



22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3

# **REPORT ON LEVEL 1**

## **EARTHWORKS INSPECTION AND TESTING**



**PROJECT: AURORA STAGE 3 & 4 - DALEYS ROAD RIPLEY**

**CONTRACTOR: BMD URBAN PTY LTD**

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## 1 INTRODUCTION

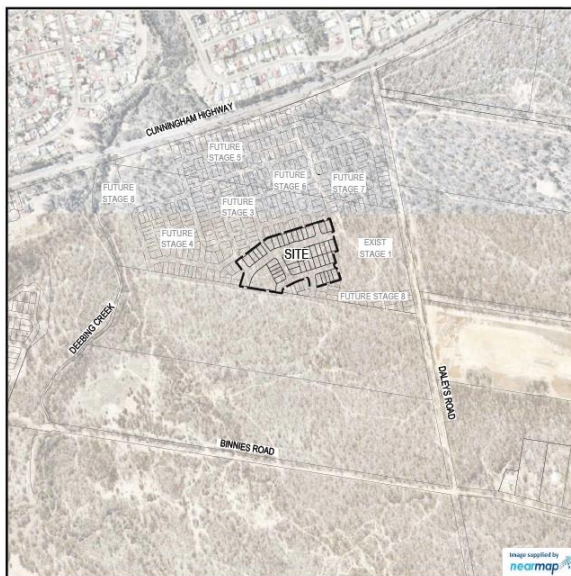
### 1.0 GENERAL

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with Clause 8.2 of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

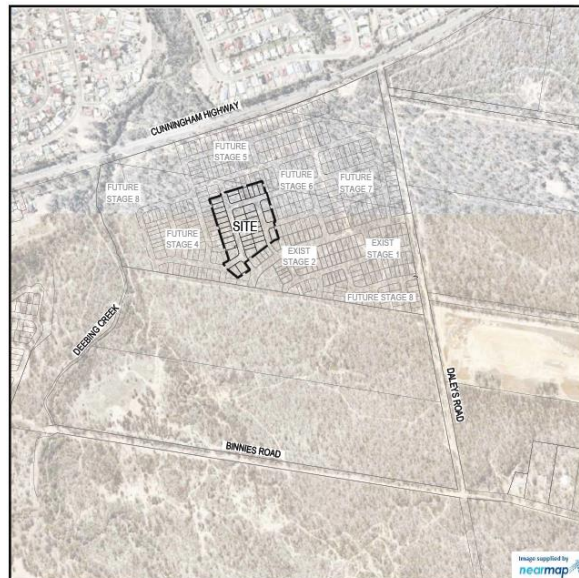
The fill placed on the development between 10/03/22 and 30/06/22 as detailed in this report is considered to be controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

### 1.1 SITE DESCRIPTION

The site is located Daleys Road, Ripley in Queensland. Shown below.



Stage 2



Stage 3

## 2 WORKS AND SPECIFICATIONS

The earthworks generally comprised of Level 1 filling placed on the site. Filling was conducted by using site won materials. The fill materials were placed in layers not exceeding 150mm and moisture conditioned as required to achieve an appropriate placement Moisture Content. Padfoot Compactors were then utilised to compact the fill until the required density specifications were achieved.

Filling was carried out in accordance with AS3798-2007 '*Guidelines on earthworks for commercial and residential developments*' and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% of the maximum dry density as determined by AS1289.5.7.1 (standard compaction).

### 3 PREVIOUS FILLING

The site has been previously filled by others. Details of any previous site filling is detailed in the Construction Sciences report ID, P2068 comp 01 dated 10/02/2022.

### 4 FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected, and proof rolled prior to placement of fill. In general, the proof rolling was carried out with the equipment used to compact the fill and a water truck. Compliance of the fill foundation and approval to commence filling was on the basis of:

- adequate removal of topsoil and organics
- soundness (minimum deflection) under proof rolling
- Suitable Benching/keying into slopes

### 5 COMPLIANCE TESTING

Test locations were randomly selected by the Geotechnical Testing Authority (GTA) Australian Soil and Concrete Testing. Compaction control tests were carried out at regular intervals throughout the placement of fill in accordance with the minimum test frequency recommendations included in the specifications. The table below summarises the test results. The test locations were not professionally surveyed and should be considered approximate.

All field density tests carried out on the structural fill meet the minimum specification requirements of 95% Standard Compaction (AS 1289 5.8.1, 5.7.1 & 2.1.1).

### SUMMARY OF FIELD DENSITY TEST RESULTS

Test No	Test Date	Test Location			Test Level	Density Ratio %
63391	11/04/2022	Bulk Earthworks	E:5635.9	N:13213.6	RL:58.65	96.0
63392	11/04/2022	Bulk Earthworks	E:5645.1	N:13214.2	RL:58.95	100.0
63393	11/04/2022	Bulk Earthworks	E:5615.5	N:13256.8	RL:57.94	98.0
64256	29/04/2022	Bulk Earthworks	E:5394.2	N:13324.5	RL:39.7	101.0
64257	29/04/2022	Bulk Earthworks	E:5442.8	N:13305.9	RL:41.7	98.5
64258	29/04/2022	Bulk Earthworks	E:5454.4	N:13299.9	RL:42.3	98.0
64259	29/04/2022	Bulk Earthworks	E:5467.8	N:13290.8	RL:43.0	101.5
64299	3/05/2022	Bulk Earthworks	E:5414.5	N:13321.5	RL:41.2	101.5
64300	3/05/2022	Bulk Earthworks	E:5409.2	N:13319.6	RL:40.9	101.0
64301	3/05/2022	Bulk Earthworks	E:5426.2	N:13327.6	RL:41.9	101.5
64302	3/05/2022	Bulk Earthworks	E:5432.9	N:13309.6	RL:42.3	97.5
64303	3/05/2022	Bulk Earthworks	E:5445.2	N:13310.1	RL:42.7	95.5
64392	4/05/2022	Bulk Earthworks	E:5493.9	N:13271.6	RL:44.6	97.0
64393	4/05/2022	Bulk Earthworks	E:5437.2	N:13329.3	RL:42.4	99.0
64394	4/05/2022	Bulk Earthworks	E:5451.0	N:13324.1	RL:42.6	95.0



64395	4/05/2022	Bulk Earthworks	E:5429.1	N:13336.2	RL:41.9	95.5
64396	4/05/2022	Bulk Earthworks	E:5418.9	N:13355.1	RL:36.5	97.5
64445	5/05/2022	Bulk Earthworks	E:5409.9	N:13344.8	RL:41.7	99.0
64446	5/05/2022	Bulk Earthworks	E:5464.5	N:13300.2	RL:43.9	98.0
64447	5/05/2022	Bulk Earthworks	E:5446.4	N:13315.3	RL:43.2	100.5
64448	5/05/2022	Bulk Earthworks	E:5432.9	N:13309.6	RL:43.0	99.0
64449	5/05/2022	Bulk Earthworks	E:5419.6	N:13342.6	RL:42.8	98.0
65088	27/05/2022	Bulk Earthworks	E:5410.2	N:13291.2	RL:43.3	97.5
65089	27/05/2022	Bulk Earthworks	E:5438.2	N:13299.6	RL:43.8	100.5
65090	27/05/2022	Bulk Earthworks	E:5416.2	N:13317.2	RL:42.0	99.0
65091	27/05/2022	Bulk Earthworks	E:5459.4	N:13326.1	RL:43.6	97.5
65092	27/05/2022	Bulk Earthworks	E:5487.6	N:13279.1	RL:43.5	100.0
65117	31/05/2022	Bulk Earthworks	E:5418.6	N:13289.2	RL:43.7	98.5
65118	31/05/2022	Bulk Earthworks	E:5440.2	N:13293.6	RL:44.1	98.0
65119	31/05/2022	Bulk Earthworks	E:5418.1	N:13328.4	RL:42.9	96.5
65120	31/05/2022	Bulk Earthworks	E:5462.4	N:13325.1	RL:44.3	98.5
65121	31/05/2022	Bulk Earthworks	E:5492.1	N:13284.4	RL:44.1	99.0
65313	1/06/2022	Bulk Earthworks	E:5494.5	N:13273.3	RL:46.3	98.0
65314	1/06/2022	Bulk Earthworks	E:5480.7	N:13291.3	RL:45.7	97.0
65315	1/06/2022	Bulk Earthworks	E:5458.1	N:13298.1	RL:44.9	99.5
65316	1/06/2022	Bulk Earthworks	E:5436.1	N:13304.4	RL:44.2	98.0
65317	1/06/2022	Bulk Earthworks	E:5422.1	N:13319.2	RL:44.8	97.5
65334	3/06/2022	Bulk Earthworks	E:5506.3	N:13215.9	RL:48.7	98.0
65335	3/06/2022	Bulk Earthworks	E:5501.7	N:13202.3	RL:49.3	96.5
65336	3/06/2022	Bulk Earthworks	E:5521.3	N:13216.7	RL:46.4	97.0
65337	3/06/2022	Bulk Earthworks	E:5513.4	N:13235.5	RL:48.7	97.5
65338	3/06/2022	Bulk Earthworks	E:5510.9	N:13242.6	RL:48.0	96.5
65339	3/06/2022	Bulk Earthworks	E:5500.2	N:13229.6	RL:47.6	97.5
65457	6/06/2022	Bulk Earthworks	E:5510.7	N:13245.1	RL:48.8	97.0
65458	6/06/2022	Bulk Earthworks	E:5518.2	N:13221.0	RL:49.7	95.5
65459	6/06/2022	Bulk Earthworks	E:5500.2	N:13196.4	RL:50.1	98.0
65460	6/06/2022	Bulk Earthworks	E:5492.9	N:13217.7	RL:49.3	95.5
65461	6/06/2022	Bulk Earthworks	E:5506.2	N:13236.2	RL:48.9	95.5
65462	6/06/2022	Bulk Earthworks	E:5521.3	N:13202.2	RL:49.0	97.5
65513	8/06/2022	Bulk Earthworks	E:5434.6	N:13311.7	RL:45.3	102.0
65514	8/06/2022	Bulk Earthworks	E:5443.4	N:13283.5	RL:46.0	97.0
65515	8/06/2022	Bulk Earthworks	E:5452.5	N:13256.8	RL:46.7	96.5
65516	8/06/2022	Bulk Earthworks	E:5460.1	N:13306.9	RL:45.5	97.0
65517	8/06/2022	Bulk Earthworks	E:5468.3	N:13265.6	RL:46.8	96.0
65518	8/06/2022	Bulk Earthworks	E:5457.2	N:13290.6	RL:45.0	96.0
65519	8/06/2022	Bulk Earthworks	E:5459.2	N:13312.9	RL:45.2	99.5
65520	8/06/2022	Bulk Earthworks	E:5461.2	N:13300.4	RL:45.3	99.0

65521	8/06/2022	Bulk Earthworks	E:5450.2	N:13290.4	RL:44.9	100.5
65527	9/06/2022	Bulk Earthworks	E:5481.6	N:13331.2	RL:46.0	96.0
65528	9/06/2022	Bulk Earthworks	E:5488.0	N:13307.5	RL:46.7	97.0
65529	9/06/2022	Bulk Earthworks	E:5491.1	N:13286.2	RL:47.4	96.0
65530	9/06/2022	Bulk Earthworks	E:5503.6	N:13267.9	RL:48.2	98.0
65531	9/06/2022	Bulk Earthworks	E:5512.4	N:13246.3	RL:49.3	98.0
65585	10/06/2022	Bulk Earthworks	E:5440.5	N:13319.8	RL:45.6	98.0
65586	10/06/2022	Bulk Earthworks	E:5450.1	N:13303.9	RL:46.0	96.0
65587	10/06/2022	Bulk Earthworks	E:5459.1	N:13290.6	RL:46.5	98.0
65588	10/06/2022	Bulk Earthworks	E:5467.8	N:13267.1	RL:47.5	97.5
65589	10/06/2022	Bulk Earthworks	E:5472.5	N:13247.7	RL:48.2	99.0
65590	10/06/2022	Bulk Earthworks	E:5475.2	N:13249.2	RL:47.9	97.0
65683	13/06/2022	Bulk Earthworks	E:5472.0	N:13350.3	RL:45.9	97.5
65684	13/06/2022	Bulk Earthworks	E:5478.2	N:13334.0	RL:46.4	101.5
65685	13/06/2022	Bulk Earthworks	E:5490.8	N:13319.4	RL:47.0	98.0
65686	13/06/2022	Bulk Earthworks	E:5491.5	N:13302.9	RL:47.5	98.0
65687	13/06/2022	Bulk Earthworks	E:5493.9	N:13281.7	RL:48.1	101.0
65688	13/06/2022	Bulk Earthworks	E:5498.2	N:13304.6	RL:48.3	98.5
65778	14/06/2022	Bulk Earthworks	E:5391.8	N:13361.0	RL:40.8	101.0
65779	14/06/2022	Bulk Earthworks	E:5386.2	N:13351.6	RL:40.3	98.5
65780	14/06/2022	Bulk Earthworks	E:5368.5	N:13348.4	RL:39.6	101.0
65781	14/06/2022	Bulk Earthworks	E:5373.8	N:13333.0	RL:39.8	99.0
65782	14/06/2022	Bulk Earthworks	E:5388.9	N:13339.0	RL:41.0	102.0
65783	14/06/2022	Bulk Earthworks	E:5399.2	N:13379.0	RL:39.9	98.5
66195	15/06/2022	Bulk Earthworks	E:5396.6	N:13350.6	RL:41.9	95.0
66196	15/06/2022	Bulk Earthworks	E:5374.5	N:13337.4	RL:41.2	96.0
66197	15/06/2022	Bulk Earthworks	E:5366.9	N:13323.4	RL:41.0	95.5
66198	15/06/2022	Bulk Earthworks	E:5368.7	N:13303.8	RL:41.6	97.5
66199	15/06/2022	Bulk Earthworks	E:5357.0	N:13312.9	RL:41.0	98.0
66200	15/06/2022	Bulk Earthworks	E:5349.2	N:13302.6	RL:40.7	97.5
66206	16/06/2022	Bulk Earthworks	E:5373.7	N:13306.6	RL:43.9	100.0
66207	16/06/2022	Bulk Earthworks	E:5371.8	N:13287.8	RL:43.2	95.0
66208	16/06/2022	Bulk Earthworks	E:5375.5	N:13275.6	RL:43.5	99.0
66209	16/06/2022	Bulk Earthworks	E:5370.2	N:13322.6	RL:42.0	102.0
66210	16/06/2022	Bulk Earthworks	E:5364.4	N:13314.0	RL:41.9	98.0
66211	16/06/2022	Bulk Earthworks	E:5360.2	N:13310.0	RL:41.2	100.5
66549	17/06/2022	Bulk Earthworks	E:5359.7	N:13339.7	RL:41.0	97.5
66550	17/06/2022	Bulk Earthworks	E:5353.1	N:13225.0	RL:42.1	100.5
66551	17/06/2022	Bulk Earthworks	E:5357.0	N:13294.0	RL:43.1	100.5
66552	17/06/2022	Bulk Earthworks	E:5368.6	N:13276.5	RL:43.8	101.5
66553	17/06/2022	Bulk Earthworks	E:5373.2	N:13263.6	RL:44.4	100.0
66554	17/06/2022	Bulk Earthworks	E:5382.1	N:13260.6	RL: 43.8	102.0

