



Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur, Q. 4503

Ph. (07) 3285 6536

Email. brissoil@bigpond.net.au

Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No.1418

13 April 2018

BMD Constructions Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

RE: CAPESTONE ESTATE – STAGE 20A
(Allotment Fill – Geotechnical Inspection & Testing)

SCOPE

Brisbane Soil Testing were commissioned by BMD Constructions Pty Ltd to provide geotechnical inspection and testing of the allotment earthworks on the above stage subdivision.

Some filling was required as part of the development and for this work, our site presence was maintained in accordance with AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments" Appendix B, "Level 1". As directed the scope of the Level 1 inspection and testing was:

- (i) check adequacy of pre-fill ground preparation
- (ii) remove unsuitable materials
- (iii) inspect and carry out compaction control testing of placed fill materials

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on 26 October 2017 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff.

On-site cut materials were used for filling and these materials were generally placed in 0.20m loose horizontal layers and compacted with an 815 compactor and vibrating pad foot roller.

Ninety-six field density tests were carried between 26 October 2017 and 11 April 2018. These tests recorded Dry Density Ratios between 95.0% and 104.0% relative to the standard compaction test and field moisture contents within -3.5% and +3.0% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B37/11 (Report Nos. 41359, 41360, 41361, 41362, 41374, 41375, 41376, 41384, 41385, 41451, 41452, 41453, 41455, 41456, 41457, 41490, 41543, 41544, 42025, 41576, 41577, 41579, 41581, 41632 and 42026) provide full test data for the compaction control tests.

CONCLUSION

Based on the test results and site inspections, we conclude that the fill foundation is considered to comply with requirements of Table 5.1- Item 1 of AS3798-2007 and the project specifications.

We confirm that all vegetation and topsoil was removed, and that a sound base for the proposed filling was provided. We further confirm that all filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.



GREG McGRANN
BRISBANE SOIL TESTING



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41359
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	26/10/2017	Tested by	RW

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11214	8.00	150	LOT 1935 4m Rear bdy, 3m Left bdy R.L.5.41	11214	-	-	10.0	Adj. 12.5	2.5 DRY	80.0	1.94	Adj. 1.96	99.0
Material Description: DARK BROWN SILTY SANDY CLAY													
11215	8.30	150	LOT 1936 4m Rear bdy, 2m Left bdy R.L.5.32	11215	-	-	11.0	Adj. 13.0	2.0 DRY	84.5	1.89	Adj. 1.96	96.5
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 1.11.17

Checked By: R MCGRANN

RMc



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 1.11.17

Greg McGrann



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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41360
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	27/10/2017	Tested by	AC JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11216	8.00	150	LOT 1845 3m Rear bdy, 3m Left bdy R.L.5.16	11216	-	-	12.5	Adj. 15.0	2.5 DRY	83.5	1.87	Adj. 1.92	97.5
Material Description: DARK BROWN SILTY SANDY GRAVELLY CLAY													
11217	8.00	150	LOT 1847 4m Rear bdy, 2m Right bdy R.L.4.47	11217	-	-	11.5	Adj. 11.0	0.5 WET	104.5	1.94	Adj. 2.02	96.0
Material Description: DARK GREY-BROWN SILTY SANDY CLAY													
11218	8.30	150	LOT 1849 3m Rear bdy, 2m Left bdy R.L.4.41	11218	-	-	10.0	Adj. 11.5	1.5 DRY	87.0	2.05	Adj. 2.02	101.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS													
11219	8.30	150	LOT 1849 2m Rear bdy, 3m Left bdy R.L.4.83	11219	-	-	8.5	Adj. 8.0	0.5 WET	106.5	2.08	Adj. 2.08	100.0
Material Description: DARK BROWN SANDY GRAVELLY CLAY													
11220	9.00	150	LOT 1850 5m Rear bdy, 4m Left bdy R.L.4.20	11220	-	-	9.0	Adj. 9.5	0.5 DRY	94.5	2.06	Adj. 2.07	99.5
Material Description: DARK BROWN SANDY GRAVELLY CLAY													
11221	9.00	150	LOT 1846 5m Rear bdy, 3m Left bdy R.L.4.43	11221	-	-	10.5	Adj. 10.5	-	100.0	1.98	Adj. 2.04	97.0
Material Description: DARK BROWN SANDY GRAVELLY CLAY													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 1.11.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 1.11.17

Greg McGrann



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41361
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	27/10/2017	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11229	9.30	150	LOT 1853 5m Rear bdy, 3m Left bdy R.L.3.55	11229	-	-	10.5	Adj. 11.5	1.0 DRY	91.5	1.90	Adj. 1.97	96.5
Material Description: BROWN SILTY SANDY CLAY													
11230	10.00	150	LOT 1851 4m Rear bdy, 3m Left bdy R.L.4.07	11230	-	-	14.0	Adj. 13.5	0.5 WET	103.5	1.82	Adj. 1.89	96.5
Material Description: BROWN SILTY SANDY CLAY													
11231	10.30	150	LOT 1848 7m Rear bdy, 4m Right bdy R.L.4.32	11231	-	-	8.0	Adj. 7.5	0.5 WET	106.5	2.10	Adj. 2.09	100.5
Material Description: GREY-BROWN SILTY SAND													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41362
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	28/10/2017	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11232	8.00	150	LOT 1852 6m Rear bdy, 3m Right bdy R.L.3.75	11232	-	-	13.0	Adj. 14.5	1.5 DRY	89.5	1.91	Adj. 1.93	99.0
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
11233	8.30	150	LOT 1849 7m Rear bdy, 3m Left bdy R.L.5.35	11233	-	-	12.0	Adj. 14.5	2.5 DRY	82.5	1.80	Adj. 1.98	91.0
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
11234	9.00	150	LOT 1847 5m Rear bdy, 2m Right bdy R.L.4.95	11234	-	-	13.0	Adj. 14.5	1.5 DRY	89.5	1.90	Adj. 1.93	98.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
11235	9.30	150	LOT 1845 6m Rear bdy, 3m Left bdy R.L.5.62	11235	-	-	13.5	Adj. 14.0	0.5 DRY	96.5	1.90	Adj. 1.91	99.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 1.11.17

