



CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
PO Box 678 Croydon Vic 3136
Telephone: 9723 0744 Facsimile: 9723 0799

8 July 2025

Our Reference: 24556:PJF2972A

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3051

Dear Sirs,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
BROADSTEAD ESTATE (STAGES 1 AND 2) – VIA 200 QUINNS ROAD, KILMORE

Please find attached the results of the compaction testing that relate to the field density testing that was conducted within the filled areas of the above development. The inspection and testing duties, which were performed by experienced geotechnical engineers and geotechnicians from both this office and Pearce Geotech, were undertaken in accordance with the Level 1 guidelines presented in AS 3798 - Guidelines on earthworks for commercial and residential developments. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement.

Site preparation works commenced in early October 2024 and fill placement commenced soon after. The fill works were largely finalised in mid February 2025. Prior to fill placement, the stripped surfaces were inspected to ensure that a firm foundation free of organic matter and the like was achieved. Any soft spots and unstable areas and the like that were identified were removed down to a firm base and replaced with suitably compacted materials.

The fill materials during the recent construction phase were initially spread by both a dozer and a grader and then compacted in 0.3 to 0.35 metre (loose) lifts using a vibrating pad foot roller and a compacter. A truck mounted water cart was available to assist with moisture conditioning of the fill materials on an as required basis. Compaction testing of the fill materials was performed at regular intervals (both vertically and laterally) during fill placement to confirm that the method of fill placement was appropriate. Any areas that were deemed unsatisfactory were re-worked, removed or given extra rolling to ensure that the compaction criteria were met.

The purpose of performing Level 1 inspection and testing duties is to ensure the quality of the as constructed fill pad(s) and to both minimise the costs of extensive testing and eliminate any unnecessary time delays arising from the testing process. Hence, the provision of Level 1 duties allows the contractor to undertake the filling operation whilst the testing authority monitors the quality control process of the operation. As part of this latter process, the testing authority monitors the compaction methodology on a visual basis and undertakes a number of randomly placed spot checks (ie field density and associated compaction tests) to confirm that the adopted methodology is appropriate.

The attached compaction results, which were located randomly throughout the depth and breadth of the fill areas, are considered to be representative of the bulk fill materials that were placed within the development by Winslow Constructors Pty Ltd during the recent construction period. The locations of the actual field density test sites are shown on the accompanying drawings.

We are of the view that the bulk fill materials that have been placed across the filled areas by Winslow Constructors Pty Ltd (who were contracted to undertake the bulk filling works) can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort). Accordingly, the fill materials would be deemed to comply with both the structural fill requirements of Clause 1.2.13 of AS 3798 and the controlled fill requirements of Clause 1.8.13 AS 2870 – Residential slabs and footings (2011).

In summary, we are satisfied that the fill materials have been placed and compacted in accordance with the requirements of the Level 1 criteria outlined in AS 3798. Accordingly, we are also of the opinion that the fill materials have been compacted to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Yours faithfully,

Civil Geotechnical Services

A handwritten signature in black ink, appearing to be 'Peter Fry', with a stylized, overlapping loop structure.

Peter Fry

Attachments Report Nos P242082-6, P242082-7, P242082-8, P242082-9, P242082-11, P242082-12, P242082-15 and P242082-20

Material Test Report

Report Number: P242082-6
Issue Number: 1
Date Issued: 12/11/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31639
Date Sampled: 29/10/2024
Dates Tested: 29/10/2024 - 08/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17010
Specification: 98% Standard
Location: TRN 17010
Material: Silty Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31639A	24-31639B	24-31639C	24-31639D	24-31639E
Date Tested	29/10/2024	29/10/2024	29/10/2024	29/10/2024	29/10/2024
Time Tested	10:31	10:36	10:42	10:47	10:51
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 1	Lift 1	Lift 1	Lift 1	Lift 1
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.93	1.93	1.92	1.93	1.91
Field Moisture Content %	25.0	24.3	22.0	24.7	23.8
Field Dry Density (FDD) t/m ³	1.54	1.56	1.58	1.55	1.54
Peak Converted Wet Density t/m ³	1.93	1.94	1.94	1.94	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.0	99.5	99.0	99.5	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P242082-6
Issue Number: 1
Date Issued: 12/11/2024
Client: Winslow Constructors Pty Ltd

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31639
Date Sampled: 29/10/2024
Dates Tested: 29/10/2024 - 08/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17010
Specification: 98% Standard
Location: TRN 17010
Material: Silty Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



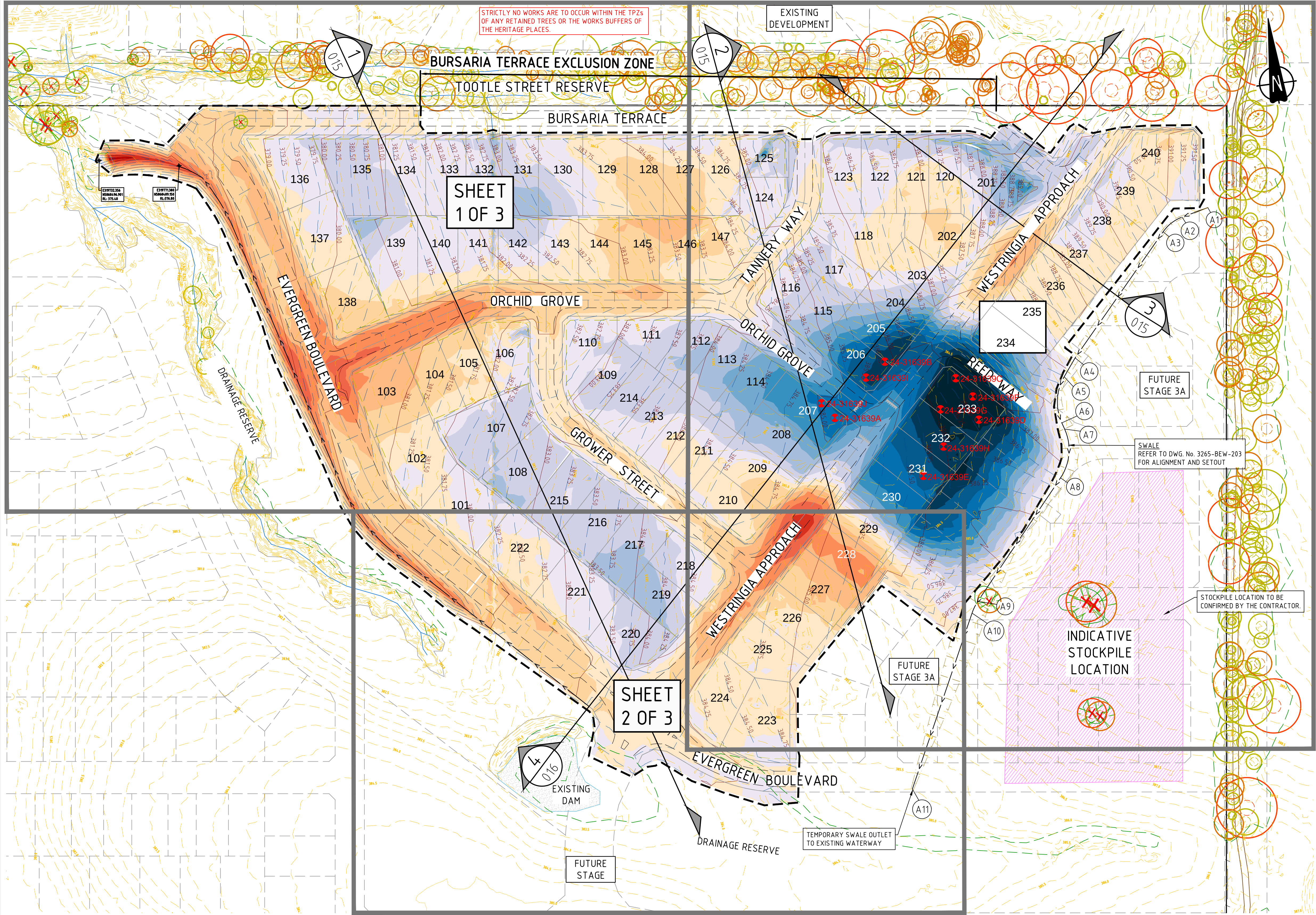
Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31639F	24-31639G	24-31639H	24-31639I	24-31639J
Date Tested	29/10/2024	29/10/2024	29/10/2024	29/10/2024	29/10/2024
Time Tested	10:58	11:07	11:12	11:16	11:22
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 2	Lift 2	Lift 2	Lift 2	Lift 2
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.91	1.92	1.89	1.92	1.92
Field Moisture Content %	23.2	21.0	22.4	21.8	20.3
Field Dry Density (FDD) t/m ³	1.55	1.59	1.55	1.57	1.60
Peak Converted Wet Density t/m ³	1.93	1.93	1.93	1.94	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.5	98.0	99.0	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