66557	20/06/2022	Bulk Earthworks	E:5369.7	N:13240.7	RL:46.0	98.5
66558	20/06/2022	Bulk Earthworks	E:5372.9	N:13275.5	RL:44.2	98.0
66559	20/06/2022	Bulk Earthworks	E:5367.8	N:13287.6	RL:43.6	100.0
66560	20/06/2022	Bulk Earthworks	E:5366.7	N:13306.4	RL:43.3	98.5
66850	27/06/2022	Bulk Earthworks	E:5442.6	N:13369.8	RL:45.1	97.0
66851	27/06/2022	Bulk Earthworks	E:5428.0	N:13367.0	RL:44.5	96.0
66852	27/06/2022	Bulk Earthworks	E:5415.4	N:13365.4	RL:43.7	96.5
66853	27/06/2022	Bulk Earthworks	E:5449.6	N:13360.2	RL:44.2	96.0
66854	27/06/2022	Bulk Earthworks	E:5426.0	N:13365.2	RL:43.9	98.0
66855	27/06/2022	Bulk Earthworks	E:5412.2	N:13364.9	RL:43.0	98.0
67217	29/06/2022	Bulk Earthworks	E:5480.1	N:13374.6	RL:48.4	100.5
67218	29/06/2022	Bulk Earthworks	E:5487.2	N:13352.7	RL:48.2	101.0
67219	29/06/2022	Bulk Earthworks	E:5492.0	N:13328.1	RL:48.9	99.5
67220	29/06/2022	Bulk Earthworks	E:5498.7	N:13304.1	RL:49.6	99.0
67221	29/06/2022	Bulk Earthworks	E:5488.2	N:13354.6	RL:47.6	101.0
67222	29/06/2022	Bulk Earthworks	5m off Northern Boundary	8m off Eastern Boundary	0.5m BFL	99.5
67223	29/06/2022	Bulk Earthworks	2m off Northern Boundary	12m off Eastern Boundary	FL	100.5
67224	29/06/2022	Bulk Earthworks	10m off Northern Boundary	7m off Eastern Boundary	0.3m BFL	97.0
67225	29/06/2022	Bulk Earthworks	11m off Northern Boundary	14m off Eastern Boundary	FL	98.0
67226	29/06/2022	Bulk Earthworks	12m off Northern Boundary	12m off Eastern Boundary	FL	100.0
67234	30/06/2022	Bulk Earthworks	19m off Northern Boundary	11m off Eastern Boundary	0.6m BFL	101.0
67235	30/06/2022	Bulk Earthworks	12m off Northern Boundary	6m off Eastern Boundary	2m BFL	97.5
67236	30/06/2022	Bulk Earthworks	10m off Northern Boundary	4m off Eastern Boundary	1.4m BFL	100.5
67237	30/06/2022	Bulk Earthworks	8m off Northern Boundary	5m off Eastern Boundary	2.5m BFL	97.5
67238	30/06/2022	Bulk Earthworks	16m off Northern Boundary	9m off Eastern Boundary	FL	99.0
67239	30/06/2022	Bulk Earthworks	20m off Northern Boundary	10m off Eastern Boundary	0.5m BFL	97.0
67240	30/06/2022	Bulk Earthworks	3m off Northern Boundary	21m off Eastern Boundary	FL	98.5
67241	30/06/2022	Bulk Earthworks	2m off Northern Boundary	19m off Eastern Boundary	0.5m BFL	99.0
67242	30/06/2022	Bulk Earthworks	5m off Northern Boundary	17m off Eastern Boundary	0.4m BFL	100.0
67243	30/06/2022	Bulk Earthworks	3m off Northern Boundary	14m off Eastern Boundary	FL	98.5

67244	30/06/2022	Bulk Earthworks	13m off Northern Boundary	11m off Eastern Boundary	FL	100.0
67245	30/06/2022	Bulk Earthworks	3m off Northern Boundary	12m off Eastern Boundary	0.4m BFL	100.5
67246	30/06/2022	Bulk Earthworks	6m off Northern Boundary	12m off Eastern Boundary	FL	101.0
67247	30/06/2022	Bulk Earthworks	2m off Northern Boundary	4m off Eastern Boundary	FL	100.5

**No. of Tests: 133**

**Mean: 98.4 %**

## 6 CONCLUSION

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction, as far as we have been able to determine, the structural fill placed between the 10/03/22 and 30/06/22 is considered to have been carried out in general accordance with AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

## 7 LIMITATIONS

Unless otherwise stated in this report, this report does not include: Backfill behind retaining structures, Backfill to service trenches, Road Pavements, Any Topsoil placed on the site, Slope Stability or Site Drainage.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



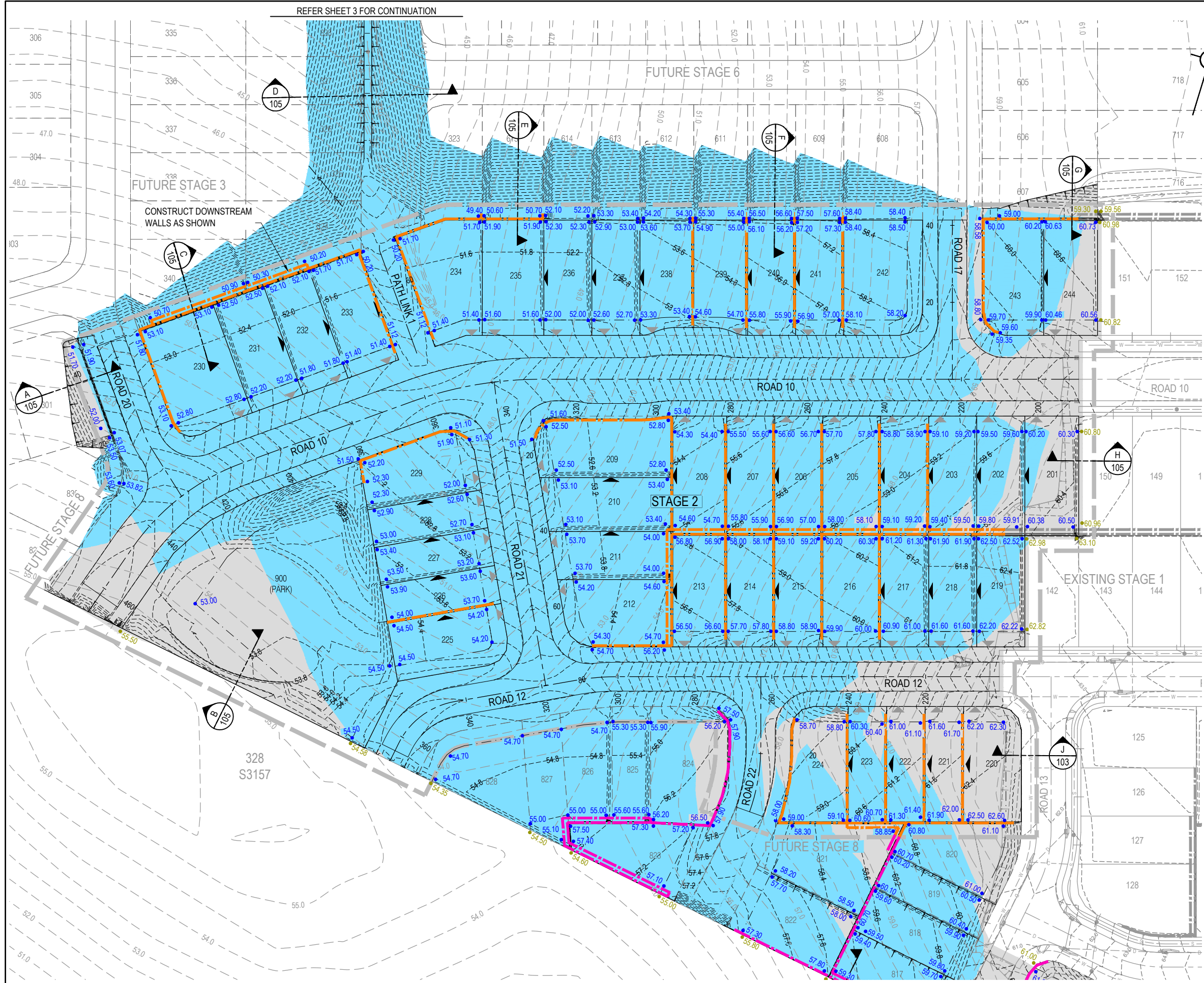
Jason Mckenna  
Laboratory Manager  
ASCT Brisbane South



# Appendix A

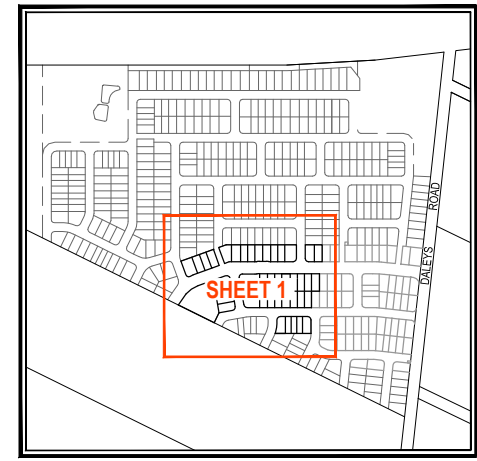
## Cut Fill Drawings

REFER SHEET 3 FOR CONTINUATION



**LEGEND**

	PROPOSED AREA OF WORKS
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED EARTHWORKS PAD SETBACK LINE
	PROPOSED CONCRETE SLEEPER RETAINING WALL (SINGLE TIER)
	PROPOSED CONCRETE SLEEPER RETAINING WALL (DOUBLE TIER)
	FUTURE CONCRETE RETAINING WALL
	EXISTING CONCRETE RETAINING WALL
	PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
	EXISTING SURFACE LEVEL (ESL)
	PROPOSED AREA OF CUT
	PROPOSED AREA OF FILL
	INDICATIVE DRIVEWAY LOCATIONS
	ZERO LOT BOUNDARY
	EXISTING STORMWATER DRAINAGE PIPE
	EXISTING SEWER MAIN
	EXISTING WATER MAIN
	EXISTING DRAIN