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Approved Signatory

Date: 1.11.17

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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41374
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	30/10/2017	Tested by	JM JC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11241	8.00	150	LOT 1940 3m Rear bdy, 4m Left bdy R.L.4.94	11241	-	-	14.0	Adj. 15.5	1.5 DRY	90.5	1.84	Adj. 1.87	98.5
Material Description: REDDISH-BROWN SILTY CLAY													
11242	8.00	150	LOT 1939 2m Rear bdy, 4m Right bdy R.L.5.32	11242	-	-	14.5	Adj. 16.5	2.0 DRY	88.0	1.78	Adj. 1.82	98.0
Material Description: REDDISH-BROWN SILTY CLAY													
11243	8.30	150	LOT 1938 3m Rear bdy, 4m Left bdy R.L.5.35	11243	-	-	14.0	Adj. 14.5	0.5 DRY	96.5	1.79	Adj. 1.88	95.0
Material Description: BROWN SILTY SANDY CLAY													
11244	8.30	150	LOT 1937 2m Rear bdy, 3m Left bdy R.L.5.43	11244	-	-	14.0	Adj. 14.5	0.5 DRY	96.5	1.81	Adj. 1.91	95.0
Material Description: DARK RED SILTY SANDY CLAY & ROCK FRAGMENTS													
11245	9.00	150	LOT 1936 2m Rear bdy, 2m Right bdy R.L.5.64	11245	-	-	15.0	Adj. 15.0	-	100.0	1.68	Adj. 1.85	91.0
Material Description: REDDISH-BROWN SILTY CLAY													
11246	9.00	150	LOT 1935 5m Rear bdy, 2m Left bdy R.L.5.72	11246	-	-	15.5	Adj. 15.0	0.5 WET	103.5	1.72	Adj. 1.90	90.5
Material Description: BROWN SILTY GRAVELLY CLAY													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 3.11.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMC

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 3.11.17

Greg McGrann



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41375
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	30/10/2017	Tested by	JM JC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11247	9.30	150	LOT 1934 2m Rear bdy, 2m Right bdy R.L.5.89	11247	-	-	12.5	Adj. 13.5	1.0 DRY	92.5	1.76	Adj. 1.90	92.5
Material Description: BROWN SILTY GRAVELLY CLAY													
11248	9.30	150	LOT 1840 3m Rear bdy, 2m Left bdy R.L.5.33	11248	-	-	8.0	Adj. 8.5	0.5 DRY	94.0	1.98	Adj. 2.07	96.0
Material Description: DARK BROWN SANDY CLAY													
11249	10.00	150	LOT 1839 5m Rear bdy, 2m Left bdy R.L.5.10	11249	-	-	11.0	Adj. 11.5	0.5 DRY	95.5	1.98	Adj. 2.00	99.0
Material Description: DARK BROWN SILTY SANDY CLAY													
11250	10.00	150	LOT 1838 4m Rear bdy, 3m Right bdy R.L.4.75	11250	-	-	12.0	Adj. 14.5	2.5 DRY	82.5	1.79	Adj. 1.86	96.0
Material Description: BROWN SILTY CLAY													
11251	10.30	150	LOT 1837 2m Rear bdy, 2m Left bdy R.L.4.54	11251	-	-	15.5	Adj. 14.0	1.5 WET	110.5	1.80	Adj. 1.88	95.5
Material Description: BROWN SILTY CLAY													
11266	11.00	150	LOT 1838 7m Rear bdy, 2m Left bdy R.L.5.25	11266	-	-	13.5	Adj. 15.0	1.5 DRY	90.0	1.78	Adj. 1.86	95.5
Material Description: DARK BROWN SILTY CLAY													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 3.11.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMC

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 3.11.17

Greg McGrann



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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41376
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	30/10/2017	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11267	11.30	150	LOT 1839 6m Rear bdy, 2m Left bdy R.L.5.63	11267	-	-	19.0	Adj. 20.5	1.5 DRY	92.5	1.61	Adj. 1.67	96.5
Material Description: REDDISH-BROWN & GREY SILTY CLAY													
11268	12.00	150	LOT 1838 8m Rear bdy, 3m Left bdy R.L.5.77	11268	-	-	21.0	Adj. 22.5	1.5 DRY	93.5	1.56	Adj. 1.62	96.5
Material Description: REDDISH-BROWN & GREY SILTY CLAY													
11269	12.30	150	LOT 1837 5m Rear bdy, 2m Right bdy R.L.5.05	11269	-	-	19.5	Adj. 21.5	2.0 DRY	90.5	1.69	Adj. 1.66	102.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 3.11.17

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41384
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	1/11/2017	Tested by	JC JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11279	8.00	150	LOT 1854 4m Rear bdy, 2m Right bdy R.L.3.44	11279	-	-	16.0	Adj. 13.0	3.0 WET	123.0	1.82	Adj. 1.90	96.0
Material Description: BROWN SILTY SANDY CLAY.													
11280	8.00	150	LOT 1852 7m Rear bdy, 3m Left bdy R.L.4.40	11280	-	-	16.0	Adj. 14.0	2.0 WET	114.5	1.81	Adj. 1.89	96.0
Material Description: BROWN SILTY SANDY CLAY.													
11281	8.30	150	LOT 1850 5m Rear bdy, 2m Right bdy R.L.4.78	11281	-	-	15.0	Adj. 13.0	2.0 WET	115.5	1.83	Adj. 1.91	96.0
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													
11282	8.30	150	LOT 1854 6m Rear bdy, 3m Left bdy R.L.4.13	11282	-	-	13.5	Adj. 13.0	0.5 WET	104.0	1.89	Adj. 1.89	100.0
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													
11283	9.00	150	LOT 1853 6m Rear bdy, 3m Right bdy R.L.4.10	11283	-	-	15.5	Adj. 14.5	1.0 WET	107.0	1.82	Adj. 1.86	98.0
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													
11284	9.00	150	LOT 1851 7m Rear bdy, 3m Left bdy R.L.4.72	11284	-	-	14.5	Adj. 14.0	0.5 WET	103.5	1.86	Adj. 1.87	99.5
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date:8.11.17



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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41385
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	1/11/2017	Tested by	JC JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11285	9.30	150	LOT 1848 5m Rear bdy, 4m Left bdy R.L.4.90	11285	-	-	15.0	Adj. 14.0	1.0 WET	107.0	1.88	Adj. 1.88	100.0
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													
11286	9.30	150	LOT 1846 8m Rear bdy, 2m Right bdy R.L.4.96	11286	-	-	13.5	Adj. 13.5	-	100.0	1.94	Adj. 1.91	101.5
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													
11287	10.00	150	LOT 1853 9m Rear bdy, 3m Right bdy R.L.4.69	11287	-	-	13.5	Adj. 12.0	1.5 WET	112.5	1.94	Adj. 1.93	100.5
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													
11288	10.00	150	LOT 1854 9m Rear bdy, 3m Left bdy R.L.4.68	11288	-	-	14.5	Adj. 14.0	0.5 WET	103.5	1.89	Adj. 1.91	99.0
Material Description: LIGHT ORANGE-BROWN SILTY SANDY CLAY.													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date:8.11.17

