

STAGE C2 - LOT FILL VIEWPOINT ESTATE HUNTLY

EARTHWORKS SUPERVISION REPORT

**FOR
INTEGRA CIVIL**

**GTS Report Number - 14C 0655 C2
July 2014**

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1 INTRODUCTION

Integra Civil commissioned Geotechnical Testing Services (GTS) to undertake a Level 1 Supervision (AS3798-2007) of the earthworks for the lot fill of Stage C2, Viewpoint Estate, Huntly.

Level 1 Testing was generally performed in line with AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development" and provides inspection of the construction of controlled fill and compaction testing in accordance with AS1289 "Methods of Testing Soils for Engineering Purposes". The Level 1 testing was undertaken by Geotechnicians with supervision provided by a Senior Geotechnical Engineer from GTS.

It is noted that there was a redesigned in the stage in regards to lot boundaries after completion of the fieldwork, however, this will not affect the status of the fill in this report.

2 SCOPE OF WORKS

2.1 Area of Work

Geotechnical Testing Services provided Level 1 inspection and testing of the engineered fill placed to raise the surface level of the building Lots 325 to 340 and 368 to 370. The depth of fill varied from around 600mm to around 2200mm. A site plan showing the location of the lots and tests is included in the Appendix.

2.2 Placement Specification

The placement of the fill and associated works generally followed the recommendations outlined in AS3798-2007 "Guidelines for Earthworks for Commercial and Residential Developments" and the construction drawings.

In summary, the earthworks comply with the following:

- The layers are to be compacted to at least 95% of the density ratio in accordance with AS1289 5.1.1 (or 5.7.1), based on Standard compaction.

The total areas are considered large scale (greater than 1500m²) and therefore a minimum of 1 test per 2500m² or 3 tests per visit was required in accordance with Table 8.1 of AS3798. As it is large scale, it is not necessary to achieve 1 test per lot per layer, however, it was ensured that all lots were tested at some stage. As such, the frequency of testing conducted exceeds the minimum requirements as is therefore deemed satisfactory.

It is noted that the fill was generally placed in two stages over lots 327 to 333 hence the increased number of tests on these lots.

3 INSPECTION AND TESTING

Inspection of the excavated base was conducted by a Geotechnical Engineer and it was observed that the unsuitable material (low strength, silt and root zone material) had been removed and the base consisted of Silty Clay material.

Level 1 inspection and testing was undertaken by a geotechnician from GTS who nominated the timing and location of the in-situ density tests. The approximate location of each test is recorded on the test reports.

Laboratory compaction testing was undertaken on a one to one basis at our Bendigo laboratory. A summary of the results of the compaction control testing is presented in a table below with the full NATA endorsed test reports included in the Appendix.

