tested	29/08/2024	29/08/2024	29/08/2024	29/08/2024	29/08/2024
Time Tested	09:30	09:40	10:00	10:10	10:20
Test Request #/Location	Lot 1463	Lot 1462	Lot 1461	Lot 1472	Lot 1471
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	15m South, 7m West	15m South, 7m West	15m South, 7m West	8m South, 4m West	8m South, 4m West
Layer / Reduced Level	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL	0.3m Below Capping FSL	0.3m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.99	1.99	2.01	2.02	2.04
Field Moisture Content %	10.6	8.7	10.7	11.9	9.2
Field Dry Density (FDD) t/m ³	1.80	1.83	1.82	1.81	1.87
Peak Converted Wet Density t/m ³	2.06	2.02	2.08	2.10	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	2.5	0.5	1.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.5	98.5	96.5	96.0	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-83
Issue Number: 1
Date Issued: 09/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11871
Date Sampled: 29/08/2024
Dates Tested: 29/08/2024 - 06/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S11871F	S11871G	S11871H	S11871I	S11871J
Test Number	276	277	278	279	280
Date Tested	29/08/2024	29/08/2024	29/08/2024	29/08/2024	29/08/2024
Time Tested	10:30	10:40	10:45	10:50	10:55
Test Request #/Location	Lot 1470	Road Adjacent to Lot 1479	Road Adjacent to Lot 1480	Lot 1481	Lot 1482
Line / Offset	O/S NE CNR	O/S SE CNR Lot 1479	O/S SE CNR Lot 1480	O/S NW CNR	O/S NW CNR
Offset	8m South, 4m West	8m South, 2m East	8m South, 2m East	10m South, 3m East	10m South, 3m East
Layer / Reduced Level	0.3m Below Capping FSL	0.3m Below SubCapping FSL	0.6m Below SubCapping FSL	1.2m Below SubCapping FSL	1.7m Below SubCapping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.04	2.03	2.08	2.14	2.10
Field Moisture Content %	11.6	16.6	13.6	13.9	14.4
Field Dry Density (FDD) t/m ³	1.83	1.74	1.83	1.88	1.84
Peak Converted Wet Density t/m ³	2.12	2.07	2.05	2.05	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	1.0	2.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.0	98.0	101.5	104.0	102.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-85
Issue Number: 1
Date Issued: 13/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11834
Date Sampled: 28/08/2024
Dates Tested: 28/08/2024 - 10/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S11834A	S11834B	S11834C	S11834D	S11834E
Test Number	266	267	268	269	270
Date Tested	28/08/2024	28/08/2024	28/08/2024	28/08/2024	28/08/2024
Time Tested	10:30	10:40	10:50	11:00	11:10
Test Request #/Location	Lot 1464	Lot 1465	Lot 1466	Lot 1467	Lot 1468
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	10m South, 5m West	17m South, 3m West	10m South, 5m West	10m South, 5m West	8m South, 4m West
Layer / Reduced Level	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.08	2.08	2.00	2.00	1.99
Field Moisture Content %	11.3	12.0	10.7	10.5	9.6
Field Dry Density (FDD) t/m ³	1.87	1.86	1.81	1.81	1.82
Peak Converted Wet Density t/m ³	2.05	2.11	2.10	2.09	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.0	0.5	1.5	2.0	3.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.5	98.5	95.5	95.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-86
Issue Number: 1
Date Issued: 13/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11902
Date Sampled: 30/08/2024
Dates Tested: 30/08/2024 - 10/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11902A	S11902B	S11902C	S11902D
Test Number	281	282	283	284
Date Tested	30/08/2024	30/08/2024	30/08/2024	30/08/2024
Time Tested	07:50	08:00	08:10	08:20
Test Request #/Location	Lot 1508	Lot 1474	Lot 1473	Lot 1472
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	8m South, 4m West	14m South, 4m West	8m South, 4m West	5m South, 5m West
Layer / Reduced Level	0.3m Below Capping FSL	0.3m Below Capping FSL	0.3m Below Capping FSL	0.3m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.04	2.02	2.06	2.04
Field Moisture Content %	8.4	9.9	11.2	11.0
Field Dry Density (FDD) t/m ³	1.89	1.84	1.85	1.84
Peak Converted Wet Density t/m ³	2.04	2.05	2.07	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.5	99.0	99.5	99.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-86
Issue Number: 1
Date Issued: 13/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11902
Date Sampled: 30/08/2024
Dates Tested: 30/08/2024 - 10/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S11902E	S11902F	S11902G	S11902H
Test Number	285	286	287	288
Date Tested	30/08/2024	30/08/2024	30/08/2024	30/08/2024
Time Tested	08:30	08:40	13:10	13:20
Test Request #/Location	Lot 1471	Lot 1470	Lot 1486	Lot 1484
Line / Offset	O/S NE CNR	O/S NE CNR	O/S SE CNR	O/S SE CNR
Offset	8m South, 4m West	8m South, 3m West	6m North, 2m West	6m North, 2m West
Layer / Reduced Level	0.3m Below Capping FSL	0.3m Below Capping FSL	2m Below Capping FSL	1.5m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.04	2.01	2.03	2.03
Field Moisture Content %	10.3	12.3	19.0	17.0
Field Dry Density (FDD) t/m ³	1.85	1.79	1.70	1.73
Peak Converted Wet Density t/m ³	2.03	2.05	2.05	2.09
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.5	98.0	99.0	97.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-87
Issue Number: 1
Date Issued: 16/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11949
Date Sampled: 03/09/2024
Dates Tested: 03/09/2024 - 12/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	S11949A	S11949B	S11949C	S11949D	S11949E	S11949F
Test Number	292	293	294	295	296	297
Date Tested	03/09/2024	03/09/2024	03/09/2024	03/09/2024	03/09/2024	03/09/2024
Time Tested	08:00	08:10	08:20	10:30	10:40	10:50
Test Request #/Location	Lot 1467	Lot 1468	Lot 1469	Lot 1432	Lot 1433	Lot 1434
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	10m South, 3m West	10m South, 3m West	10m South, 3m West	4m South, 8m West	4m South, 8m West	4m South, 8m West
Layer / Reduced Level	Capping FSL	Capping FSL	Capping FSL	0.6m Below FSL	0.6m Below FSL	0.6m Below FSL
Thickness of Layer (mm)	175	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.98	1.99	1.99	2.06	2.05	2.00
Field Moisture Content %	9.4	8.2	8.2	12.0	11.9	11.1
Field Dry Density (FDD) t/m ³	1.81	1.84	1.84	1.84	1.83	1.80
Peak Converted Wet Density t/m ³	2.04	2.03	2.01	2.10	2.07	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	3.5	4.0	5.0	0.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	97.0	98.5	99.0	98.0	99.0	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-88
Issue Number: 1
Date Issued: 16/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11978
Date Sampled: 04/09/2024
Dates Tested: 04/09/2024 - 12/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	S11978A	S11978B	S11978C	S11978D	S11978E	S11978F
Test Number	298	299	300	301	302	303
Date Tested	04/09/2024	04/09/2024	04/09/2024	04/09/2024	04/09/2024	04/09/2024
Time Tested	07:30	07:30	07:40	08:40	08:50	09:00
Test Request #/Location	Lot 1435	Lot 1436	Lot 1437	Road Adjacent 1446	Lot 1479	Lot 1480
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S SW CNR Lot 1446	O/S SE CNR	O/S SE CNR
Offset	7m South, 3m West	7m South, 3m West	7m South, 3m West	8m West, 2m East	4m North, 1m West	4m North, 1m West
Layer / Reduced Level	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL	SubCapping FSL	SubCapping FSL	SubCapping FSL
Thickness of Layer (mm)	175	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.06	2.05	2.03	1.96	1.96
Field Moisture Content %	9.4	11.2	10.9	14.3	17.9	16.7
Field Dry Density (FDD) t/m ³	1.85	1.85	1.85	1.77	1.66	1.68
Peak Converted Wet Density t/m ³	2.10	2.09	2.12	1.96	1.97	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	1.5	3.0	2.5	3.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	96.5	98.5	96.5	103.0	99.5	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-89
Issue Number: 1
Date Issued: 18/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12086
Date Sampled: 09/09/2024
Dates Tested: 09/09/2024 - 17/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12086A	S12086B	S12086C
Test Number	314	315	316
Date Tested	09/09/2024	09/09/2024	09/09/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 1457	Lot 1458	Lot 1459
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	10m South, 4m South	10m South, 4m South	10m South, 4m South
Layer / Reduced Level	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.19	2.12	2.06
Field Moisture Content %	9.4	10.6	9.5
Field Dry Density (FDD) t/m ³	2.00	1.92	1.88
Peak Converted Wet Density t/m ³	2.05	2.08	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	1.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	106.5	102.5	101.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-90
Issue Number: 1
Date Issued: 18/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12140
Date Sampled: 11/09/2024
Dates Tested: 11/09/2024 - 17/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stagesn30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12140A	S12140B	S12140C
Test Number	304	305	306
Date Tested	11/09/2024	11/09/2024	11/09/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 1479	Lot 1480	Lot 1481
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	8m South, 3m East	8m South, 3m East	8m South, 3m East
Layer / Reduced Level	1m Below SubCapping FSL	2m Below SubCapping FSL	2.5m Below SubCapping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.07	2.01	2.02
Field Moisture Content %	14.3	13.9	15.9
Field Dry Density (FDD) t/m ³	1.81	1.77	1.74
Peak Converted Wet Density t/m ³	2.09	2.07	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	97.0	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-92
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11923
Date Sampled: 02/09/2024
Dates Tested: 02/09/2024 - 16/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S11923A	S11923B	S11923C
Test Number	289	290	291
Date Tested	02/09/2024	02/09/2024	02/09/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 1470	Lot 1471	Lot 1472
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	9m South, 4m West	9m South, 4m West	9m South, 4m West
Layer / Reduced Level	Capping FSL	Capping FSL	Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.94	1.93	2.04
Field Moisture Content %	9.1	8.5	7.0
Field Dry Density (FDD) t/m ³	1.78	1.78	1.91
Peak Converted Wet Density t/m ³	2.01	2.01	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	3.5	4.0	5.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	96.0	102.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-96
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12175
Date Sampled: 12/09/2024
Dates Tested: 12/09/2024 - 19/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stagesn30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	S12175A	S12175B	S12175C	S12175D
Test Number	307	308	309	310
Date Tested	12/09/2024	12/09/2024	12/09/2024	12/09/2024
Time Tested	10:00	10:10	10:20	10:30
Test Request #/Location	Lot 1478	Lot 1478	Lot 1477	Lot 1483
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NW CNR
Offset	4m South, 4m West	2m South, 9m West	4m South, 5m West	10m South, 4m East
Layer / Reduced Level	0.6m Below SubCapping FSL	0.3m Below SubCapping FSL	SubCapping FSL	2.5m Below SubCapping FSL
Thickness of Layer (mm)	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.05	2.08	2.06
Field Moisture Content %	15.6	15.7	11.8	13.7
Field Dry Density (FDD) t/m ³	1.75	1.77	1.86	1.81
Peak Converted Wet Density t/m ³	2.13	2.12	2.19	2.15
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	95.0	96.5	95.0	96.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-97
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12206
Date Sampled: 13/09/2024
Dates Tested: 13/09/2024 - 19/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12206A	S12206B	S12206C
Test Number	311	312	313
Date Tested	13/09/2024	13/09/2024	13/09/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 1508	Lot 1474	Lot 1473
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	12m South, 4m West	12m South, 4m West	12m South, 4m West
Layer / Reduced Level	Capping FSL	Capping FSL	Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY! Brown	Sandy CLAY! Brown	Sandy CLAY! Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	1.98	1.99	2.09
Field Moisture Content %	9.7	10.5	11.5
Field Dry Density (FDD) t/m ³	1.81	1.80	1.88
Peak Converted Wet Density t/m ³	2.04	2.07	2.16
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	3.5	2.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.0	96.0	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-98
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12222
Date Sampled: 16/09/2024
Dates Tested: 16/09/2024 - 20/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-31, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12222A	S12222B	S12222C
Test Number	317	318	319
Date Tested	16/09/2024	16/09/2024	16/09/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 1478	Lot 1478	Lot 1505
Line / Offset	O/S NE CNR	O/S SE CNR	O/S SE CNR
Offset	8m West, 2m East	6m North, 3m West	8m West, 1m North
Layer / Reduced Level	0.5m Below SubCapping FSL	0.2m Below SubCapping FSL	0.5m Below SubCapping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	2.00	2.05	2.04
Field Moisture Content %	13.0	12.3	14.3
Field Dry Density (FDD) t/m ³	1.77	1.82	1.79
Peak Converted Wet Density t/m ³	1.99	2.15	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	3.0	1.0	3.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	95.0	101.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-99
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12257
Date Sampled: 17/09/2024
Dates Tested: 17/09/2024 - 20/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12257A	S12257B	S12257C
Test Number	320	321	322
Date Tested	17/09/2024	17/09/2024	17/09/2024
Time Tested	10:30	10:40	10:50
Test Request #/Location	Lot 1481	Lot 1482	Lot 1483
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR
Offset	11m South, 3m East	10m South, 2m East	11m South, 3m East
Layer / Reduced Level	0.5m Below SubCapping FSL	0.5m Below SubCapping FSL	0.5m Below SubCapping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.01	2.05	2.00
Field Moisture Content %	14.6	16.0	19.3
Field Dry Density (FDD) t/m ³	1.75	1.76	1.68
Peak Converted Wet Density t/m ³	1.86	1.99	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	6.0	3.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	108.0	103.0	100.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-100
Issue Number: 1
Date Issued: 25/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12314
Date Sampled: 19/09/2024
Dates Tested: 19/09/2024 - 24/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12314A	S12314B	S12314C	S12314D	S12314E
Test Number	323	324	325	326	327
Date Tested	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024
Time Tested	10:10	10:20	10:30	14:00	14:10
Test Request #/Location	Lot 1428	Lot 1429	Lot 1440	Lot 1449	Lot 1450
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S SW CNR	O/S SW CNR
Offset	8m East, 2m South	8m East, 2m South	5m South, 2m East	8m North, 1m East	8m North, 1m East
Layer / Reduced Level	SubCapping FSL	SubCapping FSL	SubCapping FSL	0.7m Below Capping FSL	0.7m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.99	2.01	1.90	2.06	2.08
Field Moisture Content %	11.9	16.5	15.1	12.0	14.2
Field Dry Density (FDD) t/m ³	1.78	1.73	1.66	1.84	1.82
Peak Converted Wet Density t/m ³	1.94	2.02	1.91	2.07	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	5.5	1.5	3.5	1.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	102.5	99.5	99.5	100.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-101
Issue Number: 1
Date Issued: 25/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12350
Date Sampled: 20/09/2024
Dates Tested: 20/09/2024 - 24/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12350A	S12350B	S12350C	S12350D	S12350E
Test Number	328	329	330	331	332
Date Tested	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Lot 1448	Lot 1447	Lot 1446	Lot 1445	Lot 1444
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	10m South, 4m East	7m South, 1m East	7m South, 1m East	10m South, 2m East	10m South, 2m East
Layer / Reduced Level	0.4m Below Capping FSL	0.4m Below Capping FSL	0.7m Below Capping FSL	0.7m Below Capping FSL	0.7m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.06	2.05	2.03	2.06	2.02
Field Moisture Content %	12.4	12.1	12.8	15.4	12.5
Field Dry Density (FDD) t/m ³	1.83	1.83	1.80	1.78	1.80
Peak Converted Wet Density t/m ³	2.08	2.07	2.04	2.09	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	1.0	1.5	0.0	1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.0	99.5	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-102
Issue Number: 1
Date Issued: 03/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12366
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 02/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12366A	S12366B	S12366C	S12366D	S12366E
Test Number	333	334	335	336	337
Date Tested	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Lot 1475	Lot 1476	Lot 1448	Lot 1449	Lot 1447
Line / Offset	O/S SW CNR	O/S SW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	15m East, 2m North	8m East, 1m North	12m South, 3m East	5m South, 1m East	8m South, 1m East
Layer / Reduced Level	0.7m Below Capping FSL	0.7m Below Capping FSL	Capping FSL	Capping FSL	Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.00	2.00	1.99	1.94	1.99
Field Moisture Content %	10.4	11.0	9.7	10.1	7.0
Field Dry Density (FDD) t/m ³	1.81	1.80	1.82	1.76	1.86
Peak Converted Wet Density t/m ³	2.05	2.06	2.00	2.03	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	3.5	2.5	3.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.5	97.0	99.5	95.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-103
Issue Number: 1
Date Issued: 03/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12397
Date Sampled: 24/09/2024
Dates Tested: 24/09/2024 - 27/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12397A	S12397B	S12397C	S12397D	S12397E
Test Number	338	339	340	341	342
Date Tested	24/09/2024	24/09/2024	24/09/2024	24/09/2024	24/09/2024
Time Tested	09:30	09:40	09:50	10:00	10:10
Test Request #/Location	Lot 1460	Lot 1461	Lot 1456	Lot 1454	Lot 1453
Line / Offset	O/S SW CNR	O/S SW CNR	O/S SW CNR	O/S NE CNR	O/S NE CNR
Offset	8m East, 2m North	8m East, 2m North	8m East, 2m North	10m South, 3m West	10m South, 3m West
Layer / Reduced Level	0.2m Below Capping FSL	0.2m Below Capping FSL	0.2m Below Capping FSL	Capping FSL	Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.04	2.04	2.04	2.03
Field Moisture Content %	10.1	12.9	9.8	8.5	10.7
Field Dry Density (FDD) t/m ³	1.83	1.81	1.86	1.88	1.83
Peak Converted Wet Density t/m ³	2.03	2.07	2.02	1.97	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	0.5	2.0	2.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	98.5	100.5	103.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-104
Issue Number: 1
Date Issued: 08/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12456
Date Sampled: 26/09/2024
Dates Tested: 26/09/2024 - 27/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Greg Gibson
ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12456A	S12456B	S12456C	S12456D	S12456E
Test Number	348	349	350	351	352
Date Tested	26/09/2024	26/09/2024	26/09/2024	26/09/2024	26/09/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Lot 1441	Lot 1442	Road Adjacent to Lot 1479	Road Adjacent to Lot 1480	Road Adjacent to Lot 1481
Line / Offset	O/S NE CNR	O/S NE CNR	O/S SE CNR Lot 1479	O/S SE CNR Lot 1480	O/S SE CNR Lot 1481
Offset	8m South, 2m West	8m South, 2m West	8m South, 2m East	8m South, 2m East	8m South, 2m East
Layer / Reduced Level	Capping FSL	Capping FSL	0.2m Below Capping FSL	0.2m Below Capping FSL	0.2m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.03	2.09	1.97	1.97
Field Moisture Content %	7.8	13.0	7.6	12.2	12.1
Field Dry Density (FDD) t/m ³	1.88	1.80	1.94	1.76	1.75
Peak Converted Wet Density t/m ³	1.97	2.01	1.98	2.01	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	4.5	2.5	4.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	103.0	101.0	106.0	98.0	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-105
Issue Number: 1
Date Issued: 08/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12422
Date Sampled: 25/09/2024
Dates Tested: 25/09/2024 - 30/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12422A	S12422B	S12422C	S12422D	S12422E
Test Number	343	344	345	346	347
Date Tested	25/09/2024	25/09/2024	25/09/2024	25/09/2024	25/09/2024
Time Tested	08:00	08:10	08:20	08:30	08:40
Test Request #/Location	Lot 1505	Lot 1506	Lot 1507	Lot 1452	Lot 1451
Line / Offset	O/S NE CNR	O/S NE CNR	O/S NE CNR	O/S NW CNR	O/S NW CNR
Offset	6m South, 2m West	11m South, 3m West	7m South, 1m West	10m South, 3m East	10m South, 3m East
Layer / Reduced Level	SubCapping FSL	SubCapping FSL	SubCapping FSL	Capping FSL	Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.00	1.94	2.01	2.09
Field Moisture Content %	13.5	15.2	14.6	14.4	11.2
Field Dry Density (FDD) t/m ³	1.78	1.74	1.69	1.76	1.88
Peak Converted Wet Density t/m ³	1.90	1.90	1.90	2.10	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	3.0	3.0	3.0	0.0	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	106.5	105.0	102.0	95.5	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-106
Issue Number: 1
Date Issued: 09/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12513
Date Sampled: 01/10/2024
Dates Tested: 01/10/2024 - 04/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite capping



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NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12513A	S12513B	S12513C	S12513D	S12513E
Test Number	353	354	355	356	357
Date Tested	01/10/2024	01/10/2024	01/10/2024	01/10/2024	01/10/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Lot 1480	Lot 1481	Lot 1482	Lot 1483	Lot 1484
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	7m North, 5m West	7m North, 5m West	7m North, 5m West	7m North, 5m West	7m North, 5m West
Layer / Reduced Level	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL	0.6m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.03	2.02	2.10	2.01
Field Moisture Content %	12.4	12.6	12.0	12.5	12.1
Field Dry Density (FDD) t/m ³	1.82	1.80	1.80	1.87	1.79
Peak Converted Wet Density t/m ³	2.09	2.09	2.12	2.09	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	97.0	95.5	100.5	95.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-110
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12564
Date Sampled: 03/10/2024
Dates Tested: 03/10/2024 - 04/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12564A	S12564B	S12564C	S12564D	S12564E
Test Number	361	362	363	364	365
Date Tested	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
Time Tested	09:20	09:30	09:40	09:40	09:50
Test Request #/Location	Lot 1483	Lot 1482	Lot 1481	Lot 1480	Lot 1479
Line / Offset	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR	O/S SE CNR
Offset	10m North, 4m West	10m North, 4m West	10m North, 4m West	10m North, 4m West	10m North, 4m West
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.06	2.06	2.05	2.05
Field Moisture Content %	10.7	10.5	11.0	10.6	10.9
Field Dry Density (FDD) t/m ³	1.85	1.86	1.86	1.86	1.85
Peak Converted Wet Density t/m ³	2.08	2.08	2.07	2.09	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	2.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.0	99.5	98.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-111
Issue Number: 1
Date Issued: 16/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12542
Date Sampled: 02/10/2024
Dates Tested: 02/10/2024 - 04/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12542A	S12542B	S12542C
Test Number	358	359	360
Date Tested	02/10/2024	02/10/2024	02/10/2024
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 1479	Lot 1479	ROAD Adjacent to Lot 1479
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR Lot 1479
Offset	8m South, 2m East	9m South, 4m East	10m South, 3m East
Layer / Reduced Level	0.7m Below Capping FSL	0.4m Below Capping FSL	0.2m Below Capping FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.00	2.02
Field Moisture Content %	9.5	9.7	9.3
Field Dry Density (FDD) t/m ³	1.87	1.82	1.85
Peak Converted Wet Density t/m ³	2.06	2.06	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	2.5	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	97.0	98.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-112
Issue Number: 1
Date Issued: 16/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12616
Date Sampled: 08/10/2024
Dates Tested: 08/10/2024 - 09/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	S12616A	S12616B	S12616C	S12616D	S12616E
Test Number	366	367	368	369	370
Date Tested	08/10/2024	08/10/2024	08/10/2024	08/10/2024	08/10/2024
Time Tested	10:00	10:10	10:20	10:30	10:40
Test Request #/Location	Lot 1440	Lot 1440	Lot1454	Lot 1454	Lot 1441
Line / Offset	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR	O/S NW CNR
Offset	10m South, 2m East	7m South, 3m East	10m South, 2m East	7m South, 3m East	10m South, 2m East
Layer / Reduced Level	0.7m Below Capping FSL	0.4m Below Capping FSL	0.7m Below Capping FSL	0.4m Below Capping FSL	0.7m Below Capping FSL
Thickness of Layer (mm)	175	175	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.04	2.02	2.03	2.02	2.04
Field Moisture Content %	14.8	15.1	14.9	15.1	14.9
Field Dry Density (FDD) t/m ³	1.78	1.76	1.76	1.76	1.78
Peak Converted Wet Density t/m ³	2.11	2.11	2.10	2.11	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.0	96.0	96.5	95.5	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: 24-081-120
Issue Number: 1
Date Issued: 25/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12789
Date Sampled: 21/10/2024
Dates Tested: 21/10/2024 - 23/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12789A	S12789B	S12789C
Test Number	371	372	373
Date Tested	21/10/2024	21/10/2024	21/10/2024
Time Tested	13:00	13:10	13:20
Test Request #/Location	Road	Road	Road
Line / Offset	O/S NE CNR Lot 1431	O/S NE CNR Lot 1430	O/S NE CNR Lot 1429
Offset	8m East, 2m North	8m East, 2m North	8m East, 2m North
Layer / Reduced Level	FSL	0.2m Below FSL	FSL
Thickness of Layer (mm)	175	175	175
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	Sandy CLAY, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.11	2.08	2.08
Field Moisture Content %	10.6	9.3	9.1
Field Dry Density (FDD) t/m ³	1.91	1.90	1.91
Peak Converted Wet Density t/m ³	2.10	2.09	2.09
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.0	1.0	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	99.5	100.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 24-081-121
Issue Number: 1
Date Issued: 06/11/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12935
Date Sampled: 25/10/2024
Dates Tested: 25/10/2024 - 28/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stages 30-35, Ipswich
Material: General Fill
Material Source: Onsite Capping