Checked By: R MCGRANN

RMC



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date:8.11.17

Greg McGrann



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41451
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	6/11/2017	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11405	9.00	150	LOT 1872 6m Rear bdy, 4m Left bdy R.L.10.60	11405	-	-	9.0	Adj. 9.5	0.5 DRY	94.5	1.92	Adj. 2.02	95.0
Material Description: DARK BROWN SANDY CLAY.													
11406	9.30	150	LOT 1871 4m Rear bdy, 2m Right bdy R.L.10.17	11406	-	-	14.0	Adj. 14.5	0.5 DRY	96.5	1.70	Adj. 1.87	91.0
Material Description: LIGHT BROWN SILTY CLAY.													
11407	10.00	150	LOT 1870 2m Rear bdy, 2m Right bdy R.L.9.61	11407	-	-	16.5	Adj. 19.5	3.0 DRY	84.5	1.54	Adj. 1.70	90.5
Material Description: GREY-BROWN SILTY CLAY.													
11408	10.30	150	LOT 1869 3m Rear bdy, 2m Right bdy R.L.9.28	11408	-	-	17.5	Adj. 18.5	1.0 DRY	94.5	1.58	Adj. 1.71	92.5
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY.													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date:20.11.17

Checked By: R MCGRANN

RMC



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Accreditation No.2415

Greg McGrann/Manager

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Date:20.11.17

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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41452
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	7/11/2017	Tested by	JM LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11427	8.00	150	LOT 1868 3m Rear bdy, 3m Right bdy R.L.9.03	11427	-	-	17.5	Adj. 14.5	3.0 WET	120.5	1.61	Adj. 1.69	95.5
Material Description: REDDISH-BROWN & GREY SILTY CLAY													
11428	8.00	150	LOT 1867 4m Rear bdy, 4m Left bdy R.L.8.70	11428	-	-	18.5	Adj. 17.5	1.0 WET	105.5	1.57	Adj. 1.70	92.5
Material Description: REDDISH-BROWN & GREY SILTY CLAY													
11429	8.30	150	LOT 1866 2m Rear bdy, 4m Right bdy R.L.8.51	11429	-	-	18.5	Adj. 18.5	-	100.0	1.57	Adj. 1.70	92.5
Material Description: REDDISH-BROWN & GREY SILTY CLAY													
11430	8.30	150	LOT 1865 3m Rear bdy, 3m Right bdy R.L.8.26	11430	-	-	14.5	Adj. 17.0	2.5 DRY	85.5	1.67	Adj. 1.75	95.5
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS													
11431	9.00	150	LOT 1864 5m Rear bdy, 2m Left bdy R.L.8.19	11431	-	-	14.5	Adj. 16.5	2.0 DRY	88.0	1.69	Adj. 1.65	100.0
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS													
11432	9.00	150	LOT 1863 7m Rear bdy, 3m Left bdy R.L.8.03	11432	-	-	14.0	Adj. 15.0	1.0 DRY	93.5	1.64	Adj. 1.83	89.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 20.11.17

Checked By: R MCGRANN

RMC



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 20.11.17

Greg McGrann



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41453
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	7/11/2017	Tested by	LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11433	9.30	150	LOT 1862 7m Rear bdy, 4m Left bdy R.L.7.92	11433	-	-	19.0	Adj. 17.0	2.0 WET	112.0	1.73	Adj. 1.77	97.5
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 20.11.17

Checked By: R MCGRANN

RMC



Accredited for compliance with ISO/IEC 17025 – Testing.

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Greg McGrann/Manager

Approved Signatory

Date: 20.11.17

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41455
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	8/11/2017	Tested by	LM JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11444	8.00	150	LOT 1861 10m Rear bdy, 3m Left bdy R.L.7.73	11444	-	-	13.0	Adj. 15.0	2.0 DRY	86.5	1.83	Adj. 1.85	99.0
Material Description: LIGHT REDDISH-BROWN SILTY CLAY & ROCK FRAGMENTS													
11445	8.00	150	LOT 1860 10m Rear bdy, 2m Right bdy R.L.7.30	11445	-	-	16.0	Adj. 16.5	0.5 DRY	97.0	1.82	Adj. 1.77	103.0
Material Description: GREY-BROWN SILTY SANDY CLAY													
11446	8.30	150	LOT 1859 9m Rear bdy, 3m Right bdy R.L.6.72	11446	-	-	15.0	Adj. 14.5	0.5 WET	103.5	1.89	Adj. 1.84	102.5
Material Description: LIGHT BROWN SILTY CLAY													
11447	8.30	150	LOT 1858 7m Rear bdy, 3m Right bdy R.L.6.31	11447	-	-	14.5	Adj. 13.0	1.5 WET	111.5	1.79	Adj. 1.88	95.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY													
11448	9.00	150	LOT 1857 6m Rear bdy, 3m Right bdy R.L.5.86	11448	-	-	12.0	Adj. 16.5	4.5 DRY	72.5	1.64	Adj. 1.79	91.5
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY													
11449	9.00	150	LOT 1856 5m Rear bdy, 2m Right bdy R.L.5.69	11449	-	-	16.5	Adj. 14.5	2.0 WET	114.0	1.78	Adj. 1.84	96.5
Material Description: LIGHT BROWN SILTY SANDY CLAY													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 20.11.17

Checked By: R MCGRANN

RMc



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 20.11.17

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41456
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	8/11/2017	Tested by	LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11450	9.30	150	LOT 1855 5m Rear bdy, 5m Right bdy R.L.5.50	11450	-	-	17.5	Adj. 16.0	1.5 WET	109.5	1.76	Adj. 1.80	98.0
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 20.11.17

Checked By: R MCGRANN

RMC



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 20.11.17

Greg McGrann



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41457
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	9/11/2017	Tested by	JM LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11467 RETEST	10.45	150	LOT 1936 3m Rear bdy, 3m Right bdy R.L.5.60	11467	-	-	13.0	Adj. 14.5	1.5 DRY	89.5	1.87	Adj. 1.88	99.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTES													
11468 RETEST	10.45	150	LOT 1935 3m Rear bdy, 3m Left bdy R.L.5.74	11468	-	-	12.0	Adj. 14.5	2.5 DRY	83.0	1.89	Adj. 1.89	100.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTES													
11469 RETEST	11.15	150	LOT 1934 3m Rear bdy, 2m Right bdy R.L.5.86	11469	-	-	10.0	Adj. 12.5	2.5 DRY	80.0	1.94	Adj. 1.97	98.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTES													
11470	11.15	150	LOT 1933 1m Rear bdy, 2m Left bdy R.L.5.78	114701	-	-	10.5	Adj. 14.0	3.5 DRY	75.0	1.90	Adj. 1.91	99.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTES													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks: Tests 11467, 11468 & 11469 are retests for tests 11245, 11246 & 11247.