DEPTH RANGES (250mm)		
FROM	TO	COLOUR
-	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	
0.00	0.25	
0.25	0.50	
0.50	0.75	
0.75	1.00	
1.00	1.25	
1.25	1.50	
1.50	1.75	
1.75	2.00	
2.00	+	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BOUNDARY OF WORKS		---
TEMPORARY SWALE	- - - - -	- - - - -
SURFACE CONTOUR MINOR		- 52.00 -
SURFACE CONTOUR MAJOR	- 52.00 -	- 52.00 -
BATTER		- - - - -
FENCE - TREE PROTECTION		- x - x -
RIDGE LINE	- - - - -	- - - - -
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
EXISTING TREE TO BE REMOVED		
VEGETATION LINE		



NOTE
THIS PLAN DOES NOT CONSTITUTE ENGINEERING APPROVAL FOR CIVIL INFRASTRUCTURE. APPROVAL OF DETAILS ENGINEERING PLANS IS REQUIRED PRIOR TO THE INSTALLATION OF ANY CIVIL INFRASTRUCTURE.

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

0	24.07.24	TP		ISSUED FOR CONSTRUCTION
REV	DATE	DRN	OKD	APP
				AMENDMENT

ISSUED FOR CONSTRUCTION

H 1:1000
SCALE @ A1

0 20 40 60m

Cossill & Webley
CONSULTING ENGINEERS
Street Address
Level 20, 350 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

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JINDING
APPROVED PE 0005549
DESIGNED A. MAY
SCALE 1:1000 @ A1

PROJECT	BROADSTAD - EARTHWORKS	
TITLE	OVERALL PLAN	
MUNICIPALITY	MITCHELL SHIRE COUNCIL	
PP No.	PLP430/22	DRAWING No. 3265-BEW-010
REVISION	0	

ORIGINAL SIZE
A1

C:\Users\p401\Documents\3265-BEW-010\Drawings\3265-BEW-010_LAY.dwg 7/24/2024 9:27 AM TONY PHAN

Material Test Report

Report Number: P242082-7
Issue Number: 1
Date Issued: 12/11/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31728
Date Sampled: 01/11/2024
Dates Tested: 04/11/2024 - 11/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17020
Specification: 98% Standard
Location: TRN 17020
Material: Silty Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31728A	24-31728B	24-31728C	24-31728D	24-31728E
Date Tested	01/11/2024	01/11/2024	01/11/2024	01/11/2024	01/11/2024
Time Tested	09:57	10:07	10:12	10:16	10:21
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 3	Lift 3	Lift 3	Lift 3	Lift 3
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.91	1.90	1.92	1.92	1.93
Field Moisture Content %	22.1	21.3	22.7	22.1	22.5
Field Dry Density (FDD) t/m ³	1.57	1.56	1.57	1.58	1.57
Peak Converted Wet Density t/m ³	1.94	1.93	1.93	1.92	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	-0.5	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	98.5	99.5	100.5	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: P242082-7
Issue Number: 1
Date Issued: 12/11/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31728
Date Sampled: 01/11/2024
Dates Tested: 04/11/2024 - 11/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17020
Specification: 98% Standard
Location: TRN 17020
Material: Silty Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