4 SUMMARY OF TEST RESULTS

Project No.	Report No.	Test Date.	Location.	Reduced Level (mm)	Moisture Variation %O.M.C	Hilf Density Ratio %
1	13B 1092A	22/5/13	Lot 334	1900	4.0 dry	101.0
2	13B 1092E	22/5/13	Lot 334	1500	2.0 dry	98.0
3	13B 1092F	22/5/13	Lot335/336	1500	4.5 dry	99.5
4	13B 1104A	23/5/13	Lot 334	1200	3.0 dry	97.5
5	13B 1104B	23/5/13	Lot 335	1200	0.5 dry	101.0
6	13B 1104C	23/5/13	Lot 336	1200	3.0 dry	100.0
7	13B 1104D	23/5/13	Lot 337	1200	3.5 dry	101.5
8	13B 1104E	23/5/13	Lot 334	900	2.0 dry	97.0
9	13B 1104F	23/5/13	Lot 335	900	1.5 dry	95.0
10	13B 1104G	23/5/13	Lot 336	900	2.5 dry	100.0
11	13B 1104H	23/5/13	Lot 337	900	2.0 dry	96.5
12	13B 1128A	27/5/13	Lot 337/338	600	2.5 dry	97.5
13	13B 1128B	27/5/13	Lot 339	600	2.5 dry	96.0
14	13B 1128C	27/5/13	Lot 340	600	1.0 dry	94.0
15	13B 1128D	27/5/13	Lot 368	600	3.5 dry	102.0
16	13B 1128E	27/5/13	Lot 369	600	4.5 dry	103.5
17	13B 1146A	29/5/13	Lot 336	300	3.0 dry	98.0
18	13B 1146B	29/5/13	Lot 337	300	3.0 dry	97.5
19	13B 1146C	29/5/13	Lot 338	300	0.5 dry	101.0
20 (RT14)	13B 1146D	29/5/13	Lot 339/340	600	2.0 dry	97.0
21	13B 1146E	29/5/13	Lot 340	300	2.0 dry	100.5
22	13B 1146F	29/5/13	Lot 368	300	2.0 dry	99.5
23	13B 1146G	29/5/13	Lot 369	300	4.0 dry	98.0
24	13B 1146H	29/5/13	Lot 370	300	2.5 dry	96.5
25	13B 2169A	8/10/13	Lot 370	FSL	0.5 wet	101.5
26	13B 2169B	8/10/13	Lot 368	FSL	0.5 dry	101.0
27	13B 2169C	8/10/13	Lot 338	FSL	0.5 wet	100.0
28	13B 2169D	8/10/13	Lot 336	FSL	1.5 dry	97.0

Project No.	Report No.	Test Date.	Location.	Reduced Level (mm)	Moisture Variation %O.M.C	Hilf Density Ratio %
29	13B2272B	23/10/13	Lot 325	-700	2.5 Dry	102.5
30	13B2278C	24/10/13	Lot 325	-400	3.0 Dry	104.0
31	13B2278D	24/10/13	Lot 326	-400	2.5 Dry	102.0
32	13B2328C	28/10/13	Lot 325	FSL	4.5 Dry	100.5
33	13B2328D	28/10/13	Lot 326	FSL	4.5 Dry	99.5
34	13B2328E	28/10/13	Lot 327	FSL	4.0 Dry	96.0
