

Post Earthworks Completion Report



Job No: S1176977_W25-03731

MGC Civil

Brooklands A11 – Park Street, Henley Brook

23 July 2025

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Disclaimer

This report is for Structerre only to use in design. Any design by anyone else for any structure must be specifically approved by Structerre. If used by anyone else for anything other than a Structerre design or structure, Structerre takes no responsibility.

1. Introduction

At the request of Mr Abhishek Patel of MGC Civil, a representative from Structerre Consulting regularly attended the above site from November 2024 to July 2025 to undertake earthworks verification assessments. The purpose of this assessment is to provide a Site Classification in accordance with AS 2870-2011 Residential slabs and footings and Geotechnical Certification after completion of bulk earthworks.

A copy of the plan outlining the development is attached to this letter.

2. Fieldwork

2.1 Fieldwork by Structerre

A representative from Structerre Consulting, (Structerre), attended the site during and at the completion of the project to assess works. Field testing comprising of hand auger boreholes, Perth Sand Penetrometer (PSP) tests (in accordance with AS 1289 6.3.3), and Field Nuclear Density testing (in accordance with AS 1289.5.8.1). Testing was conducted by Structerre to confirm the following:

- Adequate removal of deleterious matter, topsoils and vegetation.
- Inspection of stripped surface for material suitability.
- Assessment of stripped surface for compaction.
- Assessment of import fill.
- Audit of compaction of fill materials placed.
- Audit boreholes to confirm thickness of inert fill and or in-situ sand.

Ground conditions of the site at completion of the earthworks were obtained by hand auger and are summarised below:

Location	Depth	Description
BH 1	0-1200mm	SAND SP, grey, fine to medium grained, non-plastic
	1200-1800mm	SAND SP, white, fine to medium grained, non-plastic.
BH 2	0-500mm	SAND trace gravel (limestone) SP, cream, fine to medium grained, non-plastic.
	500-1800mm	SAND trace gravel (limestone) SP, grey, fine to medium grained, non-plastic.
BH 3	0-1800mm	SAND trace gravel (limestone) SP, grey, fine to medium grained, non-plastic.
BH 4	0-300mm	SAND trace gravel (limestone) SP, yellow-grey, fine to medium grained, non-plastic.
	300-1800mm	SAND trace gravel (limestone) SP, grey, fine to medium grained, non-plastic.

General observations and the subsequent results obtained from Structerre's audit testing on site indicate the earthworks were conducted in accordance with AS 3798-2007 Guidelines on earthworks for commercial and residential developments and the provided drawings.

2.2 Fieldwork by Others

During the earthworks, the Contractor performed regular compaction testing using a PSP to test the compaction of placed fill materials. These test results form part of the assessment in determining site classification for the stage.

3. Site Classification

AS 2870-2011 provides the site classification based on the determination of potential surface movements from seasonal moisture change. Based on the site testing and observations performed by Structerre, in addition to the information forwarded by MGC Civil, Brooklands A11 – Park Street, Henley Brook for the following lots can be classified as:

Site Classification	Class 'A'.
• Lots 148 to 198 inclusive. • Lots 356 to 368 inclusive.	

These assessments are based on the following:

- All stormwater runoff from roofs and paved areas is disposed of as far as practical from structures to reduce the risk of differential settlements.

4. Conclusion

This assessment is based on the site condition at the time of testing by Structerre. No allowance has been made for future disturbance for installation of underground services, or additional earthworks by builders or others. Builders should carry out their own compaction checks on a lot-by-lot basis, compacting any localised loose areas where necessary.

Please note that the horizontal and vertical limits of the earthworks were determined by others, and as such, Structerre does not provide any comment as to whether these aspects are compliant with the plans and specifications for the project. Structerre does not guarantee earthwork construction, nor relieve the earthwork contractor of their responsibility to perform the earthworks in accordance with the contract plans and specifications.