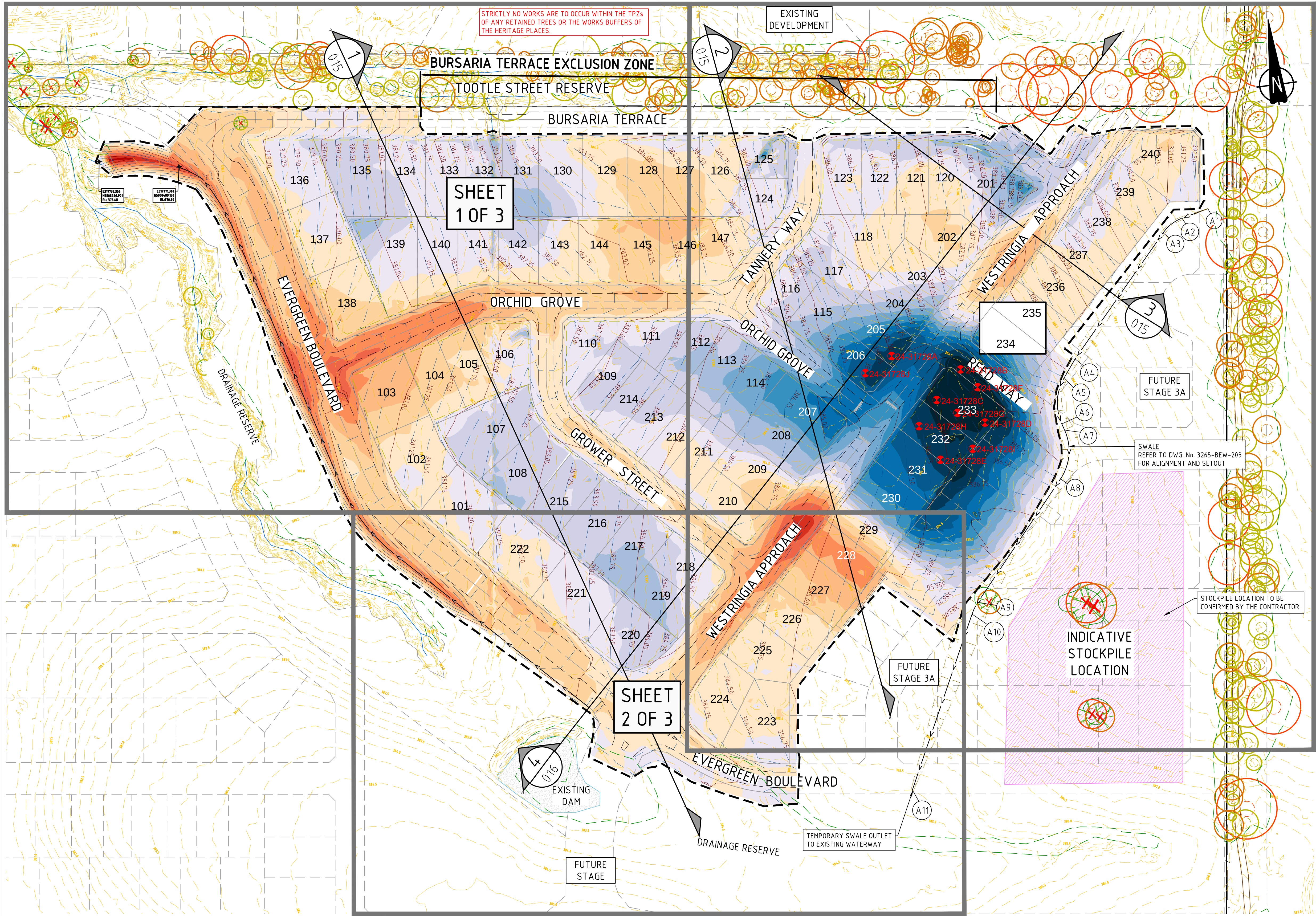
Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31728F	24-31728G	24-31728H	24-31728I	24-31728J
Date Tested	01/11/2024	01/11/2024	01/11/2024	01/11/2024	01/11/2024
Time Tested	10:29	10:35	10:40	10:46	10:52
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 4	Lift 4	Lift 4	Lift 4	Lift 4
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.91	1.92	1.92	1.91	1.93
Field Moisture Content %	22.3	19.6	22.2	20.6	22.1
Field Dry Density (FDD) t/m ³	1.56	1.61	1.57	1.58	1.58
Peak Converted Wet Density t/m ³	1.93	1.93	1.94	1.94	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	-0.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	99.5	99.0	98.5	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



DEPTH RANGES (250mm)		
FROM	TO	COLOUR
-	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	
0.00	0.25	
0.25	0.50	
0.50	0.75	
0.75	1.00	
1.00	1.25	
1.25	1.50	
1.50	1.75	
1.75	2.00	
2.00	+	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BOUNDARY OF WORKS		---
TEMPORARY SWALE	- - - - -	- - - - -
SURFACE CONTOUR MINOR		52.00
SURFACE CONTOUR MAJOR	52.00	52.00
BATTER		- - - - -
FENCE - TREE PROTECTION		x x
RIDGE LINE		- - - - -
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
EXISTING TREE TO BE REMOVED		
VEGETATION LINE		



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0	24.07.24	TP			ISSUED FOR CONSTRUCTION
REV	DATE	DRN	OKD	APP	AMENDMENT

ISSUED FOR CONSTRUCTION



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Cossill & Webley
CONSULTING ENGINEERS
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Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

JINDING
APPROVED PE 0005549
DESIGNED A. MAY
SCALE 1:1000 @ A1

PROJECT
BROADSTAD - EARTHWORKS
TITLE
OVERALL PLAN
MUNICIPALITY
MITCHELL SHIRE COUNCIL
PP No.
PLP430/22
DRAWING No.
3265-BEW-010
REVISION
0

ORIGINAL SIZE
A1

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Material Test Report

Report Number: P242082-8
Issue Number: 1
Date Issued: 14/11/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31812
Date Sampled: 08/11/2024
Dates Tested: 11/11/2024 - 13/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17027
Specification: 98% Standard
Location: TRN 17027
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31812A	24-31812B	24-31812C	24-31812D	24-31812E
Date Tested	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024
Time Tested	11:34	11:37	11:40	11:43	11:47
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 5	Lift 5	Lift 5	Lift 5	Lift 6
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	0	0	0	0
Field Wet Density (FWD) t/m ³	1.90	1.91	1.91	1.92	1.90
Field Moisture Content %	23.7	23.1	24.0	24.5	24.4
Field Dry Density (FDD) t/m ³	1.53	1.55	1.54	1.54	1.53
Peak Converted Wet Density t/m ³	1.93	1.93	1.93	1.92	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	99.0	98.5	99.5	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: P242082-8
Issue Number: 1
Date Issued: 14/11/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31812
Date Sampled: 08/11/2024
Dates Tested: 11/11/2024 - 13/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17027
Specification: 98% Standard
Location: TRN 17027
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