35	13B2339A	29/10/13	Lot 327	-400	5.0 Dry	107.0
36	13B2340A	30/10/13	Lot 327	FSL	4.0 Dry	97.0
37	13B2501B	20/11/13	Lot 328	-1300	2.5 Dry	103.0
38	13B2501C	20/11/13	Lot 327	-1000	3.5 Dry	100.0
39	13B2519B	22/11/13	Lot 327	-600	5.0 Dry	102.5
40	13B2519C	22/11/13	Lot 328	-600	4.0 Dry	101.5
41	13B2547B	26/11/13	Lot 330	-1000	2.5 Dry	98.5
42	13B2547D	26/11/13	Lot 327/328	-600	2.5 Dry	98.0
43	13B2547E	26/11/13	Lot 329	-600	4.0 Dry	104.0
44	13B2553E	26/11/13	Lot 327	-300	5.0 Dry	104.0
45	13B2553F	26/11/13	Lot 329	-300	4.5 Dry	105.5
46	13B2477B	19/11/13	Lot 327	-1300	3.0 Dry	96.0
47	13B2477C	19/11/13	Lot 328	-1600	4.0 Dry	100.0
48	14B0002A	8/1/14	Lot 329	-1700	0.0 Wet	96.0
49	14B0002B	8/1/14	Lot 330	-1700	2.0 Dry	99.5
50	14B0004A	9/1/14	Lot 329	-1400	3.0 Dry	101.0
51	14B0004B	9/1/14	Lot 330	-1400	3.0 Dry	101.0
52	14B0004C	9/1/14	Lot 331	-1400	2.0 Dry	98.5
53	14B0004D	9/1/14	Lot 332	-1400	3.0 Dry	98.0
54	14B0009A	10/1/14	Lot 330	-1100	4.0 Dry	97.5
55	14B0009C	10/1/14	Lot 331	-1100	3.5 Dry	102.5
56	14B0009D	10/1/14	Lot 332	-1100	3.0 Dry	99.0
57	14B0119D	3/2/14	Lot 333	-1500	2.5 Dry	98.5
58	14B0119E	3/2/14	Lot 331	-1500	2.0 Dry	95.5
59	14B0119F	3/2/14	Lot 330	-1500	3.5 Dry	96.5
60	14B0119G	3/2/14	Lot 329	-1500	4.5 Dry	97.0
61	14B0204C	14/2/14	Lot 327	FSL	1.5 Dry	100.0
62	14B0204D	14/2/14	Lot 328	FSL	1.5 Dry	100.5
63	14B0218A	17/2/14	Lot 329	-1000	1.5 Dry	98.0
64	14B0218B	17/2/14	Lot 331	-1000	1.5 Dry	98.0
65	14B0218C	17/2/14	Lot 332	-1000	1.5 Dry	101.5
66	14B0218D	17/2/14	Lot 333	-1000	1.5 Dry	98.0
67	14B0223A	18/2/14	Lot 329	-700	2.0 Dry	99.0
68	14B0223B	18/2/14	Lot 331	-700	2.0 Dry	98.0
69	14B0223C	18/2/14	Lot 332	-700	0.0 Wet	98.5
70	14B0223D	18/2/14	Lot 333	-700	2.5 Dry	96.5
71	14B0251A	19/2/14	Lot 329/330	-400	1.5 Dry	96.5
72	14B0251B	19/2/14	Lot 331	-400	2.0 Dry	97.0
73	14B0251C	19/2/14	Lot 332	-400	0.0 Dry	95.0