**KEYPLAN**  
NOT TO SCALE

**WARNING! - EXISTING SERVICES**  
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

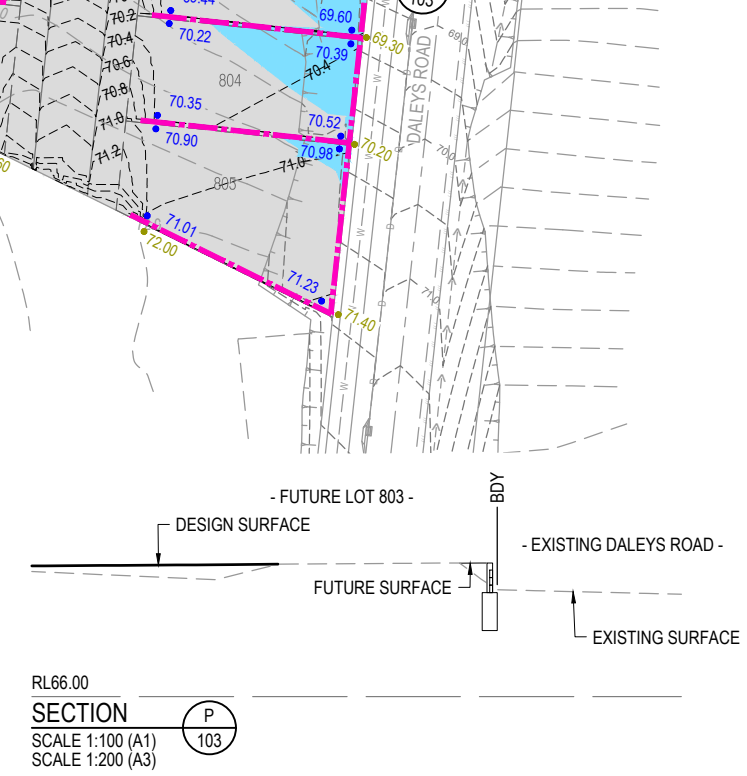
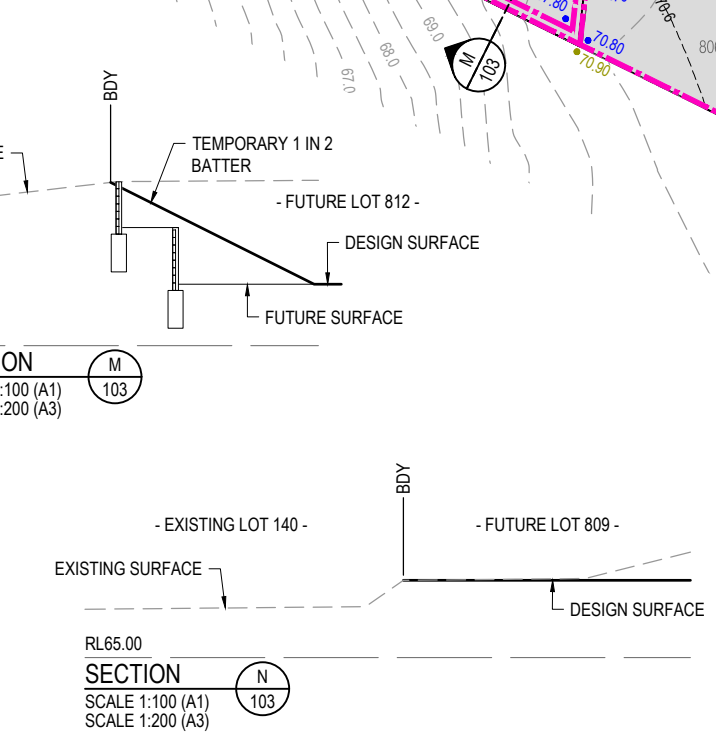
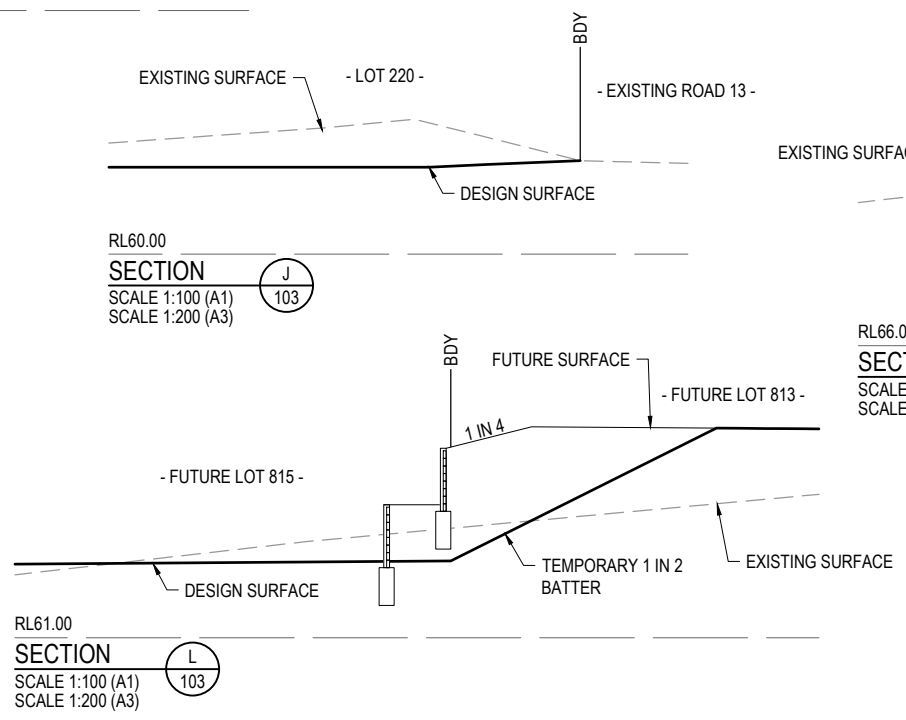
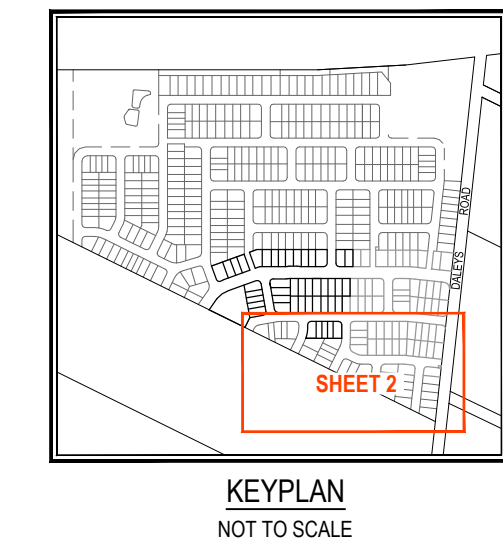
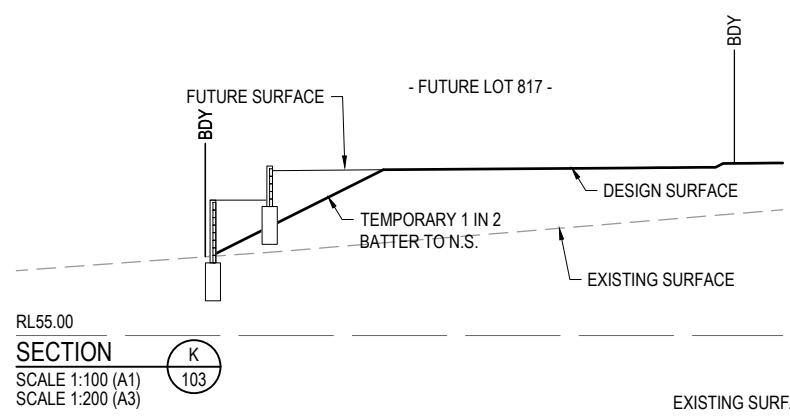
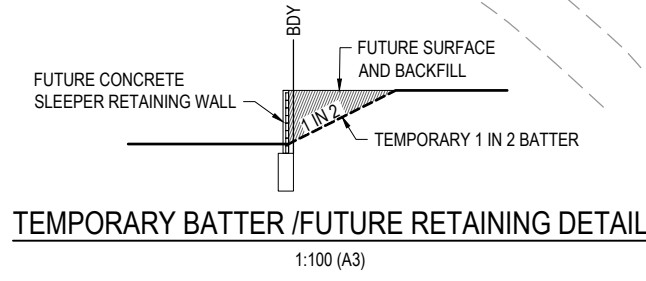
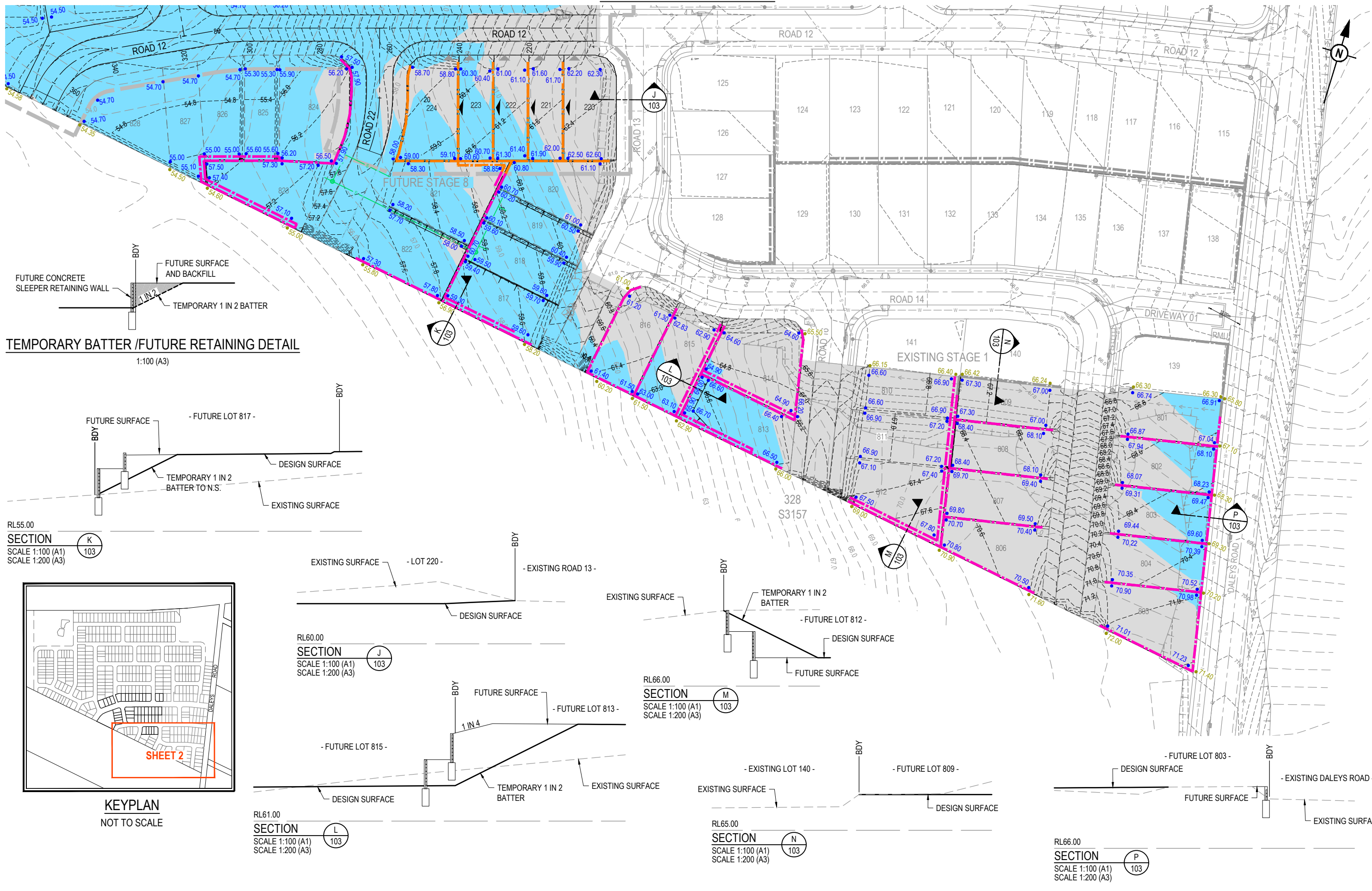
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

REFER SHEET 2 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	24.02.22	DC	DC	ISSUED FOR CONSTRUCTION	DC	ISSUED FOR CONSTRUCTION	1:500 1:1000	ORCHARD (DALEYS) DEVELOPMENTS PTY LTD	AURORA - STAGE 2	BULK EARTHWORKS LAYOUT PLAN SHEET 1
					DC	DESIGN APPROVED TROY SCHULTZ RPEQ 20631		ASSOCIATED CONSULTANT LANDPARTNERS	DALEYS ROAD RIPLEY QLD 4306	PROJECT No. 21-0133 DRAWING No. 102 REVISION A



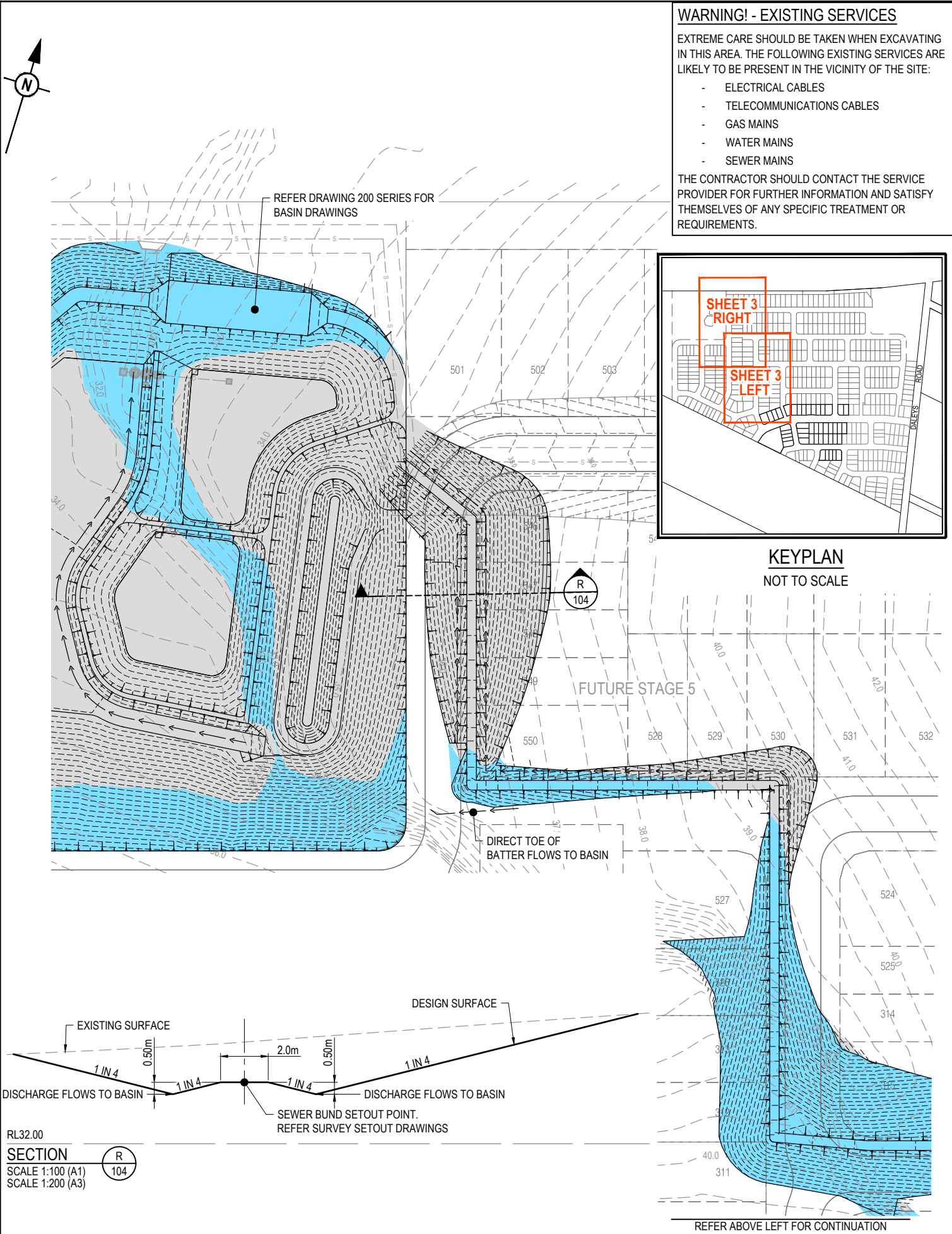
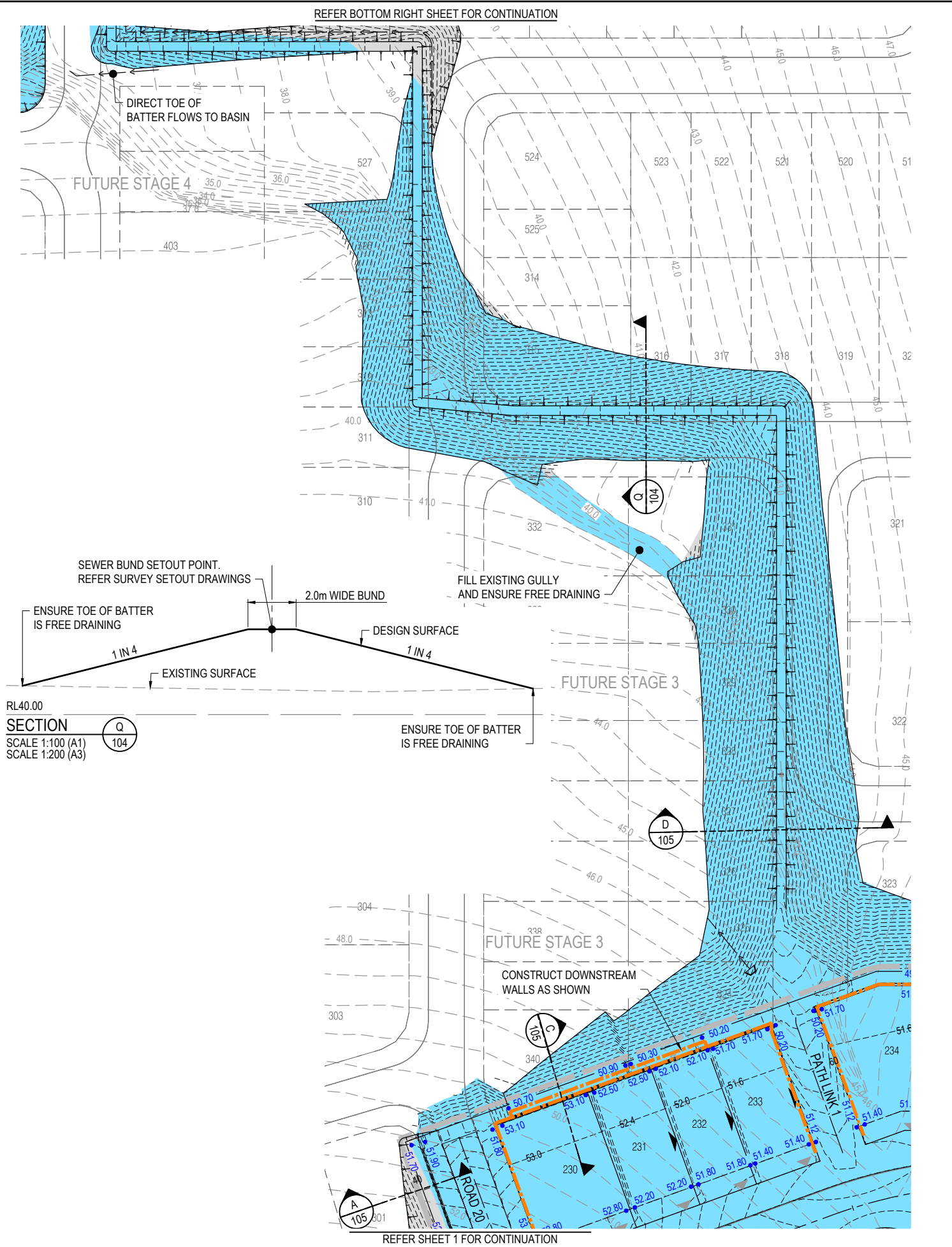




REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	24.02.22	DC	DC	ISSUED FOR CONSTRUCTION		DC	ISSUED FOR CONSTRUCTION	1:500 1:1000	ORCHARD (DALEYS) DEVELOPMENTS PTY LTD	AURORA - STAGE 2	BULK EARTHWORKS LAYOUT PLAN AND SECTIONS SHEET 2
						DC	DESIGN APPROVED TROY SCHULTZ RPEQ 20631		ASSOCIATED CONSULTANT LANDPARTNERS	DALEYS ROAD RIPLEY QLD 4306	PROJECT No. 21-0133 DRAWING No. 103 REVISION A







**WARNING! - EXISTING SERVICES**

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

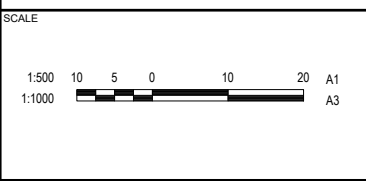
REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	24.02.22	DC	DC	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
DC	ISSUED FOR CONSTRUCTION
DC	DESIGN APPROVED TROY SCHULTZ RPEQ 20631

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CLIENT

**ORCHARD (DALEYS) DEVELOPMENTS PTY LTD**

ASSOCIATED CONSULTANT

LANDPARTNERS

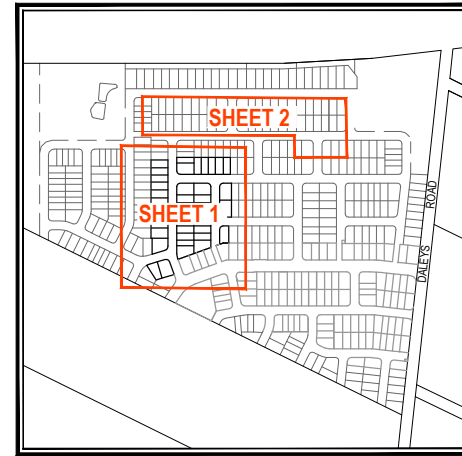
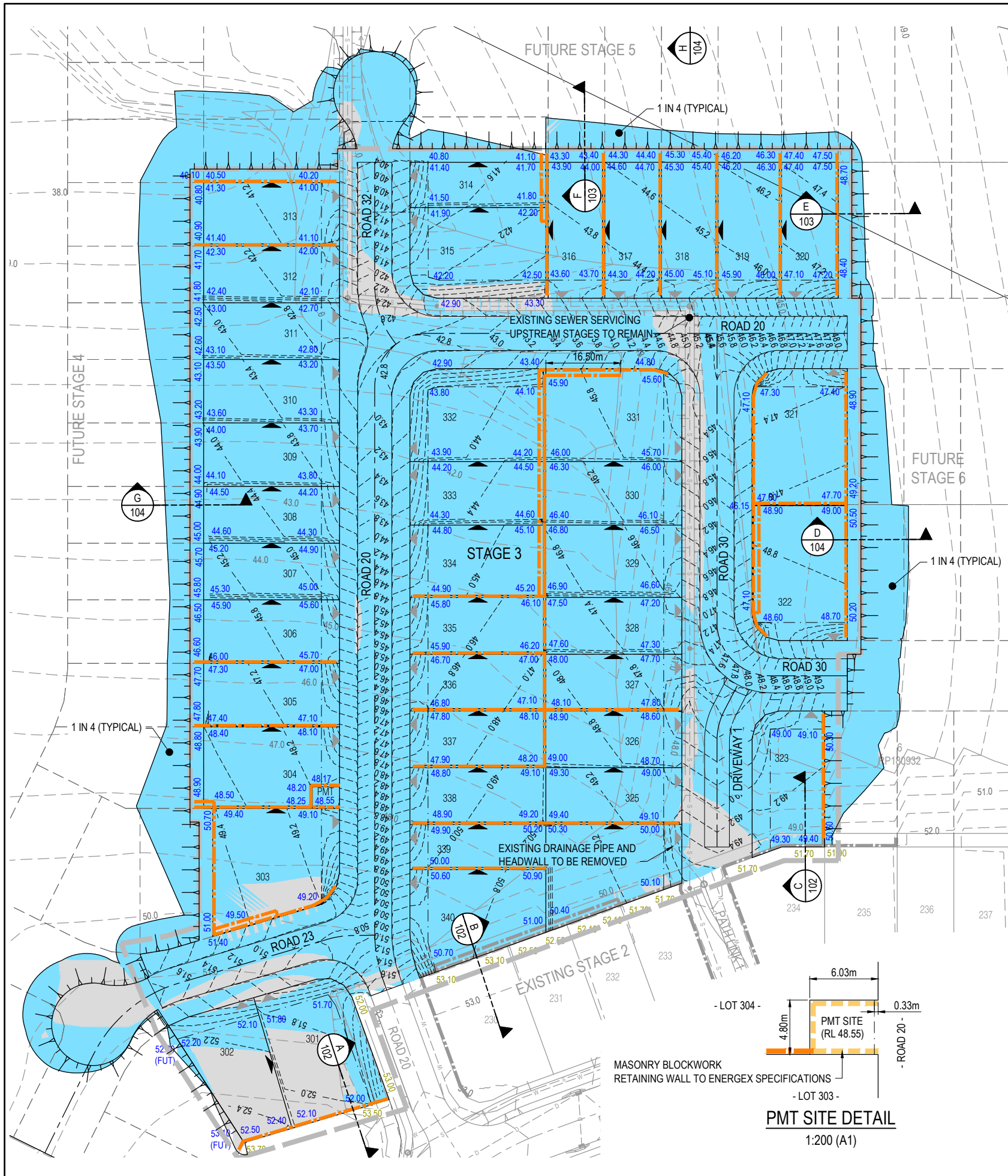
PROJECT NAME

**AURORA - STAGE 2**

DALEYS ROAD  
RIPLEY QLD 4306

DRAWING TITLE		
<b>BULK EARTHWORKS LAYOUT PLAN AND SECTIONS SHEET 3</b>		
PROJECT No.	DRAWING No.	REVISION
21-0133	104	A





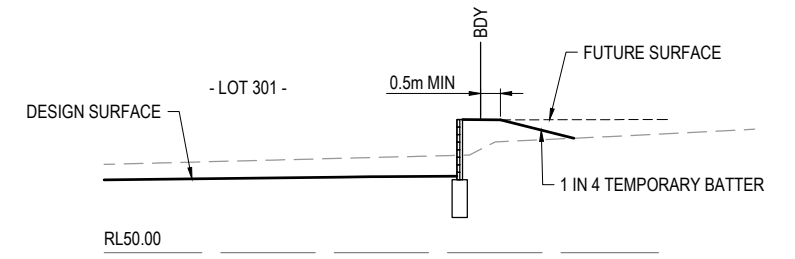
KEYPLAN  
NOT TO SCALE

**WARNING! - EXISTING SERVICES**  
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

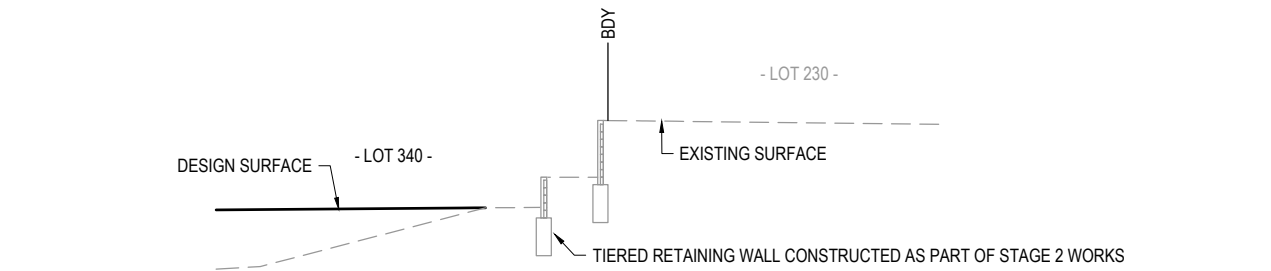
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

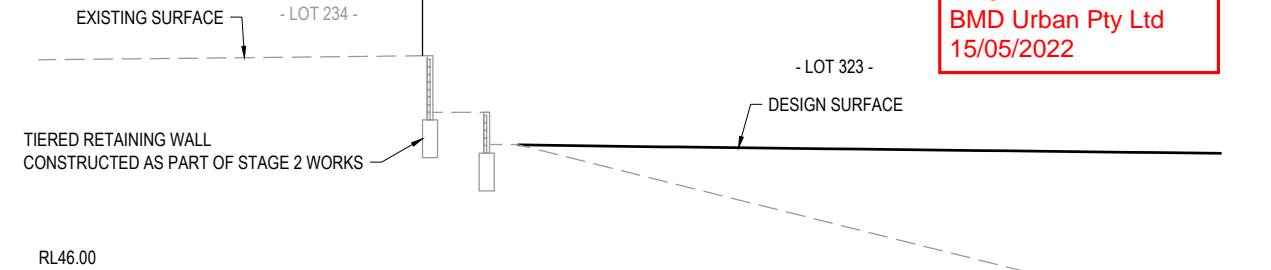
LEGEND	
	PROPOSED AREA OF WORKS
	PROPOSED SURFACE CONTOUR (0.20m INTERVAL)
	EXISTING SURFACE CONTOUR (1.0m INTERVAL)
	PROPOSED EARTHWORKS PAD SETBACK LINE
	PROPOSED CONCRETE SLEEPER RETAINING WALL (SINGLE TIER)
	PROPOSED CONCRETE SLEEPER RETAINING WALL (DOUBLE TIER)
	EXISTING CONCRETE RETAINING WALL
	PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
	EXISTING SURFACE LEVEL (ESL)
	PROPOSED AREA OF CUT
	PROPOSED AREA OF FILL
	INDICATIVE DRIVEWAY LOCATIONS
	ZERO LOT BOUNDARY
	EXISTING STORMWATER DRAINAGE PIPE
	EXISTING SEWER MAIN
	EXISTING WATER MAIN
	EXISTING DRAIN



SECTION A  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



SECTION B  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



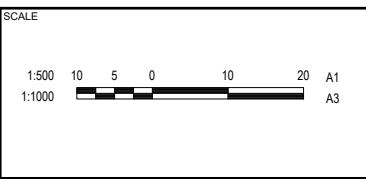
SECTION C  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)

RECEIVED  
BMD Urban Pty Ltd  
15/05/2022

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	03.05.22	RD	RD	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
RD	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED TROY SCHULTZ RPEQ 20631
RD	

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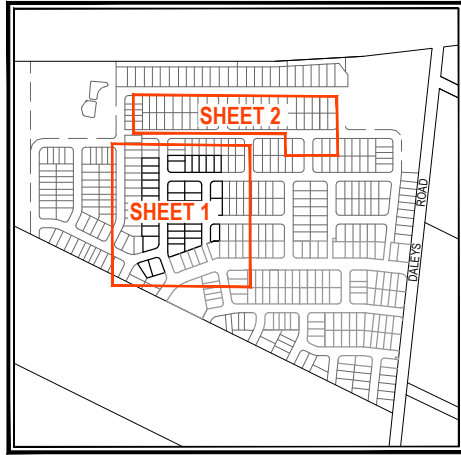


CLIENT  
**ORCHARD (DALEYS) DEVELOPMENTS PTY LTD**  
ASSOCIATED CONSULTANT  
LANDPARTNERS

PROJECT NAME  
**AURORA - STAGE 3**  
DALEYS ROAD  
RIPLEY QLD 4306

DRAWING TITLE		
<b>BULK EARTHWORKS LAYOUT PLAN SHEET 1</b>		
PROJECT No.	DRAWING No.	REVISION
21-0256	102	A





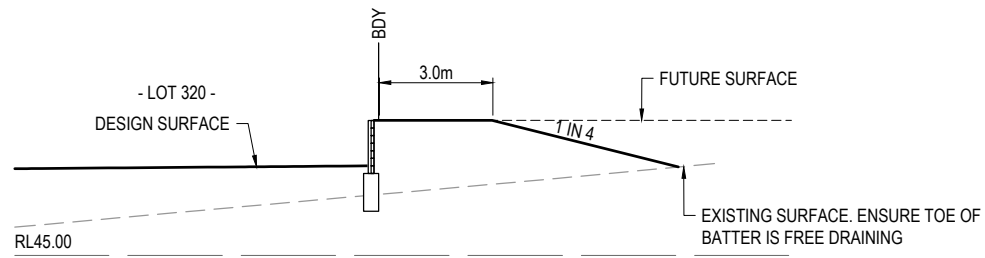
**KEYPLAN**  
NOT TO SCALE

**WARNING! - EXISTING SERVICES**  
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

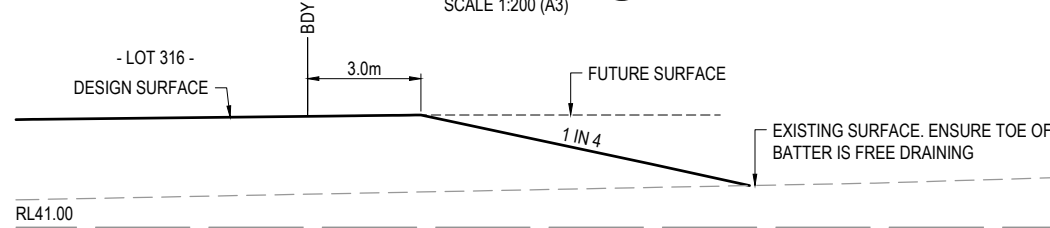
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