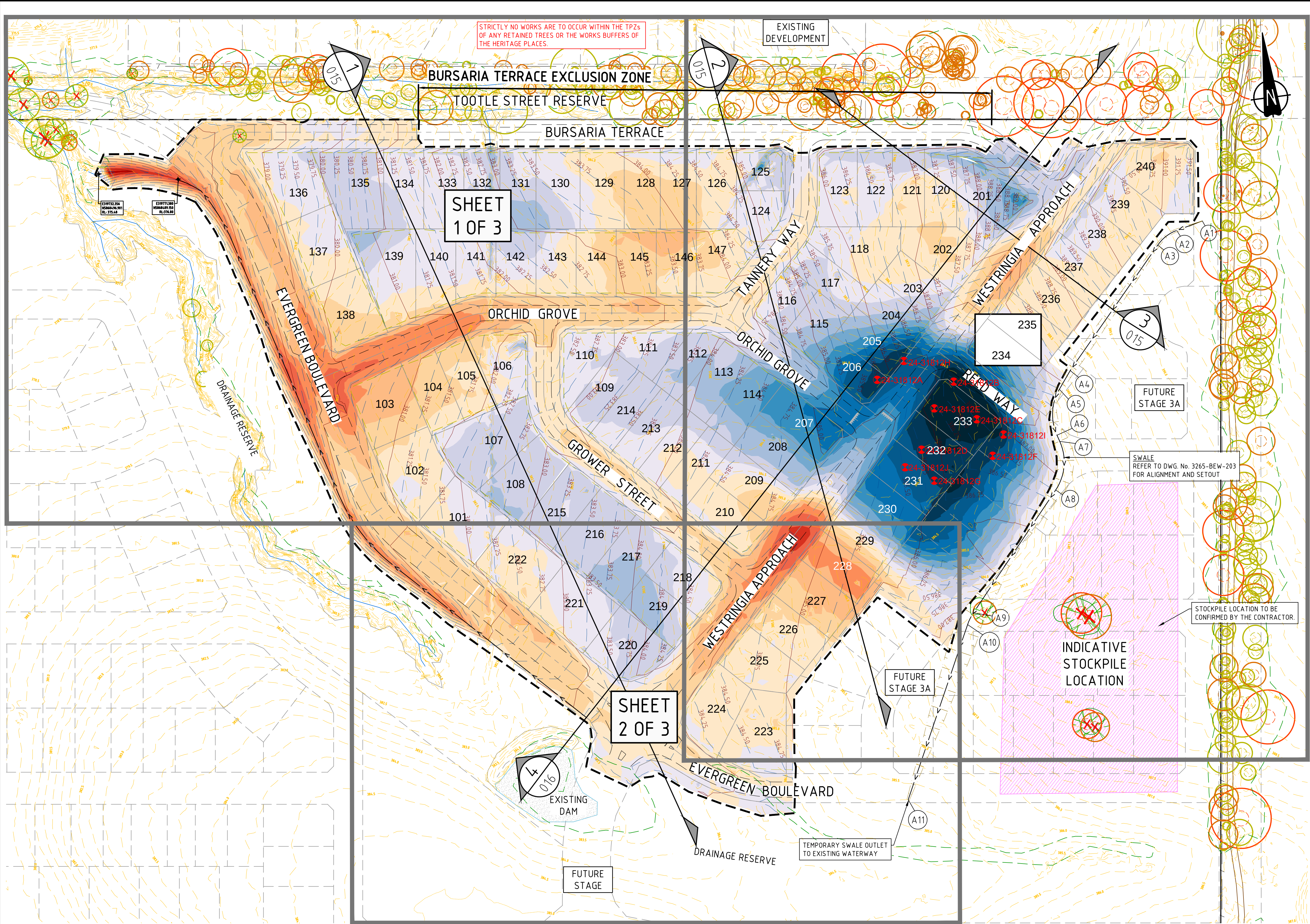
Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31812F	24-31812G	24-31812H	24-31812I	24-31812J
Date Tested	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024
Time Tested	11:50	11:54	12:00	12:06	12:11
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 6	Lift 6	Lift 7	Lift 7	Lift 7
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	**	0	**	0
Field Wet Density (FWD) t/m ³	1.90	1.92	1.92	1.93	1.93
Field Moisture Content %	24.8	23.5	25.2	23.3	26.3
Field Dry Density (FDD) t/m ³	1.53	1.56	1.54	1.57	1.53
Peak Converted Wet Density t/m ³	1.94	1.93	1.94	1.92	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	99.5	99.0	100.5	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



DEPTH RANGES (250mm)		
FROM	TO	COLOUR
-	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	
0.00	0.25	
0.25	0.50	
0.50	0.75	
0.75	1.00	
1.00	1.25	
1.25	1.50	
1.50	1.75	
1.75	2.00	
2.00	+	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BOUNDARY OF WORKS		---
TEMPORARY SWALE	- - - - -	- - - - -
SURFACE CONTOUR MINOR		- 52.00 -
SURFACE CONTOUR MAJOR	- 52.00 -	- 52.00 -
BATTER		- - - - -
FENCE - TREE PROTECTION		- x - x -
RIDGE LINE		- - - - -
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
EXISTING TREE TO BE REMOVED		
VEGETATION LINE		



NOTE
THIS PLAN DOES NOT CONSTITUTE ENGINEERING APPROVAL FOR CIVIL INFRASTRUCTURE. APPROVAL OF DETAILS ENGINEERING PLANS IS REQUIRED PRIOR TO THE INSTALLATION OF ANY CIVIL INFRASTRUCTURE.

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

0	24.07.24	TP			ISSUED FOR CONSTRUCTION
REV	DATE	DRN	OKD	APP	AMENDMENT

ISSUED FOR CONSTRUCTION



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This plan is not to be used for construction unless issued as revision 0 or higher

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Melbourne VIC 3004 T (03) 8548 1560
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JINDING
APPROVED PE 0005549
DESIGNED A. MAY
SCALE 1:1000 @ A1

PROJECT BROADSTAD - EARTHWORKS
TITLE OVERALL PLAN
MUNICIPALITY MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No. 3265-BEW-010
REVISION 0

ORIGINAL SIZE
A1

C:\Users\p401\Documents\3265-BEW-010\Drawings\3265-BEW-010_LAY.dwg 7/24/2024 9:27 AM TONY PHAN

Material Test Report

Report Number: P242082-9
Issue Number: 1
Date Issued: 26/11/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31525
Date Sampled: 17/10/2024
Dates Tested: 18/10/2024 - 21/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17242
Specification: 98% Standard
Location: TRN 17242
Material: Silty Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31525A	24-31525B	24-31525C	24-31525D	24-31525E
Date Tested	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
Time Tested	10:55	10:59	11:04	11:15	11:19
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 1	Lift 1	Lift 1	Lift 1	Lift 1
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	2.03	2.05	2.05	2.05	2.04
Field Moisture Content %	15.0	17.7	18.8	18.1	15.3
Field Dry Density (FDD) t/m ³	1.77	1.74	1.72	1.74	1.77
Peak Converted Wet Density t/m ³	2.06	2.07	2.06	2.07	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.0	99.5	99.0	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: P242082-9
Issue Number: 1
Date Issued: 26/11/2024
Client: Winslow Constructors Pty Ltd

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 31525
Date Sampled: 17/10/2024
Dates Tested: 18/10/2024 - 21/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17242
Specification: 98% Standard
Location: TRN 17242
Material: Silty Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