Project No.	Report No.	Test Date.	Location.	Reduced Level (mm)	Moisture Variation %O.M.C	Hilf Density Ratio %
74	14B0251D	19/2/14	Lot 333	-400	2.5 Dry	96.5
75	14B0251E	19/2/14	Lot 334/335	-400	3.0 Dry	97.5
76	14B0293A	25/2/14	Lot 328	FSL	4.5 Dry	101.0
77	14B0293B	25/2/14	Lot 329/330	FSL	4.5 Dry	100.5
78	14B0293C	25/2/14	Lot 331	FSL	4.0 Dry	98.5
79	14B0293D	25/2/14	Lot 332	FSL	3.5 Dry	97.0
80	14B0293E	25/2/14	Lot 333	FSL	3.0 Dry	96.5
81	14B0582A	16/4/14	Lot 328	-1000	2.0 Wet	102.0
82	14B0582B	16/4/14	Lot 330	-1000	3.0 Dry	102.0
83	14B0582C	16/4/14	Lot 331	-1000	2.0 Dry	97.0
84	14B0582D	16/4/14	Lot 333	-1000	3.0 Dry	98.0
85	14B0582E	16/4/14	Lot 334	-1000	0.0 Dry	95.5
86	14B0666A	7/5/14	Lot 336	-700	0.0 Dry	102.5
87	14B0666B	7/5/14	Lot 334/335	-700	0.0 Dry	100.0
88	14B0672A	8/5/14	Lot 338	-400	2.5 Dry	107.0
89	14B0672B	8/5/14	Lot 337	-400	2.0 Dry	102.5
90	14B0672C	8/5/14	Lot 335/336	-400	0.5 Wet	104.5
91	14B0672D	8/5/14	Lot 335	-400	0.5 Dry	101.5
92	14B0672E	8/5/14	Lot 334	-400	0.5 Dry	104.0
93	14B0672F	8/5/14	Lot 332/333	-400	2.0 Dry	104.0
94	14B0672G	8/5/14	Lot 331	-400	0.5 Dry	103.5
95	14B0672H	8/5/14	Lot 330	-400	0.5 Dry	103.0
96	14B0672I	8/5/14	Lot 329	-400	0.5 Dry	103.5
97	14B0672J	8/5/14	Lot 327	-400	2.0 Dry	104.0
98	14B0688A	9/5/14	Lot 328	FSL	0.0 Wet	105.0
99	14B0688B	9/5/14	Lot 330	FSL	0.5 Wet	99.5
100	14B0688C	9/5/14	Lot 331	FSL	0.0 Wet	103.0
101	14B0706A	13/5/14	Lot 332	FSL	0.5 Dry	98.5
102	14B0706B	13/5/14	Lot 334	FSL	2.5 Dry	104.0
103	14B0706C	13/5/14	Lot 335	FSL	3.0 Dry	107.5
104	14B0706D	13/5/14	Lot 336	FSL	4.5 Dry	104.5
105	14B0706E	13/5/14	Lot 337	FSL	3.5 Dry	100.0
106	14B0706F	13/5/14	Lot 338	FSL	2.5 Dry	100.5
107	14B0706G	13/5/14	Lot 339	FSL	4.5 Dry	101.0