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 20.11.17

Checked By: R MCGRANN

RMc



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 20.11.17

Greg McGrann



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41490
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	25/11/2017	Tested by	JC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11720 RETEST	8.00	150	LOT 1849 6m Rear bdy, 4m Left bdy R.L.5.32	11720	-	-	13.5	Adj. 13.0	0.5 WET	104.0	1.90	Adj. 1.96	97.0
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

Remarks: **Test 11720 is a retest for test 11233.**

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 27.11.17

Checked By: R MCGRANN

RMc



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

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Date: 27.11.17

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FIELD DENSITY CERTIFICATE



Connemar Pty. Ltd.
ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41543
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	28/11/2017	Tested by	JM AC JC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11749 RETEST	8.30	150	LOT 1867 5m Rear bdy, 4m Left bdy R.L.8.67	11749	-	-	17.5	Adj. 18.5	1.0 DRY	94.5	1.78	Adj. 1.75	101.5
Material Description: REDDISH-BROWN SILTY CLAY & ROCK FRAGMENTS.													
11750 RETEST	8.30	150	LOT 1866 3m Rear bdy, 3m Right bdy R.L.8.50	11750	-	-	15.0	Adj. 16.5	1.5 DRY	91.0	1.80	Adj. 1.73	104.0
Material Description: LIGHT REDDISH-BROWN SILTY CLAY.													
11751 RETEST	8.30	150	LOT 1863 6m Rear bdy, 3m Left bdy R.L.8.06	11751	-	-	15.5	Adj. 15.5	-	100.0	1.82	Adj. 1.82	100.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY.													
11752	9.00	150	LOT 1853 11m Rear bdy, 3m Left bdy R.L.5.17	11752	-	-	12.0	Adj. 13.0	1.0 DRY	92.5	1.92	Adj. 1.91	100.5
Material Description: LIGHT BROWN SILTY CLAY.													
11753	9.00	150	LOT 1852 9m Rear bdy, 3m Right bdy R.L.4.91	11753	-	-	13.0	Adj. 12.5	0.5 WET	104.0	1.91	Adj. 1.86	102.5
Material Description: BROWN SILTY SANDY CLAY.													
11754	9.00	150	LOT 1837 6m Rear bdy, 3m Right bdy R.L.5.59	11754	-	-	13.0	Adj. 12.0	1.0 WET	108.5	1.95	Adj. 1.92	101.5
Material Description: BROWN SILTY SANDY CLAY.													

Remarks: Tests 11749, 11750 & 11751 are retests for tests 11428, 11429 & 11432.

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 4.12.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No. 2415	Greg McGrann/Manager Approved Signatory Date: 4.12.17 
Checked By: R MCGRANN <i>RMc</i>		



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41544
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	28/11/2017	Tested by	JC JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11755	9.30	150	LOT 1844 7m Rear bdy, 2m Left bdy R.L.5.37	11755	-	-	16.0	Adj. 17.0	1.0 DRY	94.0	1.75	Adj. 1.79	97.5
Material Description: REDDISH-BROWN SILTY CLAY.													
11756	9.30	150	LOT 1843 5m Rear bdy, 1m Right bdy R.L.5.52	11756	-	-	14.5	Adj. 14.5	-	100.0	1.82	Adj. 1.86	98.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY.													
11757	10.00	150	LOT 1837 8m Rear bdy, 2m Left bdy R.L.6.02	11757	-	-	15.0	Adj. 16.0	1.0 DRY	94.0	1.83	Adj. 1.81	101.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY.													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 4.12.17

Checked By: R MCGRANN

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Approved Signatory

Date: 4.12.17

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42025
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	7/12/2017	Tested by	JM LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11792	8.00	150	LOT 1916 5m Rear bdy, 3m Right bdy R.L.8.19	11792	-	-	14.0	Adj. 13.5	0.5 WET	103.5	1.89	Adj. 1.93	98.0
Material Description: BROWN SILTY SANDY CLAY.													
11793	8.00	150	LOT 1917 4m Rear bdy, 2m Left bdy R.L.7.80	11793	-	-	12.5	Adj. 11.5	1.0 WET	108.5	1.89	Adj. 1.95	97.0
Material Description: DARK BROWN SILTY SANDY CLAY.													
11794	8.30	150	LOT 1918 8m Rear bdy, 4m Right bdy R.L.7.60	11794	-	-	11.5	Adj. 13.5	2.0 DRY	85.0	1.87	Adj. 1.96	95.5
Material Description: DARK BROWN SILTY SANDY CLAY.													
11795	8.30	150	LOT 1920 3m Rear bdy, 2m Right bdy R.L.7.54	11795	-	-	8.0	Adj. 8.0	-	100.0	2.07	Adj. 2.07	100.0
Material Description: DARK BROWN SANDY CLAY.													
11796	9.00	150	LOT 1873 3m Rear bdy, 2m Left bdy R.L.9.79	11796	-	-	6.5	Adj. 8.0	1.5 DRY	81.5	2.06	Adj. 2.06	100.0
Material Description: DARK GREY SANDY CLAY.													
11797	9.00	150	LOT 1840 6m Rear bdy, 4m Left bdy R.L.5.63	11797	-	-	7.5	Adj. 8.0	0.5 DRY	94.0	2.11	Adj. 2.07	102.0
Material Description: DARK BROWN SANDY CLAY.													

Remarks: **Reissue of report no.41575.**

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date:13/4/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMC

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date:13/4/2018

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41576
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	7/12/2017	Tested by	LM JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11798	9.30	150	LOT 1839 7m Rear bdy, 2m Left bdy R.L.5.89	11798	-	-	10.0	Adj. 9.5	0.5 WET	105.5	1.96	Adj. 2.05	95.5
Material Description: DARK BROWN SANDY CLAY													
11799	9.30	150	LOT 1931 10m Front bdy, 3m Right bdy R.L.5.90	11977	-	-	19.5	Adj. 17.5	2.0 WET	111.5	1.69	Adj. 1.76	96.0
Material Description: REDDISH-BROWN SILTY CLAY													
11800	10.00	150	LOT 1932 4m Rear bdy, 2m Left bdy R.L.5.78	11800	-	-	9.0	Adj. 7.5	1.5 WET	120.0	2.02	Adj. 2.10	96.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS													
11801 RETEST	10.00	150	LOT 1869 3m Rear bdy, 3m Left bdy R.L.9.36	11801	-	-	17.0	Adj. 18.0	1.0 DRY	94.5	1.71	Adj. 1.78	96.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks: **Test 11801 is a retest for test 11408.**

