Geotechnical | Environmental | Residential | Pavements | Investigations & Design



Site: Newhaven Estate Stage 9, Tarneit

Project No: 1120 0158-1



Prepared for BMD Urban February 2020



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Revision Chart									
Version	Description	Author	Reviewer	Release Approval	Release Date	Client Copy			
0	Level 1 Inspection and Testing Report	YZ	ΤA	ΤA	28/02/2020	Soft copy (email)			

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1. Introduction

This report presents the results of the Level 1 Inspection and Testing for the construction of the fill platforms at the Newhaven Estate Stage 9, Tarneit.

2. Project Summary

It is understood that BMD Urban requires the fill platforms within Newhaven Estate Stage 9 to be constructed under Level 1 Inspection and Testing undertaken by a Geotechnical Inspection and Testing Authority (GITA).

Level 1 Inspection and Testing, as defined in AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development," provides for full time inspection of the construction of controlled fill and field and laboratory testing in accordance with AS1289 "Methods of Testing Soils for Engineering Purposes".

The Level 1 Inspection and Testing was undertaken by a Senior Geotechnician from A&Y Associates over a period of 3 working days:

• 6th February 2020 to 8th February 2020

This report is applicable for fill placed by BMD Urban for the proposed locations below in Newhaven Estate Stage 9 as shown in Appendix A - Site Plan.

- Lot 908-914
- Lot 921-926
- Lot 932-936

3. Project Specifications

No specification has been provided for the construction works in Newhaven Estate Stage 9. The supervision and inspections were performed based on AS3798. A short summary of the requirements outlined in AS3798 is provided below:

- All filling in excess of 300mm depth within the building envelope of allotments shall be undertaken to specifications satisfying the requirements of AS3798.
- Material to be used for fill construction shall satisfy the requirements of AS23798-2007 "Guidelines on Earthworks for Commercial and residential Developments". Material used shall be free of:
 - Organic soils, such as topsoils, severely root affected subsoil and peat;
 - Contaminated soils;
 - Materials which undergo volume change or loss of strength when disturbed and exposed to moisture;
 - Silts, or materials that have deleterious engineering properties of silt;
 - Fill that contains wood, metal, plastic, boulders or other deleterious material, in sufficient proportions to affect the required performance of fill;
 - The maximum particle size of any rocks or other lump, within the layer, has not exceeded two-thirds (2/3) of the compacted layer thickness.
- Compaction to achieve a dry density ratio of at least 95% Standard, as the project was classified as **Residential.**



4. Subgrade Assessment

The subgrade was assessed by A&Y Associates following the removal of asbestos contaminated soils and topsoils before any fill was placed. The subgrade assessment was undertaken on 5th February 2020 as mentioned in report *1120-0158-1 (SSI1)*.

The exposed subgrade was rolled by a 20 tonne compactor. The exposed subgrade material comprised natural silty clay. No wet or soft patches were found during the inspection. No evidence of deleterious material was found during the inspection.

5. Earthworks

The earthworks for this project included stripping of topsoil, removing of tree roots, proof rolling the subgrade and placement and compaction of fill to construct engineered platforms.

Based on design plans and site inspection, it appears that the average fill thickness placed is as follows:

• Approximately 300mm

6. Fill Material

The fill material used for the platform consisted of site derived Clay Fill.



7. Testing

Field density testing was undertaken on the compacted fill at a frequency of a minimum of 3 tests per layer for the trench backfill.

Test were performed using Nuclear Density Gauge for field density determination as per AS 1289.5.8.1. Testing was completed at a minimum rate of 3 field density test per day's production.

A total of 9 field density tests were performed during the earthworks. All of the test results met the specified compaction requirement of 95% Standard Compaction.

The locations of the 9 field density tests are shown in Appendix B - Test Locations. A summary of the test results obtained from the filed density testing is presented in Appendix C – Test Results Summary. The laboratory test reports of the field density tests are presented in Appendix D – NATA Test Results.

8. Exclusion

Trenches were excavated and backfilled on site for the installation of underground services such as sewers, electrical conduits, water mains etc. Footpaths in front of the lots were also observed to be excavated and filled during and after the Level 1 supervision conducted by A & Y Associates. Uncontrolled fill and topsoil may have been placed as part of the landscaping of the site following the completion of the engineered fill construction.