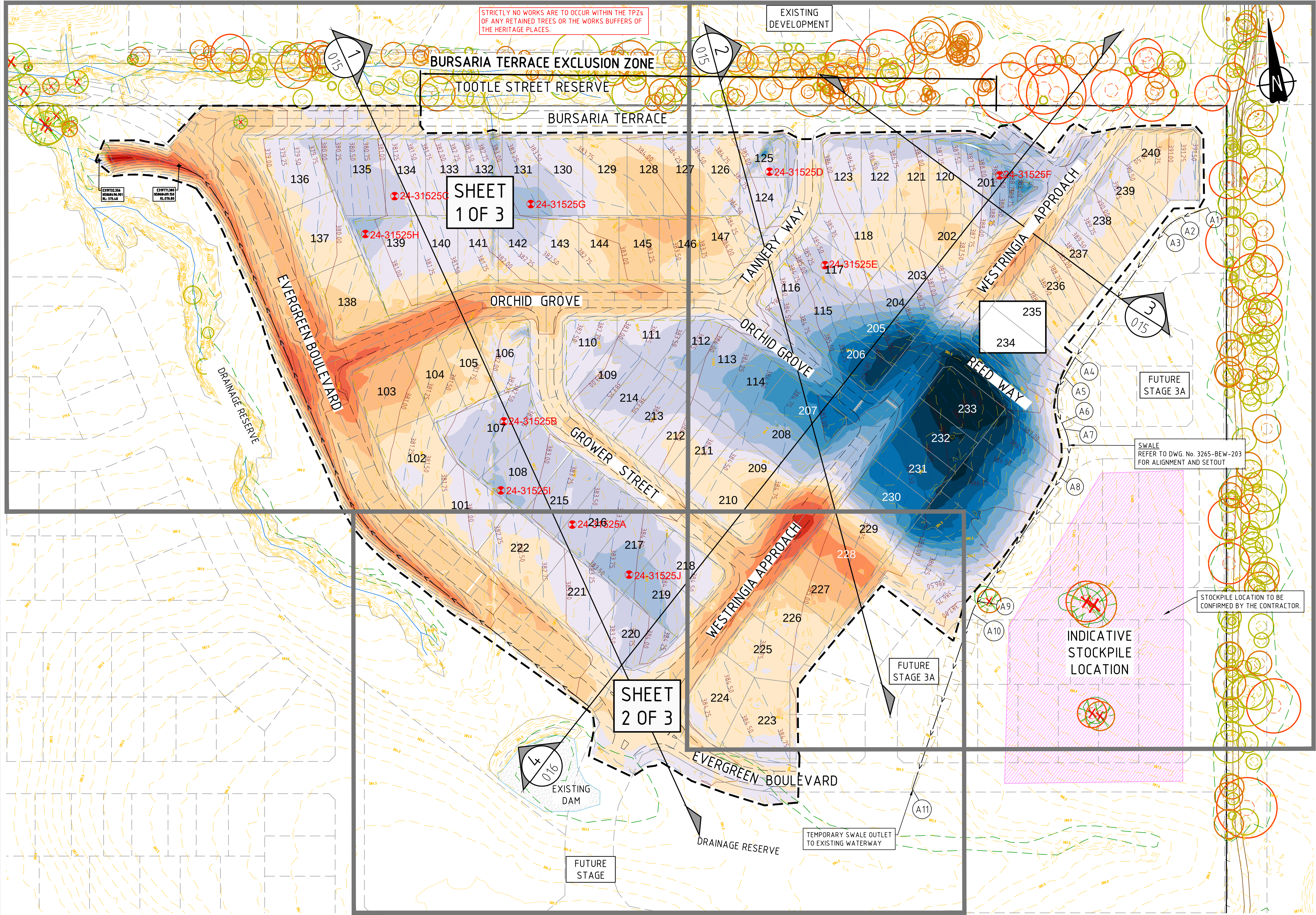
Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-31525F	24-31525G	24-31525H	24-31525I	24-31525J
Date Tested	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
Time Tested	11:23	11:28	11:34	11:39	11:47
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 2	Lift 2	Lift 2	Lift 2	Lift 2
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.82	1.82	1.94	1.92	1.93
Field Moisture Content %	16.0	16.9	16.1	16.9	18.4
Field Dry Density (FDD) t/m ³	1.57	1.56	1.67	1.65	1.63
Peak Converted Wet Density t/m ³	1.86	1.85	1.95	1.95	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	98.5	99.5	99.0	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



DEPTH RANGES (250mm)		
FROM	TO	COLOUR
-	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	
0.00	0.25	
0.25	0.50	
0.50	0.75	
0.75	1.00	
1.00	1.25	
1.25	1.50	
1.50	1.75	
1.75	2.00	
2.00	+	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BOUNDARY OF WORKS		---
TEMPORARY SWALE	- - - - -	- - - - -
SURFACE CONTOUR MINOR		- 52.00 -
SURFACE CONTOUR MAJOR	- 52.00 -	- 52.00 -
BATTER		- - - - -
FENCE - TREE PROTECTION		- x - x -
RIDGE LINE		- - - - -
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
EXISTING TREE TO BE REMOVED		
VEGETATION LINE		



NOTE
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0	24.07.24	TP	<i>[Signature]</i>	ISSUED FOR CONSTRUCTION
REV	DATE	DRN	OKD	APP
AMENDMENT				

ISSUED FOR CONSTRUCTION



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CLIENT
JINDING
APPROVED PE 0005549
[Signature]
DESIGNED
A. MAY
SCALE
1:1000 @ A1

PROJECT
BROADSTAD - EARTHWORKS
TITLE
OVERALL PLAN
MUNICIPALITY
MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No.
3265-BEW-010
REVISION
0

ORIGINAL SIZE
A1

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Material Test Report

Report Number: P242082-11
Issue Number: 1
Date Issued: 06/12/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 32094
Date Sampled: 19/11/2024
Dates Tested: 27/11/2024 - 03/12/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17042
Specification: 98% Standard
Location: TRN 17042
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	24-32094A	24-32094B	24-32094C	24-32094D	24-32094E	24-32094F
Date Tested	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024
Time Tested	09:40	09:43	09:47	09:50	09:54	09:58
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 8	Lift 8	Lift 8	Lift 9	Lift 9	Lift 9
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay	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 (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.90	1.89	1.90	1.86	1.87	1.87
Field Moisture Content %	21.2	23.7	23.6	24.2	21.2	25.9
Field Dry Density (FDD) t/m ³	1.56	1.53	1.53	1.50	1.54	1.49
Peak Converted Wet Density t/m ³	1.89	1.89	1.88	1.89	1.89	1.89
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	100.5	100.0	101.0	98.5	99.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P242082-11
Issue Number: 1
Date Issued: 06/12/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 32094
Date Sampled: 19/11/2024
Dates Tested: 27/11/2024 - 03/12/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17042
Specification: 98% Standard
Location: TRN 17042
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	24-32094G	24-32094H	24-32094I	24-32094J	24-32094K	24-32094L
Date Tested	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024
Time Tested	10:02	10:07	10:11	10:14	10:19	10:23
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 10	Lift 10	Lift 10	Lift 11	Lift 3	Lift 3
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay	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 (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.88	1.88	1.88	1.88	1.87	1.87
Field Moisture Content %	22.7	24.2	21.0	22.1	19.6	21.7
Field Dry Density (FDD) t/m ³	1.53	1.51	1.55	1.54	1.56	1.54
Peak Converted Wet Density t/m ³	1.88	1.88	1.88	1.87	1.88	1.89
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	-0.5	0.0	-0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	100.0	99.5	100.0	100.5	99.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P242082-11
Issue Number: 1
Date Issued: 06/12/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 32094
Date Sampled: 19/11/2024
Dates Tested: 27/11/2024 - 03/12/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17042
Specification: 98% Standard
Location: TRN 17042
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	24-32094M	24-32094N	24-32094O	24-32094P		
Date Tested	19/11/2024	19/11/2024	19/11/2024	19/11/2024		
Time Tested	10:26	10:30	10:34	10:39		
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill		
Layer / Reduced Level	Lift 3	Lift 3	Lift 3	Lift 3		
Thickness of Layer (mm)	200	200	200	200		
Soil Description	Clay	Clay	Clay	Clay		
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 (%)	**	**	**	**		
Field Wet Density (FWD) t/m ³	1.86	1.85	1.87	1.86		
Field Moisture Content %	20.0	20.6	19.4	19.5		
Field Dry Density (FDD) t/m ³	1.55	1.54	1.56	1.56		
Peak Converted Wet Density t/m ³	1.87	1.87	1.88	1.89		
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**		
Moisture Variation (Wv) %	0.0	-0.5	0.0	0.0		
Adjusted Moisture Variation %	**	**	**	**		
Hilf Density Ratio (%)	99.5	99.0	99.5	98.5		
Compaction Method	Standard	Standard	Standard	Standard		
Remarks	**	**	**	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P242082-12
Issue Number: 1
Date Issued: 13/12/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 32211
Date Sampled: 04/12/2024
Dates Tested: 06/12/2024 - 10/12/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 18314
Specification: 98% Standard
Location: TRN 18314
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-32211A	24-32211B	24-32211C	24-32211D	24-32211E
Date Tested	04/12/2024	04/12/2024	04/12/2024	04/12/2024	04/12/2024
Time Tested	10:51	10:57	11:04	11:10	11:15
Test Request #/Location	Swale Drain	Swale Drain	Swale Drain	Swale Drain	Swale Drain
Layer / Reduced Level	Lift 1	Lift 2	Lift 3	Lift 4	Lift 5
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
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	2.02	2.01	2.00
Field Moisture Content %	20.0	17.3	20.0	18.0	19.3
Field Dry Density (FDD) t/m ³	1.69	1.73	1.69	1.70	1.68
Peak Converted Wet Density t/m ³	2.03	2.03	2.04	2.03	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	100.0	99.5	99.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P242082-12
Issue Number: 1
Date Issued: 13/12/2024
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 32211
Date Sampled: 04/12/2024
Dates Tested: 06/12/2024 - 10/12/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 18314
Specification: 98% Standard
Location: TRN 18314
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