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Prepared By: G MCGRANN

Date: 13.12.17

Checked By: R MCGRANN

RMc



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 13.12.17

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41577
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	7/12/2017	Tested by	JM LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11832	13.00	150	LOT 1848 10m Rear bdy, 3m Left bdy R.L.5.40	11832	-	-	13.5	Adj. 14.0	0.5 DRY	96.5	1.89	Adj. 1.87	101.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY													
11833	13.00	150	LOT 1850 8m Rear bdy, 4m Right bdy R.L.5.22	11833	-	-	15.0	Adj. 15.0	-	100.0	1.78	Adj. 1.83	97.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY													
11834	13.30	150	LOT 1851 11m Rear bdy, 3m Right bdy R.L.5.21	11834	-	-	14.0	Adj. 13.5	0.5 WET	103.5	1.85	Adj. 1.88	98.5
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY													
11835	13.30	150	LOT 1854 o/s 9m Rear bdy, 3m Left bdy R.L.5.20	11835	-	-	12.5	Adj. 11.5	1.0 WET	108.5	1.89	Adj. 1.95	97.0
Material Description: LIGHT YELLOW-BROWN SANDY CLAY & FINE ROCK FRAGMENTS													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 13.12.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 13.12.17

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41579
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	8/12/2017	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11859 RETEST	9.00	150	LOT 1870 3m Rear bdy, 2m Left bdy R.L.9.60	11859	-	-	18.0	Adj. 18.5	0.5 DRY	97.5	1.66	Adj. 1.70	97.5
Material Description: GREY-BROWN SILTY CLAY.													
11860 RETEST	9.30	150	LOT 1871 4m Rear bdy, 3m Left bdy R.L.10.10	11860	-	-	13.5	Adj. 12.5	1.0 WET	108.0	1.88	Adj. 1.92	98.0
Material Description: LIGHT BROWN SILTY SANDY CLAY.													
11861	10.00	150	LOT 1844 3m Rear bdy, 2m Right bdy R.L.5.71	11861	-	-	11.0	Adj. 11.0	-	100.0	1.84	Adj. 1.91	96.5
Material Description: DARK BROWN SILTY CLAY & ROCK FRAGMENTS.													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks: Tests 11859 & 11860 are retests for tests 11407 & 11406.

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date:14.12.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date:14.12.17

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41581
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	11/12/2017	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11871	8.00	150	LOT 1841 2m Rear bdy, 3m Right bdy R.L.5.52	11871	-	-	13.0	Adj. 14.0	1.0 DRY	93.0	1.81	Adj. 1.86	97.5
Material Description: LIGHT YELLOW-BROWN SILTY SANDY CLAY													
11872	8.30	150	LOT 1842 3m Rear bdy, 3m Left bdy R.L.5.49	11872	-	-	15.0	Adj. 17.5	2.0 DRY	88.5	1.71	Adj. 1.77	96.5
Material Description: LIGHT REDDISH-BROWN SILTY CLAY													
11873	9.00	150	LOT 1847 7m Rear bdy, 1m Left bdy R.L.5.48	11873	-	-	14.0	Adj. 14.5	0.5 DRY	96.5	1.83	Adj. 1.86	98.5
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
11874	9.30	150	LOT 1852 9m Rear bdy, 3m Left bdy R.L.5.30	11874	-	-	16.0	Adj. 16.0	-	100.0	1.81	Adj. 1.80	100.5
Material Description: LIGHT BROWN SILTY SANDY CLAY													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Prepared By: G MCGRANN

Date: 14.12.17

Checked By: R MCGRANN

RMc



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Date: 14.12.17

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41632
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	4/1/2018	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
11981	10.30	150	LOT 1877 5m Rear bdy, 7m Right bdy R.L.9.64	11981	-	-	17.5	Adj. 18.0	0.5 DRY	97.0	1.79	Adj. 1.76	101.5
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 9.1.18



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

RMc

Greg McGrann/Manager

Approved Signatory

Date: 9.1.18

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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42026
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	11/4/2018	Tested by	LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
13074	9.00	150	LOT 1917 8m Rear bdy, 2m Left bdy R.L.8.08	13074	-	-	15.0	Adj. 13.5	1.5 WET	111.0	1.87	Adj. 1.96	95.5
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
13075	9.30	150	LOT 1846 8m Rear bdy, 3m Left bdy R.L.5.42	13075	-	-	14.0	Adj. 13.0	1.0 WET	107.5	1.84	Adj. 1.92	96.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 13/4/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMC

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

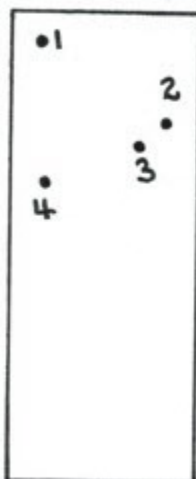
Date: 13/4/2018

Greg McGrann

EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 20A

LOT 1837



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11251)	30.10.17	o/s 2m Rear bdy, o/s 2m Left bdy. R.L.4.54.	95.5
2 (11269)	30.10.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.5.05.	102.0
3 (11754)	28.11.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.5.59.	101.5
4 (11757)	28.11.17	o/s 8m Rear bdy, o/s 2m Left bdy. R.L.6.02.	101.0

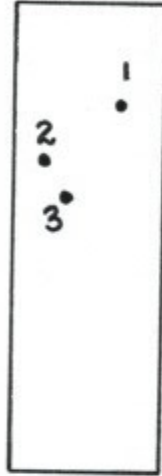
In our opinion fill on Lot 1837 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1838**



--- HAWES PL ---

Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11250)	30.10.17	o/s 4m Rear bdy, o/s 3m Right bdy. R.L.4.75.	96.0
2 (11266)	30.10.17	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.5.25.	95.5
3 (11268)	30.10.17	o/s 8m Rear bdy, o/s 3m Left bdy. R.L.5.77.	96.5

In our opinion fill on Lot 1838 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

GREG McGRANN

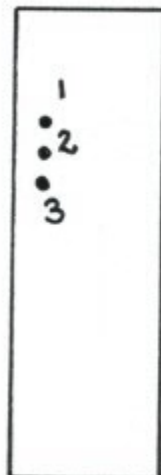


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 20A

LOT 1839



--- HAKES PL ---

Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11249)	30.10.17	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.5.10.	99.0
2 (11267)	30.10.17	o/s 6m Rear bdy, o/s 2m Left bdy. R.L.5.63.	96.5
3 (11798)	7.12.17	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.5.89.	95.5