A & Y Associates was not involved in monitoring and testing these works and as such are not included in the Level 1 report.



9. Conclusion

On the completion of the earthworks and after analysing the materials used, it has been concluded that the filling procedure conducted by BMD Urban appears to be consistent with the requirements of AS 3798 in regards to the placement of fill materials on a project under Level 1 Supervision and in accordance with the project specification as provided to A & Y Associates.

This report has been prepared for the benefit of our client with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement. No responsibility for this report will be taken by A & Y Associates if it is altered in any way, or not reproduced in full.



Appendix A – Site Plan





PROJECT:	CLIENT:	DATE:	
Newhaven Estate Stage 9	BMD Urban	28/02/2020	
LOCATION:	PROJECT NO:		GEOTECHNICAL ENGINEERING CONSULTANTS
Tarneit	1120 0158-1 (SI01)	SITE PLAN SKETCH—NOT TO SCALE	

Area Inspected



Appendix B – Test Locations



PREVIDE TEXPORARY CONCRETE LODE STRIP AT LIVET OF WORKS

FUTURE

STAGE 10

SLAME DEP PIPE VITH CONCRETE OF MARKE GRADE TH-605

FOR LINEMARKING SPECIFICA YORK REVER CRIMIN

BEL ALLA

905 8 904 8 5

906 84



ROVIDE TEMPORURY CONCRE TEMPORARY CRUSHED ROCK TURNAROUND AND AS WITH BOLLARDS AT 54 OFFSET AND 154 DRACING IN ACCORDANCE WITH VICE STANDARD DRAWING 5016-2 20 AT LIFET OF WORKS CHARGE GATS 13 M CARS CHARGE GREY CONCRETE PEPER STANDARD RETARS RECK TURBANDONED AREAS WITH BOLL ARES AT the DUFFICE ARE 15% SPACING ON ADJOINT AND 15% UTTH WCC STRINGARD DRAWING SOVIE-1 I Sen CALL vann - BLANK OFF PPE WITH CONCEPTE OF HAMPE WARNING W A RNING BEWARE OF UNDERGROUND/DYERHEAD SERVICES THE LOCATION OF SITUATE AN APPROXIMATE AND A THE SALET HOLTING SITUATE AN APPROXIMATE S OFWERNAL LEDSTING SERVICES ARE DOWN (STOLL CONSTRUCT ALL DISTING SERVICES ARE DOWN (STOLL CONSTRUCT ALL DISTING SERVICES ARE DOWN (STOLL) BLANK OFF PIPE WITH CONCIDENTE BIT HARRIE GRADE THENET -PROVIDE TEMPORARY CONCRETE EDGE STIMP AT LINET OF WORKS EPH (FALPHER ELEPTP) HGA 94 ZONE 50 ⊗7 LIN 19 101150 P 927 8 932 928 1929 1930 925 93 803 調報 184.25 01010 1075 01010 1075 933, TEMPORARY I 924 FAITH ROAD 1 LICONTINUATION 'AT 04110 相子-Oradisa . 182 923 9341 CATCH OPAN MTD KERD BOLLARDS AT 16 OFFSET AND 156 SPACING IN ACCOMPANICS WITH VICE STANDARD (PRAVING SDN-1 ⊗⁸ ⊗⁹ 1417 5-0736 922 44444 UN HI OTDAYS FUTURE 國新 STAGE 14 939 BLARC OFF PIPE WITH CONCIDENTS OF HILPING 0mm 921 1wsz 0mm 920 920 PROVIDE TEMPORADY CONCRETE COM STR AT LIMIT OF WORKS 414 154 611255 936 ⊗⁶ IN ACCORDANCE WITH GREET DEMPERATES EATEN DRAW HITD KEPS BAYERT RASED PAVONENT REFOR \otimes^3 100 TO M IWSJ 服音 FUTURE 記書 198 - of a 919 915 3 916 16 917 PATHS AND OTHER RESERVE FEATURES TO BE IN LANDSCAPE CONTRACT STAGE 15 A DOLAL TWICK -913 918 918 BOLLARDS AND "DAY DULARDS AND "DAY CLOSED" SIGNAGE AND CENNECT ADDA PERE EXISTING ENDPIPE × 51 RESERVE (1ha) ALD/ DOMAN ROAD 問題 911 1 FUTURE STAGE 11-937 出 132.451 TH 2 F17.44 F17.54 112 1 00000 952 1909 最低 THE INSS 18 out 951 185 CONCRETE OF HARING GRADE THOSE OF PLIBLIC LIGHT 908 LIGHTING LIGHTING CASEPEND 18279 1844 (28) 1926 02CB IS DOWN FROM TO GRAIN FREDLY), REDS AT TH OFFSET AND 15H THIS IN ACCORDANCE WITH WO 開設 儲 182 國家 STANDARD DRAMBO SO10-2 AND "WOAD CLOSUP SIGNARE 907 EXISTING 調 EX MUNCH SEVER 08 11 CONNECT 12000 PIPE TO EXISTING DACINES distant. ODYSSEY CO RENOVE TEMPORATY EDG AND "READ CLOSED" SAD NATCH TO EXISTING