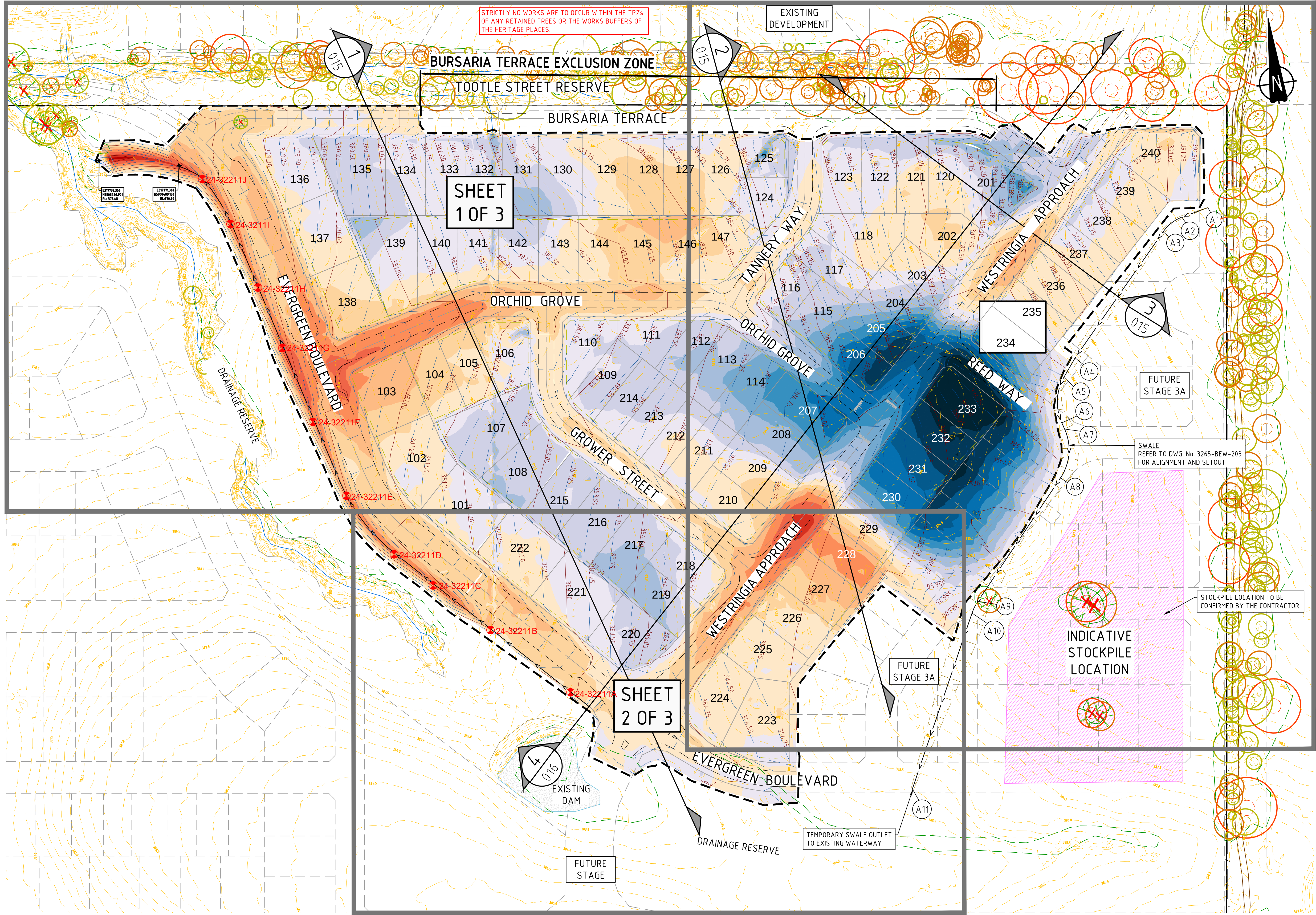
Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	24-32211F	24-32211G	24-32211H	24-32211I	24-32211J
Date Tested	04/12/2024	04/12/2024	04/12/2024	04/12/2024	04/12/2024
Time Tested	11:19	11:26	11:34	11:48	11:57
Test Request #/Location	Swale Drain	Swale Drain	Swale Drain	Swale Drain	Swale Drain
Layer / Reduced Level	Lift 6	Lift 7	Lift 8	Lift 9	Lift 10
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	0	0	0	0
Field Wet Density (FWD) t/m ³	2.00	2.02	2.03	2.03	2.02
Field Moisture Content %	19.9	19.5	21.4	20.3	20.1
Field Dry Density (FDD) t/m ³	1.67	1.69	1.68	1.69	1.68
Peak Converted Wet Density t/m ³	2.02	2.02	2.04	2.02	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	100.0	100.0	100.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC



DEPTH RANGES (250mm)		
FROM	TO	COLOUR
-	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	
0.00	0.25	
0.25	0.50	
0.50	0.75	
0.75	1.00	
1.00	1.25	
1.25	1.50	
1.50	1.75	
1.75	2.00	
2.00	+	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BOUNDARY OF WORKS		---
TEMPORARY SWALE	- - - - -	- - - - -
SURFACE CONTOUR MINOR		- 52.00 -
SURFACE CONTOUR MAJOR	- 52.00 -	- 52.00 -
BATTER		- - - - -
FENCE - TREE PROTECTION		- x - x -
RIDGE LINE		- - - - -
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
EXISTING TREE TO BE REMOVED		
VEGETATION LINE		



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REV	DATE	DRN	OKD	APP	AMENDMENT

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CLIENT
JINDING
APPROVED PE 0005549
DESIGNED
A. MAY
SCALE
1:1000 @ A1

PROJECT
BROADSTAD - EARTHWORKS
TITLE
OVERALL PLAN
MUNICIPALITY
MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No.
3265-BEW-010
REVISION
0