In our opinion fill on Lot 1839 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1840**



--- HAYES PL ---

Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11248)	30.10.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.5.33.	96.0
2 (11797)	7.12.17	o/s 6m Rear bdy, o/s 4m Left bdy. R.L.5.63.	102.0

In our opinion fill on Lot 1840 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1841**



MOFFLIN PDE

Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11871)	11.12.17	o/s 2m Rear bdy, o/s 3m Right bdy. R.L.5.52.	97.5

In our opinion fill on Lot 1841 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1842**



MOFFLIN PDE

Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11872)	11.12.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.5.49.	96.5

In our opinion fill on Lot 1842 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1843**



--- MOFFLIN PDE ---

Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11756)	28.11.17	o/s 5m Rear bdy, o/s 1m Right bdy. R.L.5.52.	98.0

In our opinion fill on Lot 1843 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 20A

LOT 1844



-- MOFFLIN PDE --

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11755)	28.11.17	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.5.37.	97.5
2 (11861)	8.12.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.5.71.	96.5

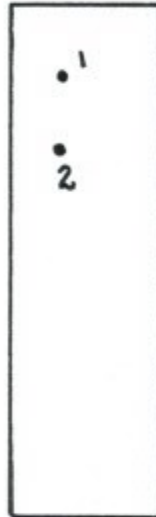
In our opinion fill on Lot 1844 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


 GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1845**



MOFFLIN PDE

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11216)	27.10.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.5.16.	97.5
2 (11235)	28.10.17	o/s 6m Rear bdy, o/s 3m Left bdy. R.L.5.62.	99.5

In our opinion fill on Lot 1845 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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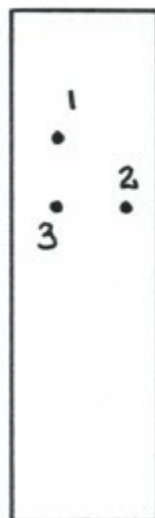


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 20A

LOT 1846



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11221)	27.10.17	o/s 5m Rear bdy, o/s 3m Left bdy. R.L.4.43.	97.0
2 (11286)	1.11.17	o/s 8m Rear bdy, o/s 2m Right bdy. R.L.4.96.	101.5
3 (13075)	11.04.18	o/s 8m Rear bdy, o/s 3m Left bdy. R.L.5.42.	96.0

In our opinion fill on Lot 1846 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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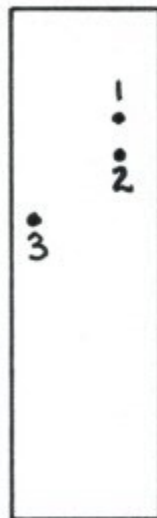


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 20A

LOT 1847



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11217)	27.10.17	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.4.47.	96.0
2 (11234)	28.10.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.4.95.	98.5
3 (11873)	11.12.17	o/s 7m Rear bdy, o/s 1m Left bdy. R.L.5.48.	98.5

In our opinion fill on Lot 1847 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.



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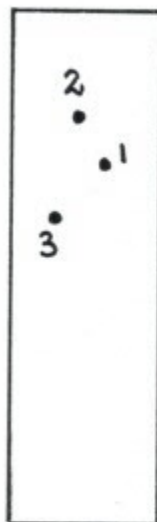


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 20A

LOT 1848



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11231)	27.10.17	o/s 7m Rear bdy, o/s 4m Right bdy. R.L.4.32.	100.5
2 (11285)	1.11.17	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.4.90.	100.0
3 (11832)	7.12.17	o/s 10m Rear bdy, o/s 3m Left bdy. R.L.5.40.	101.0

In our opinion fill on Lot 1848 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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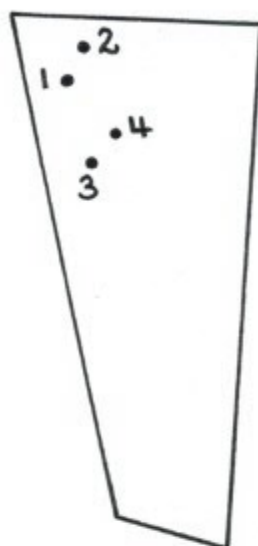


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 20A

LOT 1849



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11218)	27.10.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.4.41.	101.5
2 (11219)	27.10.17	o/s 2m Rear bdy, o/s 3m Left bdy. R.L.4.83.	100.0
3 (11233)	28.10.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.5.35.	91.0
4 (11720)	25.11.17	o/s 6m Rear bdy, o/s 4m Left bdy. R.L.5.35. Retest	97.0

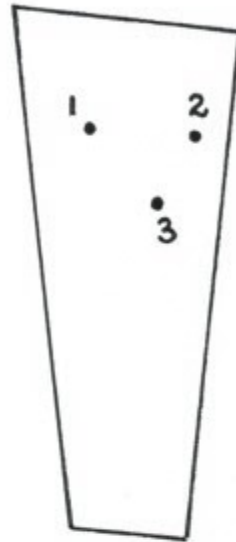
In our opinion fill on Lot 1849 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
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LOT 1850**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11220)	27.10.17	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.4.20.	99.5
2 (11281)	1.11.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.4.78.	96.0
3 (11833)	7.12.17	o/s 8m Rear bdy, o/s 4m Right bdy. R.L.5.22.	97.0

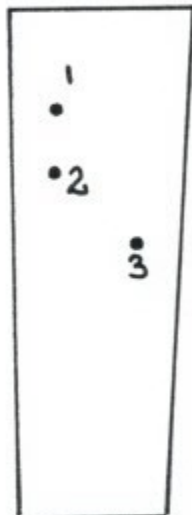
In our opinion fill on Lot 1850 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1851**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11230)	27.10.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.4.07.	96.5
2 (11284)	1.11.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.4.72.	99.5
3 (11834)	7.12.17	o/s 11m Rear bdy, o/s 3m Right bdy. R.L.5.21.	98.5

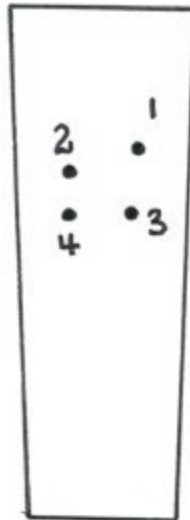
In our opinion fill on Lot 1851 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1852**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11232)	28.10.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.3.75.	99.0
2 (11280)	1.11.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.4.40.	96.0
3 (11753)	28.11.17	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.4.91.	102.5
4 (11874)	11.12.17	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.5.30.	100.5