PROJECT: Newhaven Estate Stage 9	CLIENT: BMD Urban	DATE: 28/02/2020	
LOCATION: Tarneit	PROJECT NO: 1120 0158-1 (SI01)	SITE PLAN SKETCH—NOT TO SCALE	GEOTECHNICAL ENGINEERING CONSULTANTS

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EXISTING EXEMPTE

AAGCO PAVONENT REPOR





Appendix C – Test Results Summary

Project No	1120 0158-1	Client	BMD Urban	
Project Name	Newhaven Estate Stage 9	Specification		Density Ratio ≥ 95% of Peak Wet Density
Location	Tarneit			

Test No	Retest of Test	Date	Location	Layer	Oversize	Density Ratio	Moisture Ratio	Moisture Variation	Pass / Fail	Retest
#	#		Lot #	#	%	%	%	%		Pass / Fail
1	-	6/02/2020	Refer To Plan	1	0.0	98.0	91.0	-2.5	Pass	-
2	-	6/02/2020	Refer To Plan	1	0.0	96.5	90.0	-3.0	Pass	-
3	-	6/02/2020	Refer To Plan	1	0.0	96.0	89.5	-3.0	Pass	-
4	-	7/02/2020	Refer To Plan	1	0.0	96.5	89.0	-3.0	Pass	-
5	-	7/02/2020	Refer To Plan	1	0.0	97.0	94.5	-1.5	Pass	-
6	-	7/02/2020	Refer To Plan	1	0.0	97.0	90.0	-2.5	Pass	-
7	-	8/02/2020	Refer To Plan	1	0.0	98.5	90.5	-2.5	Pass	-
8	-	8/02/2020	Refer To Plan	1	0.0	97.0	89.5	-2.5	Pass	_
9	-	8/02/2020	Refer To Plan	1	0.0	98.0	91.0	-2.5	Pass	_

** Negative (-) value indicates that the field moisture content is drier than the optimum moisture content (OMC)
** Positive (+) value indicates that the field moisture content is wetter than the optimum moisture content (OMC)



Appendix D – NATA Test Results



Field Density Test Results AS1289.5.7.1

A & Y Associates Pty Ltd 5/16 Network Drive Truganina VIC 3029 PH: 0400 413 531 info@ayassociates.com.au

Client:		BMD Urban		Job No:	BMD996		
Project:		Newhaven Estate Stage 9					1
Location:		Tarneit					
					1	1	
Sample No		1	2	3			
Date Tested		6/02/2020	6/02/2020	6/02/2020			
Time Tested		PM	PM	PM			
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
		Lot 910	Lot 912	Lot 914			
Level/Layer		1	1	1			
Layer Thickness	mm	300	300	300			
Test Depth	mm	275	275	275			
Field Wet Density	t/m³	1.809	1.793	1.81			
Field Moisture Content	%	24.1	25.2	25.5			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
Oversize Material	WET, %	0.0	0.0	0.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.85	1.86	1.89			
Optimum Moisture Content	%	26.5	28	28.5			
					1		
Moisture Ratio	%	91	90	89.5			
Moisture Variation	%	-2.5	-3.0	-3.0			
from OMC		Drier	Drier	Drier			
Density Ratio	%	98.0	96.5	96.0			
Specification:	95% STD				Test Selection:	Ν	I/A
Notes:	Ref: 1120	0158-1 (SI01)					
Test Method	AS1289 5.	8.1, 5.7.1, 2.1.1, 1.1			Sampling Method:	AS 1289 1	2.1 6.4(b)
NATA	NATA Accre Accreditatic The results	edited Laboratory No. 2 on for compliance with of tests, calibrations a	20172 ISO/IEC 17025 - Tesi and/or measurements	David	Burns		
WORLD RECOGNISED	in this docu	ment, are traceable to	Australian / National	10/02	2/2020		