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of fill for the building Lots 325 to 340 and 368 to 370 of Stage C2, Viewpoint Estate. The placement of fill and construction techniques adopted was observed throughout the project.

Based on observations made by GTS personnel and the results of field and laboratory tests, we consider that the fill in the above mentioned lots has been placed and compacted satisfactorily and is considered to be engineered or controlled fill. Subject to individual Site Classifications in accordance with AS2870-2011, the controlled fill material is deemed suitable founding material for residential structures. It is noted that top soiling of the lots may have been conducted after the Level 1 Supervision. Hence any top soil placed is not considered controlled fill.

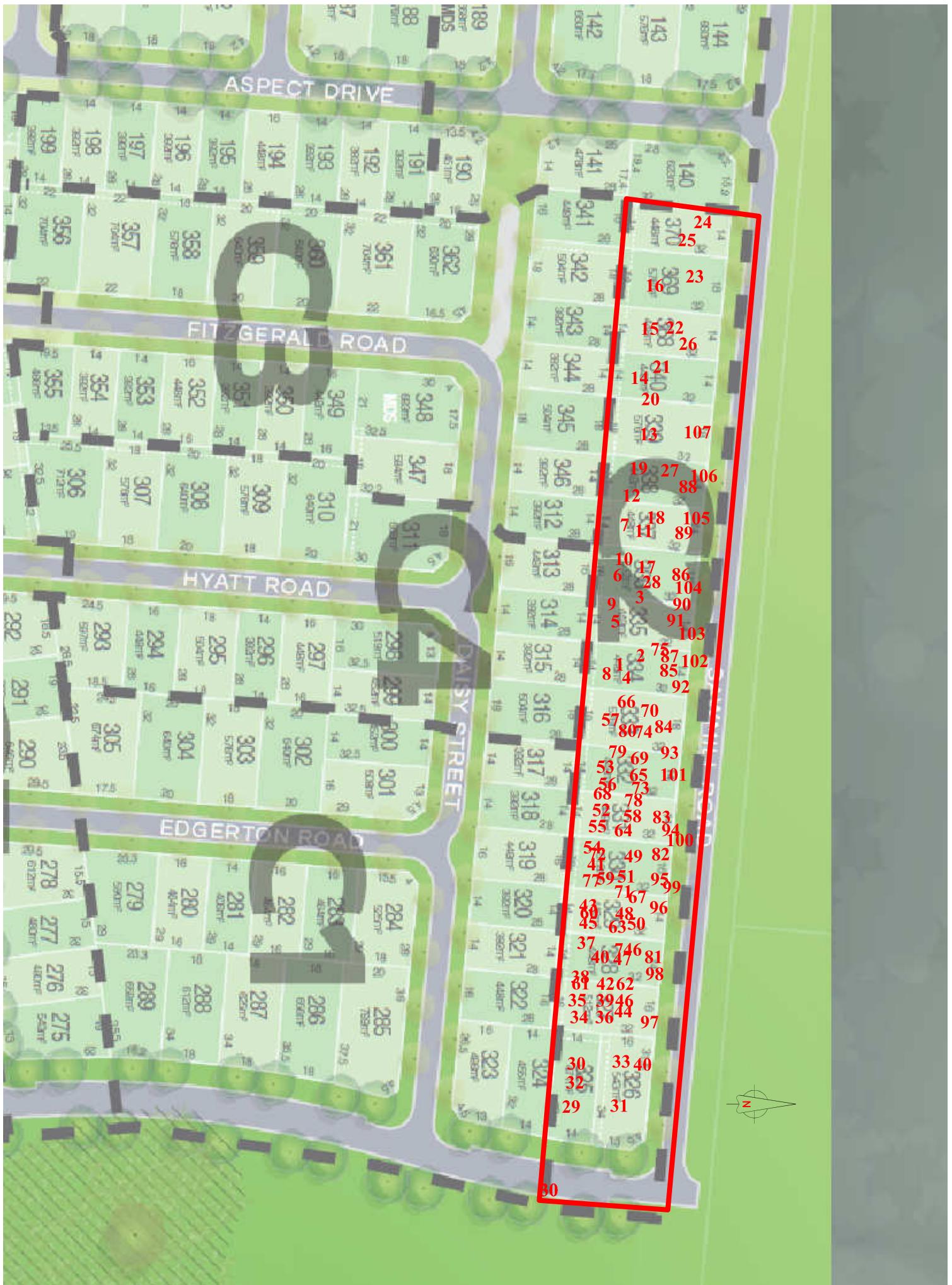


Shane Hampton (BE(Hons))

Senior Geotechnical Engineer

APPENDIX

Site Location and Test Reports



TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2339 (Final)
		Sheet	1 of 2
		Date of Report:	1 Nov 2013

Project:	View Point Estate-Huntly				
Location:	House Blocks				
Lot Number:	*				
Layer Thickness: (mm)	300mm				
Depth Below FSL/CSL:	400mm				
Compaction Type:	Standard				
Date Sampled:	29/10/13				
Sampling Method:	AS1289.1.2.1 part 6.4b				
Material description:	13B2339 /A	Brown silty sandy clay			
	/B				
	/C				
	/D				
	/E				
	/F				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:			
Test Number:	13B2339A	*	*	*	*
Hilf Density Ratio (%):	107.0	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J.Milne

Date:

1 November, 2013

The results of the tests included in this document are traceable to Australian/National Standards. Accredited for compliance with ISO/IEC 17025.

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2339 (Final)
		Sheet	2 of 2
		Date of Report:	1 Nov 2013

Test Number:	13B2339A	*	*	*	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	11.15am	*	*	*	*	*
Probe Depth: (mm)	250	*	*	*	*	*
Site: Chainage	Map	*	*	*	*	*
Reduced Level (mm)	-400	*	*	*	*	*
Offset / Centre Line	*	*	*	*	*	*
#Eastings:55026	3123	*	*	*	*	*
#Northings:593	9589	*	*	*	*	*
Percentage Oversize Wet:	0.0	*	*	*	*	*
Oversize Sieve Size: (mm)	19mm	*	*	*	*	*
Field Wet Density: t/m ³	2.15	*	*	*	*	*
Peak Converted Wet Density: t/m ³	2.01	*	*	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	5.0dry	*	*	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	107.0	*	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

Date: 1 November, 2013

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2340 (Final)
		Sheet	1 of 2
		Date of Report:	1 Nov 2013