ORIGINAL SIZE
A1

Material Test Report

Report Number: P242082-15
Issue Number: 1
Date Issued: 24/02/2025
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 32940
Date Sampled: 12/02/2025
Dates Tested: 12/02/2025 - 17/02/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17986
Specification: 98% Standard
Location: TRN 17986
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	25-32940A	25-32940B	25-32940C	25-32940D	25-32940E
Date Tested	12/02/2025	12/02/2025	12/02/2025	12/02/2025	12/02/2025
Time Tested	11:39	11:42	11:47	11:51	12:01
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 11	Lift 11	Lift 11	Lift 11	Lift 11
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.85	1.86	1.85	1.85	1.84
Field Moisture Content %	21.7	24.4	22.8	21.8	24.6
Field Dry Density (FDD) t/m ³	1.52	1.49	1.51	1.52	1.47
Peak Converted Wet Density t/m ³	1.87	1.87	1.87	1.88	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.5	99.0	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P242082-15
Issue Number: 1
Date Issued: 24/02/2025
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 32940
Date Sampled: 12/02/2025
Dates Tested: 12/02/2025 - 17/02/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17986
Specification: 98% Standard
Location: TRN 17986
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



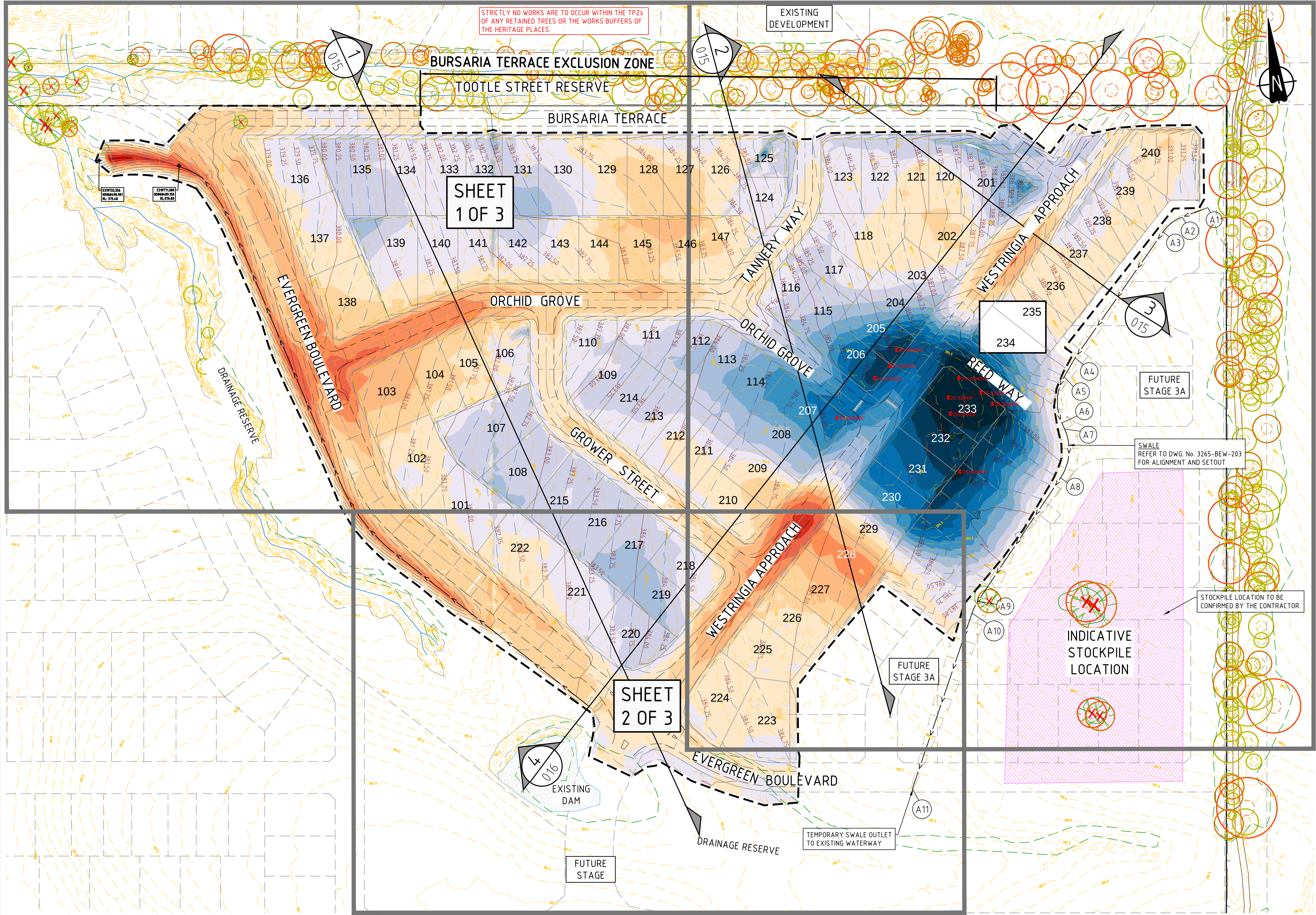
Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	25-32940F	25-32940G	25-32940H	25-32940I	25-32940J
Date Tested	12/02/2025	12/02/2025	12/02/2025	12/02/2025	12/02/2025
Time Tested	12:10	12:15	12:19	12:31	12:37
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 11	Lift 11	Lift 12	Lift 12	Lift 12
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.86	1.84	1.85	1.86	1.85
Field Moisture Content %	23.3	24.9	24.5	22.4	24.5
Field Dry Density (FDD) t/m ³	1.50	1.48	1.48	1.52	1.49
Peak Converted Wet Density t/m ³	1.88	1.87	1.87	1.87	1.88
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	98.5	98.5	100.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC



DEPTH RANGES (250mm)		
FROM	TO	COLOUR
-	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	
0.00	0.25	
0.25	0.50	
0.50	0.75	
0.75	1.00	
1.00	1.25	
1.25	1.50	
1.50	1.75	
1.75	2.00	
2.00	+	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BOUNDARY OF WORKS		---
TEMPORARY SWALE	- - - - -	- - - - -
SURFACE CONTOUR MINOR		- 52.00 -
SURFACE CONTOUR MAJOR	- 52.00 -	- 52.00 -
BATTER		- - - - -
FENCE - TREE PROTECTION		- x - x -
RIDGE LINE		- - - - -
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
EXISTING TREE TO BE REMOVED		
VEGETATION LINE		



NOTE
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REV	DATE	DRN	OKD	APP	AMENDMENT

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CLIENT
JINDING
APPROVED PE 0005549
DESIGNED A. MAY
SCALE 1:1000 @ A1

PROJECT
BROADSTAD - EARTHWORKS
TITLE
OVERALL PLAN
MUNICIPALITY
MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No.
3265-BEW-010
REVISION
0