ROVIDE TEMPORURY CONCRET TEMPORARY CRUSHED ROCK TURNAROUND AND AS WITH BOLLARDS AT 54 OFFSET AND 154 DRACING IN ACCORDANCE WITH VICE STANDARD DRAWING 5016-2 20 AT LIPST OF WIRPOT CHARGE GATS 13 M CARS CHARGE GREY CONCRETE PEPER STANDARD RETARS AREAS VITH BOLLARDS AREAS WITH BOLLARDS AT to DIFFET ARD TSM SPADNE IN AUCORDANCE WITH MCC STUMBARD DRAWING SOVIES Handler vann - BLANK OFF PPE WITH CONCEPTE OF HAMPE WARNING W A RNING BEWARE OF UNDERGROUND/DYERHEAD SERVICES THE LOCATION OF SITUATE AN APPROXIMATE AND A THE SALET HOLTING SITUATE AN APPROXIMATE S OFWERNAL LEDSTING SERVICES ARE DOWN (STOLL CONSTRUCT ALL DISTING SERVICES ARE DOWN (STOLL CONSTRUCT ALL DISTING SERVICES ARE DOWN (STOLL) BLANK OFF PIPE WITH CONCIDENTE BIT HARRIE GRADE THENET -PROVIDE TEMPORARY CONDIETE EDGE STIMP AT LIMIT OF WIRES EPH (FALPHER ELEPTP) HGA 94 ZONE 50 LIN 19 101750 P 927 20 一個新行用語言 928 1929 1930 1100 20 925 932 931 8428 調報 0184.32 TEMPORARY I 01810 933, 器計 924 FAITH ROAD 1 CONTINUATION 'A' 06110 Oranges Ets: 182 923 CATCH OPAN MTD KERD 9341 BOLLARDS AT 16 OFFSET AND 156 SPACING IN ACCOMPANICS WITH VICE STANDARD (PRAVING SDN-1 5-000 Se 922 44444 UN IL O FUTURE 段群 STAGE 14 939 000.19 921 間 BLARC OFF PIPE WITH CONCIMENTE OF HARMER PROVIDE TEMPORADY CONCRETE COM STR AT LIMIT OF WORKS IN ACCORDANCE WITH - 문상 1113 11417 011(3) 920 GREET DEMPERATES EATEN DRAW HITE KEPS BAYERT RASED PAVONENT REFOR \otimes^3 FOR TWN CONTRACT (and 服音 FUTURE 記書 品語 () 919 915 3 916 16 917 PATHS AND OTHER RESERVE FEATURES TO BE IN LANDSCAPE CONTRACT STAGE 15 A DIAL TWICK -913 918 EDGESTINP, TURNING BOLLARDS AND "ROW CLOSED" SIGNAGE AN CONNECT AND PART EXISTING ENDPIPE All and \otimes RESERVE (1ha) ALD/ DOMAN ROAD 問題 911 1 FUTURE STAGE 11-937 出 132.451 TH 2 1244 100 marin 952 1909 152.47 THE INSS 100 0019951 1050 CONCRETE OR MARINE GRADE THIST OF PLIBLIC LIGHT 908 DENTING 18279 1844 (28) 1926 02CB IS DOWN FROM TO GRAIN FREDLY), REDS AT TH OFFSET AND 15H THIS IN ACCORDANCE WITH WO 開設 儲 182 國家 STANDARD DRANEG SOID-2 AND "WGAD CLINICITY SIGNARE 907 EXISTING 調 EX MUNCH SEVER 00 11 CONNECT 12000 PIPE TO EXISTING DACINES distant. ODYSSEY RENOVE TEMPORATY EDG AND "READ CLOSED" SAD NATCH TO EXISTING BOULEVA PREVIDE TEXPORARY CONCRETE LODE STRIP AT LIVET OF WORKS ODYSSEY BOULEVARD ALL ALL FUTURE AAGCO PAVONENT REPOR STAGE 10 KX 906213 905 8 904 8 5 SLAME DEP PIPE VITH CONCRETE OF MARKE GRADE TH-605 903 alle 902 alle 901 10 FOR LINEMARKING SPECIFICA YORK REVER CRIMIN 自聽