We trust this meets with your requirements. Should you require any additional information, or clarification of the above, please contact the undersigned.

For and behalf of **Structerre Consulting**.

A handwritten signature in blue ink, appearing to read "Wayne Rozmianiec". Below the signature is a small, faint alphanumeric string: "1-2-063888840142-0000000-09657-000052343031302".

Wayne Rozmianiec
Laboratory Manager

24 July 2025

5. References

AS2870-2011 Residential Slabs and Footing

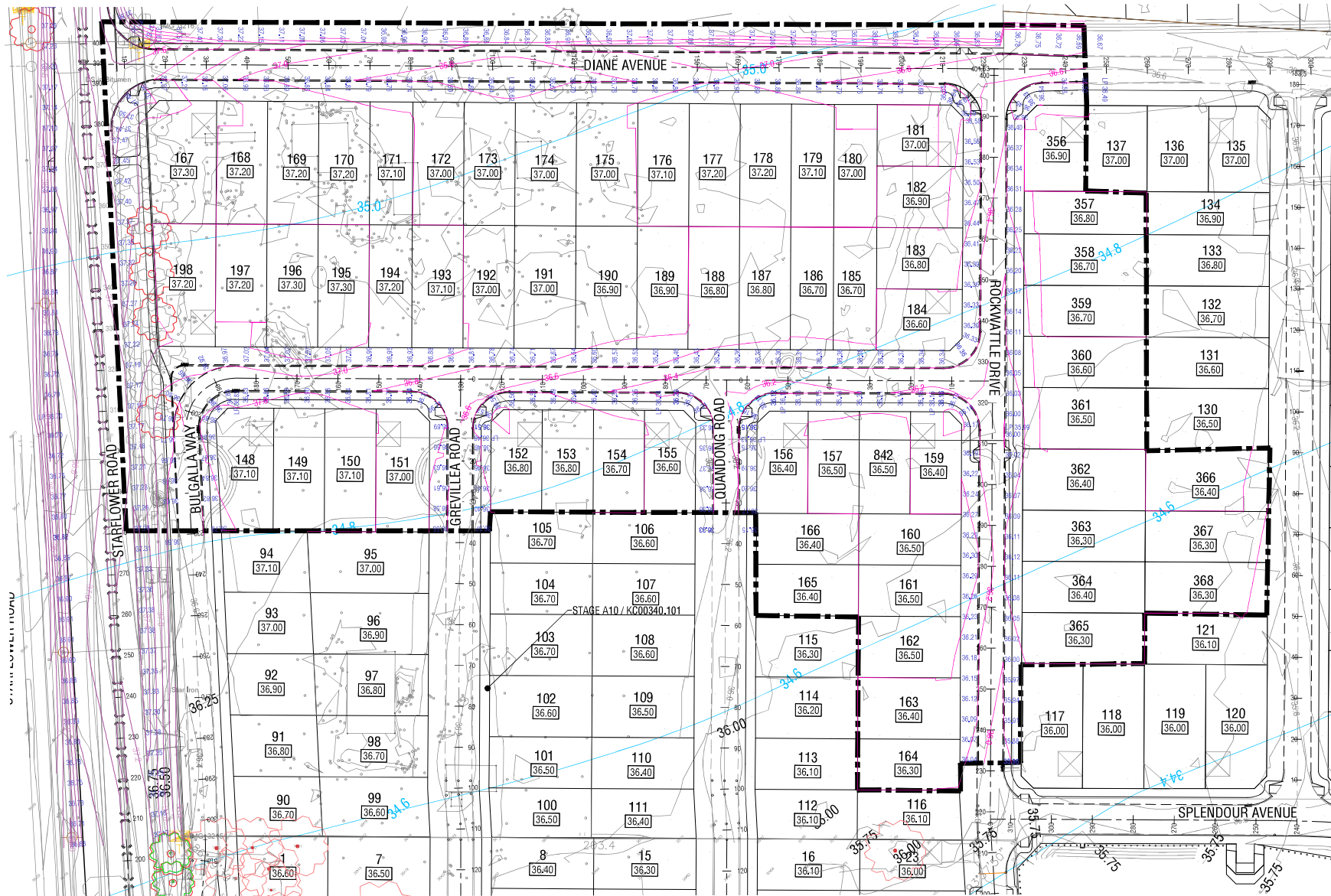
AS3798-2007 Guidelines on earthworks for commercial and residential developments