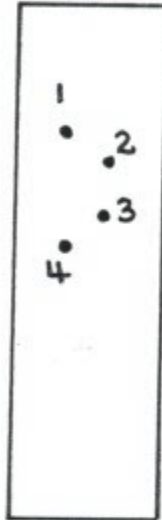
In our opinion fill on Lot 1852 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1853**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11229)	27.10.17	o/s 5m Rear bdy, o/s 3m Left bdy. R.L.3.55.	96.5
2 (11283)	1.11.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.4.10.	98.0
3 (11287)	1.11.17	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.4.69.	100.5
4 (11752)	28.11.17	o/s 11m Rear bdy, o/s 3m Left bdy. R.L.5.17.	100.5

In our opinion fill on Lot 1853 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

GREG McGRANN

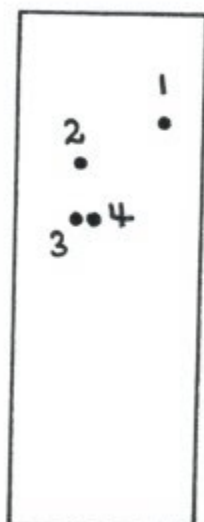


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EARTHWORKS SUMMARY REPORT

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LOT 1854



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11279)	1.11.17	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.3.44.	96.0
2 (11282)	1.11.17	o/s 6m Rear bdy, o/s 3m Left bdy. R.L.4.13.	100.0
3 (11288)	1.11.17	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.4.68.	99.0
4 (11835)	7.12.17	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.5.20.	97.0

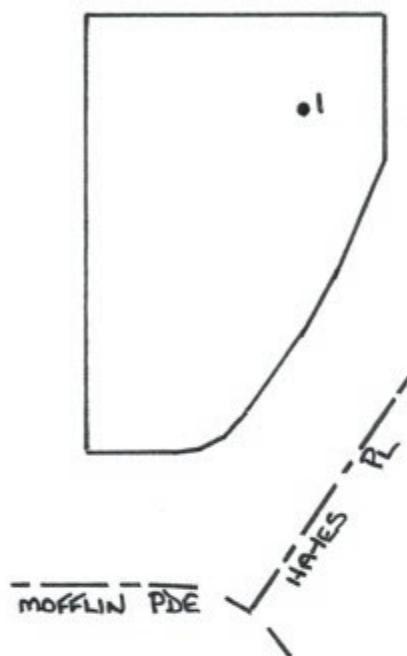
In our opinion fill on Lot 1854 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11450)	8.11.17	o/s 5m Rear bdy, o/s 5m Right bdy. R.L.5.50.	98.0

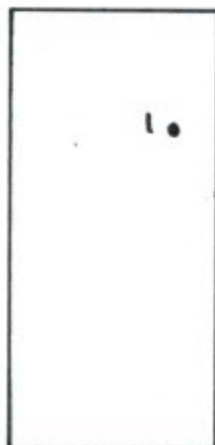
In our opinion fill on Lot 1855 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1856**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11449)	8.11.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.5.69.	96.5

In our opinion fill on Lot 1856 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11448)	8.11.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.5.86.	91.5

In our opinion fill on Lot 1857 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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CAPESTONE ESTATE – STAGE 20A
LOT 1858**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11447)	8.11.17	o/s 7m Rear bdy, o/s 3m Right bdy. R.L.6.31.	95.0

In our opinion fill on Lot 1858 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1859**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11446)	8.11.17	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.6.72.	102.5

In our opinion fill on Lot 1859 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.



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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1860**



--- MOFFLIN PDE ---

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11445)	8.11.17	o/s 10m Rear bdy, o/s 2m Right bdy. R.L.7.30.	103.0

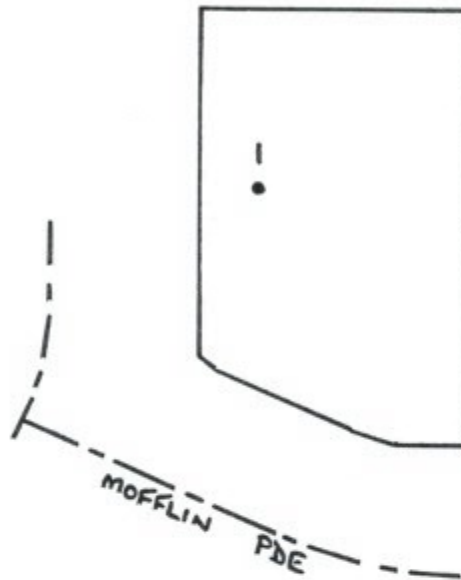
In our opinion fill on Lot 1860 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
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LOT 1861**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11444)	8.11.17	o/s 10m Rear bdy, o/s 3m Left bdy. R.L.7.73.	99.0

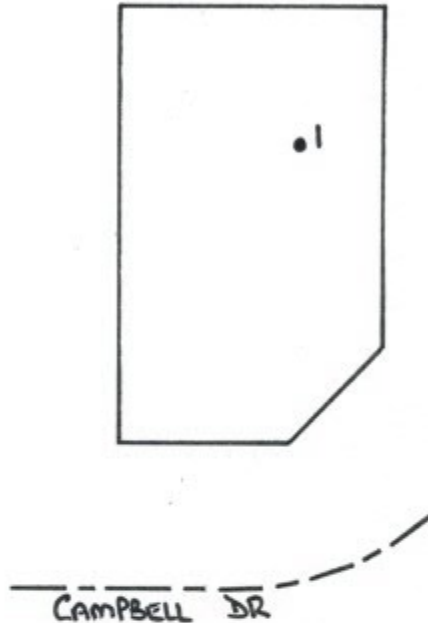
In our opinion fill on Lot 1861 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
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LOT 1862**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11433)	7.11.17	o/s 7m Rear bdy, o/s 4m Left bdy. R.L.7.92.	97.5

In our opinion fill on Lot 1862 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1863**



CAMPBELL DR

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11432)	7.11.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.8.03.	89.5
2 (11751)	28.11.17	o/s 6m Rear bdy, o/s 3m Left bdy. R.L.8.06. Retest	100.0

In our opinion fill on Lot 1863 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1864**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11431)	7.11.17	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.8.19.	100.0

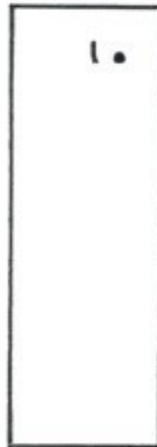
In our opinion fill on Lot 1864 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1865**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11430)	7.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.8.26.	95.5