**RECEIVED**  
**BMD Urban Pty Ltd**  
**15/05/2022**



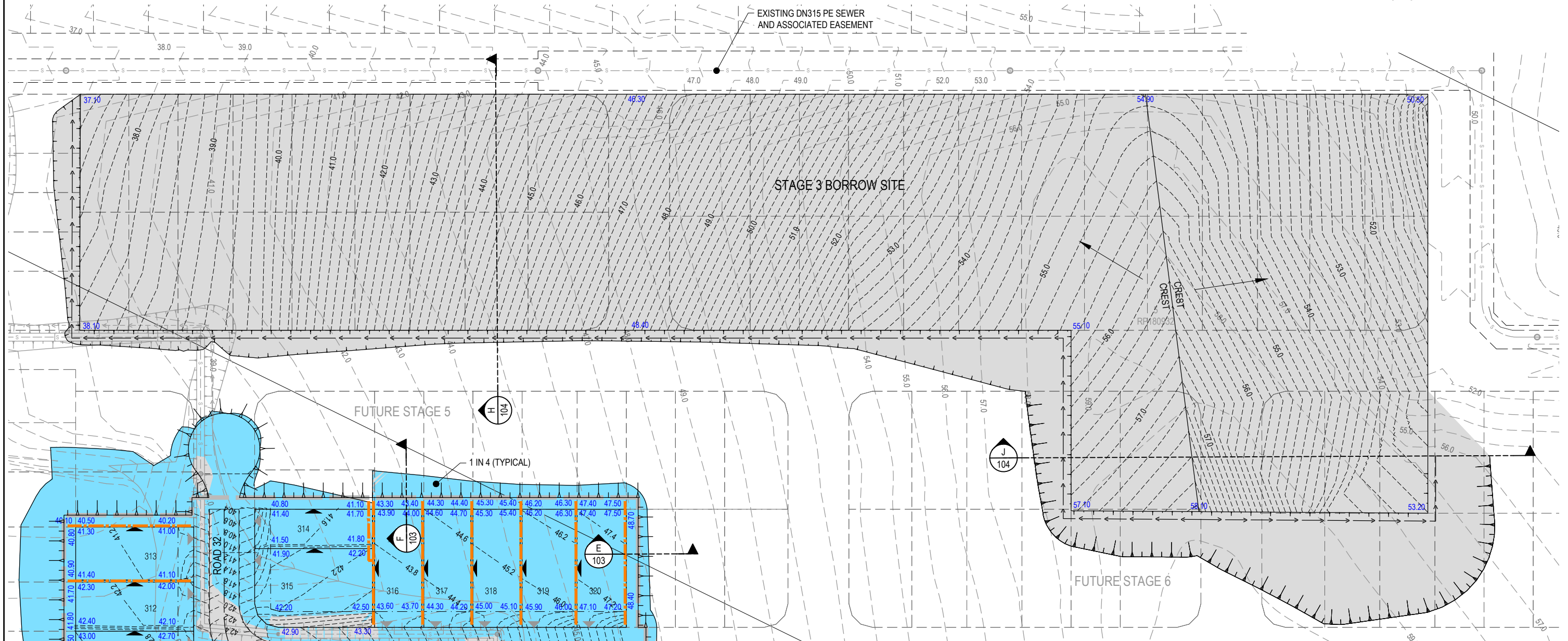
**SECTION E**  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



**SECTION F**  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



- LEGEND**
- PROPOSED AREA OF WORKS
  - PROPOSED SURFACE CONTOUR (0.20m INTERVAL)
  - EXISTING SURFACE CONTOUR (1.0m INTERVAL)
  - PROPOSED EARTHWORKS PAD SETBACK LINE
  - PROPOSED CONCRETE SLEEPER RETAINING WALL (SINGLE TIER)
  - PROPOSED CONCRETE SLEEPER RETAINING WALL (DOUBLE TIER)
  - EXISTING CONCRETE RETAINING WALL
  - PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
  - EXISTING SURFACE LEVEL (ESL)
  - PROPOSED AREA OF CUT
  - PROPOSED AREA OF FILL
  - INDICATIVE DRIVEWAY LOCATIONS
  - ZERO LOT BOUNDARY
  - EXISTING STORMWATER DRAINAGE PIPE
  - EXISTING SEWER MAIN
  - EXISTING WATER MAIN
  - EXISTING DRAIN

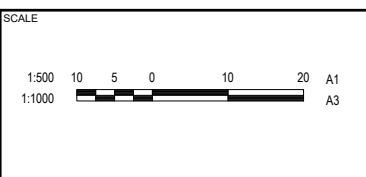


REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	03.05.22	RD	RD	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
RD	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
RD	TROY SCHULTZ

RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT  
**ORCHARD (DALEYS) DEVELOPMENTS PTY LTD**

ASSOCIATED CONSULTANT  
LANDPARTNERS

PROJECT NAME  
**AURORA - STAGE 3**

DALEYS ROAD  
RIPLEY QLD 4306

DRAWING TITLE		
<b>BULK EARTHWORKS LAYOUT PLAN SHEET 2</b>		
PROJECT No.	DRAWING No.	REVISION
<b>21-0256</b>	<b>103</b>	<b>A</b>

# **Appendix B**

## **Test Reports**



**ASCT Brisbane South**  
 Postal: PO Box 1232 Park Ridge QLD 4125  
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118  
 Telephone: 0437 776 582  
 E-Mail: brisbane.south@asct.com.au  
 Mobile: 0437 776 582  
 A.B.N. 28 608 830 306

**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 1

Client:	BMD Urban Pty Ltd	Report No:	1
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	27/04/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Allotment Fill - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	63391	63392	63393	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	11/04/2022	11/04/2022	11/04/2022	-	-
Time - Field Tested:	0725	0730	0735	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5635.9	E:5645.1	E:5615.5	-	-
Position/Offset/Northing:	(m) N:13213.6	N:13214.2	N:13256.8	-	-
Level/Layer/R.L.	RL:58.65	RL:58.95	RL:57.94	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> ) 2.06	2.17	2.12	-	-
Field Dry Density:	(t/m <sup>3</sup> ) 1.87	1.97	1.92	-	-
Retained Oversize (Wet basis):	(%) 2% on 19.0mm	1% on 19.0mm	2% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%) 10.5	10.0	10.5	-	-
Adjusted Lab OMC:	(%) 12.5	11.8	11.8	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> ) 2.15	2.17	2.16	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> ) 2.15	2.17	2.17	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%) 2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio	(%) 85.0	86.0	87.0	-	-
Density Ratio	(%) 96.0	100.0	98.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.4	3	98.00	2.15	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 21/04/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



**ASCT Brisbane South**  
 Postal: PO Box 1232 Park Ridge QLD 4125  
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118  
 Telephone: 0437 776 582  
 E-Mail: brisbane.south@asct.com.au  
 Mobile: 0437 776 582  
 A.B.N. 28 608 830 306

**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 1

Client:	BMD Urban Pty Ltd	Report No:	<b>13</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	10/05/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	64392	64393	64394	64395	64396
Field Test Number:	1	2	3	4	5
Date - Field Tested:	4/05/2022	4/05/2022	4/05/2022	4/05/2022	4/05/2022
Time - Field Tested:	0945	0950	0955	1000	1010
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5493.9	E:5437.2	E:5451.0	E:5429.1	E:5418.9
Position/Offset/Northing:	(m) N:13271.6	N:13329.3	N:13324.1	N:13336.2	N:13355.1
Level/Layer/R.L.	RL:44.6	RL:42.4	RL:42.6	RL:41.9	RL:36.5
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.05	2.08	2.03	2.03	2.03
Field Dry Density:	(t/m <sup>3</sup> )	1.86	1.88	1.79	1.76	1.82
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	4% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.5	10.5	13.5	15.0	11.5
Adjusted Lab OMC:	(%)	12.4	12.4	13.0	14.4	13.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.10	2.09	2.14	2.11	2.08
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.11	2.09	2.14	2.12	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>2.0% Drier than OMC</b>	<b>2.0% Drier than OMC</b>	<b>0.5% Wetter than OMC</b>	<b>0.5% Wetter than OMC</b>	<b>2.0% Drier than OMC</b>
Moisture Ratio	(%)	<b>83.0</b>	<b>84.0</b>	<b>104.5</b>	<b>104.0</b>	<b>86.0</b>
Density Ratio	(%)	<b>97.0</b>	<b>99.0</b>	<b>95.0</b>	<b>95.5</b>	<b>97.5</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>95.9</b>	5	96.84	1.65	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 05/05/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit  
Approved Signatory



**ASCT Brisbane South**  
 Postal: PO Box 1232 Park Ridge QLD 4125  
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 E-Mail: brisbane.south@asct.com.au  
 Mobile: 0437 776 582  
 A.B.N. 28 608 830 306

<b>Compaction Control Test Report (Nuclear Gauge &amp; Hilf)</b>		Page:	1 of 1
Client:	BMD Urban Pty Ltd	Report No:	14
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	11/05/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location						
Sample Number:		64256	64257	64258	64259	-
Field Test Number:		1	2	3	4	-
Date - Field Tested:		29/04/2022	29/04/2022	29/04/2022	29/04/2022	-
Time - Field Tested:		1005	1010	1015	1020	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	
Location/Chainage/Easting:	(m)	E:5394.2	E:5442.8	E:5454.4	E:5467.8	-
Position/Offset/Northing:	(m)	N:13324.5	N:13305.9	N:13299.9	N:13290.8	-
Level/Layer/R.L.		RL:39.7	RL:41.7	RL:42.3	RL:43.0	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	-

Field & Laboratory Results						
Field Wet Density:	(t/m <sup>3</sup> )	2.18	2.11	2.08	2.13	-
Field Dry Density:	(t/m <sup>3</sup> )	1.89	1.81	1.76	1.79	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	2% on 19.0mm	0% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	15.0	16.0	18.0	19.0	-
Adjusted Lab OMC:	(%)	15.0	16.7	17.6	19.8	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.16	2.13	2.12	2.09	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.16	2.13	2.12	2.09	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture						
Moisture Variation	(%)	At OMC	0.5% Drier than OMC	0.5% Wetter than OMC	1.0% Drier than OMC	-
Moisture Ratio	(%)	100.0	97.0	102.0	95.0	-
Density Ratio	(%)	101.0	98.5	98.0	101.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.7	4	99.78	1.76	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**  
 AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

**Remarks Regarding the Lot.**  
 Laboratory testing 05/05/2022 to 10/05/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory





**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125  
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118  
 Telephone: 0437 776 582  
 E-Mail: brisbane.south@asct.com.au  
 Mobile: 0437 776 582  
 A.B.N. 28 608 830 306

<b>Compaction Control Test Report (Nuclear Gauge &amp; Hilf)</b>		Page:	1 of 1
Client:	BMD Urban Pty Ltd	Report No:	15
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	12/05/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location						
Sample Number:		64299	64300	64301	64302	64303
Field Test Number:		1	2	3	4	5
Date - Field Tested:		3/05/2022	3/05/2022	3/05/2022	3/05/2022	3/05/2022
Time - Field Tested:		0935	0940	0945	0950	0955
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:5414.5	E:5409.2	E:5426.2	E:5432.9	E:5445.2
Position/Offset/Northing:	(m)	N:13321.5	N:13319.6	N:13327.6	N:13309.6	N:13310.1
Level/Layer/R.L.		RL:41.2	RL:40.9	RL:41.9	RL:42.3	RL:42.7
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results						
Field Wet Density:	(t/m <sup>3</sup> )	2.07	2.07	2.10	2.06	2.01
Field Dry Density:	(t/m <sup>3</sup> )	1.88	1.86	1.86	1.84	1.80
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	11.5	13.0	12.5	11.5
Adjusted Lab OMC:	(%)	12.3	13.4	13.4	12.0	11.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.04	2.05	2.07	2.12	2.11
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.04	2.05	2.07	2.12	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture						
Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	0.5% Drier than OMC	0.5% Wetter than OMC	0.5% Drier than OMC
Moisture Ratio	(%)	82.0	84.0	96.0	104.0	97.0
Density Ratio	(%)	101.5	101.0	101.5	97.5	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	5	99.36	2.73	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**  
 AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

**Remarks Regarding the Lot.**  
 Laboratory testing 11/05/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



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<b>Compaction Control Test Report (Nuclear Gauge &amp; Hilf)</b>		Page:	1 of 1
Client:	BMD Urban Pty Ltd	Report No:	17
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	12/05/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location						
Sample Number:		64445	64446	64447	64448	64449
Field Test Number:		1	2	3	4	5
Date - Field Tested:		5/05/2022	5/05/2022	5/05/2022	5/05/2022	5/05/2022
Time - Field Tested:		1125	1130	1135	1140	1145
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:5409.9	E:5464.5	E:5446.4	E:5432.9	E:5419.6
Position/Offset/Northing:	(m)	N:13344.8	N:13300.2	N:13315.3	N:13309.6	N:13342.6
Level/Layer/R.L.		RL:41.7	RL:43.9	RL:43.2	RL:43.0	RL:42.8
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results						
Field Wet Density:	(t/m <sup>3</sup> )	2.08	2.07	2.12	2.10	2.07
Field Dry Density:	(t/m <sup>3</sup> )	1.85	1.82	1.91	1.89	1.86
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	12.5	14.0	11.0	11.5	11.0
Adjusted Lab OMC:	(%)	14.2	15.7	13.2	13.4	13.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.09	2.11	2.11	2.12	2.10
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.10	2.11	2.11	2.12	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture						
Moisture Variation	(%)	1.5% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	87.5	87.5	83.0	85.0	83.0
Density Ratio	(%)	99.0	98.0	100.5	99.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.3	5	98.92	1.01	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**  
 AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

**Remarks Regarding the Lot.**  
 Laboratory testing 11/05/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 1

Client:	BMD Urban Pty Ltd	Report No:	22
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	3/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65088	65089	65090	65091	65092
Field Test Number:	1	2	3	4	5
Date - Field Tested:	27/05/2022	27/05/2022	27/05/2022	27/05/2022	27/05/2022
Time - Field Tested:	0910	0920	0930	0940	0950
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5410.2	E:5438.2	E:5416.2	E:5459.4	E:5487.6
Position/Offset/Northing:	(m) N:13291.2	N:13299.6	N:13317.2	N:13326.1	N:13279.1
Level/Layer/R.L.	RL:43.3	RL:43.8	RL:42.0	RL:43.6	RL:43.5
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.08	2.16	2.14	2.09	2.17
Field Dry Density:	(t/m <sup>3</sup> )	1.91	1.98	1.97	1.90	1.98
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	1% on 19.0mm	1% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	9.5	8.5	10.0	9.5
Adjusted Lab OMC:	(%)	11.2	11.0	10.7	11.3	10.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.14	2.15	2.16	2.14	2.16
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.14	2.16	2.16	2.15	2.17
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	81.5	85.0	80.5	86.5	85.0
Density Ratio	(%)	97.5	100.5	99.0	97.5	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.0	5	98.82	1.41	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 01/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 1