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ql-greg

NATA Accredited Laboratory Number: 2316

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	S12935A	S12935B	
Test Number	374	375	
Date Tested	25/10/2024	25/10/2024	
Time Tested	11:00	11:10	
Test Request #/Location	Lot 1501	Lot 1506	
Line / Offset	O/S NE CNR	O/S NE CNR	
Offset	8m South, 2m West	8m South, 2m West	
Layer / Reduced Level	0.5m Below Capping FSL	0.5m Below Capping FSL	
Thickness of Layer (mm)	175	175	
Soil Description	Sandy CLAY, Brown	Sandy CLAY, Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.09	2.12	
Field Moisture Content %	11.1	11.8	
Field Dry Density (FDD) t/m ³	1.88	1.89	
Peak Converted Wet Density t/m ³	2.09	2.10	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	0.5	0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	100.0	101.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

APPENDIX C

Capping Qualities



Qualtest Laboratory

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Material Test Report

Report Number: 24-081-32
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Removed shrink swell result - to be reported on separate report
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10234
Sample Number: S10234A
Date Sampled: 23/05/2024
Dates Tested: 23/05/2024 - 14/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1234 Line / Offset: O/S NW, Offset: 8m South, 3m East, Depth: 0.5m Below FSL
Material: Sandstone Capping
Material Source: Onsite



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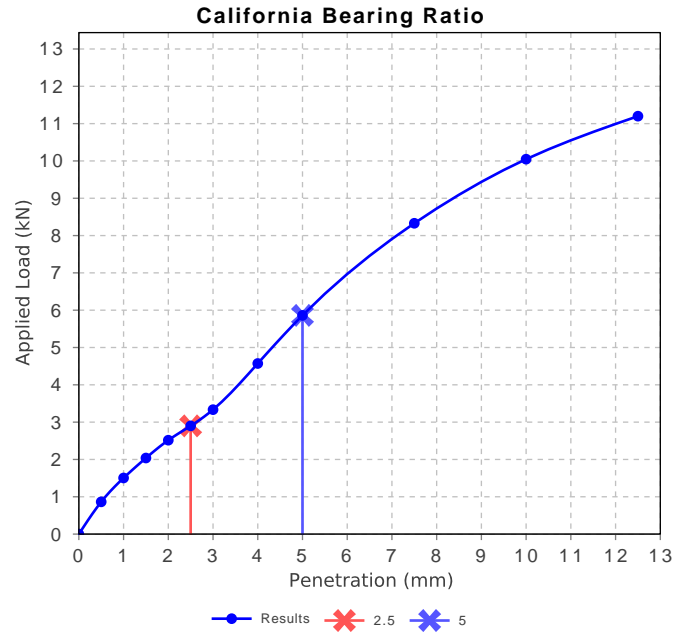


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.81		
Optimum Moisture Content (%)	11.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m ³)	1.82		
Field Moisture Content (%)	11.2		
Moisture Content at Placement (%)	11.1		
Moisture Content Top 30mm (%)	14.1		
Moisture Content Rest of Sample (%)	13.8		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	72.6		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-32
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Removed shrink swell result - to be reported on separate report
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10234
Sample Number: S10234A
Date Sampled: 23/05/2024
Dates Tested: 23/05/2024 - 03/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1234 Line / Offset: O/S NW, Offset: 8m South, 3m East, Depth: 0.5m Below FSL
Material: Sandstone Capping
Material Source: Onsite



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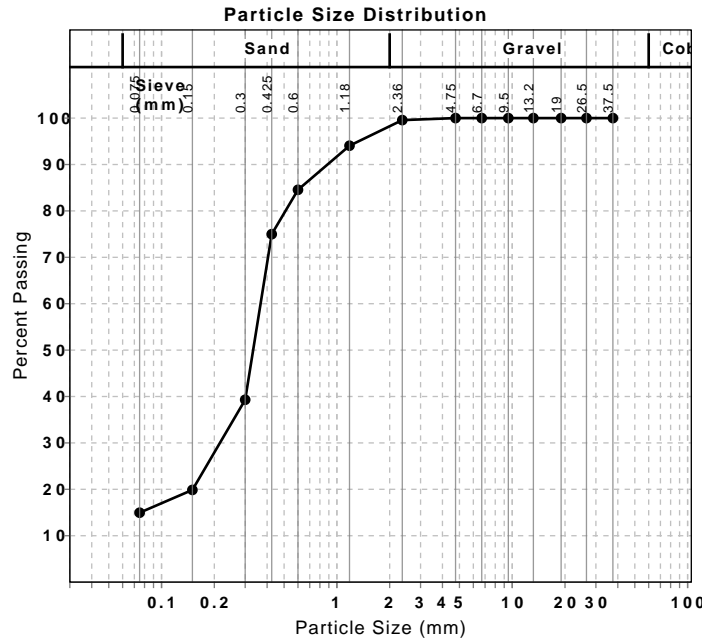


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
37.5 mm	100		0	
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	100		0	
1.18 mm	94		6	
0.6 mm	85		10	
0.425 mm	75		10	
0.3 mm	39		36	
0.15 mm	20		19	
0.075 mm	15		5	



Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)			Min	Max
Sample History	Oven Dried			
Preparation Method	Dry Sieve			
Retained 0.425 (%)	10			
Liquid Limit (%)	30			
Plastic Limit (%)	24			
Plasticity Index (%)	6			

Linear Shrinkage (AS1289 3.4.1)			Min	Max
Moisture Condition Determined By	AS 1289.3.9.2			
Linear Shrinkage (%)	2.0			
Cracking Crumbling Curling	None			

Emerson Class Number of a Soil (AS 1289 3.8.1)			Min	Max
Emerson Class	5			
Soil Description	Pale, silty sand			
Nature of Water	Distilled			
Temperature of Water (°C)	19			

Material Test Report

Report Number: 24-081-32A
Issue Number: 1
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10234
Dates Tested: 23/05/2024 - 11/06/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10234A				
Date Sampled	23/05/2024				
Date Tested	11/06/2024				
Material Source	Onsite				
Sample Location	Lot 1234 Line / Offset: O/S NW, Offset: 8m South, 3m East (0.5m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	100				
Shrinkage Moisture Content (%)	7.0				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	7.7				
Swell Moisture Content After (%)	10.7				
Swell (%)	-0.8				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-33
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Removed shrink swell testing - to be reported on separate cover
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10327
Sample Number: S10327A
Date Sampled: 30/05/2024
Dates Tested: 30/05/2024 - 14/06/2024
Sample Location: Lot 1239 Line / Offset: O/S NW , Offset: 8m South, 3m East, Depth: 0.8m Below FSL
Material: Capping Layer
Material Source: Onsite Natural



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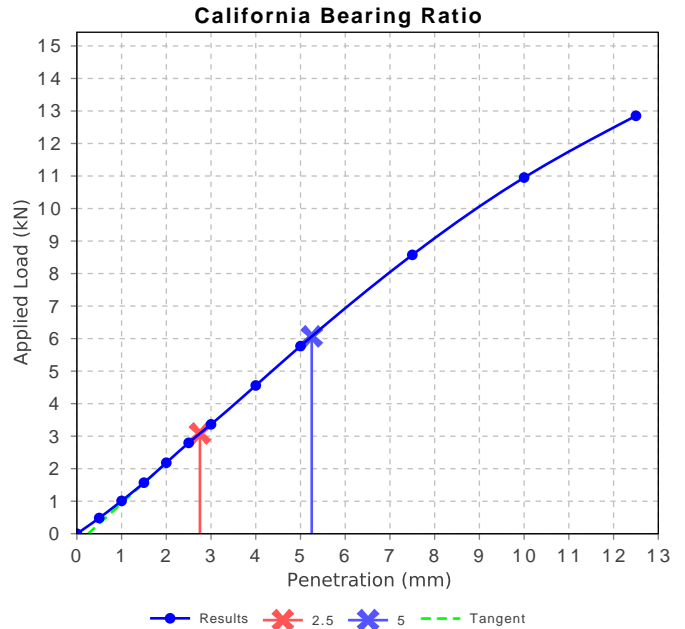


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	102.5		
Dry Density after Soaking (t/m ³)	1.85		
Field Moisture Content (%)	13.0		
Moisture Content at Placement (%)	13.2		
Moisture Content Top 30mm (%)	14.5		
Moisture Content Rest of Sample (%)	14.0		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	69.2		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-33
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Removed shrink swell testing - to be reported on separate cover
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10327
Sample Number: S10327A
Date Sampled: 30/05/2024
Dates Tested: 30/05/2024 - 12/06/2024
Sample Location: Lot 1239 Line / Offset: O/S NW , Offset: 8m South, 3m East, Depth: 0.8m Below FSL
Material: Capping Layer
Material Source: Onsite Natural



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

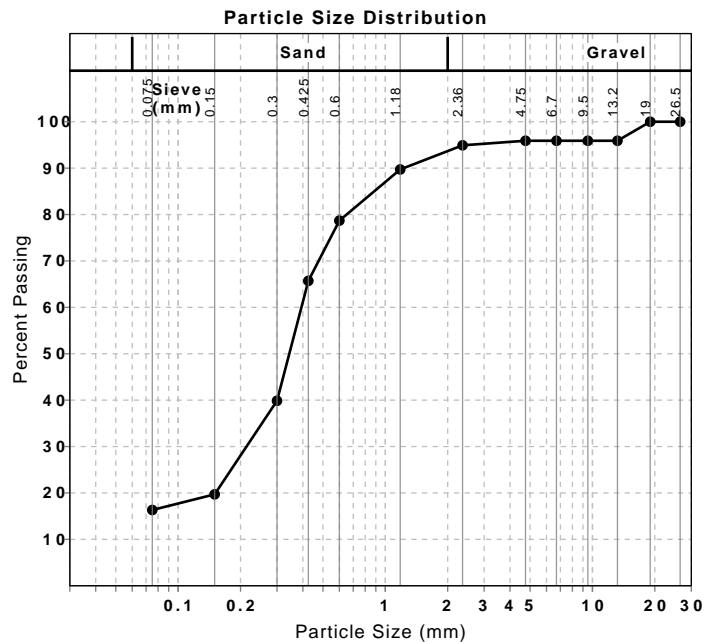
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	96		4	
9.5 mm	96		0	
6.7 mm	96		0	
4.75 mm	96		0	
2.36 mm	95		1	
1.18 mm	90		5	
0.6 mm	79		11	
0.425 mm	66		13	
0.3 mm	40		26	
0.15 mm	20		20	
0.075 mm	16		3	

Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	13		
Liquid Limit (%)	32		
Plastic Limit (%)	25		
Plasticity Index (%)	7		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	1.5		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, clayey sand		
Nature of Water	Distilled		
Temperature of Water (°C)	19		



Material Test Report

Report Number: 24-081-33A
Issue Number: 1
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10327
Dates Tested: 30/05/2024 - 11/06/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10327A				
Date Sampled	30/05/2024				
Date Tested	11/06/2024				
Material Source	Disturbed				
Sample Location	Lot 1239 Line / Offset: O/S NW , Offset: 8m South, 3m East (0.8m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	100				
Shrinkage Moisture Content (%)	7.6				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	9.6				
Swell Moisture Content After (%)	12.0				
Swell (%)	-0.4				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.
 Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.
 NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-34
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Data entry error on PSD - 75mm particle incorrect
Date Issued: 18/12/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10503
Sample Number: S10503A
Date Sampled: 07/06/2024
Dates Tested: 07/06/2024 - 14/06/2024
Sampling Method: AS 1141.3.1 10.1 - Sampling from a placed layer of pavement
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1243 Line / Offset: O/S SE CNR, Offset: 6m West, 2m North, Depth: 0.8m Below FSL
Material: Sandy Clay, Brown
Material Source: Onsite Capping



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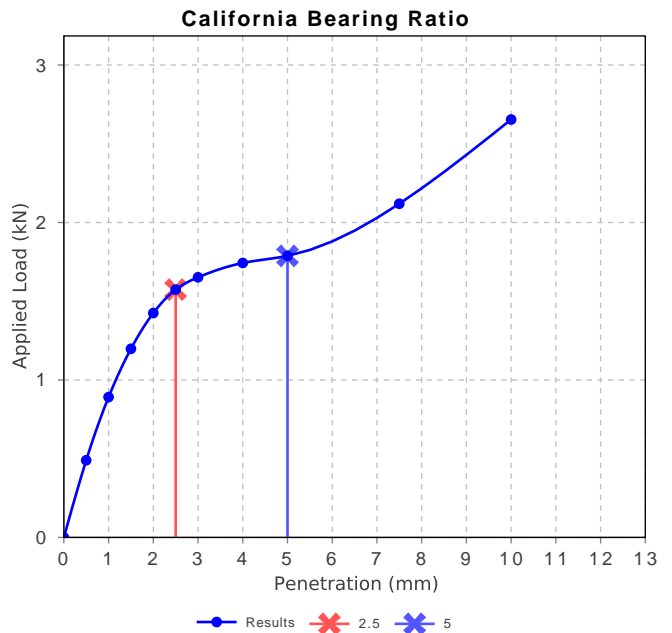


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	12		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.87		
Optimum Moisture Content (%)	11.0		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	103.0		
Dry Density after Soaking (t/m ³)	1.86		
Field Moisture Content (%)	11.3		
Moisture Content at Placement (%)	11.1		
Moisture Content Top 30mm (%)	13.3		
Moisture Content Rest of Sample (%)	14.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	73.0		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-34
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Data entry error on PSD - 75mm particle incorrect
Date Issued: 18/12/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10503
Sample Number: S10503A
Date Sampled: 07/06/2024
Dates Tested: 07/06/2024 - 11/06/2024
Sampling Method: AS 1141.3.1 10.1 - Sampling from a placed layer of pavement
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1243 Line / Offset: O/S SE CNR, Offset: 6m West, 2m North, Depth: 0.8m Below FSL
Material: Sandy Clay, Brown
Material Source: Onsite Capping



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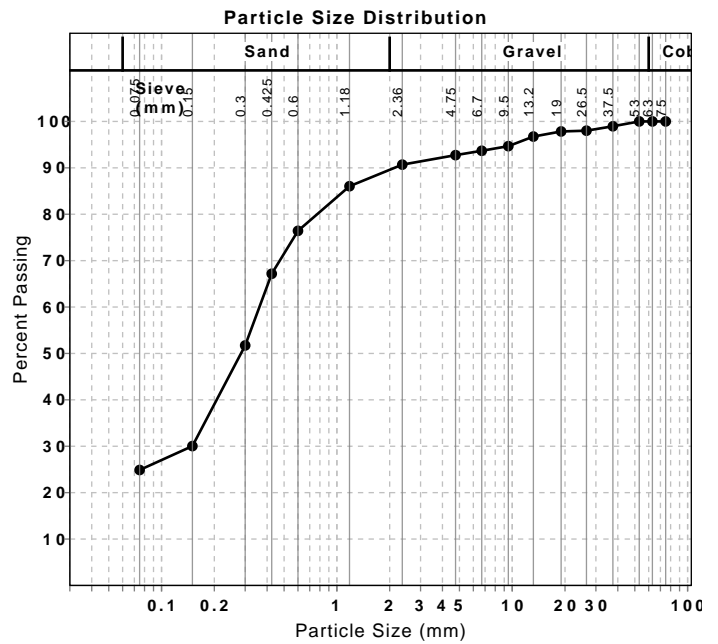


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
75 mm	100		0	
63 mm	100		0	
53 mm	100		0	
37.5 mm	99		1	
26.5 mm	98		1	
19 mm	98		0	
13.2 mm	97		1	
9.5 mm	95		2	
6.7 mm	94		1	
4.75 mm	93		1	
2.36 mm	91		2	
1.18 mm	86		5	
0.6 mm	76		10	
0.425 mm	67		9	
0.3 mm	52		15	
0.15 mm	30		22	
0.075 mm	25		5	



Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	8		
Liquid Limit (%)	34		
Plastic Limit (%)	16		
Plasticity Index (%)	18		
Weighted Plasticity Index (%)	1094		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Clayey Sand		
Nature of Water	Distilled		
Temperature of Water (°C)	19		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	14.5		
Cracking Crumbling Curling	None		

Material Test Report

Report Number: 24-081-34A
Issue Number: 1
Date Issued: 20/06/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10503
Dates Tested: 07/06/2024 - 11/06/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10503A				
Date Sampled	07/06/2024				
Date Tested	11/06/2024				
Material Source	Onsite				
Sample Location	Stage 30, Lot 1243 Line / Offset: O/S SE CNR, Offset: 6m West, 2m North (0.8m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	>600				
Pocket Penetrometer after (kPa)	450				
Shrinkage Moisture Content (%)	10.8				
Shrinkage (%)	1.1				
Swell Moisture Content Before (%)	10.9				
Swell Moisture Content After (%)	13.5				
Swell (%)	0.3				
Shrink Swell Index Iss (%)	0.7				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-45
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10276
Sample Number: S10276A
Date Sampled: 30/05/2024
Dates Tested: 30/05/2024 - 01/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1237 Line / Offset: O/S NW, Offset: 7m South, 3m East, Depth: 0.6M Below FSL



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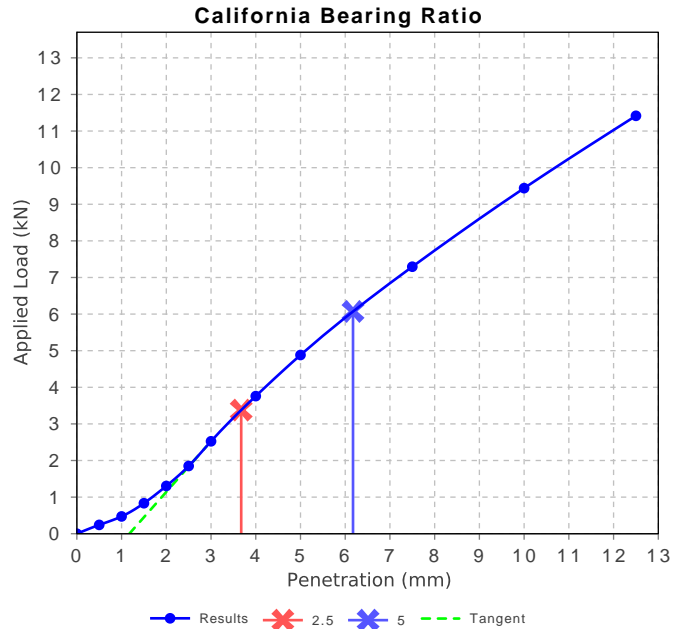


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.86		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	97.0		
Dry Density after Soaking (t/m ³)	1.86		
Field Moisture Content (%)	13.5		
Moisture Content at Placement (%)	12.6		
Moisture Content Top 30mm (%)	13.9		
Moisture Content Rest of Sample (%)	14.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	24.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-45
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10276
Sample Number: S10276A
Date Sampled: 30/05/2024
Dates Tested: 30/05/2024 - 19/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1237 Line / Offset: O/S NW, Offset: 7m South, 3m East, Depth: 0.6M Below FSL



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

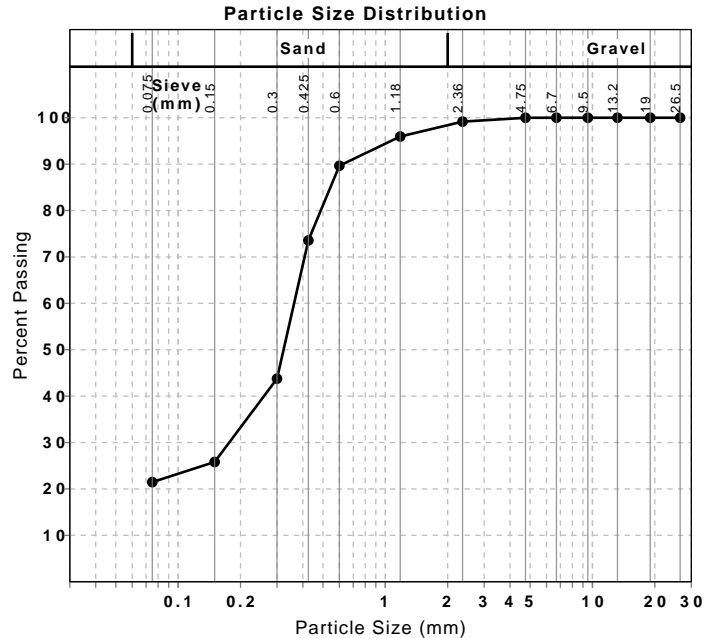
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
1.18 mm	96		3	
0.6 mm	90		6	
0.425 mm	74		16	
0.3 mm	44		30	
0.15 mm	26		18	
0.075 mm	21		4	

Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	16		
Liquid Limit (%)	31		
Plastic Limit (%)	23		
Plasticity Index (%)	8		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	4.0		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, sandy silty clay		
Nature of Water	Distilled		
Temperature of Water (°C)	17		



Material Test Report

Report Number: 24-081-45A
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10276
Dates Tested: 30/05/2024 - 01/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Email: rhys@qualtestgeo.com

Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10276A				
Date Sampled	30/05/2024				
Date Tested	01/07/2024				
Material Source	Onsite				
Sample Location	Lot 1237 Line / Offset: O/S NW, Offset: 7m South, 3m East (0.6M Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	12.8				
Shrinkage (%)	0.7				
Swell Moisture Content Before (%)	13.0				
Swell Moisture Content After (%)	15.5				
Swell (%)	-0.2				
Shrink Swell Index Iss (%)	0.4				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-46
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10297
Sample Number: S10297A
Date Sampled: 04/06/2024
Dates Tested: 04/06/2024 - 02/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1254 Line / Offset: O/S NW CNR, Offset: 8m South, 3m East, Depth: 0.8m Below FSL
Material: General Fill
Material Source: Onsite Capping



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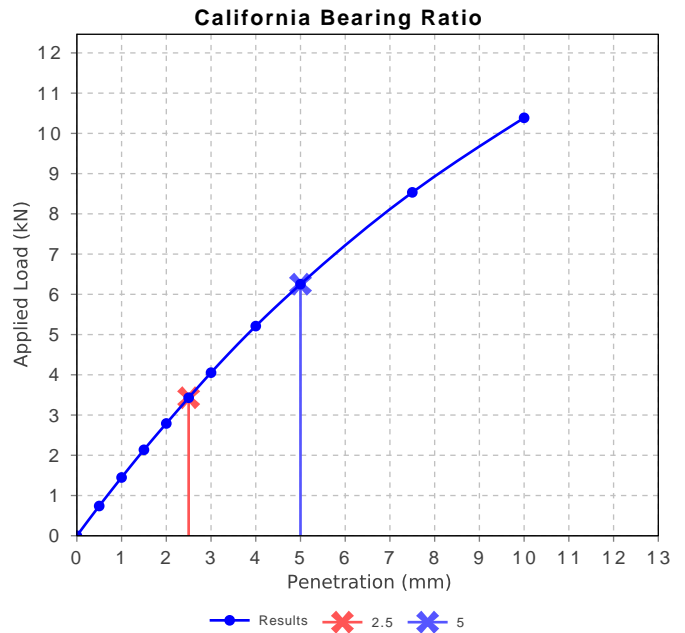