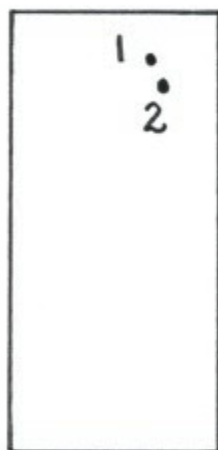
In our opinion fill on Lot 1865 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1866**



CAMPBELL DR

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11429)	7.11.17	o/s 2m Rear bdy, o/s 4m Right bdy. R.L.8.51.	92.5
2 (11750)	28.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.8.50. Retest	104.0

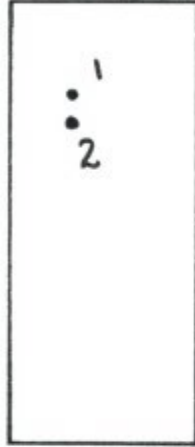
In our opinion fill on Lot 1866 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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CAPESTONE ESTATE – STAGE 20A
LOT 1867**



-- CAMPBELL DR --

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11428)	7.11.17	o/s 4m Rear bdy, o/s 4m Left bdy. R.L.8.70.	92.5
2 (11749)	28.11.17	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.8.67. Retest	101.5

In our opinion fill on Lot 1867 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LOT 1868**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11427)	7.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.9.03.	95.5

In our opinion fill on Lot 1868 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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LOT 1869**



--- CAMPBELL DR ---

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11408)	6.11.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.9.28.	92.5
2 (11801)	7.12.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.9.36. Retest	96.0

In our opinion fill on Lot 1869 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1870**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11407)	6.11.17	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.9.61.	90.5
2 (11859)	8.12.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.9.60. Retest	97.5

In our opinion fill on Lot 1870 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11406)	6.11.17	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.10.17.	91.0
2 (11860)	8.12.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.10.10. Retest	98.0

In our opinion fill on Lot 1871 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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CAPESTONE ESTATE – STAGE 20A
LOT 1872**



--- CAMPBELL DR ---

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11405)	6.11.17	o/s 6m Rear bdy, o/s 4m Left bdy. R.L.10.60.	95.0

In our opinion fill on Lot 1872 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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LOT 1873**



--- RICHARD RD ---

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11796)	7.12.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.9.79.	100.0

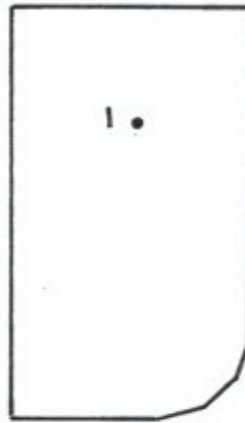
In our opinion fill on Lot 1873 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
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LOT 1877**



--- CAMPBELL --- DR ---

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11981)	4.01.18	o/s 5m Rear bdy, o/s 7m Right bdy. R.L.9.64.	101.5

In our opinion fill on Lot 1877 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
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LOT 1916**



- LUKIN RD -

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11792)	7.12.17	o/s 5m Rear bdy, o/s 3m Right bdy. R.L.8.19.	98.0

In our opinion fill on Lot 1916 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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EARTHWORKS SUMMARY REPORT
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LOT 1917



LUKIN RD

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11793)	7.12.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.7.80.	97.0
2 (13074)	11.04.18	o/s 8m Rear bdy, o/s 2m Left bdy. R.L.8.08.	95.5

In our opinion fill on Lot 1917 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LOT 1918**



— RICHARD — RD —

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11794)	7.12.17	o/s 8m Rear bdy, o/s 4m Right bdy. R.L.7.60.	95.5

In our opinion fill on Lot 1918 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LOT 1920**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11795)	7.12.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.7.54.	100.0

In our opinion fill on Lot 1920 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LOT 1931**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11799)	7.12.17	o/s 10m Front bdy, o/s 3m Right bdy. R.L.5.90.	96.0

In our opinion fill on Lot 1931 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1932**



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11800)	7.12.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.5.78.	96.0

In our opinion fill on Lot 1932 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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CAPESTONE ESTATE – STAGE 20A
LOT 1933**



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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11470)	9.11.17	o/s 1m Rear bdy, o/s 2m Left bdy. R.L.5.78.	99.5

In our opinion fill on Lot 1933 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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EARTHWORKS SUMMARY REPORT

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LOT 1934



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11247)	30.10.17	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.5.89.	92.5
2 (11469)	9.11.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.5.86. Retest	98.5

In our opinion fill on Lot 1934 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

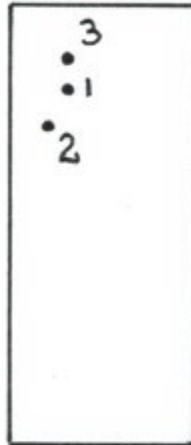


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 20A
LOT 1935**



STAFFORD ST

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11214)	26.10.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.5.41.	99.0
2 (11246)	30.10.17	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.5.72.	90.5
3 (11468)	9.11.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.5.74. Retest	100.0

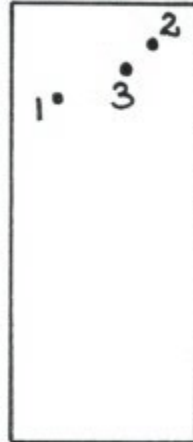
In our opinion fill on Lot 1935 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LOT 1936**



STAFFORD ST

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11215)	26.10.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.5.32.	96.5
2 (11245)	30.10.17	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.5.64.	91.0
3 (11467)	9.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.5.60. Retest	99.5

In our opinion fill on Lot 1936 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LOT 1937**



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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11244)	30.10.17	o/s 2m Rear bdy, o/s 3m Left bdy. R.L.5.43.	95.0

In our opinion fill on Lot 1937 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11243)	30.10.17	o/s 3m Rear bdy, o/s 4m Left bdy. R.L.5.35.	95.0

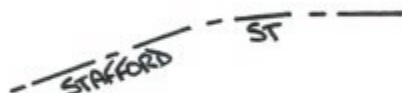
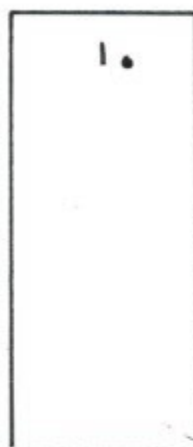
In our opinion fill on Lot 1938 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LOT 1939**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11242)	30.10.17	o/s 2m Rear bdy, o/s 4m Right bdy. R.L.5.32.	98.0

In our opinion fill on Lot 1939 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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LOT 1940**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11241)	30.10.17	o/s 3m Rear bdy, o/s 4m Left bdy. R.L.4.94.	98.5

In our opinion fill on Lot 1940 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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