Client:	BMD Urban Pty Ltd	Report No:	25
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	9/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65117	65118	65119	65120	65121
Field Test Number:	1	2	3	4	5
Date - Field Tested:	31/05/2022	31/05/2022	31/05/2022	31/05/2022	31/05/2022
Time - Field Tested:	1005	1015	1020	1030	1035
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5418.6	E:5440.2	E:5418.1	E:5462.4	E:5492.1
Position/Offset/Northing:	(m) N:13289.2	N:13293.6	N:13328.4	N:13325.1	N:13284.4
Level/Layer/R.L.	RL:43.7	RL:44.1	RL:42.9	RL:44.3	RL:44.1
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.10	2.07	2.06	2.12	2.10
Field Dry Density:	(t/m <sup>3</sup> )	1.92	1.83	1.89	1.91	1.86
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	1% on 19.0mm	3% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	13.5	9.0	11.5	12.5
Adjusted Lab OMC:	(%)	11.3	14.9	11.2	12.9	14.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.13	2.11	2.13	2.15	2.12
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.14	2.12	2.13	2.16	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	81.5	90.0	81.5	88.0	87.0
Density Ratio	(%)	98.5	98.0	96.5	98.5	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.5	5	98.02	0.86	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 06/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit  
Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 1

Client:	BMD Urban Pty Ltd	Report No:	26
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	9/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65313	65314	65315	65316	65317
Field Test Number:	1	2	3	4	5
Date - Field Tested:	1/06/2022	1/06/2022	1/06/2022	1/06/2022	1/06/2022
Time - Field Tested:	1010	1015	1020	1025	1035
Material Source / Type:	On site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5494.5	E:5480.7	E:5458.1	E:5436.1	E:5422.1
Position/Offset/Northing:	(m) N:13273.3	N:13291.3	N:13298.1	N:13304.4	N:13319.2
Level/Layer/R.L.	RL:46.3	RL:45.7	RL:44.9	RL:44.2	RL:44.8
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.06	2.10	2.16	2.10	2.07
Field Dry Density:	(t/m <sup>3</sup> )	1.85	1.92	1.96	1.90	1.87
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	9.5	10.0	10.5	11.0
Adjusted Lab OMC:	(%)	12.8	10.4	11.9	12.1	12.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.09	2.16	2.17	2.14	2.13
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.09	2.16	2.17	2.14	2.13
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	1.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	88.5	92.5	86.0	87.5	85.5
Density Ratio	(%)	98.0	97.0	99.5	98.0	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.5	5	97.98	0.89	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 08/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

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 Approved Signatory





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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	29
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	13/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65334	65335	65336	65337	65338
Field Test Number:	1	2	3	4	5
Date - Field Tested:	3/06/2022	3/06/2022	3/06/2022	3/06/2022	3/06/2022
Time - Field Tested:	1055	1100	1110	1115	1120
Material Source / Type:	On site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5506.3	E:5501.7	E:5521.3	E:5513.4	E:5510.9
Position/Offset/Northing:	(m) N:13215.9	N:13202.3	N:13216.7	N:13235.5	N:13242.6
Level/Layer/R.L.	RL:48.7	RL:49.3	RL:46.4	RL:48.7	RL:48.0
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.11	2.10	2.08	2.12	2.08
Field Dry Density:	(t/m <sup>3</sup> )	1.87	1.84	1.86	1.86	1.83
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	3% on 19.0mm	3% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	13.0	14.0	12.0	14.0	13.5
Adjusted Lab OMC:	(%)	12.3	14.0	13.2	14.0	13.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.16	2.18	2.14	2.17	2.15
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.16	2.18	2.15	2.18	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	1.0% Wetter than OMC	At OMC	1.0% Drier than OMC	At OMC	0.5% Drier than OMC
Moisture Ratio	(%)	106.5	100.0	91.5	101.0	97.5
Density Ratio	(%)	98.0	96.5	97.0	97.5	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.8	6	97.13	0.64	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 08/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	29
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	13/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65339	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	3/06/2022	-	-	-	-
Time - Field Tested:	1125	-	-	-	-
Material Source / Type:	On site - General Fill				
Remarks / Notes:					
Control Line:	0	-	-	-	-
Location/Chainage/Easting:	(m) E:5500.2	-	-	-	-
Position/Offset/Northing:	(m) N:13229.6	-	-	-	-
Level/Layer/R.L.	RL:47.6	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.11	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.88	-	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	12.0	-	-	-	-
Adjusted Lab OMC:	(%)	12.2	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.16	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.16	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	At OMC	-	-	-	-
Moisture Ratio	(%)	100.0	-	-	-	-
Density Ratio	(%)	97.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.8	6	97.13	0.64	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 08/06/2022

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.
Accreditation number: 19902	



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>30</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	14/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65457	65458	65459	65460	65461
Field Test Number:	1	2	3	4	5
Date - Field Tested:	6/06/2022	6/06/2022	6/06/2022	6/06/2022	6/06/2022
Time - Field Tested:	1005	1010	1015	1020	1030
Material Source / Type:	OnSite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting: (m)	E:5510.7	E:5518.2	E:5500.2	E:5492.9	E:5506.2
Position/Offset/Northing: (m)	N:13245.1	N:13221.0	N:13196.4	N:13217.7	N:13236.2
Level/Layer/R.L.	RL:48.8	RL:49.7	RL:50.1	RL:49.3	RL:48.9
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density: (t/m <sup>3</sup> )	2.07	2.02	2.09	2.04	2.02
Field Dry Density: (t/m <sup>3</sup> )	1.85	1.80	1.86	1.78	1.78
Retained Oversize (Wet basis): (%)	3% on 19.0mm	0% on 19.0mm	0% on 19.0mm	1% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	12.0	12.5	12.5	15.0	13.5
Adjusted Lab OMC: (%)	13.0	12.8	12.0	14.6	13.5
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m <sup>3</sup> )	2.13	2.12	2.14	2.14	2.12
Adjusted Lab Max CWD: (t/m <sup>3</sup> )	2.14	2.12	2.14	2.14	2.12
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation (%)	<b>1.0% Drier than OMC</b>	<b>At OMC</b>	<b>0.5% Wetter than OMC</b>	<b>0.5% Wetter than OMC</b>	<b>At OMC</b>
Moisture Ratio (%)	<b>92.0</b>	<b>98.0</b>	<b>104.5</b>	<b>102.5</b>	<b>101.5</b>
Density Ratio (%)	<b>97.0</b>	<b>95.5</b>	<b>98.0</b>	<b>95.5</b>	<b>95.5</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 08/06/2022 to 09/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	30
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	14/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65462	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	6/06/2022	-	-	-	-
Time - Field Tested:	1040	-	-	-	-
Material Source / Type:	OnSite - General Fill				
Remarks / Notes:					
Control Line:	0	-	-	-	-
Location/Chainage/Easting:	(m) E:5521.3	-	-	-	-
Position/Offset/Northing:	(m) N:13202.2	-	-	-	-
Level/Layer/R.L.	RL:49.0	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.08	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.89	-	-	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	10.0	-	-	-	-
Adjusted Lab OMC:	(%)	10.1	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.13	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.13	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	0.5% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	96.5	-	-	-	-
Density Ratio	(%)	97.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 08/06/2022 to 09/06/2022

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 1

Client:	BMD Urban Pty Ltd	Report No:	<b>32</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	17/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65527	65528	65529	65530	65531
Field Test Number:	1	2	3	4	5
Date - Field Tested:	9/06/2022	9/06/2022	9/06/2022	9/06/2022	9/06/2022
Time - Field Tested:	1010	1015	1020	1025	1030
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5481.6	E:5488.0	E:5491.1	E:5503.6	E:5512.4
Position/Offset/Northing:	(m) N:13331.2	N:13307.5	N:13286.2	N:13267.9	N:13246.3
Level/Layer/R.L.	RL:46.0	RL:46.7	RL:47.4	RL:48.2	RL:49.3
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.06	2.02	2.05	2.10	1.97
Field Dry Density:	(t/m <sup>3</sup> )	1.86	1.84	1.85	1.90	1.71
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.5	9.5	11.0	10.5	15.0
Adjusted Lab OMC:	(%)	11.9	11.3	11.3	12.1	16.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.14	2.07	2.13	2.14	2.00
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.15	2.08	2.14	2.14	2.01
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>1.0% Drier than OMC</b>	<b>1.5% Drier than OMC</b>	<b>0.5% Drier than OMC</b>	<b>1.5% Drier than OMC</b>	<b>1.5% Drier than OMC</b>
Moisture Ratio	(%)	<b>90.0</b>	<b>85.5</b>	<b>95.0</b>	<b>87.5</b>	<b>91.5</b>
Density Ratio	(%)	<b>96.0</b>	<b>97.0</b>	<b>96.0</b>	<b>98.0</b>	<b>98.0</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>96.3</b>	5	96.94	1.05	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 14/06/2022

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	Accreditation number: 19902	





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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>35</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	20/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65513	65514	65515	65516	65517
Field Test Number:	1	2	3	4	5
Date - Field Tested:	8/06/2022	8/06/2022	8/06/2022	8/06/2022	8/06/2022
Time - Field Tested:	0910	0920	0930	0940	0950
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5434.6	E:5443.4	E:5452.5	E:5460.1	E:5468.3
Position/Offset/Northing:	(m) N:13311.7	N:13283.5	N:13256.8	N:13306.9	N:13265.6
Level/Layer/R.L.	RL:45.3	RL:46.0	RL:46.7	RL:45.5	RL:46.8
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.23	2.09	2.06	2.08	2.05
Field Dry Density:	(t/m <sup>3</sup> )	2.06	1.83	1.87	1.84	1.81
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	4% on 19.0mm	3% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	14.0	10.5	13.0	13.0
Adjusted Lab OMC:	(%)	10.3	13.9	10.7	13.4	13.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.19	2.15	2.12	2.14	2.13
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.19	2.16	2.13	2.14	2.13
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>2.0% Drier than OMC</b>	<b>At OMC</b>	<b>0.5% Drier than OMC</b>	<b>0.5% Drier than OMC</b>	<b>At OMC</b>
Moisture Ratio	(%)	<b>81.0</b>	<b>100.0</b>	<b>96.0</b>	<b>96.5</b>	<b>98.5</b>
Density Ratio	(%)	<b>102.0</b>	<b>97.0</b>	<b>96.5</b>	<b>97.0</b>	<b>96.0</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>97.2</b>	9	98.11	2.10	0.427
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 17/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	35
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	20/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

	65518	65519	65520	65521	-
Sample Number:	6	7	8	9	-
Field Test Number:	8/06/2022	8/06/2022	8/06/2022	8/06/2022	-
Date - Field Tested:	1000	1010	1020	1030	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5457.2	E:5459.2	E:5461.2	E:5450.2	-
Position/Offset/Northing:	(m) N:13290.6	N:13312.9	N:13300.4	N:13290.4	-
Level/Layer/R.L.	RL:45.0	RL:45.2	RL:45.3	RL:44.9	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.03	2.14	2.12	2.14	-
Field Dry Density:	(t/m <sup>3</sup> )	1.79	1.91	1.88	1.90	-
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	5% on 19.0mm	2% on 19.0mm	1% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	13.0	12.5	13.0	12.0	-
Adjusted Lab OMC:	(%)	13.0	12.6	12.7	12.4	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.10	2.15	2.14	2.13	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.11	2.15	2.15	2.13	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	At OMC	At OMC	0.5% Wetter than OMC	At OMC	-
Moisture Ratio		100.0	98.0	102.5	99.0	-
Density Ratio	(%)	96.0	99.5	99.0	100.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	9	98.11	2.10	0.427
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 17/06/2022



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>36</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	20/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65585	65586	65587	65588	65589
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022
Time - Field Tested:	1005	1010	1015	1020	1025
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5440.5	E:5450.1	E:5459.1	E:5467.8	E:5472.5
Position/Offset/Northing:	(m) N:13319.8	N:13303.9	N:13290.6	N:13267.1	N:13247.7
Level/Layer/R.L.	RL:45.6	RL:46.0	RL:46.5	RL:47.5	RL:48.2
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.06	2.04	2.04	2.05	2.05
Field Dry Density:	(t/m <sup>3</sup> )	1.81	1.79	1.80	1.84	1.80
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	5% on 19.0mm	4% on 19.0mm	2% on 19.0mm	5% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.0	14.0	13.5	11.0	14.5
Adjusted Lab OMC:	(%)	14.0	13.1	13.3	11.9	13.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.11	2.12	2.08	2.09	2.06
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.11	2.13	2.09	2.10	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>At OMC</b>	<b>1.0% Wetter than OMC</b>	<b>At OMC</b>	<b>1.0% Dryer than OMC</b>	<b>0.5% Wetter than OMC</b>
Moisture Ratio	(%)	<b>101.0</b>	<b>106.0</b>	<b>101.5</b>	<b>93.5</b>	<b>103.5</b>
Density Ratio	(%)	<b>98.0</b>	<b>96.0</b>	<b>98.0</b>	<b>97.5</b>	<b>99.0</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>96.9</b>	6	97.47	1.02	0.523
Maximum (%)	-	-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-	<b>98.9</b>	6	101.05	4.20	0.523
Maximum (%)	-	<b>103.2</b>	6	101.05	4.20	0.523

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 11/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>36</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	20/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65590	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	10/06/2022	-	-	-	-
Time - Field Tested:	1030	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5475.2	-	-	-	-
Position/Offset/Northing:	(m) N:13249.2	-	-	-	-
Level/Layer/R.L.	RL:47.9	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.02	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.79	-	-	-	-
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	12.5	-	-	-	-
Adjusted Lab OMC:	(%)	12.4	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.07	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.08	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>At OMC</b>	-	-	-	-
Moisture Ratio	(%)	<b>101.0</b>	-	-	-	-
Density Ratio	(%)	<b>97.0</b>	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>96.9</b>	6	97.47	1.02	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	<b>98.9</b>	6	101.05	4.20	0.523
Maximum (%)	2	<b>103.2</b>	6	101.05	4.20	0.523

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 11/06/2022

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>37</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	22/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65683	65684	65685	65686	65687
Field Test Number:	1	2	3	4	5
Date - Field Tested:	13/06/2022	13/06/2022	13/06/2022	13/06/2022	13/06/2022
Time - Field Tested:	1000	1005	1010	1015	1020
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5472.0	E:5478.2	E:5490.8	E:5491.5	E:5493.9
Position/Offset/Northing:	(m) N:13350.3	N:13334.0	N:13319.4	N:13302.9	N:13281.7
Level/Layer/R.L.	RL:45.9	RL:46.4	RL:47.0	RL:47.5	RL:48.1
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.06	2.13	2.07	2.08	2.14
Field Dry Density:	(t/m <sup>3</sup> )	1.88	1.95	1.82	1.85	1.91
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	2% on 19.0mm	4% on 19.0mm	1% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	9.0	13.5	12.5	12.0
Adjusted Lab OMC:	(%)	11.5	12.7	13.3	11.9	12.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.11	2.09	2.10	2.12	2.11
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.11	2.09	2.11	2.12	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>2.0% Drier than OMC</b>	<b>4.0% Drier than OMC</b>	<b>0.5% Wetter than OMC</b>	<b>0.5% Wetter than OMC</b>	<b>At OMC</b>
Moisture Ratio	(%)	<b>83.5</b>	<b>69.0</b>	<b>102.5</b>	<b>103.0</b>	<b>99.0</b>
Density Ratio	(%)	<b>97.5</b>	<b>101.5</b>	<b>98.0</b>	<b>98.0</b>	<b>101.0</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>98.1</b>	6	99.07	1.76	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 21/06/2022