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.83		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	101.0		
Dry Density after Soaking (t/m ³)	1.82		
Field Moisture Content (%)	7.9		
Moisture Content at Placement (%)	13.5		
Moisture Content Top 30mm (%)	14.5		
Moisture Content Rest of Sample (%)	14.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	41.6		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-46
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10297
Sample Number: S10297A
Date Sampled: 04/06/2024
Dates Tested: 03/06/2024 - 04/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1254 Line / Offset: O/S NW CNR, Offset: 8m South, 3m East, Depth: 0.8m Below FSL
Material: General Fill
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

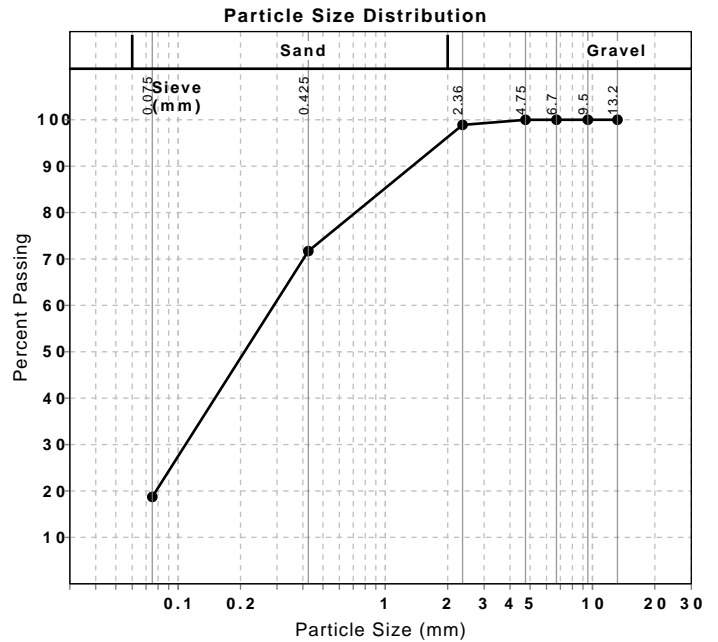
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
0.425 mm	72		27	
0.075 mm	19		53	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			29.8
Plastic Limit (%)			23.6
Plasticity Index (%)			6.2
Weighted Plasticity Index (%)			444

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			2.6
Weighted Linear Shrinkage (%)			182

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			2
Soil Description			Pale, silty sand
Nature of Water			Distilled
Temperature of Water (°C)			19



Material Test Report

Report Number: 24-081-46A
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10297
Dates Tested: 04/06/2024 - 11/06/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10297A				
Date Sampled	04/06/2024				
Date Tested	11/06/2024				
Material Source	Onsite				
Sample Location	Stage 30, Lot 1254 Line / Offset: O/S NW CNR, Offset: 8m South, 3m East (0.8m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	110				
Shrinkage Moisture Content (%)	10.4				
Shrinkage (%)	0.6				
Swell Moisture Content Before (%)	8.1				
Swell Moisture Content After (%)	12.0				
Swell (%)	-0.5				
Shrink Swell Index Iss (%)	0.3				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-47
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10443
Sample Number: S10443A
Date Sampled: 03/06/2024
Dates Tested: 03/06/2024 - 02/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30 - Road CNR Lot 1281, 6m North, 2m West, Depth: 0.6m Below FSL
Material: General Fill
Material Source: Onsite Capping



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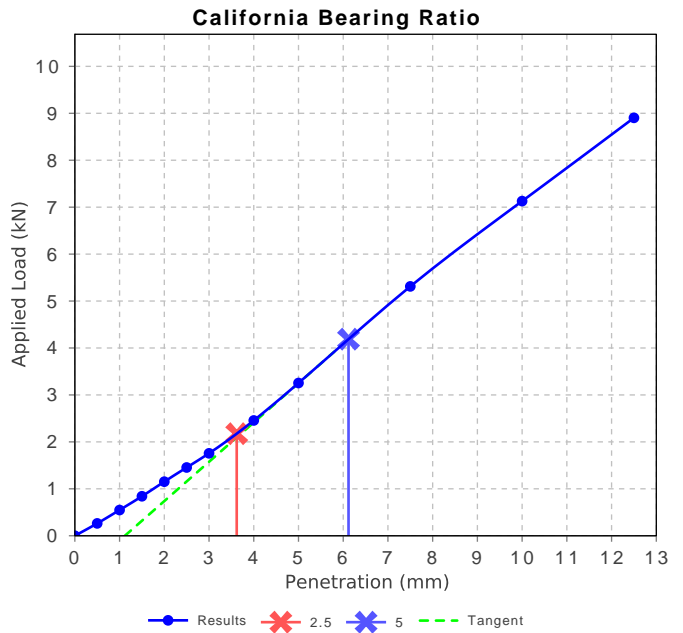


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	20		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.80		
Optimum Moisture Content (%)	14.0		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	101.0		
Dry Density after Soaking (t/m ³)	1.80		
Field Moisture Content (%)	7.2		
Moisture Content at Placement (%)	14.1		
Moisture Content Top 30mm (%)	14.8		
Moisture Content Rest of Sample (%)	15.0		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	41.5		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-47
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10443
Sample Number: S10443A
Date Sampled: 03/06/2024
Dates Tested: 03/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30 - Road CNR Lot 1281, 6m North, 2m West, Depth: 0.6m Below FSL
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

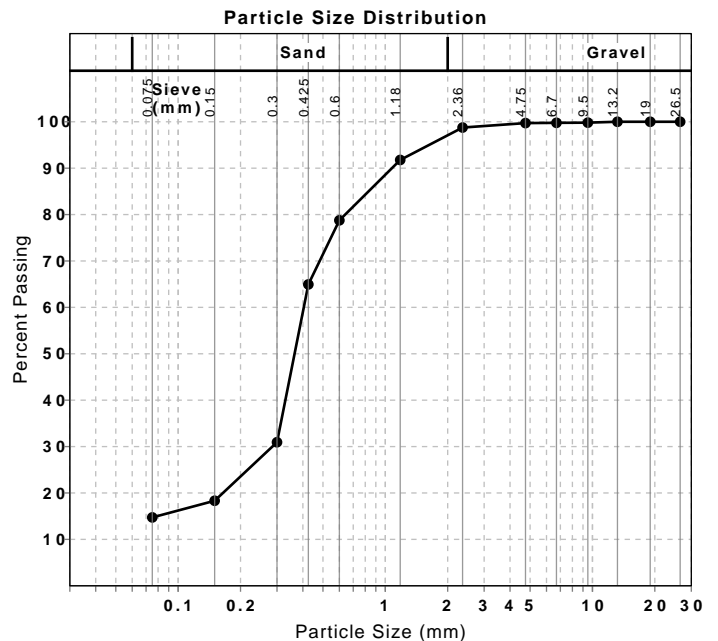
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
1.18 mm	92		7	
0.6 mm	79		13	
0.425 mm	65		14	
0.3 mm	31		34	
0.15 mm	18		13	
0.075 mm	15		4	

Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	14		
Liquid Limit (%)	30		
Plastic Limit (%)	25		
Plasticity Index (%)	5		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	2.5		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, sandy stone		
Nature of Water	Distilled		
Temperature of Water (°C)	17		



Material Test Report

Report Number: 24-081-47A
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10443
Dates Tested: 03/06/2024 - 01/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10443A				
Date Sampled	03/06/2024				
Date Tested	01/07/2024				
Material Source	Onsite				
Sample Location	Stage 30 - Road CNR Lot 1281, 6m North, 2m West (0.6m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	9.0				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	7.2				
Swell Moisture Content After (%)	14.0				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-48
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10519
Sample Number: S10519A
Date Sampled: 07/06/2024
Dates Tested: 07/06/2024 - 02/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1248 Line / Offset: O/S SW CNR, Offset: 7East, 2m North, Depth: 0.8m Below FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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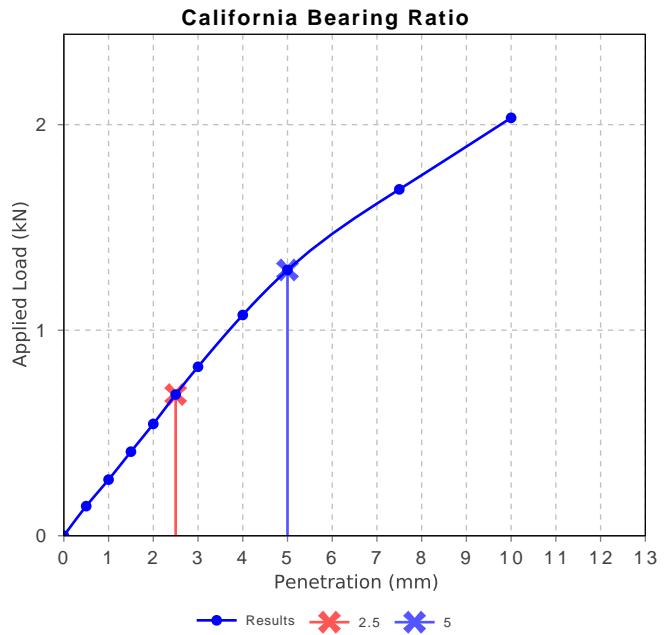


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	7		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.90		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m ³)	1.90		
Field Moisture Content (%)	9.3		
Moisture Content at Placement (%)	12.1		
Moisture Content Top 30mm (%)	13.5		
Moisture Content Rest of Sample (%)	14.2		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	48.0		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-48
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10519
Sample Number: S10519A
Date Sampled: 07/06/2024
Dates Tested: 07/06/2024 - 27/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1248 Line / Offset: O/S SW CNR, Offset: 7East, 2m North, Depth: 0.8m Below FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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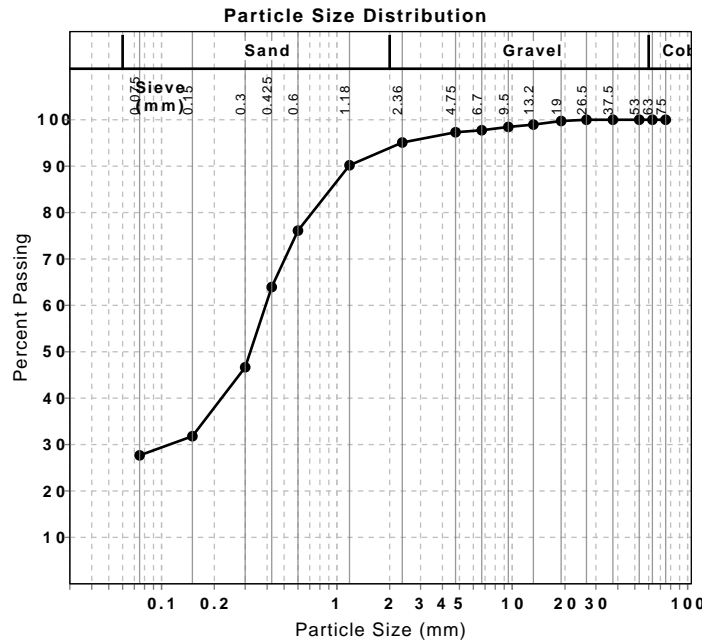


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
75 mm	100		0	
63 mm	100		0	
53 mm	100		0	
37.5 mm	100		0	
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	99		1	
9.5 mm	98		0	
6.7 mm	98		1	
4.75 mm	97		0	
2.36 mm	95		2	
1.18 mm	90		5	
0.6 mm	76		14	
0.425 mm	64		12	
0.3 mm	47		17	
0.15 mm	32		15	
0.075 mm	28		4	



Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	12		
Liquid Limit (%)	34		
Plastic Limit (%)	20		
Plasticity Index (%)	14		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, sandy silty clay		
Nature of Water	Distilled		
Temperature of Water (°C)	17		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	5.5		
Cracking Crumbling Curling	None		

Material Test Report

Report Number: 24-081-48A
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10519
Dates Tested: 07/06/2024 - 01/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10519A				
Date Sampled	07/06/2024				
Date Tested	01/07/2024				
Material Source	Onsite				
Sample Location	Stage 31, Lot 1248 Line / Offset: O/S SW CNR, Offset: 7East, 2m North (0.8m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	8.9				
Shrinkage (%)	0.7				
Swell Moisture Content Before (%)	10.2				
Swell Moisture Content After (%)	17.6				
Swell (%)	-0.2				
Shrink Swell Index Iss (%)	0.4				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-49
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10539
Sample Number: S10539A
Date Sampled: 12/06/2024
Dates Tested: 12/06/2024 - 02/07/2024
Sample Location: Stage 31, Lot 1281 Ch: O/S NW CNR, Off: 8m South, 4m East



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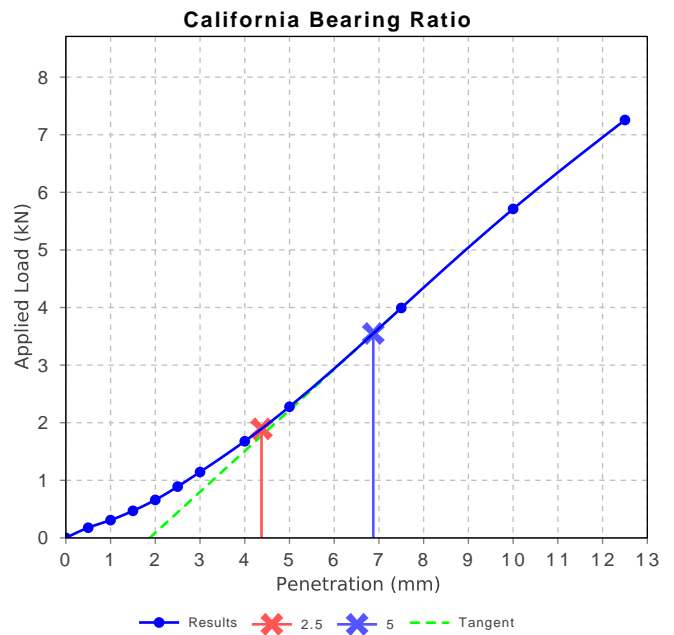


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	18		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.84		
Optimum Moisture Content (%)	14.0		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.0		
Dry Density after Soaking (t/m ³)	1.85		
Field Moisture Content (%)	6.4		
Moisture Content at Placement (%)	13.8		
Moisture Content Top 30mm (%)	14.8		
Moisture Content Rest of Sample (%)	13.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	19.6		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-49
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10539
Sample Number: S10539A
Date Sampled: 12/06/2024
Dates Tested: 12/06/2024 - 27/06/2024
Sample Location: Stage 31, Lot 1281 Ch: O/S NW CNR, Off: 8m South, 4m East



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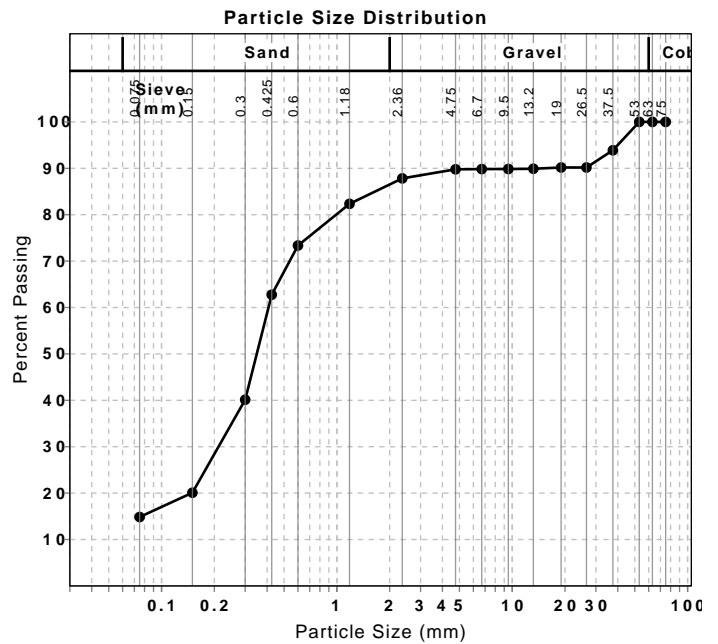


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
75 mm	100		0	
63 mm	100		0	
53 mm	100		0	
37.5 mm	94		6	
26.5 mm	90		4	
19 mm	90		0	
13.2 mm	90		0	
9.5 mm	90		0	
6.7 mm	90		0	
4.75 mm	90		0	
2.36 mm	88		2	
1.18 mm	82		5	
0.6 mm	73		9	
0.425 mm	63		11	
0.3 mm	40		23	
0.15 mm	20		20	
0.075 mm	15		5	



Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	11		
Liquid Limit (%)	33		
Plastic Limit (%)	16		
Plasticity Index (%)	17		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	4.0		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, sandy silty stone		
Nature of Water	Distilled		
Temperature of Water (°C)	17		

Material Test Report

Report Number: 24-081-49A
Issue Number: 1
Date Issued: 04/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10539
Dates Tested: 12/06/2024 - 01/07/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10539A				
Date Sampled	12/06/2024				
Date Tested	01/07/2024				
Material Source	Onsite				
Sample Location	Stage 31, Lot 1281 Ch: O/S NW CNR, Off: 8m South, 4m East				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	7.0				
Shrinkage (%)	0.2				
Swell Moisture Content Before (%)	6.2				
Swell Moisture Content After (%)	14.9				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	0.1				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

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Material Test Report

Report Number: 24-081-50
Issue Number: 1
Date Issued: 05/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10606
Sample Number: S10606A
Date Sampled: 12/06/2024
Dates Tested: 12/06/2024 - 02/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Lot 1267 Line / Offset: O/S NW CNR, Offset: 7m South, 2m East, Depth: 0.3m Below FSL



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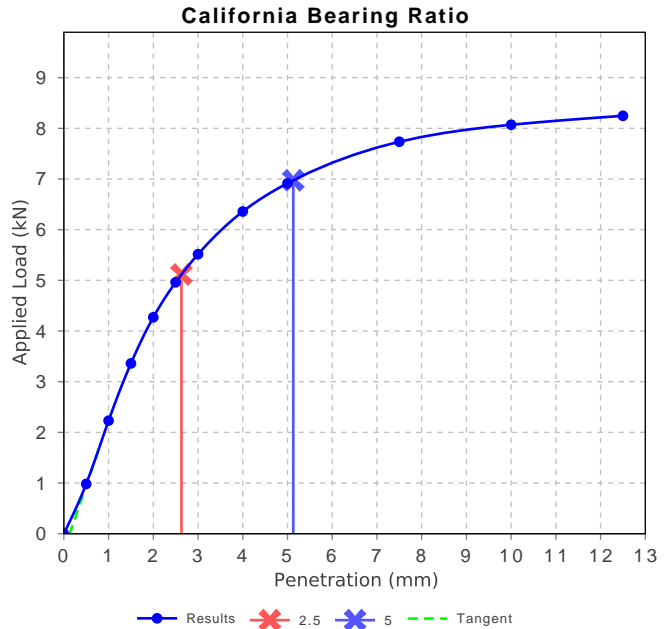


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	40		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	11.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m ³)	1.85		
Field Moisture Content (%)	9.8		
Moisture Content at Placement (%)	11.3		
Moisture Content Top 30mm (%)	14.4		
Moisture Content Rest of Sample (%)	12.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	18.5		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-50
Issue Number: 1
Date Issued: 05/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10606
Sample Number: S10606A
Date Sampled: 12/06/2024
Dates Tested: 12/06/2024 - 27/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Lot 1267 Line / Offset: O/S NW CNR, Offset: 7m South, 2m East, Depth: 0.3m Below FSL



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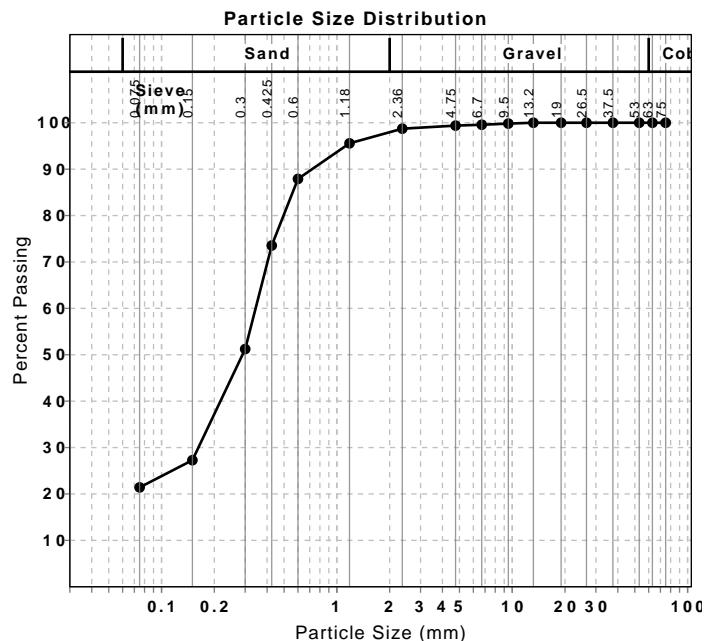


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
75 mm	100		0	
63 mm	100		0	
53 mm	100		0	
37.5 mm	100		0	
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	99		0	
2.36 mm	99		1	
1.18 mm	96		3	
0.6 mm	88		8	
0.425 mm	74		14	
0.3 mm	51		22	
0.15 mm	27		24	
0.075 mm	21		6	



Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	14		
Liquid Limit (%)	31		
Plastic Limit (%)	23		
Plasticity Index (%)	8		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	3.5		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, silty sand		
Nature of Water	Distilled		
Temperature of Water (°C)	17		

Material Test Report

Report Number: 24-081-50A
Issue Number: 1
Date Issued: 05/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10606
Dates Tested: 12/06/2024 - 01/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10606A				
Date Sampled	12/06/2024				
Date Tested	01/07/2024				
Material Source	Onsite				
Sample Location	Lot 1267 Line / Offset: O/S NW CNR, Offset: 7m South, 2m East (0.3m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	9.2				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	9.0				
Swell Moisture Content After (%)	14.6				
Swell (%)	-0.2				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-51
Issue Number: 1
Date Issued: 10/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10636
Sample Number: S10636A
Date Sampled: 13/06/2024
Dates Tested: 13/06/2024 - 02/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Lot 1263 Line / Offset: O/S NW CNR, Offset: 6m South, 1m East, Depth: 0.8m Below FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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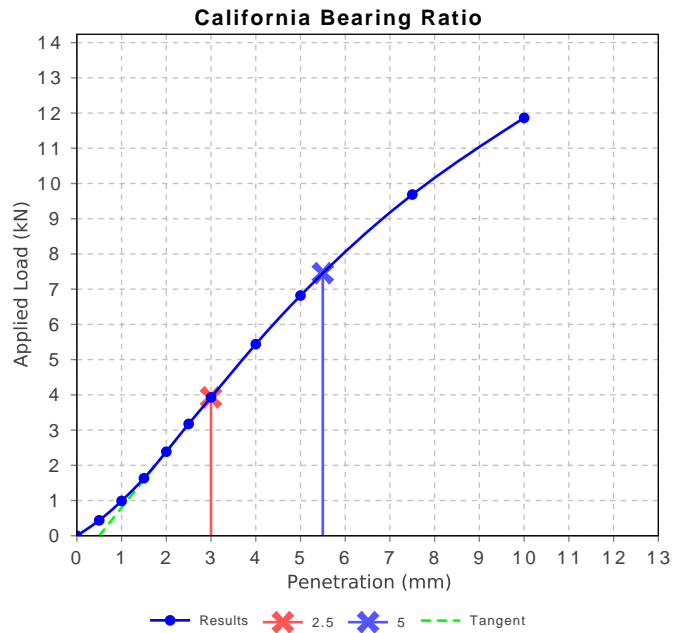