AS1289 Method of Testing Soil for Engineering Purposes

Appendix A – Site Plan



VOLUMES(150mm TOPSOIL STRIP)		
CUT	FILL	BALANCE
-127,148	18,403,166	18276,019



LEGEND	
	STAGE BOUNDARY
	EARTHWORKS BOUNDARY
	EXISTING ROAD CENTRE LINE
	EXISTING ROAD EDGE
	DESIGN CONTOURS (0.2m INTERVAL)
	FUTURE CONTOURS (0.2m INTERVAL)
	EXISTING CONTOURS (0.2m INTERVAL)
	GROUNDWATER CONTOURS - PERTH GROUNDWATER ATLAS (0.2m INTERVAL)
	PROPOSED LOTS
	EXISTING LOTS
	EXISTING TREE TO BE PROTECTED AND RETAINED
	EXISTING TREE TO BE REMOVED
	EXISTING ROAD SIGN
	EXISTING FOOTPATH TO BE REMOVED
	EXISTING FOOTPATH
	PROPOSED RETAINING WALLS
	SPOT LEVEL
	TEMPORARY BASIN
	GUTTER LEVELS

- NOTES:
1. THE CONTRACTOR SHALL PROTECT ALL EXISTING KERBS, ROAD PAVEMENTS AND EXISTING INFRASTRUCTURE SERVICES IN PARK STREET AS PART OF THIS CONTRACT.
 2. IT IS RECOMMENDED THE CONTRACTOR UNDERTAKES A ROAD DILAPIDATION SURVEY AND REPORT PRIOR TO THE COMMENCEMENT OF WORKS AND PROVIDES A COPY OF THIS TO THE SUPERINTENDENT AND THE CITY OF SWAN.
 3. THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES IN THE PARK STREET ROAD RESERVATION, INCLUDING THE PROPOSED ROAD RESERVATION WIDENING. THE CONTRACTOR SHALL CLIMB THESE TREES WITH GREEN RIBBONS TO ENSURE THE TREES ARE PROTECTED DURING ALL WORKS.
 4. WHERE EXISTING TREES ARE TO BE PROTECTED, THE CONTRACTOR SHALL LOCALLY PROTECT ALL EXISTING EARTHWORKS NATURAL SURFACE LEVELS UNDER THE FOLIAGE DRIP LINE OF THAT TREE, WHERE THESE LEVELS VARY FROM THOSE SHOWN IN THESE DRAWINGS, THE CONTRACTOR SHALL LOCALLY BATTER DOWN TO SURFACE GUTTER OF DRAIN LINE AT A BATTER OF 1 IN 3.
 5. RETAINING WALLS ARE SHOWN ON THIS PLAN FOR INFORMATION PURPOSES ONLY. WHERE RETAINING WALLS ARE SHOWN, THE CONTRACTOR SHALL BATTER DOWN AT 1 IN 3 TYPICALLY BETWEEN THE LEVELS ENSURING THE BATTER IS OFFSET WITH THE TOP AND BOTTOM OF THE BATTER EQUIDISTANT FROM THE CENTRE OF THE WALL.
 6. THE INTENT OF THESE EARTHWORKS ARE THAT THEY ARE COMMENCED AT THE SAME TIME AS PROPOSED EARTHWORKS FOR MIVAC'S DEVELOPMENT ON THE EASTERN BOUNDARY OF THE SUBJECT SITE. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL EARTHWORKS WITH MIVAC'S EARTHWORKING CONTRACTOR, ENSURING ALL CUT AND FILL SHOWN ON THESE PLANS ARE MAINTAINED WITHIN OUR SUBJECT LANDHOLDINGS.
 7. THE CONTRACTOR SHALL STRIP THE FIRST 100MM OF TOPSOIL AND STOCKPILE.
 8. THE CONTRACTOR SHALL SIEVE ALL TOPSOIL AND BLEND THE SIEVED TOPSOIL AT 1 PART TO 3 WITH THE PROPOSED CUT TO FILL. THE REMAINING ORCHARD MATERIAL SHALL BE STOCKPILED ON LAND DIRECTLY TO THE NORTH OF THE AREA & EARTHWORKS EXTENTS SHOWN IN DRAWING KC00334.111 C101.