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	Accreditation number: 19902	



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	37
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	22/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65688	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	13/06/2022	-	-	-	-
Time - Field Tested:	1025	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	0	-	-	-	-
Location/Chainage/Easting:	(m) E:5498.2	-	-	-	-
Position/Offset/Northing:	(m) N:13304.6	-	-	-	-
Level/Layer/R.L.	RL:48.3	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.11	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.93	-	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	9.5	-	-	-	-
Adjusted Lab OMC:	(%)	11.0	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.14	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.15	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	1.5% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	87.0	-	-	-	-
Density Ratio	(%)	98.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	6	99.07	1.76	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 21/06/2022

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>38</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	22/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65778	65779	65780	65781	65782
Field Test Number:	1	2	3	4	5
Date - Field Tested:	14/06/2022	14/06/2022	14/06/2022	14/06/2022	14/06/2022
Time - Field Tested:	1005	1015	1020	1025	1030
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5391.8	E:5386.2	E:5368.5	E:5373.8	E:5388.9
Position/Offset/Northing:	(m) N:13361.0	N:13351.6	N:13348.4	N:13333.0	N:13339.0
Level/Layer/R.L.	RL:40.8	RL:40.3	RL:39.6	RL:39.8	RL:41.0
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.16	2.08	2.14	2.11	2.20
Field Dry Density:	(t/m <sup>3</sup> )	1.95	1.87	1.92	1.91	1.98
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	2% on 19.0mm	1% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	11.0	11.0	10.5	11.0
Adjusted Lab OMC:	(%)	12.2	12.2	12.5	12.0	12.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.14	2.11	2.12	2.13	2.16
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.14	2.12	2.12	2.14	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>1.0% Drier than OMC</b>	<b>1.0% Drier than OMC</b>	<b>1.5% Drier than OMC</b>	<b>1.5% Drier than OMC</b>	<b>1.0% Drier than OMC</b>
Moisture Ratio	(%)	<b>90.0</b>	<b>90.0</b>	<b>89.5</b>	<b>88.0</b>	<b>92.0</b>
Density Ratio	(%)	<b>101.0</b>	<b>98.5</b>	<b>101.0</b>	<b>99.0</b>	<b>102.0</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>99.2</b>	6	99.92	1.46	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 21/06/2022

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	Accreditation number: 19902	



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>38</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	22/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	65783	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	14/06/2022	-	-	-	-
Time - Field Tested:	1035	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	0	-	-	-	-
Location/Chainage/Easting:	(m) E:5399.2	-	-	-	-
Position/Offset/Northing:	(m) N:13379.0	-	-	-	-
Level/Layer/R.L.	RL:39.9	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.09	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.90	-	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	10.0	-	-	-	-
Adjusted Lab OMC:	(%)	11.7	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.12	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.12	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>1.5% Drier than OMC</b>	-	-	-	-
Moisture Ratio	(%)	<b>86.0</b>	-	-	-	-
Density Ratio	(%)	<b>98.5</b>	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>99.2</b>	6	99.92	1.46	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 21/06/2022

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**AUSTRALIAN  
SOIL AND  
CONCRETE  
TESTING**

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	40
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	23/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66195	66196	66197	66198	66199
Field Test Number:	1	2	3	4	5
Date - Field Tested:	15/06/2022	15/06/2022	15/06/2022	15/06/2022	15/06/2022
Time - Field Tested:	1005	1010	1015	1020	1025
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5396.6	E:5374.5	E:5366.9	E:5368.7	E:5357.0
Position/Offset/Northing:	(m) N:13350.6	N:13337.4	N:13323.4	N:13303.8	N:13312.9
Level/Layer/R.L.	RL:41.9	RL:41.2	RL:41.0	RL:41.6	RL:41.0
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.06	2.10	2.05	2.09	2.12
Field Dry Density:	(t/m <sup>3</sup> )	1.85	1.89	1.86	1.90	1.89
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	1% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	10.5	10.0	10.0	12.0
Adjusted Lab OMC:	(%)	10.6	10.6	10.5	10.3	11.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.16	2.19	2.14	2.14	2.15
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.16	2.19	2.15	2.14	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	0.5% Wetter than OMC	At OMC	0.5% Drier than OMC	At OMC	0.5% Wetter than OMC
Moisture Ratio	(%)	104.0	101.0	97.0	98.0	104.0
Density Ratio	(%)	95.0	96.0	95.5	97.5	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.0	6	96.62	1.26	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 22/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit  
Approved Signatory



**AUSTRALIAN  
SOIL AND  
CONCRETE  
TESTING**

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	<b>40</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	23/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:		<b>66200</b>	-	-	-	-
Field Test Number:		6	-	-	-	-
Date - Field Tested:		15/06/2022	-	-	-	-
Time - Field Tested:		1030	-	-	-	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		0	-	-	-	-
Location/Chainage/Easting:	(m)	E:5349.2	-	-	-	-
Position/Offset/Northing:	(m)	N:13302.6	-	-	-	-
Level/Layer/R.L.		RL:40.7	-	-	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.09	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.89	-	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	10.5	-	-	-	-
Adjusted Lab OMC:	(%)	10.7	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.14	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.15	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	<b>0.5% Drier than OMC</b>	-	-	-	-
Moisture Ratio	(%)	<b>97.0</b>	-	-	-	-
Density Ratio	(%)	<b>97.5</b>	-	-	-	-


Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>96.0</b>	6	96.62	1.26	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 22/06/2022

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Accreditation number: 19902	



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	41
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	24/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66206	66207	66208	66209	66210
Field Test Number:	1	2	3	4	5
Date - Field Tested:	16/06/2022	16/06/2022	16/06/2022	16/06/2022	16/06/2022
Time - Field Tested:	1005	1010	1015	1020	1025
Material Source / Type:	Onsite - Level 1 Fill				
Remarks / Notes:					
Control Line:	Fill Area	Fill Area	Fill Area	Fill Area	Fill Area
Location/Chainage/Easting: (m)	E:5373.7	E:5371.8	E:5375.5	E:5370.2	E:5364.4
Position/Offset/Northing: (m)	N:13306.6	N:13287.8	N:13275.6	N:13322.6	N:13314.0
Level/Layer/R.L.	RL:43.9	RL:43.2	RL:43.5	RL:42.0	RL:41.9
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density: (t/m <sup>3</sup> )	2.08	2.02	2.07	2.11	2.10
Field Dry Density: (t/m <sup>3</sup> )	1.91	1.88	1.90	1.95	1.92
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.0	8.0	9.0	8.5	9.5
Adjusted Lab OMC: (%)	10.3	9.9	10.6	10.2	10.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m <sup>3</sup> )	2.08	2.13	2.10	2.08	2.14
Adjusted Lab Max CWD: (t/m <sup>3</sup> )	2.08	2.13	2.10	2.08	2.14
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation (%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC
Moisture Ratio (%)	85.0	79.5	84.5	84.0	94.5
Density Ratio (%)	100.0	95.0	99.0	102.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.9	6	99.05	2.27	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 23/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	41
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	24/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66211	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	16/06/2022	-	-	-	-
Time - Field Tested:	1030	-	-	-	-
Material Source / Type:	Onsite - Level 1 Fill				
Remarks / Notes:					
Control Line:	Fill Area	-	-	-	-
Location/Chainage/Easting:	(m) E:5360.2	-	-	-	-
Position/Offset/Northing:	(m) N:13310.0	-	-	-	-
Level/Layer/R.L.	RL:41.2	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.15	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.97	-	-	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	9.0	-	-	-	-
Adjusted Lab OMC:	(%)	8.6	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.15	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.15	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	0.5% Wetter than OMC	-	-	-	-
Moisture Ratio	(%)	106.5	-	-	-	-
Density Ratio	(%)	100.5	-	-	-	-


Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.9	6	99.05	2.27	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 23/06/2022

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	47
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	27/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66549	66550	66551	66552	66553
Field Test Number:	1	2	3	4	5
Date - Field Tested:	17/06/2022	17/06/2022	17/06/2022	17/06/2022	17/06/2022
Time - Field Tested:	0930	0935	0940	0945	0950
Material Source / Type:	On Site - Level 1 Fill				
Remarks / Notes:					
Control Line:	Fill Area	Fill Area	Fill Area	Fill Area	Fill Area
Location/Chainage/Easting: (m)	E:5359.7	E:5353.1	E:5357.0	E:5368.6	E:5373.2
Position/Offset/Northing: (m)	N:13339.7	N:13225.0	N:13294.0	N:13276.5	N:13263.6
Level/Layer/R.L.	RL:41.0	RL:42.1	RL:43.1	RL:43.8	RL:44.4
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density: (t/m <sup>3</sup> )	2.03	2.19	2.09	2.12	2.15
Field Dry Density: (t/m <sup>3</sup> )	1.87	1.97	1.92	1.95	1.99
Retained Oversize (Wet basis): (%)	3% on 19.0mm	3% on 19.0mm	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	8.5	11.0	8.5	9.0	8.0
Adjusted Lab OMC: (%)	9.2	10.7	10.5	10.6	9.7
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m <sup>3</sup> )	2.07	2.16	2.08	2.09	2.14
Adjusted Lab Max CWD: (t/m <sup>3</sup> )	2.08	2.17	2.08	2.09	2.15
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation (%)	1.0% Drier than OMC	At OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	91.5	101.0	83.5	84.5	83.5
Density Ratio (%)	97.5	100.5	100.5	101.5	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.6	6	100.37	1.49	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.8	6	87.63	7.42	0.523
Maximum (%)	2	91.5	6	87.63	7.42	0.523

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 24/06/2022

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	Accreditation number: 19902	



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	47
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	27/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66554	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	17/06/2022	-	-	-	-
Time - Field Tested:	0955	-	-	-	-
Material Source / Type:	On Site - Level 1 Fill				
Remarks / Notes:					
Control Line:	Fill Area	-	-	-	-
Location/Chainage/Easting:	(m) E:5382.1	-	-	-	-
Position/Offset/Northing:	(m) N:13260.6	-	-	-	-
Level/Layer/R.L.	RL:43.8	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.11	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.95	-	-	-	-
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	8.5	-	-	-	-
Adjusted Lab OMC:	(%)	10.1	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.07	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.07	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	2.0% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	82.0	-	-	-	-
Density Ratio	(%)	102.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.6	6	100.37	1.49	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.8	6	87.63	7.42	0.523
Maximum (%)	2	91.5	6	87.63	7.42	0.523

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 24/06/2022

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 1

Client:	BMD Urban Pty Ltd	Report No:	<b>48</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	28/06/2022
Project:	Aurora Stage 2 - Daley Road Ripley	Project No:	1169
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66557	66558	66559	66560	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	20/06/2022	20/06/2022	20/06/2022	20/06/2022	-
Time - Field Tested:	1500	1505	1510	1515	-
Material Source / Type:	On Site - Level 1 Fill				
Remarks / Notes:					
Control Line:	Fill Area	Fill Area	Fill Area	Fill Area	
Location/Chainage/Easting: (m)	E:5369.7	E:5372.9	E:5367.8	E:5366.7	-
Position/Offset/Northing: (m)	N:13240.7	N:13275.5	N:13287.6	N:13306.4	-
Level/Layer/R.L.	RL:46.0	RL:44.2	RL:43.6	RL:43.3	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	-

**Field & Laboratory Results**

Field Wet Density: (t/m <sup>3</sup> )	2.10	2.08	2.11	2.06	-
Field Dry Density: (t/m <sup>3</sup> )	1.89	1.85	1.94	1.88	-
Retained Oversize (Wet basis): (%)	4% on 19.0mm	5% on 19.0mm	3% on 19.0mm	2% on 19.0mm	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content: (%)	11.0	12.0	9.0	10.0	-
Adjusted Lab OMC: (%)	10.6	12.2	9.4	9.1	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density: (t/m <sup>3</sup> )	2.13	2.11	2.10	2.09	-
Adjusted Lab Max CWD: (t/m <sup>3</sup> )	2.14	2.12	2.11	2.10	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

**Relative Compaction & Moisture**

Moisture Variation (%)	0.5% Wetter than OMC	At OMC	0.5% Drier than OMC	1.0% Wetter than OMC	-
Moisture Ratio (%)	104.0	100.0	95.5	108.5	-
Density Ratio (%)	98.5	98.0	100.0	98.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	4	98.73	1.00	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)


**Remarks Regarding the Lot.**

Laboratory testing 23/06/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:   
 A. Lenkeit  
 Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	51
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	6/07/2022
Project:	Aurora Stage 2 & 3 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66850	66851	66852	66853	66854
Field Test Number:	1	2	3	4	5
Date - Field Tested:	27/06/2022	27/06/2022	27/06/2022	27/06/2022	27/06/2022
Time - Field Tested:	1010	1015	1020	1025	1030
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-				
Location/Chainage/Easting:	(m) E:5442.6	E:5428.0	E:5415.4	E:5449.6	E:5426.0
Position/Offset/Northing:	(m) N:13369.8	N:13367.0	N:13365.4	N:13360.2	N:13365.2
Level/Layer/R.L.	RL:45.1	RL:44.5	RL:43.7	RL:44.2	RL:43.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.08	2.07	2.11	2.12	2.12
Field Dry Density:	(t/m <sup>3</sup> )	1.86	1.84	1.91	1.93	1.91
Retained Oversize (Wet basis):	(%)	8% on 19.0mm	9% on 19.0mm	11% on 19.0mm	8% on 19.0mm	11% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	12.0	12.5	10.0	9.5	11.0
Adjusted Lab OMC:	(%)	12.9	12.4	11.1	10.2	11.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.12	2.13	2.15	2.18	2.14
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.14	2.15	2.18	2.20	2.17
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	1.0% Drier than OMC	At OMC	1.0% Drier than OMC	0.5% Drier than OMC	At OMC
Moisture Ratio	(%)	93.0	101.0	92.0	93.5	98.0
Density Ratio	(%)	97.0	96.0	96.5	96.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.5	6	96.92	0.81	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 02/07/2022 to 04/07/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit  
Approved Signatory



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	51
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	6/07/2022
Project:	Aurora Stage 2 & 3 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	66855	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	27/06/2022	-	-	-	-
Time - Field Tested:	1035	-	-	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	0	-	-	-	-
Location/Chainage/Easting:	(m) E:5412.2	-	-	-	-
Position/Offset/Northing:	(m) N:13364.9	-	-	-	-
Level/Layer/R.L.	RL:43.0	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.08	-	-	-	-
Field Dry Density:	(t/m <sup>3</sup> )	1.88	-	-	-	-
Retained Oversize (Wet basis):	(%)	13% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	10.5	-	-	-	-
Adjusted Lab OMC:	(%)	12.6	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.09	-	-	-	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.13	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	2.0% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	82.5	-	-	-	-
Density Ratio	(%)	98.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.5	6	96.92	0.81	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 02/07/2022 to 04/07/2022