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	40		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.88		
Optimum Moisture Content (%)	12.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m ³)	1.88		
Field Moisture Content (%)	8.2		
Moisture Content at Placement (%)	12.1		
Moisture Content Top 30mm (%)	13.5		
Moisture Content Rest of Sample (%)	12.6		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	24.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-51
Issue Number: 1
Date Issued: 10/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10636
Sample Number: S10636A
Date Sampled: 13/06/2024
Dates Tested: 13/06/2024 - 27/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Lot 1263 Line / Offset: O/S NW CNR, Offset: 6m South, 1m East, Depth: 0.8m Below FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Rhys Mitchell

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 Field Technician

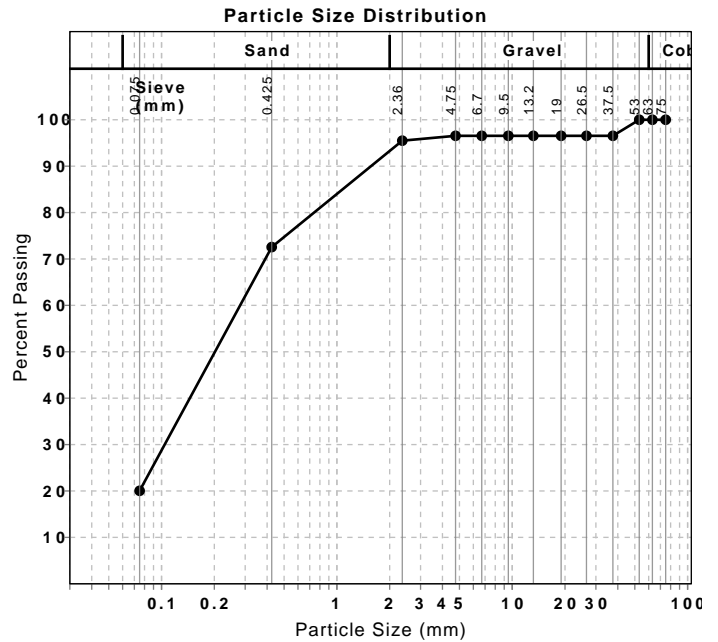
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Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
75 mm	100		0	
63 mm	100		0	
53 mm	100		0	
37.5 mm	97		3	
26.5 mm	97		0	
19 mm	97		0	
13.2 mm	97		0	
9.5 mm	97		0	
6.7 mm	97		0	
4.75 mm	97		0	
2.36 mm	95		1	
0.425 mm	73		23	
0.075 mm	20		53	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)		Min	Max
Liquid Limit (%)	26.8		
Plastic Limit (%)	21.6		
Plasticity Index (%)	5.2		
Weighted Plasticity Index (%)	377		

Linear Shrinkage (Q106)		Min	Max
Linear Shrinkage (%)	3.0		
Weighted Linear Shrinkage (%)	213		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, silty sand		
Nature of Water	Distilled		
Temperature of Water (°C)	17		



Material Test Report

Report Number: 24-081-51A
Issue Number: 1
Date Issued: 10/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10636
Dates Tested: 13/06/2024 - 01/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10636A				
Date Sampled	13/06/2024				
Date Tested	01/07/2024				
Material Source	Onsite				
Sample Location	Lot 1263 Line / Offset: O/S NW CNR, Offset: 6m South, 1m East (0.8m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	8.2				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	8.3				
Swell Moisture Content After (%)	16.6				
Swell (%)	-0.4				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.
 Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.
 NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-54
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10454
Sample Number: S10454A
Date Sampled: 04/06/2024
Dates Tested: 04/06/2024 - 15/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1250 Line / Offset: O/S NW CNR, Offset: 7m South, 2m East
Material: General Fill
Material Source: Onsite Capping



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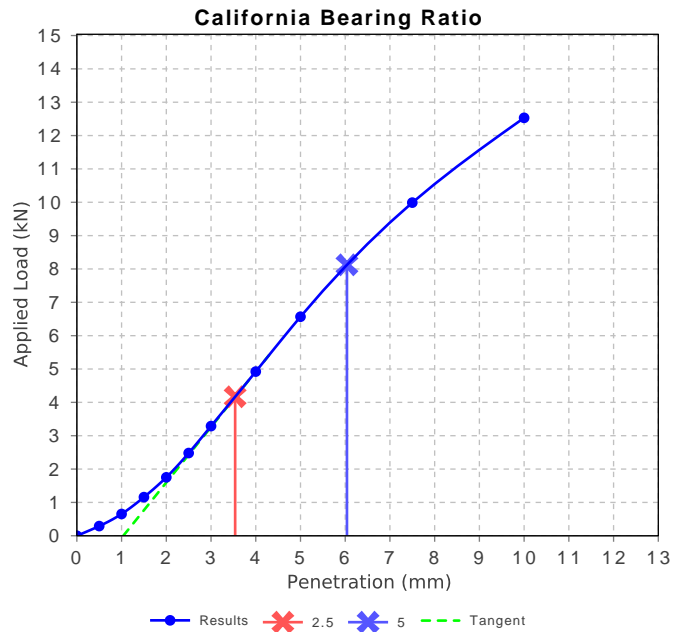


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	40		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.83		
Optimum Moisture Content (%)	14.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	100.0		
Dry Density after Soaking (t/m ³)	1.83		
Field Moisture Content (%)	12.1		
Moisture Content at Placement (%)	13.8		
Moisture Content Top 30mm (%)	15.0		
Moisture Content Rest of Sample (%)	14.4		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	18.4		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-54
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10454
Sample Number: S10454A
Date Sampled: 04/06/2024
Dates Tested: 04/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1250 Line / Offset: O/S NW CNR, Offset: 7m South, 2m East
Material: General Fill
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

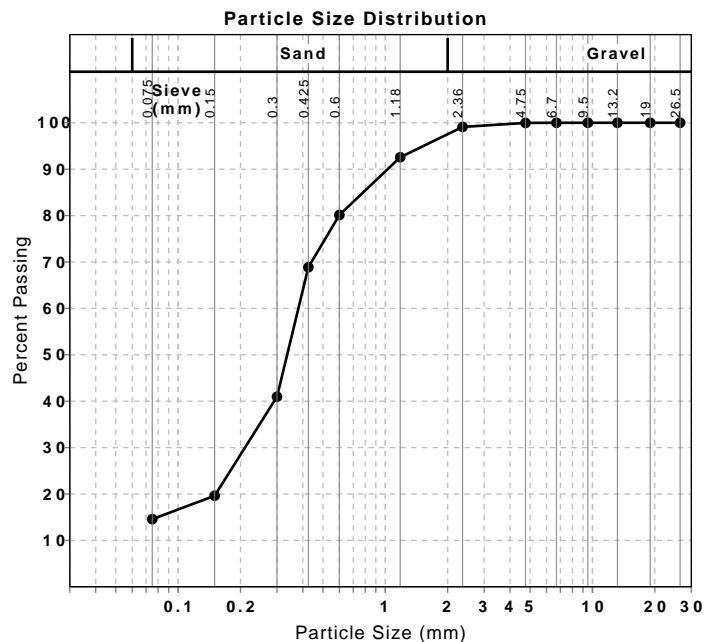
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Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
1.18 mm	93		7	
0.6 mm	80		12	
0.425 mm	69		11	
0.3 mm	41		28	
0.15 mm	20		21	
0.075 mm	15		5	

Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	11		
Liquid Limit (%)	30		
Plastic Limit (%)	25		
Plasticity Index (%)	5		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	3.0		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, sandy silty stone		
Nature of Water	Distilled		
Temperature of Water (°C)	17		



Material Test Report

Report Number: 24-081-54A
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10454
Date Sampled: 04/06/2024
Dates Tested: 04/06/2024 - 16/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 95% Standard
Site Selection: Selected by GTA
Location: Edens Crossing, Stage 30-35, Ipswich
Material: General Fill
Material Source: Onsite



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10454A				
Date Sampled	04/06/2024				
Date Tested	16/07/2024				
Material Source	Onsite				
Sample Location	Stage 30, Lot 1250 Line / Offset: O/S NW CNR, Offset: 7m South, 2m East				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	13.5				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	14.3				
Swell Moisture Content After (%)	18.2				
Swell (%)	0.2				
Shrink Swell Index Iss (%)	0.3				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-55
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10672
Sample Number: S10672A
Date Sampled: 14/06/2024
Dates Tested: 14/06/2024 - 15/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1257 Line / Offset: O/S NW CNR, Offset: 5m South, 1m East, Depth: 0.5m Below FSL
Material: General Fill
Material Source: Onsite Capping



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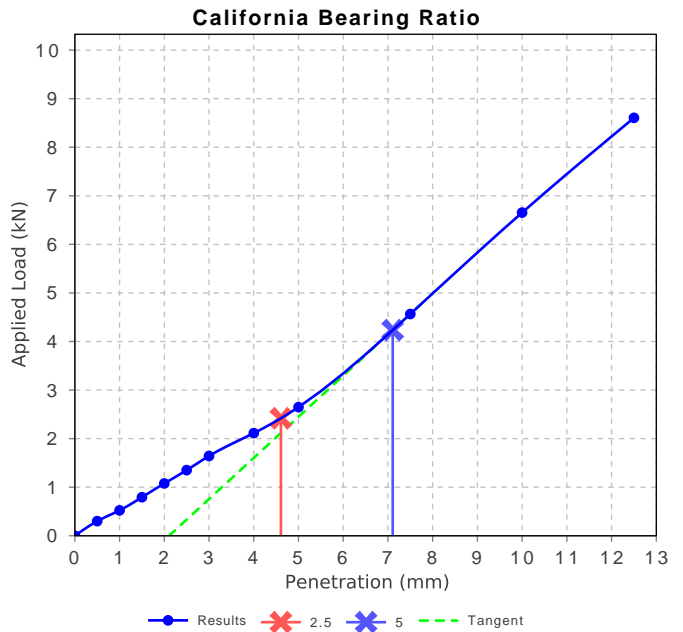


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	20		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	101.5		
Dry Density after Soaking (t/m ³)	1.85		
Field Moisture Content (%)	4.1		
Moisture Content at Placement (%)	13.2		
Moisture Content Top 30mm (%)	14.0		
Moisture Content Rest of Sample (%)	14.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	18.3		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-55
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10672
Sample Number: S10672A
Date Sampled: 14/06/2024
Dates Tested: 14/06/2024 - 15/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 30, Lot 1257 Line / Offset: O/S NW CNR, Offset: 5m South, 1m East, Depth: 0.5m Below FSL
Material: General Fill
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

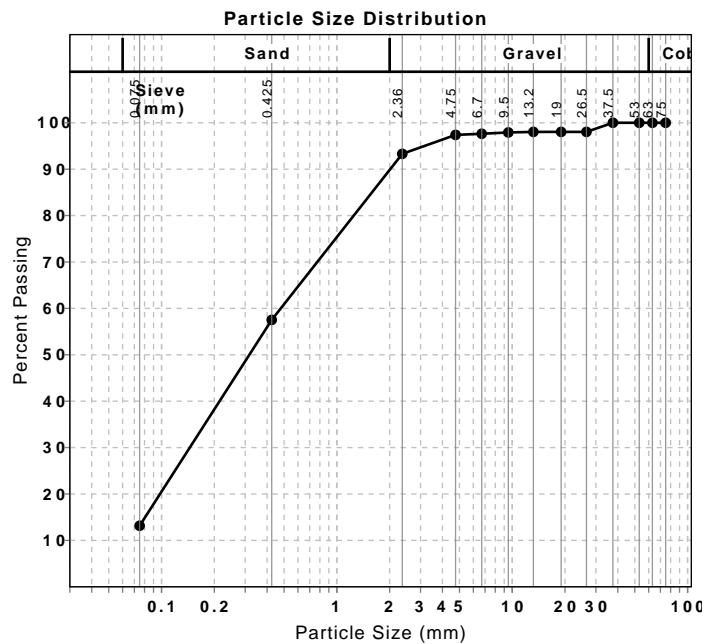
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
75 mm	100		0	
63 mm	100		0	
53 mm	100		0	
37.5 mm	100		0	
26.5 mm	98		2	
19 mm	98		0	
13.2 mm	98		0	
9.5 mm	98		0	
6.7 mm	98		0	
4.75 mm	97		0	
2.36 mm	93		4	
0.425 mm	58		36	
0.075 mm	13		44	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)		Min	Max
Liquid Limit (%)	27.6		
Plastic Limit (%)	23.2		
Plasticity Index (%)	4.4		
Weighted Plasticity Index (%)	253		

Linear Shrinkage (Q106)		Min	Max
Linear Shrinkage (%)	1.8		
Weighted Linear Shrinkage (%)	106		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, slightly silty sand stone		
Nature of Water	Distilled		
Temperature of Water (°C)	13		



Material Test Report

Report Number: 24-081-55A
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10672
Dates Tested: 14/06/2024 - 16/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10672A				
Date Sampled	14/06/2024				
Date Tested	16/07/2024				
Material Source	Onsite				
Sample Location	Stage 30, Lot 1257 Line / Offset: O/S NW CNR, Offset: 5m South, 1m East (0.5m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	12.2				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	13.3				
Swell Moisture Content After (%)	16.4				
Swell (%)	-1.0				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-56
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10717
Sample Number: S10717A
Date Sampled: 18/06/2024
Dates Tested: 18/06/2024 - 15/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1249 Line / Offset: O/S SE CNR, Offset: 4m North, 8m West, Depth: 0.4m Below FSL
Material: General Fill
Material Source: Onsite Capping



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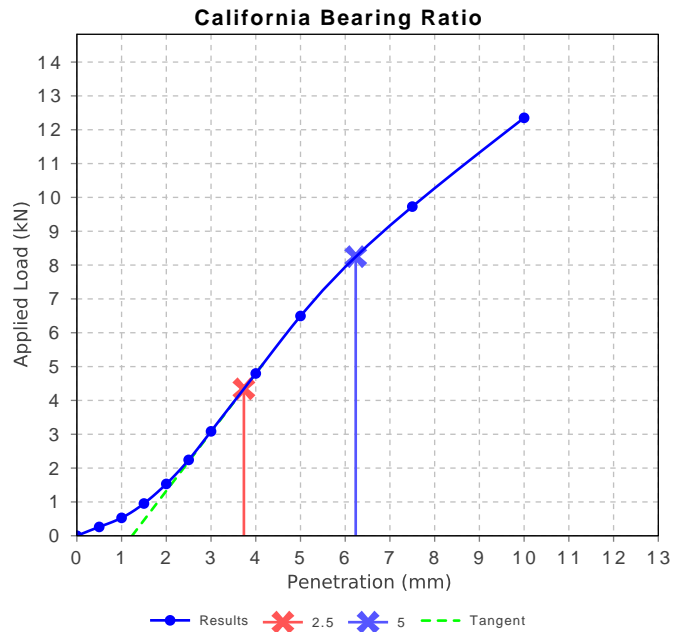


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	40		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.89		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	99.0		
Dry Density after Soaking (t/m ³)	1.89		
Field Moisture Content (%)	9.6		
Moisture Content at Placement (%)	12.6		
Moisture Content Top 30mm (%)	14.0		
Moisture Content Rest of Sample (%)	13.0		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	24.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-56
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10717
Sample Number: S10717A
Date Sampled: 18/06/2024
Dates Tested: 18/06/2024 - 15/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1249 Line / Offset: O/S SE CNR, Offset: 4m North, 8m West, Depth: 0.4m Below FSL
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

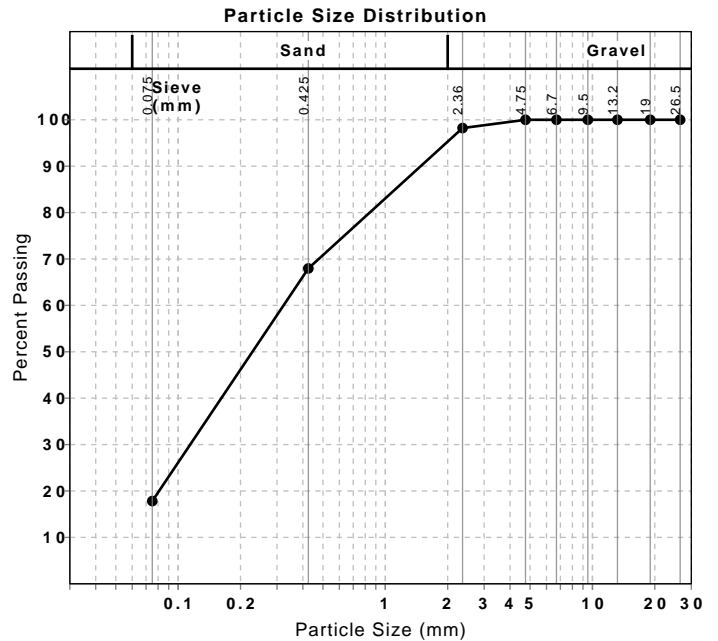
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	98		2	
0.425 mm	68		30	
0.075 mm	18		50	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			27.2
Plastic Limit (%)			22.8
Plasticity Index (%)			4.4
Weighted Plasticity Index (%)			299

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			2.0
Weighted Linear Shrinkage (%)			140

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			2
Soil Description			Pale, slightly silty sand stone
Nature of Water			Distilled
Temperature of Water (°C)			13



Material Test Report

Report Number: 24-081-56A
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10717
Dates Tested: 18/06/2024 - 16/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10717A				
Date Sampled	18/06/2024				
Date Tested	16/07/2024				
Material Source	Onsite				
Sample Location	Stage 31, Lot 1249 Line / Offset: O/S SE CNR, Offset: 4m North, 8m West (0.4m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	9.9				
Shrinkage (%)	0.0				
Swell Moisture Content Before (%)	12.9				
Swell Moisture Content After (%)	16.1				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.0				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.
 Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.
 NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-58
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10977
Sample Number: S10977A
Date Sampled: 09/07/2024
Dates Tested: 09/07/2024 - 15/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Road Ch: O/S SE CNR Northern Roundabout, Off: 35m South, 4m East, Depth: 0.3m Below FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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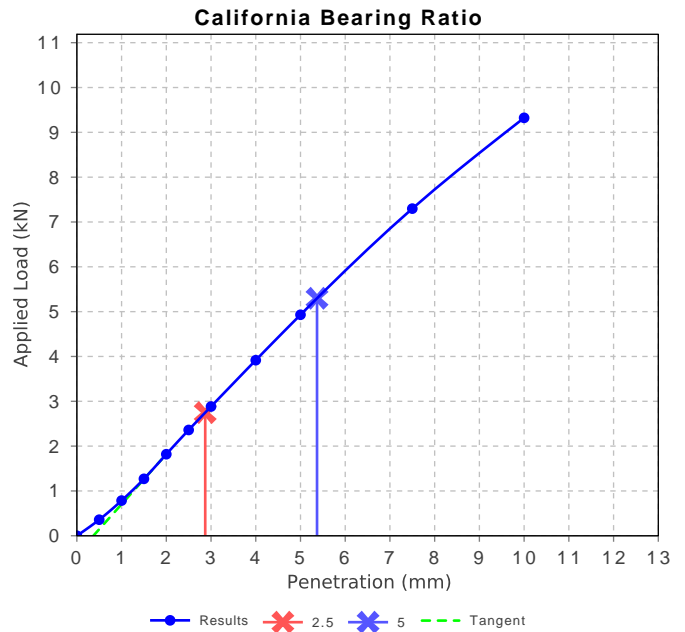


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	25		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.95		
Optimum Moisture Content (%)	11.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	98.5		
Dry Density after Soaking (t/m ³)	1.95		
Field Moisture Content (%)	10.8		
Moisture Content at Placement (%)	10.7		
Moisture Content Top 30mm (%)	12.1		
Moisture Content Rest of Sample (%)	11.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	17.9		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-58
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10977
Sample Number: S10977A
Date Sampled: 09/07/2024
Dates Tested: 09/07/2024 - 16/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be e-mailed
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Road Ch: O/S SE CNR Northern Roundabout, Off: 35m South, 4m East, Depth: 0.3m Below FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

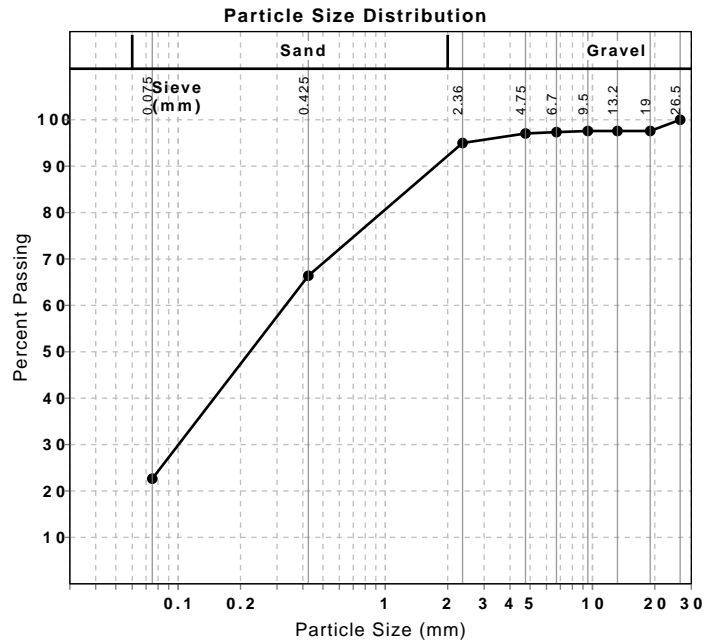
NATA Accredited Laboratory Number: 2316

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)		Min	Max
Liquid Limit (%)	29.4		
Plastic Limit (%)	21.2		
Plasticity Index (%)	8.2		
Weighted Plasticity Index (%)	544		

Linear Shrinkage (Q106)		Min	Max
Linear Shrinkage (%)	4.2		
Weighted Linear Shrinkage (%)	283		

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100		0	
19 mm	98		2	
13.2 mm	98		0	
9.5 mm	98		0	
6.7 mm	97		0	
4.75 mm	97		0	
2.36 mm	95		2	
0.425 mm	66		29	
0.075 mm	23		44	

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, slightly silty sand stone		
Nature of Water	Distilled		
Temperature of Water (°C)	13		



Material Test Report

Report Number: 24-081-58A
Issue Number: 1
Date Issued: 19/07/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10977
Dates Tested: 09/07/2024 - 16/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10977A				
Date Sampled	09/07/2024				
Date Tested	16/07/2024				
Material Source	Onsite				
Sample Location	Road Ch: O/S SE CNR Northern Roundabout, Off: 35m South, 4m East (0.3m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	450				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	11.0				
Shrinkage (%)	0.5				
Swell Moisture Content Before (%)	11.1				
Swell Moisture Content After (%)	14.0				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	0.3				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.
Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.
NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-63
Issue Number: 1
Date Issued: 24/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10698
Sample Number: S10698A
Date Sampled: 17/06/2024
Dates Tested: 17/06/2024 - 22/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1310 Line / Offset: O/S NW CNR, Offset: 6m South, 1m East, Depth: 0.8m Below FSL
Material: General Fill
Material Source: Onsite Capping



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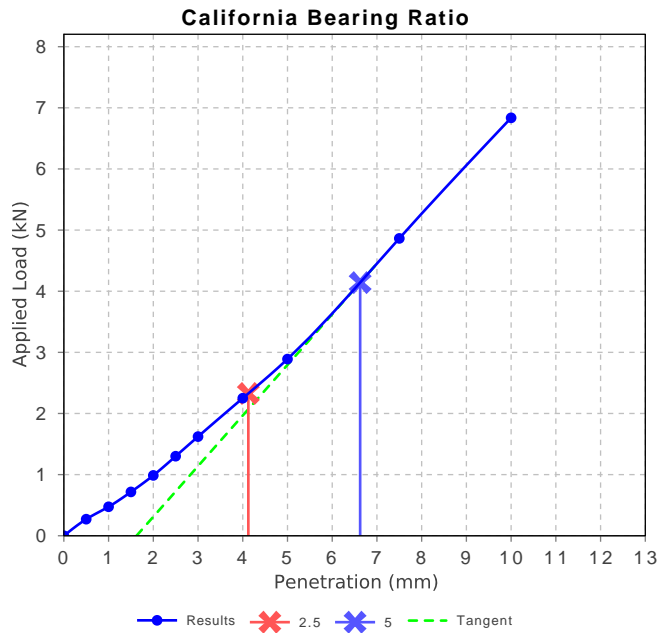