PROJECT:	CLIENT:	DATE:	
Newhaven Estate Stage 9	BMD Urban	6/02/2020	
LOCATION:	PROJECT NO:		GEOTECHNICAL ENGINEERING CONSULTANTS
Tarneit	1120 0158-1 (SI01)	SITE PLAN SKETCH—NOT TO SCALE	



Field Density Test Results AS1289.5.7.1

A & Y Associates Pty Ltd 5/16 Network Drive Truganina VIC 3029 PH: 0400 413 531 info@ayassociates.com.au

Client:		BMD Urban		Job No:	BMD996		
Project:		Newhaven Esta	ite Stage 9			Report:	2
Location:		Tarneit					
Sample No		4	5	6			
Date Tested		7/02/2020	7/02/2020	7/02/2020			
Time Tested		PM	PM	PM			
					1		
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
		Lot 932	Lot 934	Lot 936			
Level/Layer		1	1	1			
Layer Thickness	mm	300	300	300			
Test Depth	mm	275	275	275			
Field Wet Density	t/m³	1.837	1.876	1.89			
Field Moisture Content	%	22.2	22.7	21.7			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
Oversize Material	WET, %	0.0	0.0	0.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.91	1.93	1.95			
Optimum Moisture Content	%	25	24	24			
						1	
Moisture Ratio	%	89	94.5	90			
Moisture Variation	%	-3.0	-1.5	-2.5			
from OMC		Drier	Drier	Drier			
Density Ratio	%	96.5	97.0	97.0			
Specification:	95% STD				Test Selection:	Ν	I/A
Notes:	Ref: 1120	0158-1 (SI02)					
Test Method	AS1289 5.	8.1, 5.7.1, 2.1.1, 1.1			Sampling Method:	AS 1289 1	2.1 6.4(b)
NATA	NATA Accre Accreditatio The results	edited Laboratory No. 2 on for compliance with of tests, calibrations a	20172 ISO/IEC 17025 - Test and/or measurements	David	Burns		
WORLD RECOGNISED ACCREDITATION	in this docu	ment, are traceable to	Australian / National	11/02	2/2020		









Field Density Test Results AS1289.5.7.1

A & Y Associates Pty Ltd 5/16 Network Drive Truganina VIC 3029 PH: 0400 413 531 info@ayassociates.com.au

Client:		BMD Urban		Job No:	BMD996		
Project:		Newhaven Estate Stage 9					3
Location:		Tarneit					
							1
Sample No		7	8	9			
Date Tested		8/02/2020	8/02/2020	8/02/2020			
Time Tested		PM	PM	PM			
							1
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
		Lot 925	Lot 922	Lot 919			
Level/Layer		1	1	1			
Layer Thickness	mm	300	300	300			
Test Depth	mm	275	275	275			
Field Wet Density	t/m³	1.916	1.934	1.896			
Field Moisture Content	%	23.5	22.4	22.7			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
Oversize Material	WET, %	0.0	0.0	0.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.94	1.99	1.94			
Optimum Moisture Content	%	26	25	25			
Moisture Ratio	%	90.5	89.5	91			
Moisture Variation	%	-2.5	-2.5	-2.5			
from OMC		Drier	Drier	Drier			
Density Ratio	%	98.5	97.0	98.0			
Specification:	95% STD				Test Selection:	Ν	I/A
Notes:	Ref: 1120	0158-1 (SI03)					
Test Method	AS1289 5.	8.1, 5.7.1, 2.1.1, 1.1			Sampling Method:	AS 1289 1	2.1 6.4(b)
NATA	NATA Accre Accreditatio The results	dited Laboratory No. 2 on for compliance with of tests, calibrations a	20172 ISO/IEC 17025 - Test Ind/or measurements	David	Burns		
WORLD RECOGNISED ACCREDITATION	in this docu	ment, are traceable to	Australian / National	11/02	2/2020		





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PROJECT:	CLIENT:	DATE:	
Newhaven Estate Stage 9	BMD Urban	6/02/2020	
LOCATION:	PROJECT NO:		GEOTECHNICAL ENGINEERING CONSULTANTS
Tarneit	1120 0158-1 (SI03)	SITE PLAN SKETCH—NOT TO SCALE	