WARNING
BEWARE OF UNDERGROUND SERVICES

The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Worksafe Regulation 3.21.

EARTHWORKS PLAN
SCALE 1:500

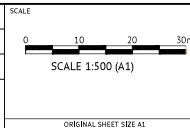
CONTOURS UPDATED

DATE	REV	DESCRIPTION	CHK	APP
01/02/21	1	CONTOURS UPDATED	CK	CK
20/01/21	0	ISSUED FOR CONSTRUCTION	CK	CK



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WEB: www.premise.com.au

DESIGNED
F.BOROVIC
CHECKED
C.KLEYWEG
PROJECT MANAGER
C.KLEYWEG
ENGINEERING CERTIFICATION



CLIENT
PROGRESS DEVELOPMENTS PTY LTD
PROJECT
BROOKLANDS ESTATE AREA A11
LOCATION
HENLEY BROOK
SHEET TITLE
EARTHWORKS PLAN

JOB CODE
KC00334.111
SHEET NUMBER
C100
REV
1

Appendix B – Test Results

Daily Summary Field Report

Report No.: DSFR:W24-04857
Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D349318 - Brooklands A12, Henley Brook - Park Street Henley Brook
 Henley Brook, WA


Reviewed By: Wayne Rozmianiec
Review Date: 11/8/2024

General Information

Work Date: 11/8/2024	Representative: Wayne Rozmianiec
Weather: Cloudy	Time Arrived: 10:00 AM
Time Departed: 10:30 AM	Time on Site (h): 0.50
Contractor: MGC Civil	

Other Observations

Site Inspection

At the request of MGC Civil, Strucsterre Consulting have attended the Brooklands A10 Henley Brook Project to conduct an earthworks inspection.

Area noted on the attached plan has had vegetation and topsoil removed, remaining sand soil raked to removed any oversized or deleterious materials and proof compacted.

Western section still requires raking and proof compaction, once completed place fill as required.

Daily Summary Field Report

Report No.: DSFR:W24-04857
Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D349318 - Brooklands A12, Henley Brook - Park Street Henley Brook
 Henley Brook, WA



Reviewed By: Wayne Rozmianiec
Review Date: 11/8/2024

Stripped and proofed surface



Description:

Raking - west portion



Description:

Daily Summary Field Report

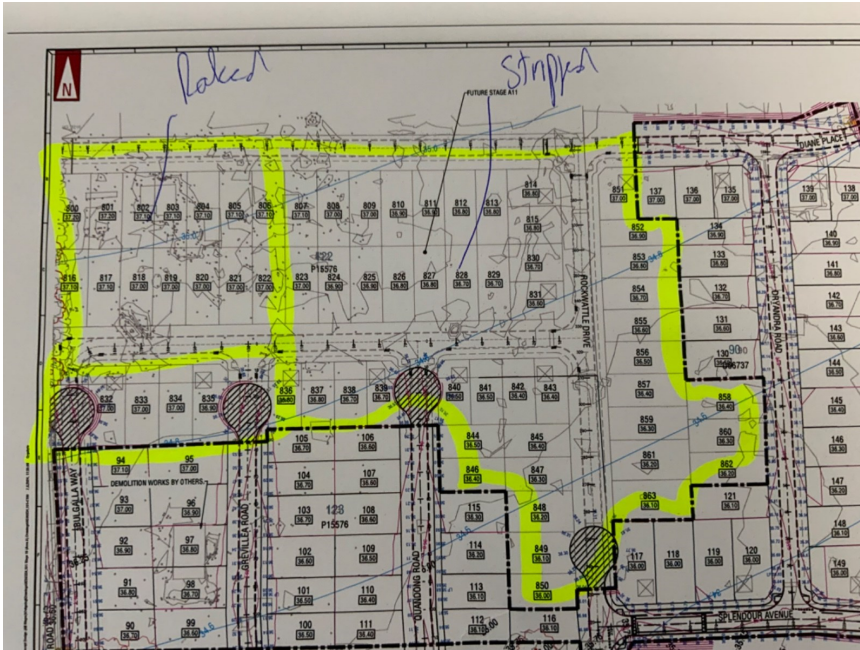
Report No.: DSFR:W24-04857
 Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D349318 - Brooklands A12, Henley Brook - Park Street Henley Brook
 Henley Brook, WA

Reviewed By: Wayne Rozmianiec
 Review Date: 11/8/2024

Plan



Description:

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:25S-09162

Date of issue: 23/07/2025

Issue Number: 1

Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A11, Henley Brook - PARK ST HENLEY BROOK
Project No: D349318

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Jacob Pritchard
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Earthworks Completion
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 18/07/2025
Work Order ID: W25-03732
Sample ID: 25S-09162
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	18	15	11	11	11	15	14	15	15	13
450 - 750	25+	25+	23	25+	22	25+	25+	25+	25+	25+
750 - 1050			19		25+					
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	11	12	13	14	15	16	17	18	19	20
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	15	18	16	15	13	12	13	18	13	13
450 - 750	25+	25+	25+	23	25+	18	25+	25+	24	22
750 - 1050				25+		21			25+	25+
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Testing carried in accordance with the methods described in AS 1289.6.3.2 – depth greater than 450mm total penetration tested.

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:25S-09163

Date of issue: 23/07/2025

Issue Number: 1

Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A11, Henley Brook - PARK ST HENLEY BROOK
Project No: D349318

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Jacob Pritchard
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Earthworks Completion
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 18/07/2025
Work Order ID: W25-03732
Sample ID: 25S-09163
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	21	22	23	24	25	26	27	28	29	30
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	11	8	10	11	10	12	11	9	9
450 - 750	25+	15	15	15	20	15	14	19	15	19
750 - 1050		19	25+	20	16	23	25+	25+	24	19
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	31	32	33	34	35	36	37	38	39	40
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	12	11	12	12	11	9	13	10	12	11
450 - 750	21	19	19	21	15	23	25+	25+	25+	25+
750 - 1050	24	23	25+	25+	21	25+				
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Testing carried in accordance with the methods described in AS 1289.6.3.2 – depth greater than 450mm total penetration tested.

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:25S-09224

Date of issue: 23/07/2025

Issue Number: 1

Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A11, Henley Brook - PARK ST HENLEY BROOK
Project No: D349318

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Jacob Pritchard
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Earthworks Completion
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 18/07/2025
Work Order ID: W25-03732
Sample ID: 25S-09224
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	41	42	43	44	45	46	47	48	49	50
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	13	11	12	15	14	14	13	12	15	18
450 - 750	25+	24	23	25+	25+	25+	25+	25+	25+	25+
750 - 1050		25+	25+							
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	51	52	53	54	55					
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	14	12	15	12	15					
450 - 750	24	25+	25+	25+	23					
750 - 1050	25+				19					
1050 - 1350										
1350 - 1650										
1650 - 1950										