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	20		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.84		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	101.0		
Dry Density after Soaking (t/m ³)	1.84		
Field Moisture Content (%)	6.7		
Moisture Content at Placement (%)	13.7		
Moisture Content Top 30mm (%)	13.9		
Moisture Content Rest of Sample (%)	14.2		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	170.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-63
Issue Number: 1
Date Issued: 24/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10698
Sample Number: S10698A
Date Sampled: 17/06/2024
Dates Tested: 17/06/2024 - 16/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1310 Line / Offset: O/S NW CNR, Offset: 6m South, 1m East, Depth: 0.8m Below FSL
Material: General Fill
Material Source: Onsite Capping



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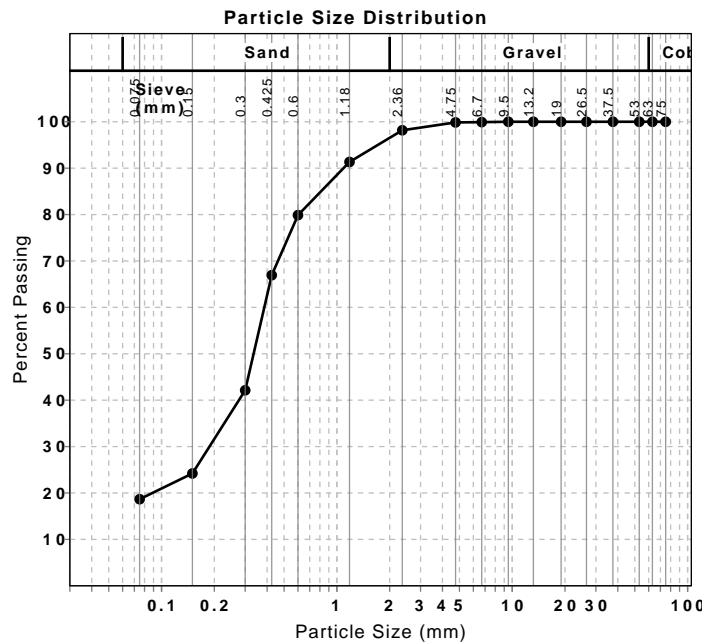


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
75 mm	100		0	
63 mm	100		0	
53 mm	100		0	
37.5 mm	100		0	
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	98		2	
1.18 mm	91		7	
0.6 mm	80		11	
0.425 mm	67		13	
0.3 mm	42		25	
0.15 mm	24		18	
0.075 mm	19		6	



Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	13		
Liquid Limit (%)	33		
Plastic Limit (%)	23		
Plasticity Index (%)	10		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, slightly silty sand stone		
Nature of Water	Distilled		
Temperature of Water (°C)	13		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	4.0		
Cracking Crumbling Curling	None		

Material Test Report

Report Number: 24-081-63A
Issue Number: 1
Date Issued: 24/07/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 10698
Dates Tested: 17/06/2024 - 16/07/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S10698A				
Date Sampled	17/06/2024				
Date Tested	16/07/2024				
Material Source	**				
Sample Location	Stage 31, Lot 1310 Line / Offset: O/S NW CNR, Offset: 6m South, 1m East (0.8m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	**				
Shrinkage Moisture Content (%)	13.6				
Shrinkage (%)	1.8				
Swell Moisture Content Before (%)	13.6				
Swell Moisture Content After (%)	17.7				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	1.0				
Visual Description	General Fill				
Cracking	UC				
Crumbling	**				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-84
Issue Number: 1
Date Issued: 11/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11326
Sample Number: S11326A
Date Sampled: 26/07/2024
Dates Tested: 26/07/2024 - 19/08/2024
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1285 Line / Offset: O/S NW CNR, Offset: 8m South, 2m East, Depth: Capping FSL



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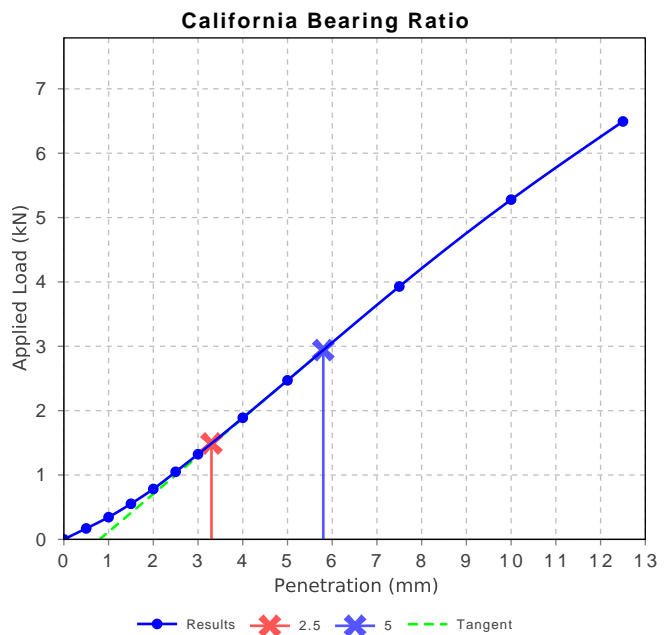


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	15		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.86		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	96.0		
Dry Density after Soaking (t/m ³)	1.87		
Field Moisture Content (%)	9.2		
Moisture Content at Placement (%)	12.4		
Moisture Content Top 30mm (%)	13.6		
Moisture Content Rest of Sample (%)	14.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	48.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-84
Issue Number: 1
Date Issued: 11/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11326
Sample Number: S11326A
Date Sampled: 26/07/2024
Dates Tested: 26/07/2024 - 12/08/2024
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Stage 31, Lot 1285 Line / Offset: O/S NW CNR, Offset: 8m South, 2m East, Depth: Capping FSL



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

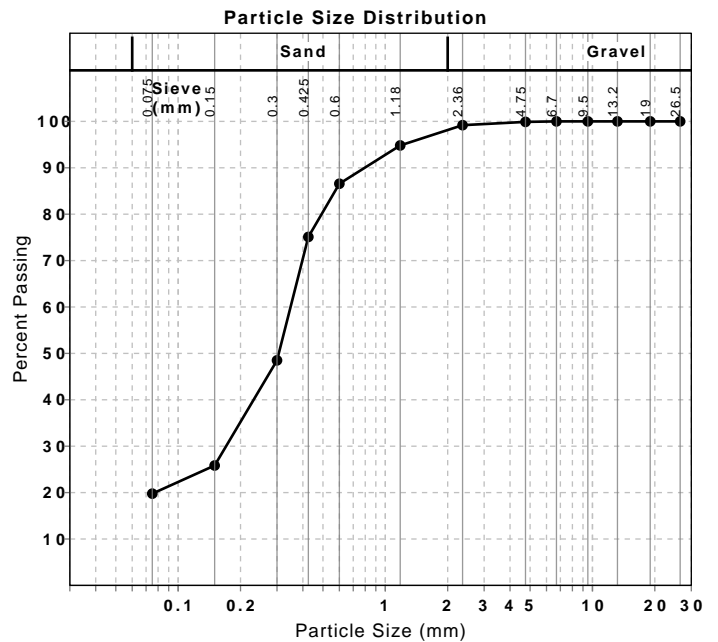
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100		0	
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
1.18 mm	95		4	
0.6 mm	87		8	
0.425 mm	75		11	
0.3 mm	48		27	
0.15 mm	26		23	
0.075 mm	20		6	

Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	11		
Liquid Limit (%)	30		
Plastic Limit (%)	22		
Plasticity Index (%)	8		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	4.0		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	2		
Soil Description	Pale, silty sand		
Nature of Water	Distilled		
Temperature of Water (°C)	19		



Material Test Report

Report Number: 24-081-84A
Issue Number: 1
Date Issued: 11/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11326
Date Sampled: 26/07/2024
Dates Tested: 26/07/2024 - 26/08/2024
Location: Edens Crossing, Stage 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S11326A				
Date Sampled	26/07/2024				
Date Tested	26/08/2024				
Material Source	Disturbed				
Sample Location	Stage 31, Lot 1285 Line / Offset: O/S NW CNR, Offset: 8m South, 2m East (Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	>600				
Pocket Penetrometer after (kPa)	170				
Shrinkage Moisture Content (%)	9.8				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	8.8				
Swell Moisture Content After (%)	17.6				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	0.2				
Visual Description	**				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-91
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11872
Sample Number: S11872A
Date Sampled: 29/08/2024
Dates Tested: 29/08/2024 - 09/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Lot 1469 Line / Offset: O/S NE CNR, Offset: 10m South, 4m West, Depth: 0.6m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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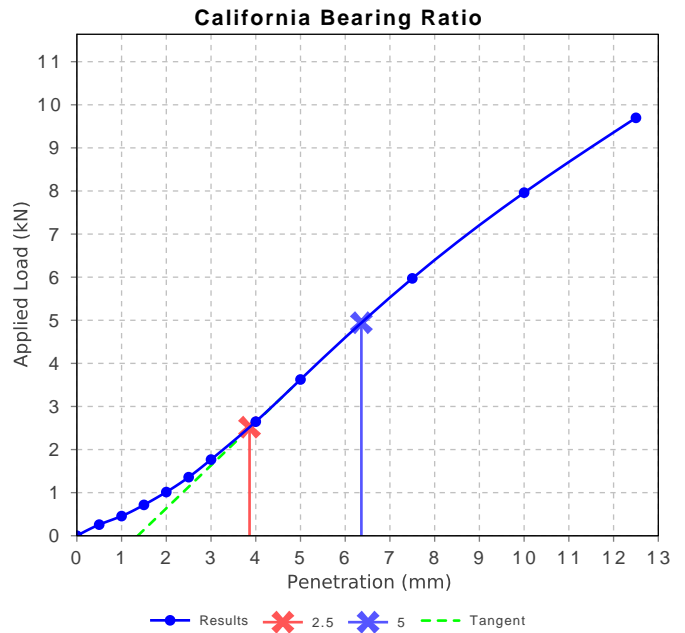


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	25		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.87		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	98.0		
Dry Density after Soaking (t/m ³)	1.87		
Field Moisture Content (%)	11.5		
Moisture Content at Placement (%)	12.3		
Moisture Content Top 30mm (%)	13.5		
Moisture Content Rest of Sample (%)	13.5		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	24.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-91
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11872
Sample Number: S11872A
Date Sampled: 29/08/2024
Dates Tested: 29/08/2024 - 13/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: 100% Standard
Site Selection: Selected by GTA
Sample Location: Lot 1469 Line / Offset: O/S NE CNR, Offset: 10m South, 4m West, Depth: 0.6m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

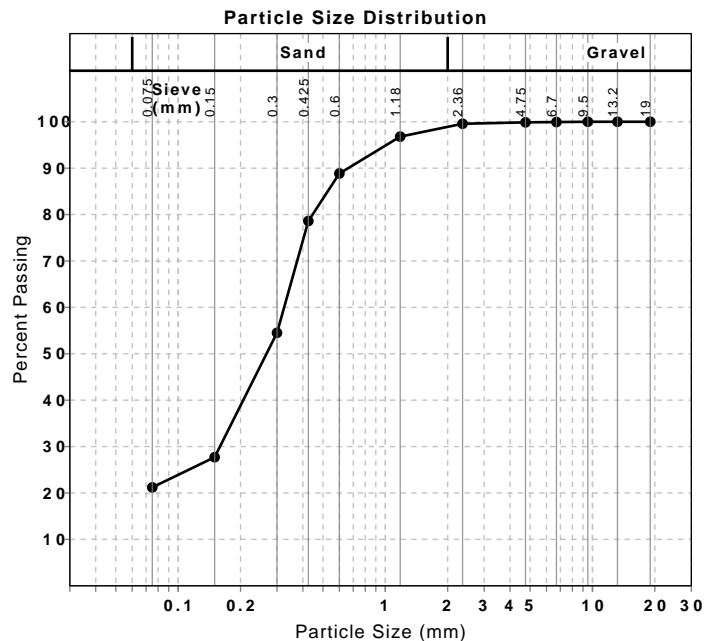
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	100		0	
1.18 mm	97		3	
0.6 mm	89		8	
0.425 mm	79		10	
0.3 mm	55		24	
0.15 mm	28		27	
0.075 mm	21		7	

Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	10		
Liquid Limit (%)	30		
Plastic Limit (%)	21		
Plasticity Index (%)	9		
Weighted Plasticity Index (%)	707		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	4.0		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	4 *		
Soil Description	Pale, silty sandstone		
Nature of Water	Distilled		
Temperature of Water (°C)	20		
* Mineral Present	Carbonate		



Material Test Report

Report Number: 24-081-91A
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11872
Dates Tested: 29/08/2024 - 18/09/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S11872A				
Date Sampled	29/08/2024				
Date Tested	18/09/2024				
Material Source	Disturbed				
Sample Location	Lot 1469 Line / Offset: O/S NE CNR, Offset: 10m South, 4m West (0.6m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	>600				
Pocket Penetrometer after (kPa)	340				
Shrinkage Moisture Content (%)	11.7				
Shrinkage (%)	0.5				
Swell Moisture Content Before (%)	11.5				
Swell Moisture Content After (%)	15.3				
Swell (%)	-0.0				
Shrink Swell Index Iss (%)	0.3				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-93
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11924
Sample Number: S11924A
Date Sampled: 02/09/2024
Dates Tested: 02/09/2024 - 16/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: MDD - 1.8769
 OMC - 13.3
Site Selection: Selected by GTA
Sample Location: Lot 1473 Line / Offset: O/S NE CNR, Offset: 3m West, 9m South, Depth: 0.5m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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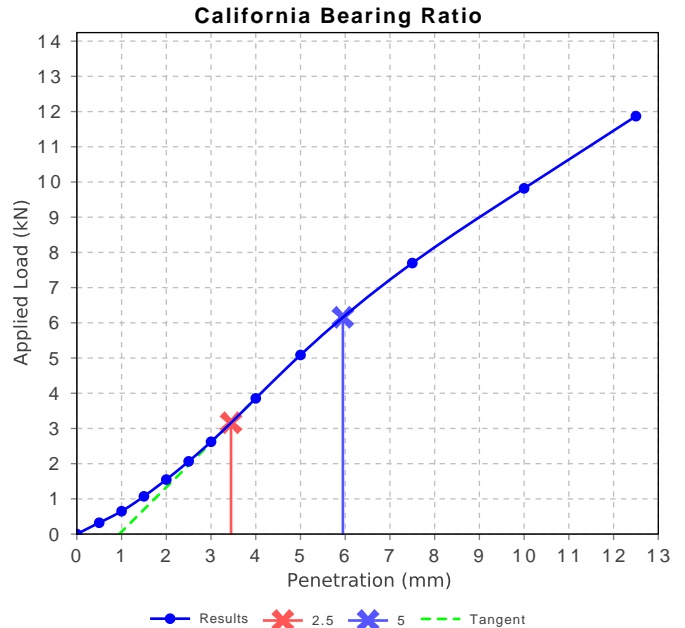


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.88		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	102.5		
Dry Density after Soaking (t/m ³)	1.87		
Field Moisture Content (%)	7.6		
Moisture Content at Placement (%)	13.6		
Moisture Content Top 30mm (%)	14.2		
Moisture Content Rest of Sample (%)	14.0		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	43.8		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-93
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11924
Sample Number: S11924A
Date Sampled: 02/09/2024
Dates Tested: 02/09/2024 - 13/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: MDD - 1.8769
 OMC - 13.3
Site Selection: Selected by GTA
Sample Location: Lot 1473 Line / Offset: O/S NE CNR, Offset: 3m West, 9m South, Depth: 0.5m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

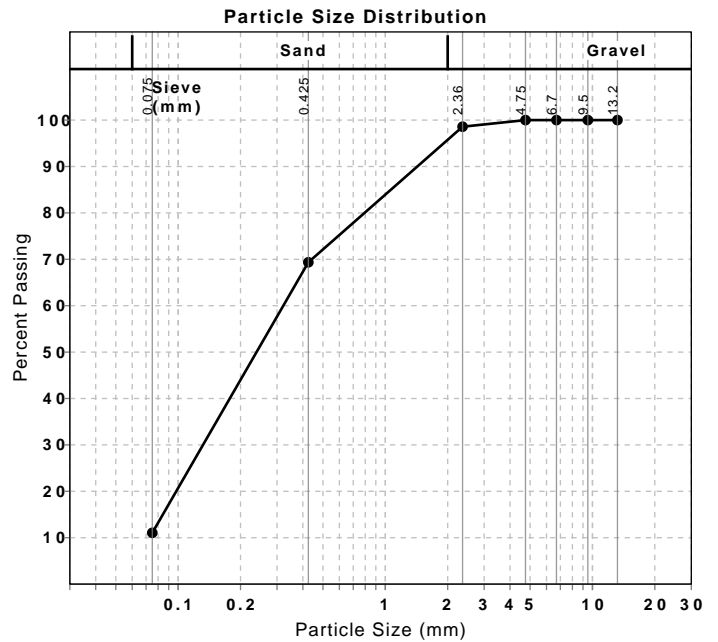
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Particle Size Distribution (Q103A & AS 1289.2.1.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
0.425 mm	69		29	
0.075 mm	11		58	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)		
	Min	Max
Liquid Limit (%)		
Plastic Limit (%)		
Plasticity Index (%)	3.8	
Weighted Plasticity Index (%)	264	

Linear Shrinkage (Q106)		
	Min	Max
Linear Shrinkage (%)		
Linear Shrinkage (%)	3.0	
Weighted Linear Shrinkage (%)	211	

Emerson Class Number of a Soil (AS 1289 3.8.1)		
	Min	Max
Emerson Class		
Emerson Class	3	
Soil Description	Pale mottled, silty sandstone	
Nature of Water	Distilled	
Temperature of Water (°C)	21	



Material Test Report

Report Number: 24-081-93A
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11924
Dates Tested: 02/09/2024 - 16/09/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S11924A				
Date Sampled	02/09/2024				
Date Tested	16/09/2024				
Material Source	Disturbed				
Sample Location	Lot 1473 Line / Offset: O/S NE CNR, Offset: 3m West, 9m South (0.5m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	580				
Pocket Penetrometer after (kPa)	190				
Shrinkage Moisture Content (%)	7.5				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	9.1				
Swell Moisture Content After (%)	17.6				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-94
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11950
Sample Number: S11950A
Date Sampled: 03/09/2024
Dates Tested: 03/09/2024 - 16/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1664 Line / Offset: O/S NE CNR, Offset: 3m West, 8m South, Depth: 0.8m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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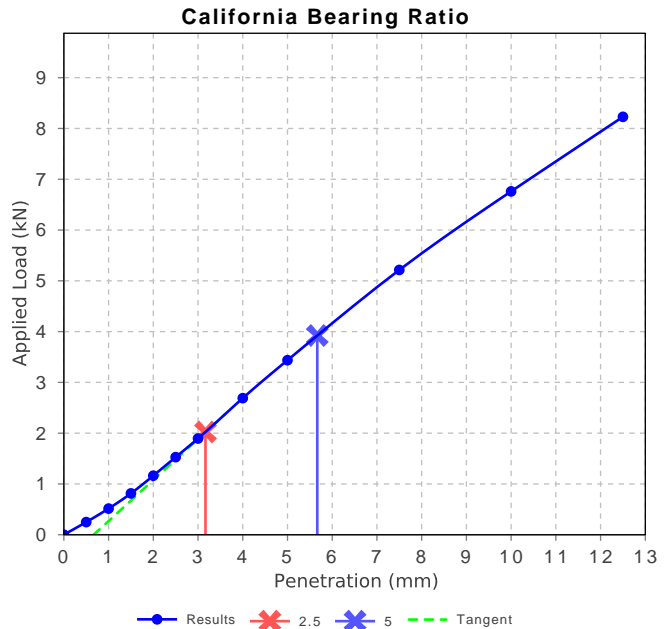


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	20		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.89		
Optimum Moisture Content (%)	11.5		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	104.0		
Dry Density after Soaking (t/m ³)	1.88		
Field Moisture Content (%)	8.7		
Moisture Content at Placement (%)	12.0		
Moisture Content Top 30mm (%)	12.9		
Moisture Content Rest of Sample (%)	13.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	48.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-94
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11950
Sample Number: S11950A
Date Sampled: 03/09/2024
Dates Tested: 03/09/2024 - 13/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1664 Line / Offset: O/S NE CNR, Offset: 3m West, 8m South, Depth: 0.8m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

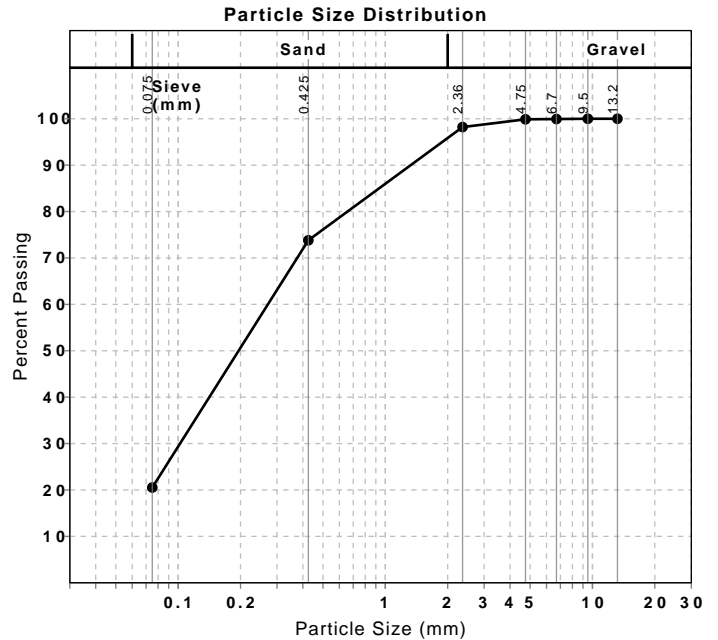
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A & AS 1289.2.1.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	98		2	
0.425 mm	74		24	
0.075 mm	21		53	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			27.2
Plastic Limit (%)			21.4
Plasticity Index (%)			5.8
Weighted Plasticity Index (%)			428

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			3.6
Weighted Linear Shrinkage (%)			269

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			4 *
Soil Description			Brown, silty sandstone
Nature of Water			Distilled
Temperature of Water (°C)			21
* Mineral Present			Carbonate



Material Test Report

Report Number: 24-081-94A
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11950
Dates Tested: 03/09/2024 - 18/09/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S11950A				
Date Sampled	03/09/2024				
Date Tested	18/09/2024				
Material Source	Disturbed				
Sample Location	Lot 1664 Line / Offset: O/S NE CNR, Offset: 3m West, 8m South (0.8m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	>600				
Pocket Penetrometer after (kPa)	480				
Shrinkage Moisture Content (%)	10.9				
Shrinkage (%)	0.6				
Swell Moisture Content Before (%)	10.6				
Swell Moisture Content After (%)	13.9				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	0.3				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.
Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.
NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-95
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11979
Sample Number: S11979A
Date Sampled: 04/09/2024
Dates Tested: 04/09/2024 - 16/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be emailed
Site Selection: Selected by GTA
Sample Location: Lot 1433 Line / Offset: O/S NE CNR, Offset: 8m South, 4m West, Depth: 0.6m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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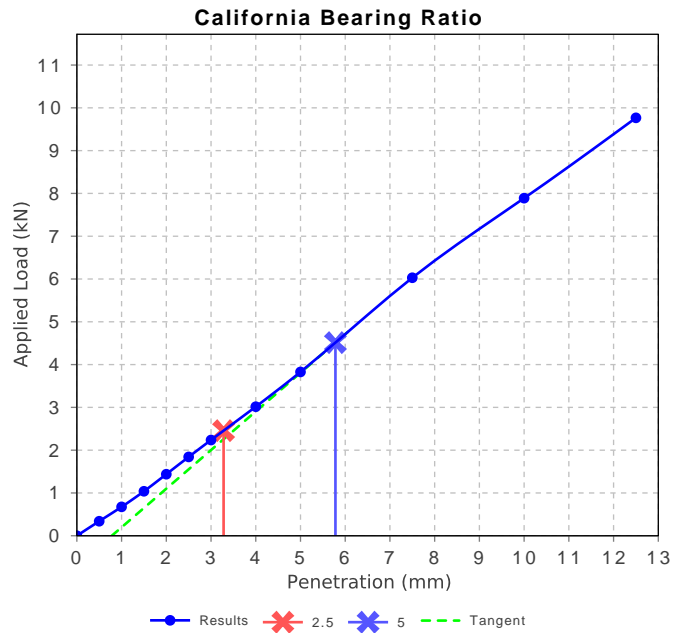