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 3

Client:	BMD Urban Pty Ltd	Report No:	<b>53</b>
Client Address:	1 Sandpiper Ave, Port of Brisbane QLD, 4178	Report Date:	6/07/2022
Project:	Aurora Stage 2 & 3 - Daley Road Ripley	Project No:	1169
Component:	Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	67234	67235	67236	67237	67238
Field Test Number:	1	2	3	4	5
Date - Field Tested:	30/06/2022	30/06/2022	30/06/2022	30/06/2022	30/06/2022
Time - Field Tested:	0835	0840	0845	0850	0905
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Allotment 230	Allotment 231	Allotment 232	Allotment 233	Allotment 234
Location/Chainage/Easting: (m)	19m off Northern Boundary	12m off Northern Boundary	10m off Northern Boundary	8m off Northern Boundary	16m off Northern Boundary
Position/Offset/Northing: (m)	11m off Eastern Boundary	6m off Eastern Boundary	4m off Eastern Boundary	5m off Eastern Boundary	9m off Eastern Boundary
Level/Layer/R.L.	0.6m BFL	2m BFL	1.4m BFL	2.5m BFL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density: (t/m <sup>3</sup> )	2.11	2.06	2.12	2.08	2.15
Field Dry Density: (t/m <sup>3</sup> )	1.92	1.86	1.93	1.90	1.95
Retained Oversize (Wet basis): (%)	2% on 19.0mm	6% on 19.0mm	3% on 19.0mm	4% on 19.0mm	4% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.0	11.0	10.0	9.5	10.0
Adjusted Lab OMC: (%)	12.1	12.9	11.4	11.5	10.8
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m <sup>3</sup> )	2.09	2.10	2.11	2.12	2.16
Adjusted Lab Max CWD: (t/m <sup>3</sup> )	2.10	2.11	2.11	2.13	2.17
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation (%)	<b>2.0% Drier than OMC</b>	<b>2.0% Drier than OMC</b>	<b>1.5% Drier than OMC</b>	<b>2.0% Drier than OMC</b>	<b>1.0% Drier than OMC</b>
Moisture Ratio (%)	<b>82.5</b>	<b>83.5</b>	<b>87.5</b>	<b>81.0</b>	<b>93.0</b>
Density Ratio (%)	<b>101.0</b>	<b>97.5</b>	<b>100.5</b>	<b>97.5</b>	<b>99.0</b>

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	<b>98.8</b>	14	99.28	1.34	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 02/07/2022 to 04/07/2022

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.	
	Accreditation number: 19902	





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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 3

Client:	BMD Urban Pty Ltd	Report No:	53
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	6/07/2022
Project:	Aurora Stage 2 & 3 - Daley Road Ripley	Project No:	1169
Component:	Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

	67239	67240	67241	67242	67243
Sample Number:	6	7	8	9	10
Field Test Number:	30/06/2022	30/06/2022	30/06/2022	30/06/2022	30/06/2022
Date - Field Tested:	0910	0915	0925	0930	0940
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Allotment 235	Allotment 210	Allotment 211	Allotment 212	Allotment 828
Location/Chainage/Easting:	(m) 20m off Northern Boundary	3m off Northern Boundary	2m off Northern Boundary	5m off Northern Boundary	3m off Northern Boundary
Position/Offset/Northing:	(m) 10m off Eastern Boundary	21m off Eastern Boundary	19m off Eastern Boundary	17m off Eastern Boundary	14m off Eastern Boundary
Level/Layer/R.L.	0.5m BFL	FL	0.5m BFL	0.4m BFL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.09	2.11	2.12	2.17	2.14
Field Dry Density:	(t/m <sup>3</sup> )	1.87	1.89	1.89	1.96	1.93
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	6% on 19.0mm	5% on 19.0mm	5% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	11.0	12.0	10.5	11.0
Adjusted Lab OMC:	(%)	11.7	11.5	12.3	11.4	11.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.14	2.13	2.12	2.17	2.17
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.15	2.14	2.13	2.17	2.18
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

	At OMC	0.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	At OMC
Moisture Variation (%)					
Moisture Ratio (%)	98.0	97.0	96.5	93.0	98.0
Density Ratio (%)	97.0	98.5	99.0	100.0	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.8	14	99.28	1.34	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 02/07/2022 to 04/07/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 3 of 3

Client:	BMD Urban Pty Ltd	Report No:	53
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	6/07/2022
Project:	Aurora Stage 2 & 3 - Daley Road Ripley	Project No:	1169
Component:	Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	67244	67245	67246	67247	-
Field Test Number:	11	12	13	14	-
Date - Field Tested:	30/06/2022	30/06/2022	30/06/2022	30/06/2022	-
Time - Field Tested:	0945	0955	1000	1010	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Allotment 821	Allotment 817	Allotment 813	Allotment 803	-
Location/Chainage/Easting:	(m) 13m off Northern Boundary	3m off Northern Boundary	6m off Northern Boundary	2m off Northern Boundary	-
Position/Offset/Northing:	(m) 11m off Eastern Boundary	12m off Eastern Boundary	12m off Eastern Boundary	4m off Eastern Boundary	-
Level/Layer/R.L.	FL	0.4m BFL	FL	FL	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.09	2.15	2.10	2.07	-
Field Dry Density:	(t/m <sup>3</sup> )	1.88	1.92	1.86	1.83	-
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	3% on 19.0mm	6% on 19.0mm	4% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	11.0	11.5	13.0	13.0	-
Adjusted Lab OMC:	(%)	13.2	12.5	13.2	13.9	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.08	2.13	2.07	2.05	-
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.09	2.13	2.09	2.06	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

**Relative Compaction & Moisture**

Moisture Variation	(%)	2.0% Drier than OMC	1.0% Drier than OMC	At OMC	1.0% Drier than OMC	-
Moisture Ratio	(%)	83.0	92.0	100.0	92.5	-
Density Ratio	(%)	100.0	100.5	101.0	100.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.8	14	99.28	1.34	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 02/07/2022 to 04/07/2022

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**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 1 of 2

Client:	BMD Urban Pty Ltd	Report No:	65
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	8/07/2022
Project:	Aurora Stage 2 & 3 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

Sample Number:	67217	67218	67219	67220	67221
Field Test Number:	1	2	3	4	5
Date - Field Tested:	29/06/2022	29/06/2022	29/06/2022	29/06/2022	29/06/2022
Time - Field Tested:	1005	1010	1015	1020	1025
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:5480.1	E:5487.2	E:5492.0	E:5498.7	E:5488.2
Position/Offset/Northing:	(m) N:13374.6	N:13352.7	N:13328.1	N:13304.1	N:13354.6
Level/Layer/R.L.	RL:48.4	RL:48.2	RL:48.9	RL:49.6	RL:47.6
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.15	2.13	2.08	2.05	2.07
Field Dry Density:	(t/m <sup>3</sup> )	1.93	1.92	1.90	1.84	1.86
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	2% on 19.0mm	0% on 19.0mm	0% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	11.0	9.5	11.0	11.0
Adjusted Lab OMC:	(%)	12.8	12.8	11.4	13.3	13.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.15	2.11	2.10	2.07	2.04
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.15	2.11	2.10	2.07	2.05
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	1.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	90.5	86.0	82.5	83.5	84.5
Density Ratio	(%)	100.5	101.0	99.5	99.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.0	10	99.51	1.21	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 04/07/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit  
 Approved Signatory



**ASCT Brisbane South**  
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 A.B.N. 28 608 830 306

**Compaction Control Test Report (Nuclear Gauge & Hilf)** Page: 2 of 2

Client:	BMD Urban Pty Ltd	Report No:	65
Client Address:	1 Sandpiper Ave, Port of Brisbane Qld, 4178	Report Date:	8/07/2022
Project:	Aurora Stage 2 & 3 - Daley Road Ripley	Project No:	1169
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

**Sample Information & Location**

	67222	67223	67224	67225	67226
Sample Number:	6	7	8	9	10
Field Test Number:	29/06/2022	29/06/2022	29/06/2022	29/06/2022	29/06/2022
Date - Field Tested:	1045	1055	1100	1110	1115
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Allotment 340	Allotment 339	Allotment 324	Allotment 303	Allotment 304
Location/Chainage/Easting:	(m) 5m off Northern Boundary	2m off Northern Boundary	10m off Northern Boundary	11m off Northern Boundary	12m off Northern Boundary
Position/Offset/Northing:	(m) 8m off Eastern Boundary	12m off Eastern Boundary	7m off Eastern Boundary	14m off Eastern Boundary	12m off Eastern Boundary
Level/Layer/R.L.	0.5m BFL	FL	0.3m BFL	FL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

**Field & Laboratory Results**

Field Wet Density:	(t/m <sup>3</sup> )	2.07	2.17	2.13	2.09	2.17
Field Dry Density:	(t/m <sup>3</sup> )	1.85	1.98	1.93	1.89	1.99
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	3% on 19.0mm	6% on 19.0mm	4% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	9.5	10.0	10.5	9.0
Adjusted Lab OMC:	(%)	13.3	11.7	11.7	12.2	11.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m <sup>3</sup> )	2.07	2.15	2.17	2.11	2.17
Adjusted Lab Max CWD:	(t/m <sup>3</sup> )	2.08	2.16	2.19	2.13	2.18
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

**Relative Compaction & Moisture**

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	86.0	81.5	87.0	86.5	80.5
Density Ratio	(%)	99.5	100.5	97.0	98.0	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.0	10	99.51	1.21	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

**Test Methods Used.**

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

**Remarks Regarding the Lot.**

Laboratory testing 04/07/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

# Appendix C

## Individual Lot Certificates



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Web: [www.asct.com.au](http://www.asct.com.au)

22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 201

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 201 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **201** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna  
Laboratory Manager

ASCT Brisbane South  
[jason.mckenna@asct.com.au](mailto:jason.mckenna@asct.com.au)





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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 202

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 202 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **202** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna  
Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 203

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 203 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **203** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna  
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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 204

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 204 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **204** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna  
Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 205

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 205 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **205** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 206

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 206 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **206** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 207

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 207 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **207** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 208

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 208 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **208** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 209

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 209 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **209** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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Laboratory Manager

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Web: [www.asct.com.au](http://www.asct.com.au)

22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 210

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 210 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **210** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 211

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 211 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **211** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna  
Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 212

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 212 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **212** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna  
Laboratory Manager

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 213

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 213 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **213** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 214

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 214 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **214** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 215

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 215 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **215** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 216

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 216 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **216** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 217

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 217 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **217** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 218

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 218 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **218** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 219

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 219 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **219** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 220

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 220 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **220** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 221

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 221 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **221** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 222

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## **CERTIFICATE OF CONTROLLED FILLING**

### **LOT 222 – Aurora Stage 2 & 3, Daleys Road Ripley**

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **222** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 223

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 223 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **223** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 224

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 224 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **224** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 225

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 225 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **225** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 226

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 226 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **226** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 227

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 227 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **227** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 228

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# CERTIFICATE OF CONTROLLED FILLING

## LOT 228 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **228** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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Web: [www.asct.com.au](http://www.asct.com.au)

22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 229

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 229 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **229** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna  
Laboratory Manager

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Web: [www.asct.com.au](http://www.asct.com.au)

22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 230

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 230 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **230** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 231

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 231 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **231** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 232

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 232 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **232** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 233

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 233 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **233** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 234

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 234 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **234** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 235

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 235 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **235** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 236

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 236 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **236** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 237

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 237 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **237** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 238

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 238 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **238** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 239

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 239 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **239** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 240

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 240 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **240** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 241

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 241 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **241** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 242

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 242 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **242** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 243

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 243 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **243** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 244

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 244 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **244** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 301

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 301 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **301** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 302

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 302 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **302** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 303

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 303 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **303** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 304

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 304 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **304** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 305

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 305 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **305** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 306

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 306 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **306** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 307

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 307 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **307** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 308

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 308 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **308** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 309

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 309 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **309** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 310

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 310 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **310** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 311

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 311 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **311** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 312

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 312 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **312** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 313

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 313 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **313** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 314

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 314 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **314** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 315

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 315 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **315** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 316

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 316 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **316** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 317

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 317 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **317** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 318

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 318 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **318** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 319

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 319 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **319** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 320

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 320 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **320** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 321

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 321 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **321** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 322

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 322 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **322** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 323

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 323 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **323** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 324

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 324 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **324** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 325

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 325 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **325** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 326

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 326 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **326** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 327

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 327 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **327** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 328

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 328 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **328** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 329

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 329 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **329** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 330

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 330 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **330** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 331

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 331 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **331** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 332

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 332 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **332** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 333

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 333 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **333** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 334

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# CERTIFICATE OF CONTROLLED FILLING

## LOT 334 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **334** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 335

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 335 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **335** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 336

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 336 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **336** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 337

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 337 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **337** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 338

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 338 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **338** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 339

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 339 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **339** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 340

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 340 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **340** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 801

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 801 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **801** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 802

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 802 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **802** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 803

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 803 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **803** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 804

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 804 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **804** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 805

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 805 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **805** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 813

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 813 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **813** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 814

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# CERTIFICATE OF CONTROLLED FILLING

## LOT 814 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **814** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 815

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 815 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **815** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 816

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# CERTIFICATE OF CONTROLLED FILLING

## LOT 816 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **816** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 817

BMD Urban Pty Ltd  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 817 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **817** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 818

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 818 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **818** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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Laboratory Manager

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 819

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 819 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **819** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 820

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 820 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **820** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 821

BMD Urban Pty Ltd  
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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 821 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **821** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 822

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# CERTIFICATE OF CONTROLLED FILLING

## LOT 822 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **822** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 823

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 823 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **823** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022

Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 824

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 824 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **824** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

Please do not hesitate to contact me if you have any queries.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 825

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Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 825 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **825** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 826

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# CERTIFICATE OF CONTROLLED FILLING

## LOT 826 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **826** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 827

BMD Urban Pty Ltd  
Level 1, 25 Cambridge Parade  
Manly QLD 4179

# CERTIFICATE OF CONTROLLED FILLING

## LOT 827 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **827** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 828

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Level 1, 25 Cambridge Parade  
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# CERTIFICATE OF CONTROLLED FILLING

## LOT 828 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **828** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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22<sup>nd</sup> August 2022  
Ref No: 1169\_Level 1\_Aurora Stage 2 & 3\_Lot 900

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# CERTIFICATE OF CONTROLLED FILLING

## LOT 900 – Aurora Stage 2 & 3, Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 10/03/22 and 30/06/22.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **900** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No: **1169\_Level 1\_Aurora Stage 2 & 3**, Dated 22<sup>nd</sup> August 2022.

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