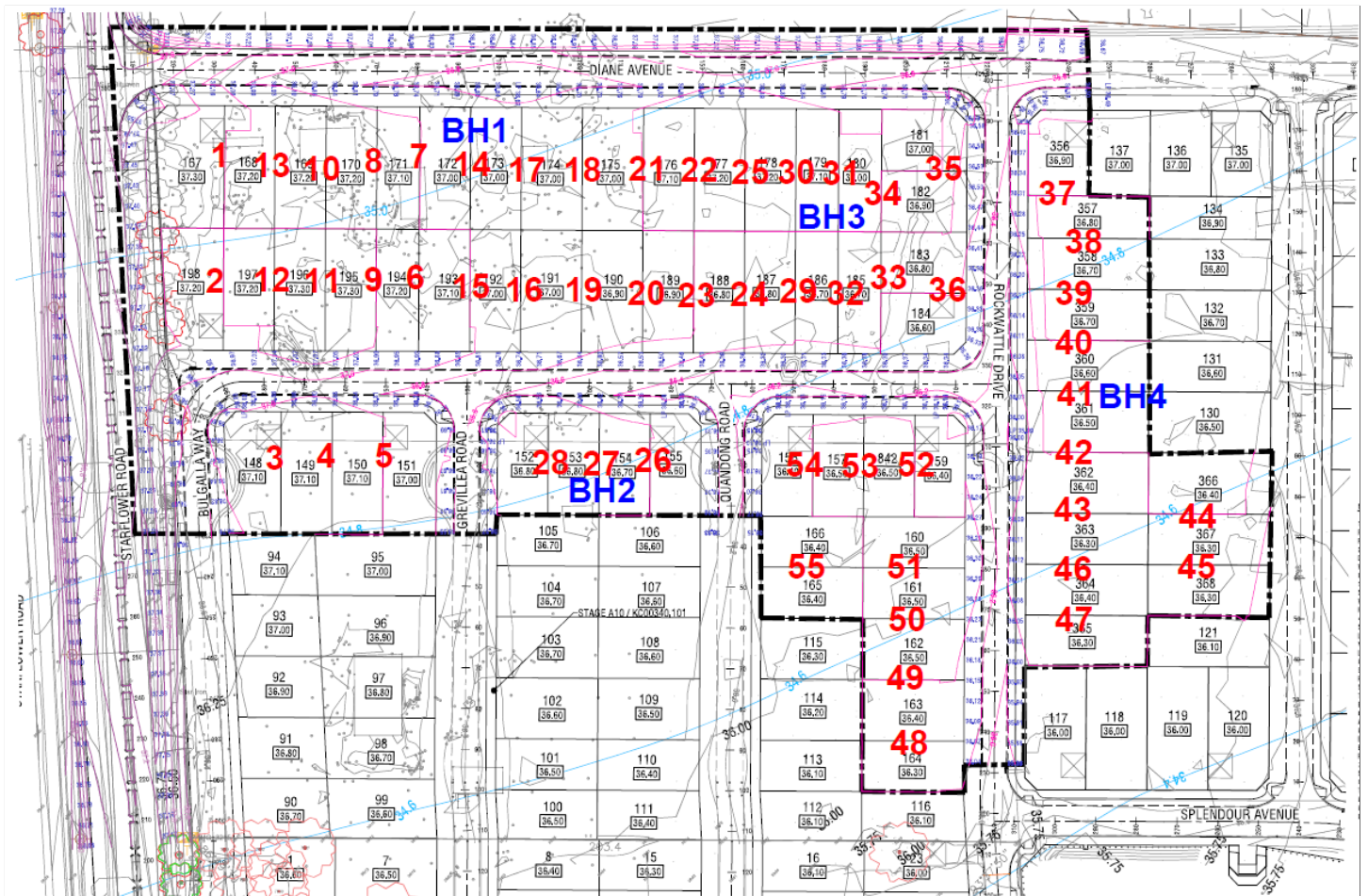
Comments

Testing carried in accordance with the methods described in AS 1289.6.3.2 – depth greater than 450mm total penetration tested.