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	25		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.84		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m ³)	1.84		
Field Moisture Content (%)	8.0		
Moisture Content at Placement (%)	13.2		
Moisture Content Top 30mm (%)	13.8		
Moisture Content Rest of Sample (%)	13.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	46.6		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-95
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11979
Sample Number: S11979A
Date Sampled: 04/09/2024
Dates Tested: 04/09/2024 - 16/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: MDD - OMC to be emailed
Site Selection: Selected by GTA
Sample Location: Lot 1433 Line / Offset: O/S NE CNR, Offset: 8m South, 4m West, Depth: 0.6m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

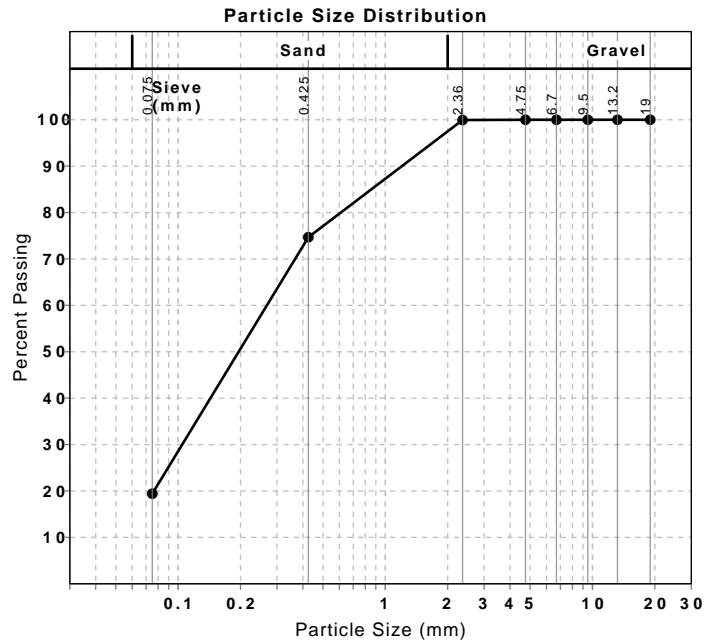
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A & AS 1289.2.1.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	100		0	
0.425 mm	75		25	
0.075 mm	19		55	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			27.6
Plastic Limit (%)			22.8
Plasticity Index (%)			4.8
Weighted Plasticity Index (%)			359

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			2.6
Weighted Linear Shrinkage (%)			189

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			5
Soil Description			Pale mottled, silty Sandstone
Nature of Water			Distilled
Temperature of Water (°C)			20



Material Test Report

Report Number: 24-081-95A
Issue Number: 1
Date Issued: 23/09/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 11979
Dates Tested: 04/09/2024 - 16/09/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S11979A				
Date Sampled	04/09/2024				
Date Tested	16/09/2024				
Material Source	Disturbed				
Sample Location	Lot 1433 Line / Offset: O/S NE CNR, Offset: 8m South, 4m West (0.6m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	600				
Pocket Penetrometer after (kPa)	210				
Shrinkage Moisture Content (%)	7.9				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	7.5				
Swell Moisture Content After (%)	17.6				
Swell (%)	-0.3				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.
Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.
NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-107
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12113
Sample Number: S12113A
Date Sampled: 09/09/2024
Dates Tested: 09/09/2024 - 20/09/2024
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1457, O/S NW CNR, 10m South, 4m South



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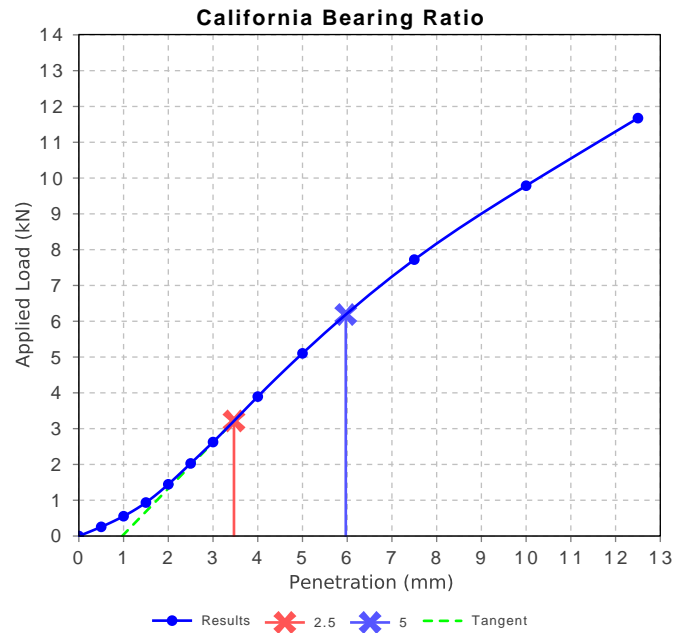


Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	99.0		
Dry Density after Soaking (t/m ³)	1.85		
Field Moisture Content (%)	9.5		
Moisture Content at Placement (%)	13.1		
Moisture Content Top 30mm (%)	13.6		
Moisture Content Rest of Sample (%)	13.8		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	71.4		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-107
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12113
Sample Number: S12113A
Date Sampled: 09/09/2024
Dates Tested: 09/09/2024 - 17/09/2024
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1457, O/S NW CNR, 10m South, 4m South



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Approved Signatory: Rhys Mitchell
 Field Technician

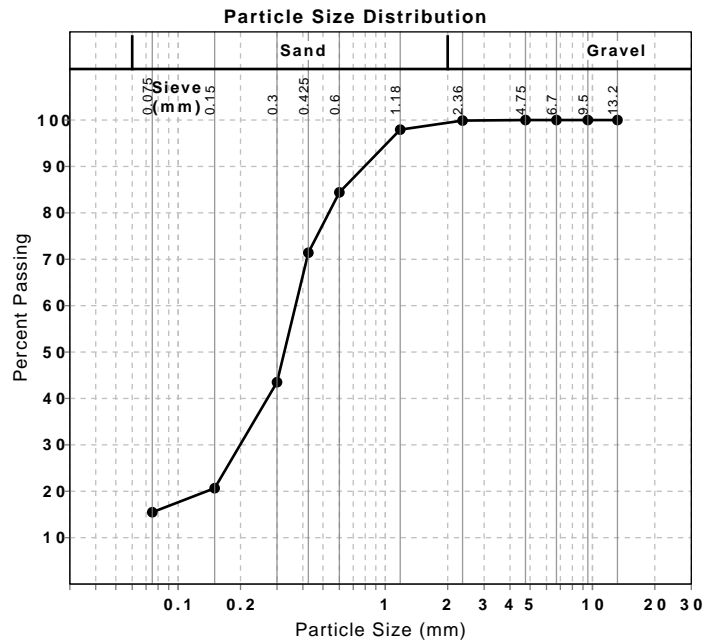
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (AS1289 3.6.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	100		0	
1.18 mm	98		2	
0.6 mm	84		14	
0.425 mm	71		13	
0.3 mm	43		28	
0.15 mm	21		23	
0.075 mm	15		5	

Atterberg Limit (AS1289 3.9.2 & 3.2.1 & 3.3.2)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Retained 0.425 (%)	13		
Liquid Limit (%)	29		
Plastic Limit (%)	22		
Plasticity Index (%)	7		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.9.2		
Linear Shrinkage (%)	3.0		
Cracking Crumbling Curling	None		

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	5		
Soil Description	Pale mottled, silty Sandstone		
Nature of Water	Distilled		
Temperature of Water (°C)	19		



Material Test Report

Report Number: 24-081-107A
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12113
Dates Tested: 09/09/2024 - 24/09/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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2 / 40 Boyland Ave Cooper Plains QLD 4108
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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12113A				
Date Sampled	09/09/2024				
Date Tested	24/09/2024				
Material Source	Disturbed				
Sample Location	Lot 1457, O/S NW CNR, 10m South, 4m South				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	>600				
Pocket Penetrometer after (kPa)	400				
Shrinkage Moisture Content (%)	9.1				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	10.5				
Swell Moisture Content After (%)	16.3				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	Yes				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-108
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12317
Sample Number: S12317A
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 08/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1452 Line / Offset: O/S NE CNR, Offset: 9m East, 2m South, Depth: 0.7m Below Capping FSL



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 2 / 40 Boyland Ave Cooper Plains QLD 4108
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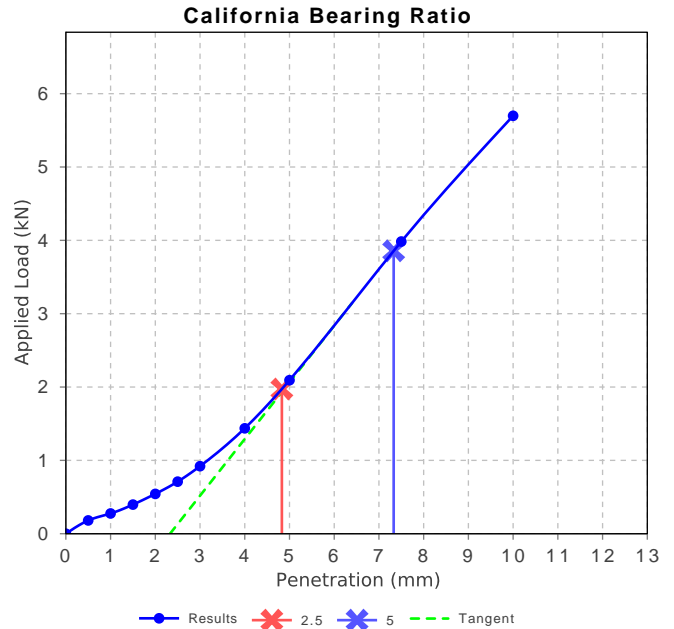


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	19		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.80		
Optimum Moisture Content (%)	15.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	98.0		
Dry Density after Soaking (t/m ³)	1.80		
Field Moisture Content (%)	11.5		
Moisture Content at Placement (%)	14.8		
Moisture Content Top 30mm (%)	15.8		
Moisture Content Rest of Sample (%)	16.0		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	48.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-108
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12317
Sample Number: S12317A
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 04/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1452 Line / Offset: O/S NE CNR, Offset: 9m East, 2m South, Depth: 0.7m Below Capping FSL



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

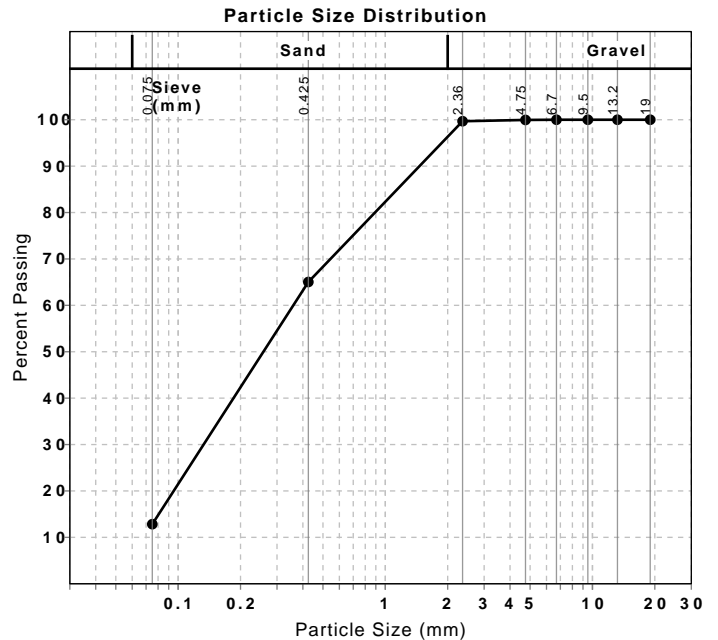
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	100		0	
0.425 mm	65		35	
0.075 mm	13		52	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			25.4
Plastic Limit (%)			21.6
Plasticity Index (%)			3.8
Weighted Plasticity Index (%)			247

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			1.8
Weighted Linear Shrinkage (%)			111

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			2
Soil Description			Pale, silty Sandstone
Nature of Water			Distilled
Temperature of Water (°C)			19



Material Test Report

Report Number: 24-081-108A
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12317
Dates Tested: 23/09/2024 - 03/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



Qualtest Laboratory Pty Ltd
Brisbane Laboratory
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Phone: 0417 011 515
Email: rhys@qualtestgeo.com

Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12317A				
Date Sampled	23/09/2024				
Date Tested	03/10/2024				
Material Source	Disturbed				
Sample Location	Lot 1452 Line / Offset: O/S NE CNR, Offset: 9m East, 2m South (0.7m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	**				
Pocket Penetrometer after (kPa)	400				
Shrinkage Moisture Content (%)	16.6				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	11.7				
Swell Moisture Content After (%)	16.8				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-109
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12367
Sample Number: S12367A
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 08/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1475 Line / Offset: O/S SW CNR, Offset: 12m East, 2m North, Depth: 0.7m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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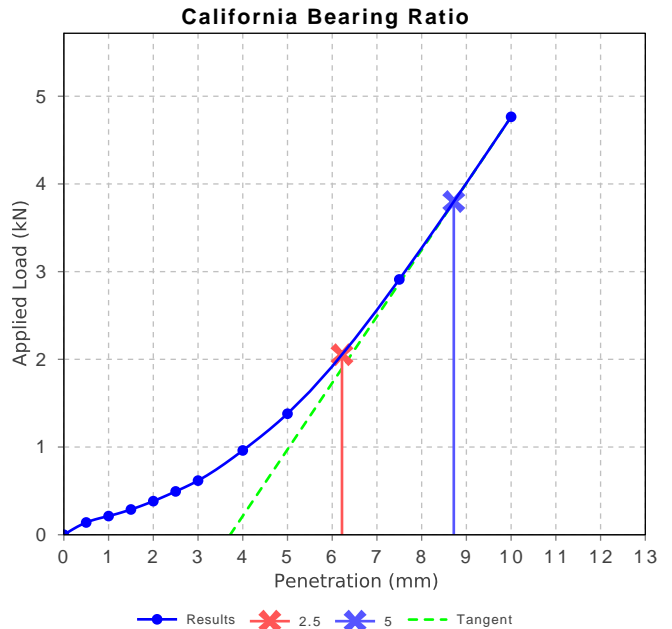


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	19		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.83		
Optimum Moisture Content (%)	14.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	100.0		
Dry Density after Soaking (t/m ³)	1.83		
Field Moisture Content (%)	10.2		
Moisture Content at Placement (%)	13.8		
Moisture Content Top 30mm (%)	14.1		
Moisture Content Rest of Sample (%)	14.2		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	48.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-109
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12367
Sample Number: S12367A
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 08/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1475 Line / Offset: O/S SW CNR, Offset: 12m East, 2m North, Depth: 0.7m Below Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

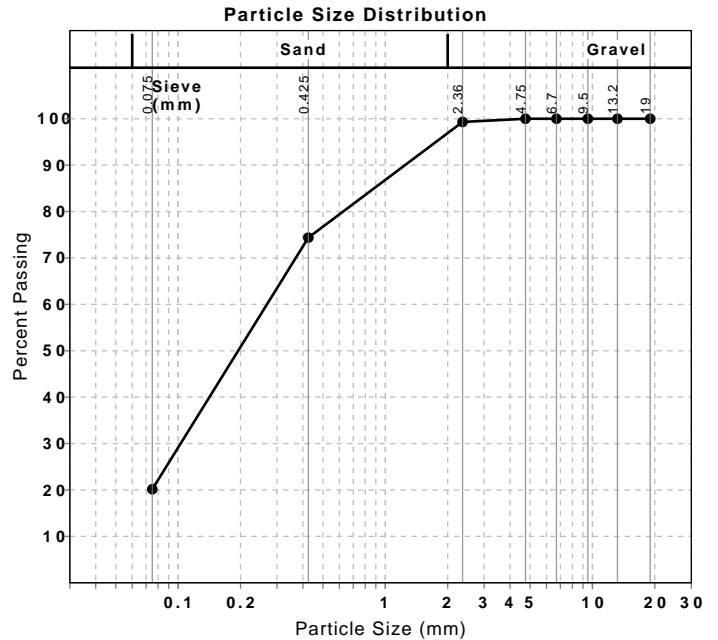
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
0.425 mm	74		25	
0.075 mm	20		54	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			27.6
Plastic Limit (%)			24.0
Plasticity Index (%)			3.6
Weighted Plasticity Index (%)			268

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			2.8
Weighted Linear Shrinkage (%)			206

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			5
Soil Description			Pale, silty Sandstone
Nature of Water			Distilled
Temperature of Water (°C)			19



Material Test Report

Report Number: 24-081-109A
Issue Number: 1
Date Issued: 14/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12367
Dates Tested: 23/09/2024 - 03/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12367A				
Date Sampled	23/09/2024				
Date Tested	03/10/2024				
Material Source	Disturbed				
Sample Location	Lot 1475 Line / Offset: O/S SW CNR, Offset: 12m East, 2m North (0.7m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	600				
Pocket Penetrometer after (kPa)	570				
Shrinkage Moisture Content (%)	14.5				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	10.3				
Swell Moisture Content After (%)	15.7				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-113
Issue Number: 1
Date Issued: 21/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12423
Sample Number: S12423A
Date Sampled: 25/09/2024
Dates Tested: 25/09/2024 - 18/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Road Line / Offset: O/S NE CNR Lot 1475, Offset: 6m East, 2m North, Depth: 0.2m Below Cpping FSL
Material: General Fill
Material Source: Onsite Capping



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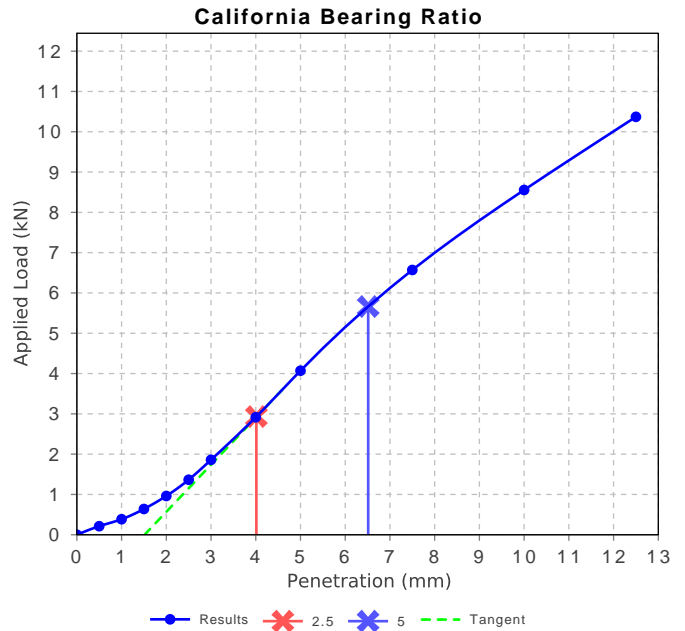


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.86		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m ³)	1.85		
Field Moisture Content (%)	7.5		
Moisture Content at Placement (%)	12.6		
Moisture Content Top 30mm (%)	13.7		
Moisture Content Rest of Sample (%)	13.8		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	118.1		
Swell (%)	1.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-113
Issue Number: 1
Date Issued: 21/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12423
Sample Number: S12423A
Date Sampled: 25/09/2024
Dates Tested: 25/09/2024 - 14/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Road Line / Offset: O/S NE CNR Lot 1475, Offset: 6m East, 2m North, Depth: 0.2m Below Cpping FSL
Material: General Fill
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

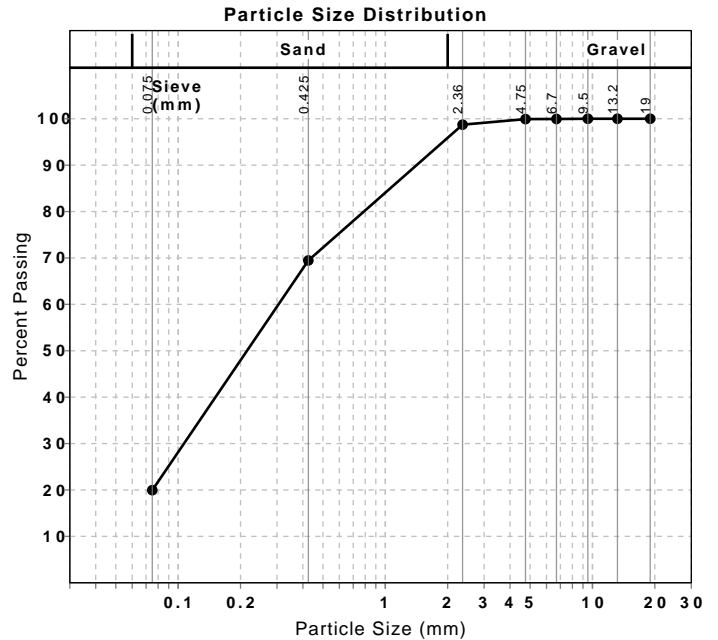
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
0.425 mm	69		29	
0.075 mm	20		50	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			28.4
Plastic Limit (%)			22.2
Plasticity Index (%)			6.2
Weighted Plasticity Index (%)			431

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			2.6
Weighted Linear Shrinkage (%)			181

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			5
Soil Description			Clayey Sand
Nature of Water			Distilled
Temperature of Water (°C)			23



Material Test Report

Report Number: 24-081-113A
Issue Number: 1
Date Issued: 21/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12423
Dates Tested: 25/09/2024 - 11/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12423A				
Date Sampled	25/09/2024				
Date Tested	11/10/2024				
Material Source	Disturbed				
Sample Location	Road Line / Offset: O/S NE CNR Lot 1475, Offset: 6m East, 2m North (0.2m Below Cpping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	580				
Pocket Penetrometer after (kPa)	540				
Shrinkage Moisture Content (%)	12.8				
Shrinkage (%)	0.5				
Swell Moisture Content Before (%)	13.2				
Swell Moisture Content After (%)	15.5				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.3				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-114
Issue Number: 1
Date Issued: 21/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12514
Sample Number: S12514A
Date Sampled: 01/10/2024
Dates Tested: 01/10/2024 - 18/10/2024
Sampling Method: AS 1141.3.1 10.1 - Sampling from a placed layer of pavement
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1480, Offset: O/S SE CNR, 7m North, 5m West, Depth: 0.6m Below Capping FSL
Material: Clayey Sand - Ripped Sandstone
Material Source: Onsite



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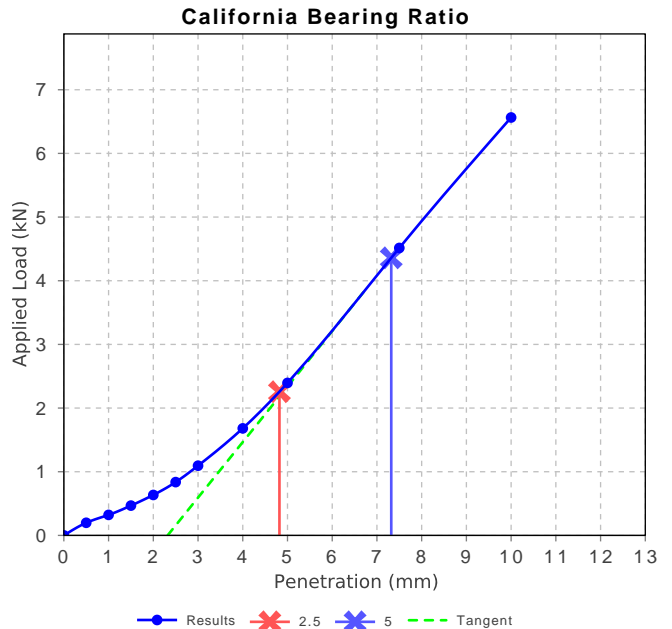