Project:	Viewpoint Estate Huntly				
Location:	House Block				
Lot Number:	*				
Layer Thickness: (mm)	300mm				
Depth Below FSL/CSL:	FSL				
Compaction Type:	Standard				
Date Sampled:	30/10/13				
Sampling Method:	AS1289.1.2.1 part 6.4b				
Material description:	13B2340 /A	Brown silty sandy clay			
	/B				
	/C				
	/D				
	/E				
	/F				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:			
Test Number:	13B2340A	*	*	*	*
Hilf Density Ratio (%):	97.0	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J.Milne

Date:

1 November, 2013

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2340 (Final)
		Sheet	2 of 2
		Date of Report:	1 Nov 2013

Test Number:	13B2340A	*	*	*	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	11.20am	*	*	*	*	*
Probe Depth: (mm)	250	*	*	*	*	*
Site: Chainage	Map	*	*	*	*	*
Reduced Level (mm)	FSL	*	*	*	*	*
Offset / Centre Line	*	*	*	*	*	*
#Eastings:55026	3122	*	*	*	*	*
#Northings:593	9585	*	*	*	*	*
Percentage Oversize Wet:	0.0	*	*	*	*	*
Oversize Sieve Size: (mm)	19mm	*	*	*	*	*
Field Wet Density: t/m ³	2.05	*	*	*	*	*
Peak Converted Wet Density: t/m ³	2.11	*	*	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.0dry	*	*	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%) :	97.0	*	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J.Milne

Date: 1 November, 2013

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2477 Final
		Sheet	1 of 2
		Date of Report:	22-Nov-2013

Project:	View Point Estate, Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300					
Depth Below FSL/CSL:	-1300/-1600					
Compaction Type:	Standard					
Date Sampled:	19/11/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2477 /A	Mottled silty clay				
	13B2477 /B	Mottled silty clay				
	13B2477 /C	Mottled silty clay				
	13B2477 /D	Mottled silty clay				
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	13B2477A	13B2477B	13B2477C	13B2477D	*	*
Hilf Density Ratio (%):	99.0	96.0	100.0	99.0	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P. Mott

Date: 22 November, 2013

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2477 Final
		Sheet	2 of 2
		Date of Report:	22-Nov-2013

Test Number:	13B2477A	13B2477B	13B2477C	13B2477D	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	2.05pm	2.15pm	2.25pm	2.35pm	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage	*	*	*	*	*	*
Reduced Level (mm)	1300	1300	1600	1600	*	*
Offset / Centre Line	*	*	*	*	*	*
#Eastings:550263	109	114	094	095	*	*
#Northings:5939	558	567	569	555	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	2.03	2.00	2.04	2.03	*	*
Peak Converted Wet Density: t/m ³	2.05	2.09	2.04	2.05	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	3.0 Dry	3.0 Dry	4.0 Dry	3.5 Dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	99.0	96.0	100.0	99.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

B.P. Mott

B.P. Mott

Date:22 November, 2013

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Laboratory accreditation number 842.

Offices: Bendigo, Echuca, Gympie and Noosaville

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TEST REPORT:



GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2501 (Final)
		Sheet	1 of 4
		Date of Report:	22 Nov 2013

Project:	View Point Estate, Huntly					
Location:	House Block					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	Various					
Compaction Type:	Standard					
Date Sampled:	20/11/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2501 /A	Mottled silty clay				
	13B2501 /B	Mottled silty clay				
	13B2501 /C	Mottled silty clay				
	13B2501 /D	Mottled silty clay				
	13B2501 /E	Mottled silty clay				
	13B2501 /F	Mottled silty clay				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	13B2501A	13B2501B	13B2501C	13B2501D	13B2501E	13B2501F
Hilf Density Ratio (%):	96.0	103.0	100.0	102.5	97.5	97.5

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J. Milne

Date:

22 November, 2013

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2501 (Final)
		Sheet	2 of 4
		Date of Report:	22 Nov 2013