PSP Report

Client:	MGC Civil
Client Address:	Unit 7, 56 Prindiville Drive Wangara WA 6065
Project:	Brooklands A11, Henley Brook - PARK ST HENLEY BROOK
Project No:	D349318

Report Number: PSP:25S-09224	
Date of Issue: 23/07/2025	
Issue Number: 1	
Accreditation Number 18742	
 WORLD RECOGNISED ACCREDITATION	 Approved Signatory: Jacob Pritchard
Accredited for compliance with ISO/IEC 17025	



Compaction Correlation Report

Report Number CCR:W24-04921

18/11/2024

Issue 1

Client:	MGC Civil
Client Address:	Unit 7, 56 Prindiville Drive, Wangara WA 6065
Project:	Brooklands A11, Henley Brook PARK ST HENLEY BROOK
Project No:	D349318



Authorised Signatory Jacob Pritchard

Sample Details

Location	PSP Correlation - Fill
Laboratory Test Procedures	AS 1289.5.2.1, AS 1289.5.8.1
Field Test Procedures	AS 1289.5.8.1
Sampling Method	AS1289.1.2.1 6.4(b) -Compacted
Date of Test	11 Nov 2024

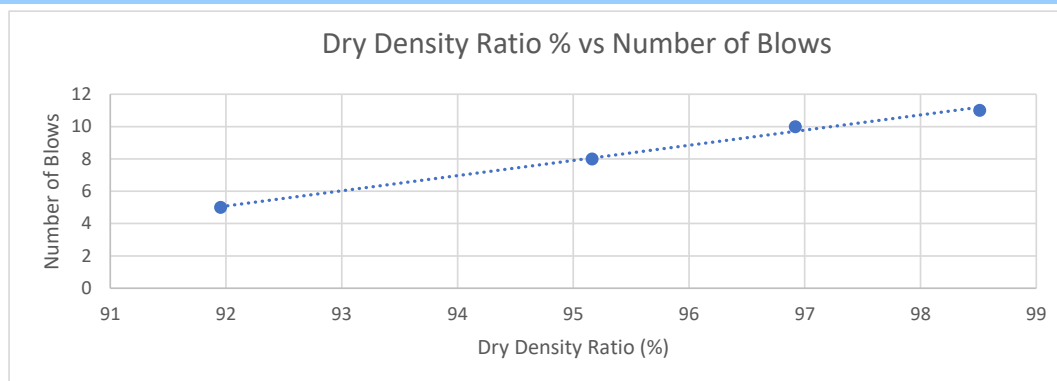
Field Test Results

Field Sample ID	1	2	3	4
Wet density (t/m ³)	1.67	1.76	1.80	1.90
Depth of Test (mm)	300	300	300	300
Thickness of the Layer (mm)	-	-	-	-
AS Sieve Size (mm)	19	19	19	19
Oversize Wet (%)	0	0	0	0
Oversize Dry (%)	0	0	0	0
Moisture content (%)	5.7	7.1	7.7	12.2
Dry density (t/m ³)	1.58	1.64	1.67	1.70
Moisture Ratio (%)	43.0	54.0	58.5	92.5
Moisture Variation (%)	7.5 DRY	6.0 DRY	5.5 DRY	1.0 DRY
Dry Density Ratio (%)	92.0	95.0	97.0	98.5
Number of Blows	5	8	10	11

Laboratory Test Results

Sample ID	24S-12307	Maximum Dry Density (t/m ³)	1.72
Material	Sand	Optimum Moisture Content (%)	13.0
Proposed Use	Fill		

Correlation



The results indicate that 8 blows are required to obtain a Dry Density Ratio of 95 %

Comments