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	20		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.89		
Optimum Moisture Content (%)	12.0		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	98.5		
Dry Density after Soaking (t/m ³)	1.90		
Field Moisture Content (%)	12.4		
Moisture Content at Placement (%)	12.0		
Moisture Content Top 30mm (%)	12.8		
Moisture Content Rest of Sample (%)	13.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	96.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-114
Issue Number: 1
Date Issued: 21/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12514
Sample Number: S12514A
Date Sampled: 01/10/2024
Dates Tested: 01/10/2024 - 14/10/2024
Sampling Method: AS 1141.3.1 10.1 - Sampling from a placed layer of pavement
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1480, Offset: O/S SE CNR, 7m North, 5m West, Depth: 0.6m Below Capping FSL
Material: Clayey Sand - Ripped Sandstone
Material Source: Onsite



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
Field Technician

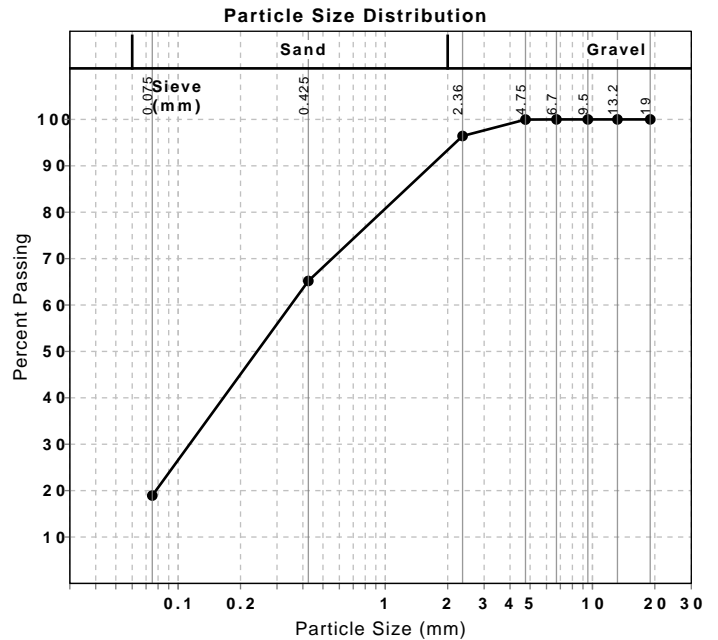
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A & AS 1289.2.1.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	96		4	
0.425 mm	65		31	
0.075 mm	19		46	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			Min	Max
Liquid Limit (%)		27.2		
Plastic Limit (%)		21.2		
Plasticity Index (%)		6.0		
Weighted Plasticity Index (%)		391		

Linear Shrinkage (Q106)			Min	Max
Linear Shrinkage (%)		2.8		
Weighted Linear Shrinkage (%)		178		

Emerson Class Number of a Soil (AS 1289 3.8.1)			Min	Max
Emerson Class		5		
Soil Description		Clayey Sand		
Nature of Water		Distilled		
Temperature of Water (°C)		23		



Material Test Report

Report Number: 24-081-114A
Issue Number: 1
Date Issued: 21/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12514
Dates Tested: 01/10/2024 - 11/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12514A				
Date Sampled	01/10/2024				
Date Tested	11/10/2024				
Material Source	Disturbed				
Sample Location	Lot 1480, Offset: O/S SE CNR, 7m North, 5m West (0.6m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	600				
Pocket Penetrometer after (kPa)	560				
Shrinkage Moisture Content (%)	11.9				
Shrinkage (%)	0.4				
Swell Moisture Content Before (%)	12.8				
Swell Moisture Content After (%)	16.2				
Swell (%)	-0.1				
Shrink Swell Index I _{ss} (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (I_{ss}) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-115
Issue Number: 1
Date Issued: 22/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12265
Sample Number: S12265B
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 01/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lo 1448 Line / Offset: O/S SW CNR, Offset: 14m East, 3m North, Depth: 0.7m Below Capping FSL



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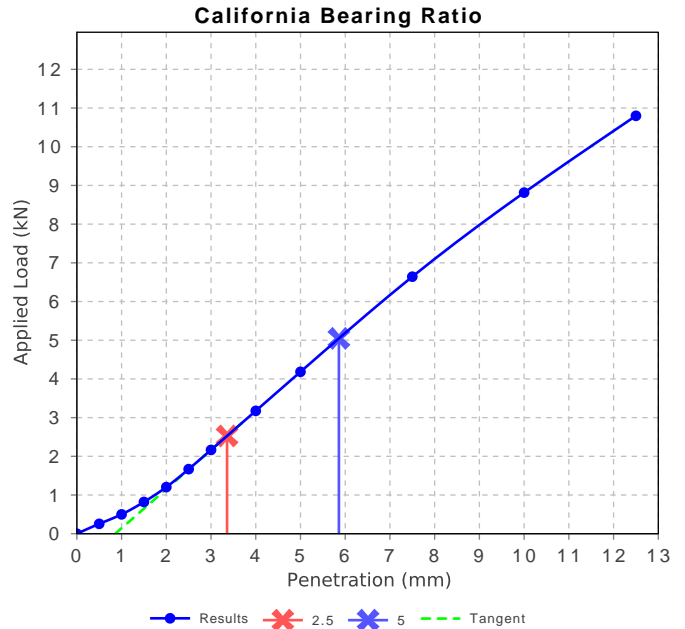


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	25		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.82		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m ³)	1.81		
Field Moisture Content (%)	10.6		
Moisture Content at Placement (%)	13.1		
Moisture Content Top 30mm (%)	14.0		
Moisture Content Rest of Sample (%)	14.8		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	48.0		
Swell (%)	1.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-115
Issue Number: 1
Date Issued: 22/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12265
Sample Number: S12265B
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 03/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lo 1448 Line / Offset: O/S SW CNR, Offset: 14m East, 3m North, Depth: 0.7m Below Capping FSL



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Approved Signatory: Rhys Mitchell
 Field Technician

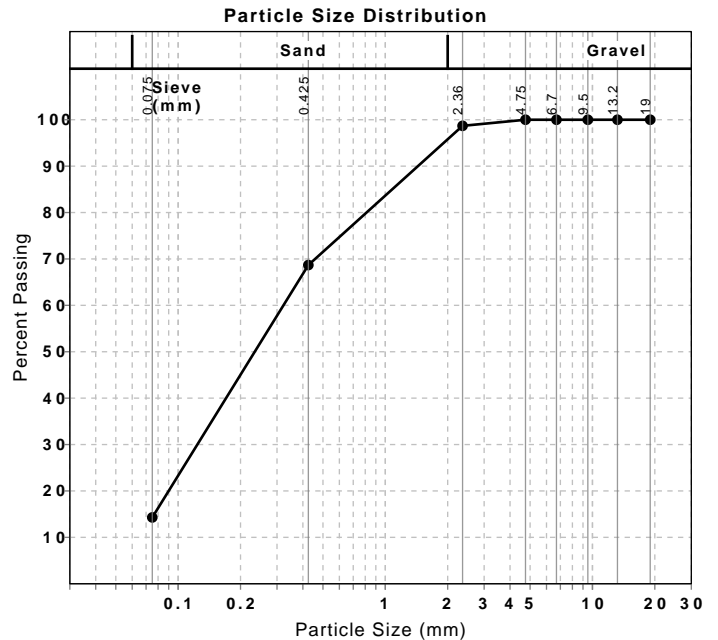
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
0.425 mm	69		30	
0.075 mm	14		54	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			25.6
Plastic Limit (%)			21.8
Plasticity Index (%)			3.8
Weighted Plasticity Index (%)			261

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			1.6
Weighted Linear Shrinkage (%)			105

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			5
Soil Description			Pale, silty Sandstone
Nature of Water			Distilled
Temperature of Water (°C)			22



Material Test Report

Report Number: 24-081-115A
Issue Number: 1
Date Issued: 22/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12265
Dates Tested: 23/09/2024 - 03/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



Qualtest Laboratory Pty Ltd
Brisbane Laboratory
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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12265B				
Date Sampled	23/09/2024				
Date Tested	03/10/2024				
Material Source	Disturbed				
Sample Location	Lo 1448 Line / Offset: O/S SW CNR, Offset: 14m East, 3m North (0.7m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	550				
Pocket Penetrometer after (kPa)	280				
Shrinkage Moisture Content (%)	13.6				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	10.5				
Swell Moisture Content After (%)	17.6				
Swell (%)	-0.2				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-115B
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: re reporting
Date Issued: 01/11/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12265
Sample Number: S12265B
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 21/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lo 1448 Line / Offset: O/S SW CNR, Offset: 14m East, 3m North, Depth: 0.7m Below Capping FSL



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Phone: 0417 011 515
Email: ryan@qualtestgeo.com

Ryan Osborne (Soil Technician)

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	1x10 ⁻⁶		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS1289 5.1.1 & 2.1.1		
Maximum Dry Density (t/m ³)	1.82		
Optimum Moisture Content (%)	13.5		
Field Moisture Content (%)	10.6		
Sieve for Oversize (mm)	19.0		
Oversize Material (%)	0		
Placement Moisture Content (%)	13.6		
Laboratory Density Ratio (%)	97.1		
Laboratory Moisture Ratio (%)	101.2		
Surcharges and Pressure Applied	2.87		

Material Test Report

Report Number: 24-081-116
Issue Number: 1
Date Issued: 22/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12351
Sample Number: S12351A
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 08/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: Lot 1446 Line / Offset: O/S SW CNR, Offset: 10m East, 3m North, Depth: 0.7m Below Capping FSL
Material: General Fill
Material Source: Onsite Capping



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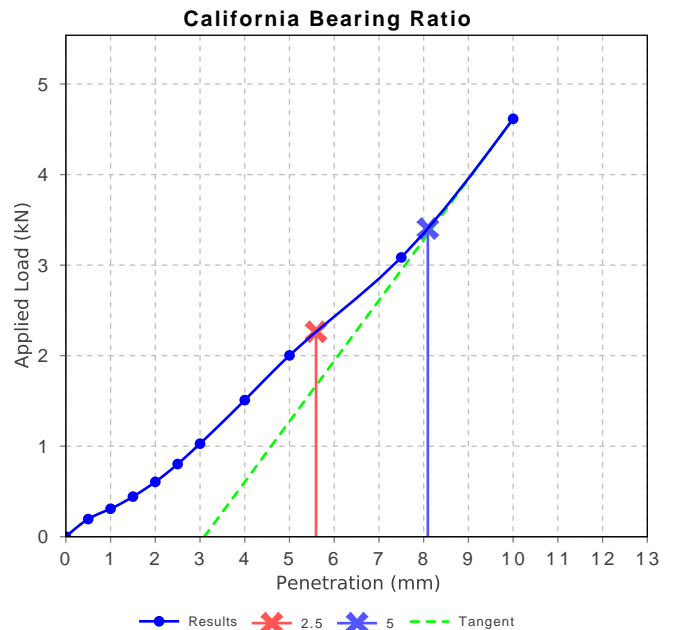


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	17		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	100.0		
Dry Density after Soaking (t/m ³)	1.84		
Field Moisture Content (%)	8.9		
Moisture Content at Placement (%)	13.1		
Moisture Content Top 30mm (%)	14.2		
Moisture Content Rest of Sample (%)	14.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	48.0		
Swell (%)	1.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-116
Issue Number: 1
Date Issued: 22/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12351
Sample Number: S12351A
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 08/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: Lot 1446 Line / Offset: O/S SW CNR, Offset: 10m East, 3m North, Depth: 0.7m Below Capping FSL
Material: General Fill
Material Source: Onsite Capping



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

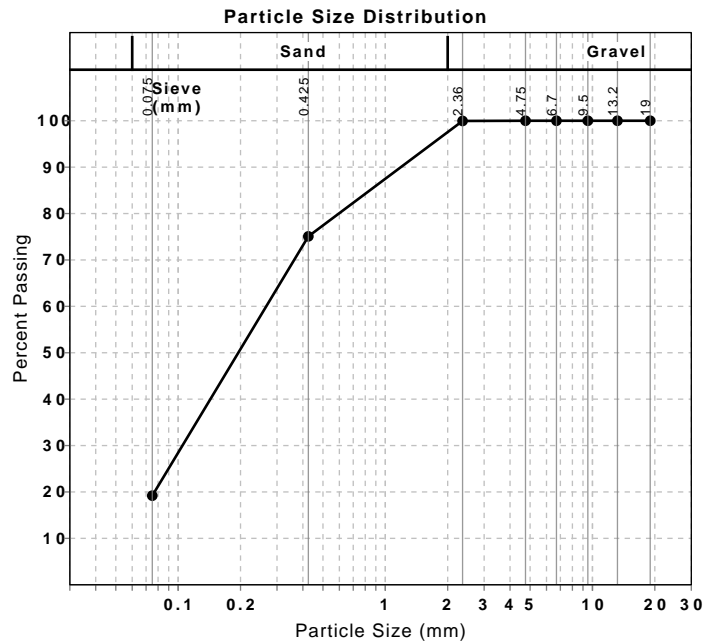
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	100		0	
0.425 mm	75		25	
0.075 mm	19		56	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			28.2
Plastic Limit (%)			23.8
Plasticity Index (%)			4.4
Weighted Plasticity Index (%)			330

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			3.2
Weighted Linear Shrinkage (%)			238

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			5
Soil Description			Pale, silty Sandstone
Nature of Water			Distilled
Temperature of Water (°C)			19



Material Test Report

Report Number: 24-081-116A
Issue Number: 1
Date Issued: 22/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12351
Dates Tested: 23/09/2024 - 03/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12351A				
Date Sampled	23/09/2024				
Date Tested	03/10/2024				
Material Source	Disturbed				
Sample Location	Lot 1446 Line / Offset: O/S SW CNR, Offset: 10m East, 3m North (0.7m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	600				
Pocket Penetrometer after (kPa)	460				
Shrinkage Moisture Content (%)	13.1				
Shrinkage (%)	0.5				
Swell Moisture Content Before (%)	8.9				
Swell Moisture Content After (%)	15.8				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	0.3				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-116B
Issue Number: 1
Date Issued: 01/11/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12351
Sample Number: S12351A
Date Sampled: 23/09/2024
Dates Tested: 23/09/2024 - 21/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: Lot 1446 Line / Offset: O/S SW CNR, Offset: 10m East, 3m North, Depth: 0.7m Below Capping FSL
Material: General Fill
Material Source: Onsite Capping



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Ryan Osborne (Soil Technician)

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	5x10 ⁻⁷		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS1289 5.1.1 & 2.1.1		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	13.0		
Field Moisture Content (%)	8.9		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0		
Placement Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	96.7		
Laboratory Moisture Ratio (%)	99.0		
Surcharges and Pressure Applied	2.87		

Material Test Report

Report Number: 24-081-117
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12411
Sample Number: S12411A
Date Sampled: 25/09/2024
Dates Tested: 25/09/2024 - 15/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1460, O/S SW CNR, 8m East, 2m North, Depth: 0.2m Below FSL
Material: General Fill
Material Source: Onsite Capping



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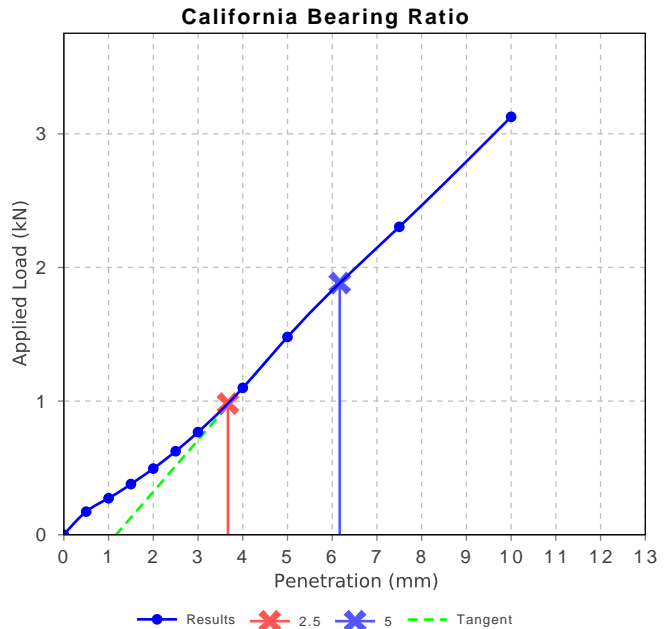


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	10		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.87		
Optimum Moisture Content (%)	11.5		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	104.0		
Dry Density after Soaking (t/m ³)	1.86		
Field Moisture Content (%)	9.8		
Moisture Content at Placement (%)	11.7		
Moisture Content Top 30mm (%)	13.5		
Moisture Content Rest of Sample (%)	15.0		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	24.0		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-117
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12411
Sample Number: S12411A
Date Sampled: 25/09/2024
Dates Tested: 25/09/2024 - 14/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1460, O/S SW CNR, 8m East, 2m North, Depth: 0.2m Below FSL
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

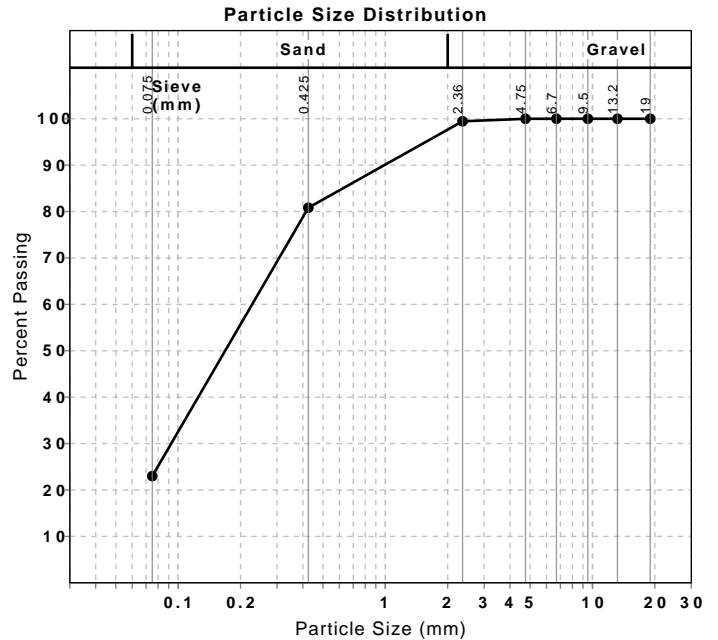
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
0.425 mm	81		19	
0.075 mm	23		58	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			25.6
Plastic Limit (%)			21.6
Plasticity Index (%)			4.0
Weighted Plasticity Index (%)			323

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			2.8
Weighted Linear Shrinkage (%)			221

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			5
Soil Description			Clayey Sand
Nature of Water			Distilled
Temperature of Water (°C)			23



Material Test Report

Report Number: 24-081-117A
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12411
Dates Tested: 25/09/2024 - 11/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12411A				
Date Sampled	25/09/2024				
Date Tested	11/10/2024				
Material Source	Disturbed				
Sample Location	Lot 1460, O/S SW CNR, 8m East, 2m North (0.2m Below FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	570				
Pocket Penetrometer after (kPa)	540				
Shrinkage Moisture Content (%)	11.8				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	12.1				
Swell Moisture Content After (%)	15.9				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-117B
Issue Number: 1
Date Issued: 01/11/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12411
Sample Number: S12411A
Date Sampled: 25/09/2024
Dates Tested: 25/09/2024 - 25/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1460, O/S SW CNR, 8m East, 2m North, Depth: 0.2m Below FSL
Material: General Fill
Material Source: Onsite Capping



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Phone: 0417 011 515
Email: ryan@qualtestgeo.com

Ryan Osborne (Soil Technician)

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	5x10 ⁻⁷		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS1289 5.1.1 & 2.1.1		
Maximum Dry Density (t/m ³)	1.87		
Optimum Moisture Content (%)	11.5		
Field Moisture Content (%)	9.8		
Sieve for Oversize (mm)	19.0		
Oversize Material (%)			
Placement Moisture Content (%)	11.3		
Laboratory Density Ratio (%)	100.4		
Laboratory Moisture Ratio (%)	99.7		
Surcharges and Pressure Applied	2.87		

Material Test Report

Report Number: 24-081-118
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12459
Sample Number: S12459A
Date Sampled: 26/09/2024
Dates Tested: 26/09/2024 - 18/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1441, OS NW CNR, 8m South, 2m West, Depth: Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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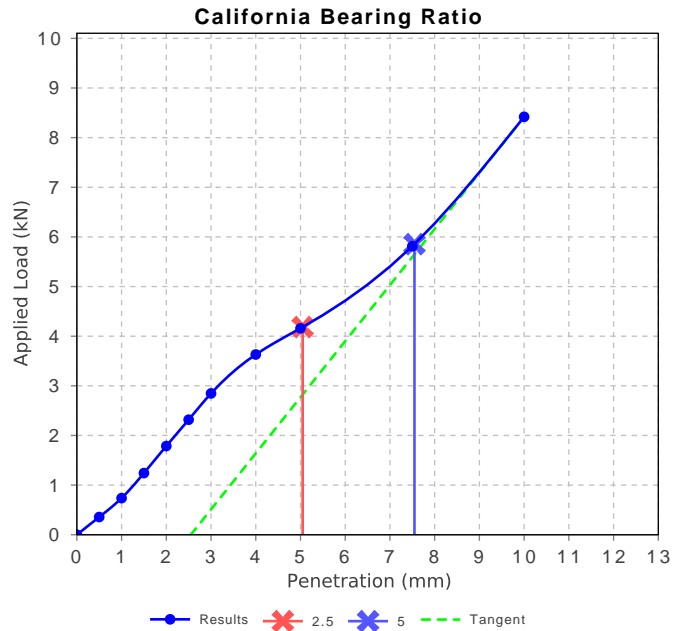


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	30		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.86		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	96.5		
Dry Density after Soaking (t/m ³)	1.87		
Field Moisture Content (%)	12.1		
Moisture Content at Placement (%)	12.3		
Moisture Content Top 30mm (%)	12.5		
Moisture Content Rest of Sample (%)	13.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	95.8		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-118
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12459
Sample Number: S12459A
Date Sampled: 26/09/2024
Dates Tested: 26/09/2024 - 14/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1441, OS NW CNR, 8m South, 2m West, Depth: Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

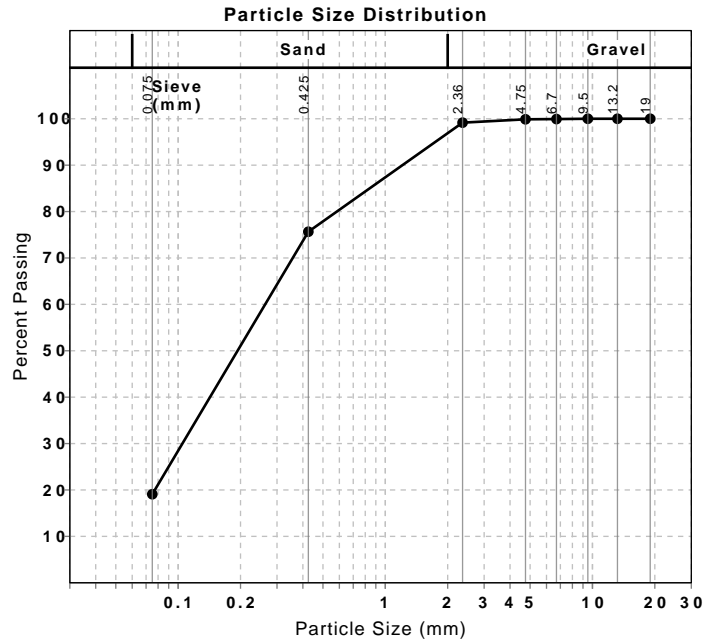
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	99		1	
0.425 mm	76		24	
0.075 mm	19		57	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			
	Min	Max	
Liquid Limit (%)			26.8
Plastic Limit (%)			21.2
Plasticity Index (%)			5.6
Weighted Plasticity Index (%)			424