ORIGINAL SIZE
A1

Material Test Report

Report Number: P242082-20
Issue Number: 1
Date Issued: 26/03/2025
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 33048
Date Sampled: 20/02/2025
Dates Tested: 20/02/2025 - 25/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17603
Specification: 98% Standard
Location: TRN 17603
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	25-33048A	25-33048B	25-33048C	25-33048D	25-33048E
Date Tested	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Tested	12:10	12:17	12:23	12:30	12:41
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 12	Lift 12	Lift 12	Lift 12	Lift 12
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	2.05	2.04	2.04	2.04	2.03
Field Moisture Content %	22.8	22.9	22.4	21.7	22.9
Field Dry Density (FDD) t/m ³	1.67	1.66	1.66	1.67	1.65
Peak Converted Wet Density t/m ³	2.04	2.05	2.06	2.05	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.5	100.0	99.0	99.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P242082-20
Issue Number: 1
Date Issued: 26/03/2025
Client: Winslow Constructors Pty Ltd

**Pearce Geotech**
Pearce Geotech Pty Ltd
23 Nobility Street Moolap VIC 3221
Phone: (03) 5248 7887
Email: tony@pearcegeotech.com.au

Contact: Martin Pham
Project Number: P242082
Project Name: Broadstead Estate (Early Works)
Project Location: 200 Quinns Rd, Kilmore
Work Request: 33048
Date Sampled: 20/02/2025
Dates Tested: 20/02/2025 - 25/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 17603
Specification: 98% Standard
Location: TRN 17603
Material: Clay
Material Source: Insitu



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Approved Signatory: Anthony Green
Senior Technician

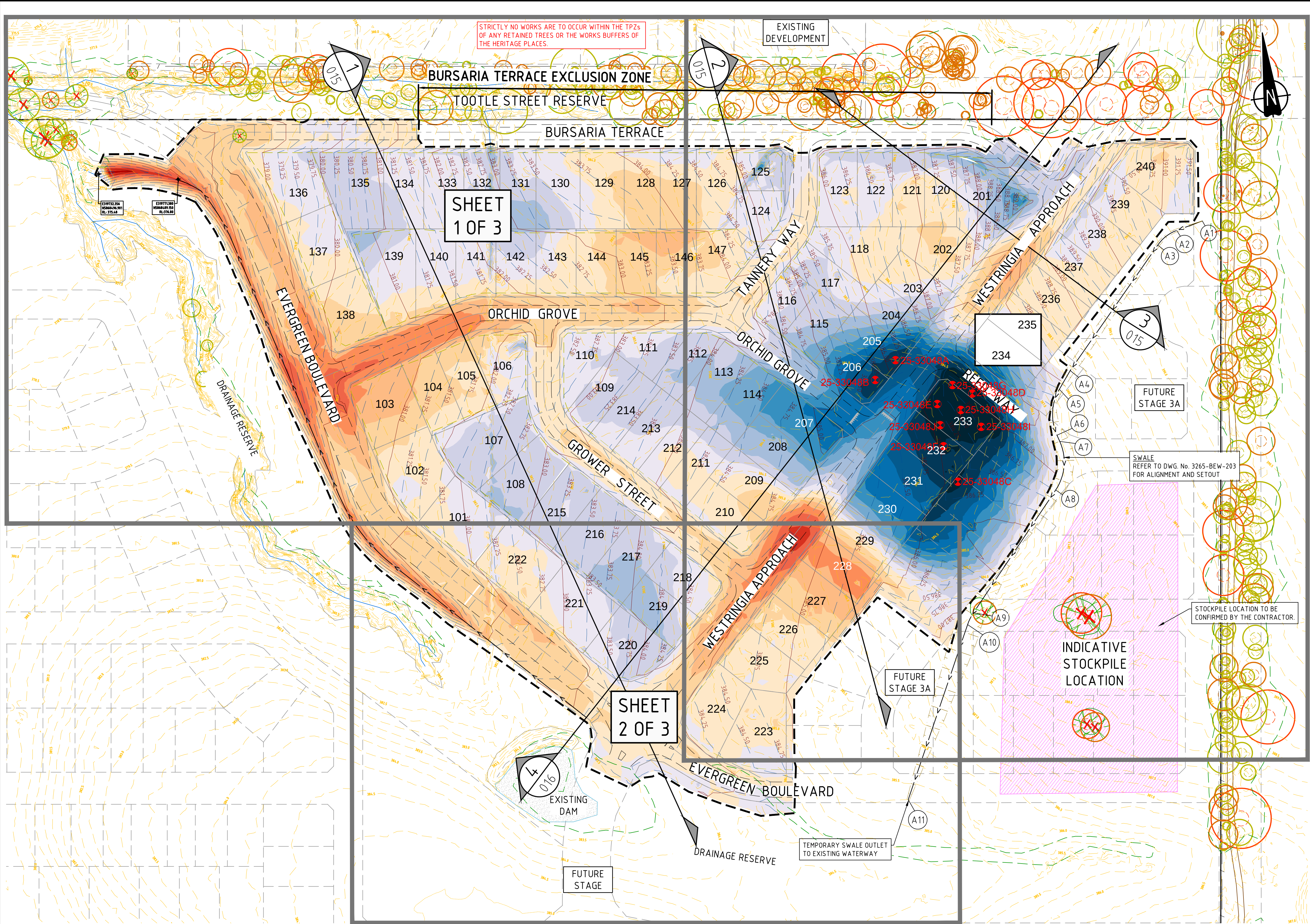
NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	25-33048F	25-33048G	25-33048H	25-33048I	25-33048J
Date Tested	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
Time Tested	12:48	12:54	13:06	13:14	13:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Layer / Reduced Level	Lift 12	Lift 13	Lift 13	Lift 13	Lift 13
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	2.01	2.00	2.00	2.01	2.00
Field Moisture Content %	24.9	24.3	23.9	24.1	25.5
Field Dry Density (FDD) t/m ³	1.61	1.61	1.61	1.62	1.59
Peak Converted Wet Density t/m ³	2.04	2.03	2.01	2.02	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	98.5	99.5	99.5	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC



DEPTH RANGES (250mm)		
FROM	TO	COLOUR
-	-2.00	
-2.00	-1.75	
-1.75	-1.50	
-1.50	-1.25	
-1.25	-1.00	
-1.00	-0.75	
-0.75	-0.50	
-0.50	-0.25	
-0.25	0.00	
0.00	0.25	
0.25	0.50	
0.50	0.75	
0.75	1.00	
1.00	1.25	
1.25	1.50	
1.50	1.75	
1.75	2.00	
2.00	+	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
BOUNDARY OF WORKS		---
TEMPORARY SWALE	- - - - -	- - - - -
SURFACE CONTOUR MINOR		- 52.00 -
SURFACE CONTOUR MAJOR	- 52.00 -	- 52.00 -
BATTER		- - - - -
FENCE - TREE PROTECTION		- x - x -
RIDGE LINE		- - - - -
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
EXISTING TREE TO BE REMOVED		
VEGETATION LINE		



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TITLE
OVERALL PLAN
MUNICIPALITY
MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No.
3265-BEW-010
REVISION
0

ORIGINAL SIZE
A1

C:\Users\pau\OneDrive\Documents\3265-BEW-010.LAY.dwg 7/24/2024 9:27 AM TONY PHAN