Linear Shrinkage (Q106)			
	Min	Max	
Linear Shrinkage (%)			3.4
Weighted Linear Shrinkage (%)			253

Emerson Class Number of a Soil (AS 1289 3.8.1)			
	Min	Max	
Emerson Class			5
Soil Description			Clayey Sand
Nature of Water			Distilled
Temperature of Water (°C)			23



Material Test Report

Report Number: 24-081-118A
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12459
Dates Tested: 26/09/2024 - 11/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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

Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12459A				
Date Sampled	26/09/2024				
Date Tested	11/10/2024				
Material Source	Disturbed				
Sample Location	Lot 1441, OS NW CNR, 8m South, 2m West (Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	575				
Pocket Penetrometer after (kPa)	520				
Shrinkage Moisture Content (%)	12.1				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	12.0				
Swell Moisture Content After (%)	16.5				
Swell (%)	0.0				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-118B
Issue Number: 1
Date Issued: 01/11/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12459
Sample Number: S12459A
Date Sampled: 26/09/2024
Dates Tested: 26/09/2024 - 25/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1441, OS NW CNR, 8m South, 2m West, Depth: Capping FSL
Material: Sandy CLAY, Brown
Material Source: Onsite Capping



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Ryan Osborne (Soil Technician)

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	2x10 ⁻⁶		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS1289 5.1.1 & 2.1.1		
Maximum Dry Density (t/m ³)	1.86		
Optimum Moisture Content (%)	12.5		
Field Moisture Content (%)	12.1		
Sieve for Oversize (mm)	19.0		
Oversize Material (%)			
Placement Moisture Content (%)	12.6		
Laboratory Density Ratio (%)	99.9		
Laboratory Moisture Ratio (%)	98.9		
Surcharges and Pressure Applied	2.87		

Material Test Report

Report Number: 24-081-119
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12565
Sample Number: S12565A
Date Sampled: 03/10/2024
Dates Tested: 03/10/2024 - 18/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1483, O/S SE CNR, 10m North, 4m West, Depth: Capping FSL
Material: General Fill
Material Source: Onsite Capping



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

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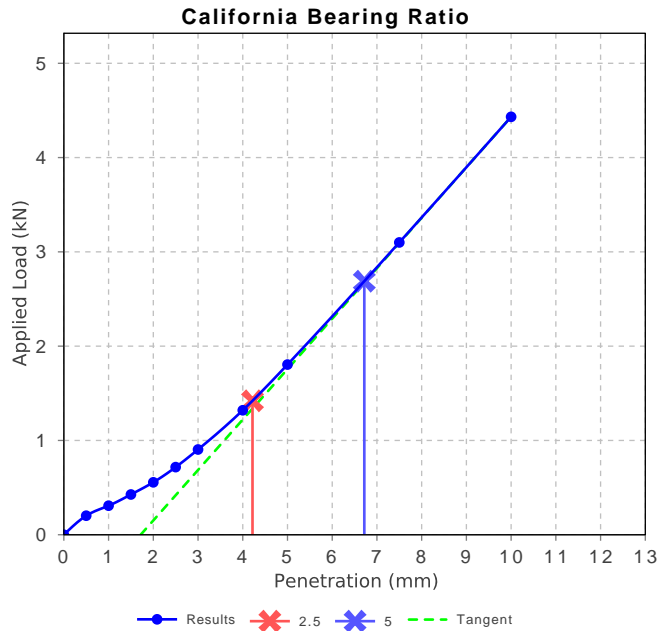


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	14		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.95		
Optimum Moisture Content (%)	10.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	103.5		
Dry Density after Soaking (t/m ³)	1.95		
Field Moisture Content (%)	9.1		
Moisture Content at Placement (%)	11.0		
Moisture Content Top 30mm (%)	11.6		
Moisture Content Rest of Sample (%)	11.7		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	95.8		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-119
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12565
Sample Number: S12565A
Date Sampled: 03/10/2024
Dates Tested: 03/10/2024 - 11/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1483, O/S SE CNR, 10m North, 4m West, Depth: Capping FSL
Material: General Fill
Material Source: Onsite Capping



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Approved Signatory: Rhys Mitchell
 Field Technician

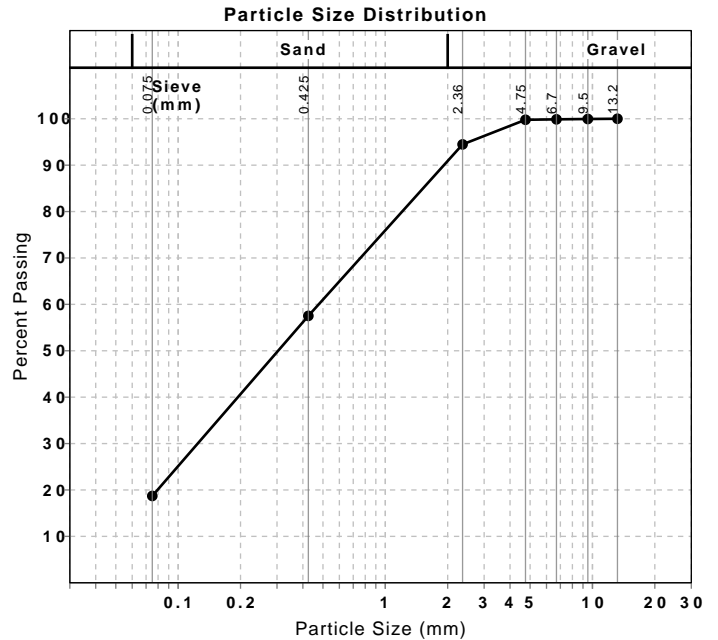
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A & AS 1289.2.1.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	94		5	
0.425 mm	58		37	
0.075 mm	19		39	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			Min	Max
Liquid Limit (%)		27.4		
Plastic Limit (%)		21.0		
Plasticity Index (%)		6.4		
Weighted Plasticity Index (%)		368		

Linear Shrinkage (Q106)			Min	Max
Linear Shrinkage (%)		3.2		
Weighted Linear Shrinkage (%)		181		

Emerson Class Number of a Soil (AS 1289 3.8.1)			Min	Max
Emerson Class		6		
Soil Description		Clayey Sand		
Nature of Water		Distilled		
Temperature of Water (°C)		23		



Material Test Report

Report Number: 24-081-119A
Issue Number: 1
Date Issued: 23/10/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12565
Dates Tested: 03/10/2024 - 11/10/2024
Location: Edens Crossing, Stages 30-35, Ipswich



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Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12565A				
Date Sampled	03/10/2024				
Date Tested	11/10/2024				
Material Source	Disturbed				
Sample Location	Lot 1483, O/S SE CNR, 10m North, 4m West (Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	600				
Pocket Penetrometer after (kPa)	550				
Shrinkage Moisture Content (%)	10.8				
Shrinkage (%)	0.3				
Swell Moisture Content Before (%)	11.9				
Swell Moisture Content After (%)	14.1				
Swell (%)	-0.1				
Shrink Swell Index Iss (%)	0.2				
Visual Description	Gravelly Clayey Sand				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (Iss) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: 24-081-119B
Issue Number: 1
Date Issued: 01/11/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12565
Sample Number: S12565A
Date Sampled: 03/10/2024
Dates Tested: 03/10/2024 - 25/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1483, O/S SE CNR, 10m North, 4m West, Depth: Capping FSL
Material: General Fill
Material Source: Onsite Capping



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Email: ryan@qualtestgeo.com

Ryan Osborne (Soil Technician)

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	5x10 ⁻⁶		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS1289 5.1.1 & 2.1.1		
Maximum Dry Density (t/m ³)	1.95		
Optimum Moisture Content (%)	10.5		
Field Moisture Content (%)	9.1		
Sieve for Oversize (mm)	19.0		
Oversize Material (%)			
Placement Moisture Content (%)	10.6		
Laboratory Density Ratio (%)	96.2		
Laboratory Moisture Ratio (%)	99.9		
Surcharges and Pressure Applied	2.87		

Material Test Report

Report Number: 24-081-122
Issue Number: 1
Date Issued: 21/11/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12617
Sample Number: S12617A
Date Sampled: 09/10/2024
Dates Tested: 09/10/2024 - 09/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1440, O/S NW CNR, 10m South, 2m East, Depth: 0.7m Below Capping FSL



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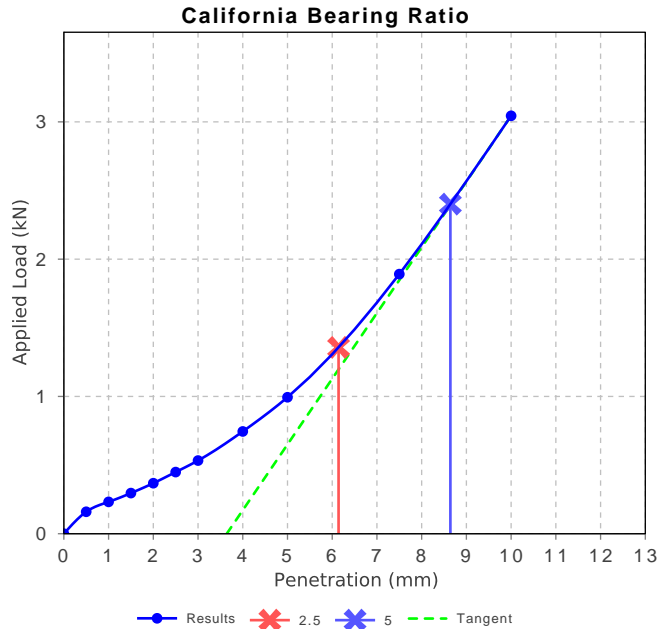


Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

NATA Accredited Laboratory Number: 2316

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	12		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual		
Maximum Dry Density (t/m ³)	1.88		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	102.5		
Dry Density after Soaking (t/m ³)	1.88		
Field Moisture Content (%)	12.9		
Moisture Content at Placement (%)	12.7		
Moisture Content Top 30mm (%)	14.1		
Moisture Content Rest of Sample (%)	13.4		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	120.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		



Material Test Report

Report Number: 24-081-122
Issue Number: 1
Date Issued: 21/11/2024
Client: SHADFORTH CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12617
Sample Number: S12617A
Date Sampled: 09/10/2024
Dates Tested: 09/10/2024 - 11/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by GTA
Sample Location: Lot 1440, O/S NW CNR, 10m South, 2m East, Depth: 0.7m Below Capping FSL



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Rhys Mitchell

Approved Signatory: Rhys Mitchell
 Field Technician

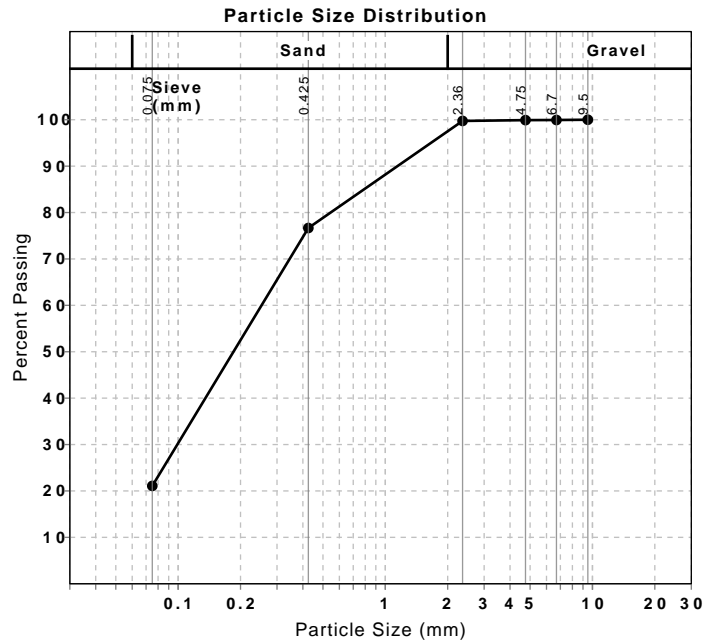
NATA Accredited Laboratory Number: 2316

Particle Size Distribution (Q103A & AS 1289.2.1.1)				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	100		0	
2.36 mm	100		0	
0.425 mm	77		23	
0.075 mm	21		56	

Atterberg Limit (Q104D & Q105 & AS 1289.2.1.1)			Min	Max
Liquid Limit (%)		28.8		
Plastic Limit (%)		20.6		
Plasticity Index (%)		8.2		
Weighted Plasticity Index (%)		629		

Linear Shrinkage (Q106)			Min	Max
Linear Shrinkage (%)		3.8		
Weighted Linear Shrinkage (%)		292		

Emerson Class Number of a Soil (AS 1289 3.8.1)			Min	Max
Emerson Class		5		
Soil Description		Brown, silty Sandstone		
Nature of Water		Distilled		
Temperature of Water (°C)		21		



Material Test Report

Report Number: 24-081-122A
Issue Number: 1
Date Issued: 21/11/2024
Client: SHADFORTH CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: CAMERON MORISON
Project Number: 24-081
Project Name: LEVEL ONE SUPERVISION
Project Location: EDEN'S CROSSING STAGES 30-35 - BEW
Client Reference: 645478
Work Request: 12617
Dates Tested: 09/10/2024 - 13/11/2024
Location: Edens Crossing, Stages 30-35, Ipswich



Qualtest Laboratory Pty Ltd
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2 / 40 Boyland Ave Cooper Plains QLD 4108
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Email: rhys@qualtestgeo.com

Rhys Mitchell (Field Technician)

Shrink Swell Index AS 1289 7.1.1 & 2.1.1					
Sample Number	S12617A				
Date Sampled	09/10/2024				
Date Tested	13/11/2024				
Material Source	Onsite				
Sample Location	Lot 1440, O/S NW CNR, 10m South, 2m East (0.7m Below Capping FSL)				
Inert Material Estimate (%)	**				
Pocket Penetrometer before (kPa)	550				
Pocket Penetrometer after (kPa)	480				
Shrinkage Moisture Content (%)	10.2				
Shrinkage (%)	0.5				
Swell Moisture Content Before (%)	13.8				
Swell Moisture Content After (%)	18.8				
Swell (%)	-0.0				
Shrink Swell Index I _{ss} (%)	0.3				
Visual Description	clayey gravelly SAND, Brown				
Cracking	UC				
Crumbling	No				
Remarks	**				

Shrink Swell Index (I_{ss}) reported as the percentage vertical strain per pF change in suction.

Cracking Terminology: UC Uncracked, SC Slightly Cracked, MC Moderately Cracked, HC Highly Cracked, FR Fragmented.

NATA Accreditation does not cover the performance of pocket penetrometer readings.

Material Test Report

Report Number: B-24-532-22
Issue Number: 1
Date Issued: 23/06/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-532
Project Name: Quality Assurance 2024
Work Request: 15173
Sample Number: B-15173A
Client Sample #: S10234A
Date Sampled: 23/05/2024
Dates Tested: 05/06/2024 - 23/06/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: Lot 1234 Line / Offset: O/S NW, Offset: 8m South, 3m East, Depth: 0.5m Below FSL
Material: Sand



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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Torin Pegler
Senior Soil Technician
NATA Accredited Laboratory Number: 2911

Constant Head Permeability (AS 1289 6.7.1 & 2.1.1)		Min	Max
Coefficient of Permeability (m/s)	4×10^{-7}		
Hydraulic Gradient	4.9		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m^3)	1.81		
Optimum Moisture Content (%)	11.5		
Field Moisture Content (%)	7.5		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.0		
Placement Moisture Content (%)	11.2		
Laboratory Density Ratio (%)	100.2		
Laboratory Moisture Ratio (%)	98.5		
Surcharges and Pressure Applied	2.87		

Material Test Report

Report Number: B-24-532-23
Issue Number: 1
Date Issued: 03/07/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-532
Project Name: Quality Assurance 2024
Work Request: 15174
Sample Number: B-15174A
Client Sample #: S10327A
Date Sampled: 30/05/2024
Dates Tested: 05/06/2024 - 02/07/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: Lot 1239 Line / Offset: O/S NW, Offset: 8m South, 3m east, Depth: 0.8m Below FSL
Material: Sand



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Approved Signatory: Torin Pegler
Senior Soil Technician
NATA Accredited Laboratory Number: 2911

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	4x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	13.0		
Field Moisture Content (%)	9.6		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.0		
Placement Moisture Content (%)	12.9		
Laboratory Density Ratio (%)	99.8		
Laboratory Moisture Ratio (%)	99.9		
Surcharges and Pressure Applied	2.86		

Material Test Report

Report Number: B-24-532-24
Issue Number: 1
Date Issued: 03/07/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-532
Project Name: Quality Assurance 2024
Client Reference: 10503
Work Request: 15245
Sample Number: B-15245A
Client Sample #: S10503A
Date Sampled: 07/06/2024
Dates Tested: 11/06/2024 - 03/07/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: Client Project Ref No: 24-081
Client Sample Ref No: S-10503A
Site Selection: Selected by Client
Sample Location: **Stage 30, Lot 1243 Line / Offset: O/S SE CNR, Offset: 6m West, 2m North, Depth: 0.8m Below FSL**
Material Source: Onsite/Existing



SQS www.sqs.net.au

SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

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Approved Signatory: Torin Pegler
Senior Soil Technician
NATA Accredited Laboratory Number: 2911

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	3x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.87		
Optimum Moisture Content (%)	11.0		
Field Moisture Content (%)	8.7		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.0		
Placement Moisture Content (%)	10.6		
Laboratory Density Ratio (%)	100.1		
Laboratory Moisture Ratio (%)	98.1		
Surcharges and Pressure Applied	2.85		

Material Test Report

Report Number: B-24-607-1
Issue Number: 1
Date Issued: 30/07/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-607
Project Name: Eden's Crossing Stages 30-35 - BEW
Work Request: 15699
Sample Number: B-15699A
Client Sample #: S-10454A
Date Sampled: 04/06/2024
Dates Tested: 11/07/2024 - 30/07/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: Client Project Ref No: 24-081
Client Sample Ref No: S-10454A
Site Selection: Selected by Client
Sample Location: **Stage 30 Lot 1250 Line / Offset: O/S NW CNR, Offset: 7m South, 2m East**
Material: Silty Sand
Material Source: Onsite Material



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ABN 36 631 788 620

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Approved Signatory: Torin Pegler
Senior Soil Technician
NATA Accredited Laboratory Number: 2911

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	3x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.83		
Optimum Moisture Content (%)	14.0		
Field Moisture Content (%)	11.6		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.4		
Placement Moisture Content (%)	13.9		
Laboratory Density Ratio (%)	99.9		
Laboratory Moisture Ratio (%)	100.7		
Surcharges and Pressure Applied	2.85		

Material Test Report



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Report Number: B-24-607-2
Issue Number: 1
Date Issued: 30/07/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-607
Project Name: Eden's Crossing Stages 30-35 - BEW
Work Request: 15719
Sample Number: B-15719A
Client Sample #: S-10672A
Date Sampled: 14/06/2024
Dates Tested: 14/07/2024 - 30/07/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: Client Project Ref No: 24-081
Client Sample Ref No: S-10672A
Site Selection: Selected by Client
Sample Location: **Stage 30, Lot 1257 Line / Offset: O/S NW CNR, Offset: 5m South, 1m East, Depth: 0.5m Below FSL**
Material: Silty Sand
Material Source: Onsite/Existing

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Approved Signatory: Torin Pegler

Senior Soil Technician

NATA Accredited Laboratory Number: 2911

Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	4x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.85		
Optimum Moisture Content (%)	13.0		
Field Moisture Content (%)	3.8		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.1		
Placement Moisture Content (%)	12.9		
Laboratory Density Ratio (%)	100.1		
Laboratory Moisture Ratio (%)	99.4		
Surcharges and Pressure Applied	2.85		

Material Test Report

Report Number: B-24-607-3
Issue Number: 1
Date Issued: 30/07/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-607
Project Name: Eden's Crossing Stages 30-35 - BEW
Work Request: 15720
Sample Number: B-15720A
Client Sample #: S-10717A
Date Sampled: 18/06/2024
Dates Tested: 14/07/2024 - 30/07/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: Client Project Ref No: 24-081
Client Sample Ref No: S-10717A
Site Selection: Selected by Client
Sample Location: Stage 31, Lot 1249 Ch: O/S SE CNR, Off: 4m North, 8m West, Depth: 0.4m Below FSL
Material: Silty Sand
Material Source: General Fill



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Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	1x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.89		
Optimum Moisture Content (%)	12.5		
Field Moisture Content (%)	9.6		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.3		
Placement Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.2		
Laboratory Moisture Ratio (%)	98.5		
Surcharges and Pressure Applied	2.87		

Material Test Report

Report Number: B-24-607-4
Issue Number: 1
Date Issued: 30/07/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-607
Project Name: Eden's Crossing Stages 30-35 - BEW
Work Request: 15721
Sample Number: B-15721A
Client Sample #: S-10977A
Date Sampled: 09/07/2024
Dates Tested: 14/07/2024 - 30/07/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: Road Ch: O/S SE CNR Northern Roundabout, Off: 35m South, 4m East, Depth: 0.3m Below FSL
Material: Sandy Clay
Material Source: General Fill



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Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	2x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.95		
Optimum Moisture Content (%)	11.0		
Field Moisture Content (%)	11.3		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	1.9		
Placement Moisture Content (%)	11.0		
Laboratory Density Ratio (%)	99.8		
Laboratory Moisture Ratio (%)	101.7		
Surcharges and Pressure Applied	2.87		

Material Test Report



Report Number: B-24-607-5
Issue Number: 1
Date Issued: 02/10/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-607
Project Name: Eden's Crossing Stages 30-35 - BEW
Client Reference: S-11979A
Work Request: 16306
Sample Number: B-16306A
Client Sample #: S-11979A
Date Sampled: 04/09/2024
Dates Tested: 11/09/2024 - 02/10/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: Client Project Ref No: 24-081
Site Selection: Selected by Client
Sample Location: Lot 1433 Line / Offset: NE CNR, Offset: 8m South, 4m West, Depth: 0.6m Below Capping FSL
Material: Silty Sand

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Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	2x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.84		
Optimum Moisture Content (%)	13.0		
Field Moisture Content (%)	7.8		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.0		
Placement Moisture Content (%)	13.1		
Laboratory Density Ratio (%)	100.1		
Laboratory Moisture Ratio (%)	99.3		
Surcharges and Pressure Applied	2.85		

Material Test Report

Report Number: B-24-607-6
Issue Number: 1
Date Issued: 02/10/2024
Client: Qualtest Laboratory Pty Ltd
2 / 40 Boyland Ave, Cooper Plains Qld 4108
Contact: Mick Morrison
Project Number: B-24-607
Project Name: Eden's Crossing Stages 30-35 - BEW
Client Reference: S-11924
Work Request: 16309
Sample Number: B-16309A
Client Sample #: S-11924A
Date Sampled: 02/09/2024
Dates Tested: 11/09/2024 - 02/10/2024
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Remarks: Client Project Ref No: 24-081
Site Selection: Selected by Client
Sample Location: Lot 1473 Line / Offset: NE CNR, Offset: 3m West, 9m South, Depth: 0.5m Below Capping
Material: Silty Sand



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Falling Head Permeability (AS 1289 6.7.2 & 2.1.1)		Min	Max
Coefficient of Permeability (m/sec)	1x10 ⁻⁹		
Method of Compactive Effort	Standard		
Method used to Determine MDD	Supplied		
Maximum Dry Density (t/m ³)	1.88		
Optimum Moisture Content (%)	13.5		
Field Moisture Content (%)	7.8		
Sieve for Oversize (mm)	9.5		
Oversize Material (%)	0.0		
Placement Moisture Content (%)	13.2		
Laboratory Density Ratio (%)	100.1		
Laboratory Moisture Ratio (%)	99.3		
Surcharges and Pressure Applied	2.87		