Test Number:	13B2501A	13B2501B	13B2501C	13B2501D	13B2501E	13B2501F
Project Test N ^o	*	*	*	*	*	*
Time of Test:	3.00pm	3.10pm	3.30pm	3.40pm	3.45pm	3.55pm
Probe Depth: (mm)	275	275	275	275	275	275
Site: Chainage	*	*	*	*	*	*
Reduced Level (mm)	-1300	-1300	-1000	-1000	-300	-300
Offset / Centre Line	*	*	*	*	*	*
#Eastings:550263	096	096	111	114	964	955
#Northings:5939	555	576	574	550	477	454
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	1.98	2.17	2.05	2.08	1.99	1.99
Peak Converted Wet Density: t/m ³	2.06	2.10	2.06	2.03	2.03	2.03
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	3.5dry	2.5dry	3.5dry	2.5dry	4.0dry	4.0dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	96.0	103.0	100.0	102.5	97.5	97.5

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

Date: 22 November, 2013

Client:	McKinnon Earthmoving	Report N ^o	13B/2501 (Final)
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GEOTECHNICAL
 TESTING SERVICES PTY LTD

2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	3 of 4
	Date of Report:	22 Nov 2013

Project:	View Point Estate, Huntly					
Location:	House Block					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	Various					
Compaction Type:	Standard					
Date Sampled:	20/11/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2501	/G	Mottled silty clay			
	13B2501	/H	Mottled silty clay			
		/I				
		/J				
		/K				
		/L				
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	13B2501G	13B2501H	*	*	*	*
Hilf Density Ratio (%):	98.0	100.0	*	*	*	*

As per: AS 1289 5.7.1 5.8.1

Approved Signatory:

C.J. Milne

Date:

22 November, 2013

Client:	McKinnon Earthmoving	Report N ^o	13B/2501 (Final)
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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	4 of 4
	Date of Report:	22 Nov 2013

Test Number:	13B2501G	13B2501H	*	*	*	*
Project Test N ^o	*	Retest	*	*	*	*
Time of Test:	4.05pm	4.15pm	*	*	*	*
Probe Depth: (mm)	275	275	*	*	*	*
Site: Chainage	*	*	*	*	*	*
Reduced Level (mm)	-300	-600	*	*	*	*
Offset / Centre Line	*	*	*	*	*	*
#Eastings:550263	936	938	*	*	*	*
#Northings:5939	473	466	*	*	*	*
Percentage Oversize Wet:	0.0	0.0	*	*	*	*
Oversize Sieve Size: (mm)	19mm	19mm	*	*	*	*
Field Wet Density: t/m ³	1.98	2.02	*	*	*	*
Peak Converted Wet Density: t/m ³	2.02	2.02	*	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.0dry	3.0dry	*	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	98.0	100.0	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2519 (Final)
		Sheet	1 of 2
		Date of Report:	26 Nov 2013

Project:	Viewpoint Estate, Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	*					
Compaction Type:	Standard					
Date Sampled:	22/11/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2519 /A	Brown silty gravelly clay				
	13B2519 /B	Brown silty gravelly clay				
	13B2519 /C	Brown silty gravelly clay				
	13B2519 /D	Brown silty gravelly clay				
	13B2519 /E	Brown silty gravelly clay				
	/F					
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	13B2519A	13B2519B	13B2519C	13B2519D	13E2519E	*
Hilf Density Ratio (%):	102.0	102.5	101.5	98.0	97.0	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P.Mott

Date: 26 November, 2013

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2519 (Final)
		Sheet	2 of 2
		Date of Report:	26 Nov 2013

Test Number:	13B2519A	13B2519B	13B2519C	13B2519D	13E2519E	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	1.40pm	1.45pm	1.50pm	1.55pm	2.00pm	*
Probe Depth: (mm)	250	250	250	250	250	*
Site: Chainage	Map	Map	Map	Map	Map	*
Reduced Level (mm)	-600	-600	-600	-600	-2000	*
Offset / Centre Line	*	*	*	*	*	*
#Eastings:55026	3113	3112	3100	3103	3062	*
#Northings:593	9562	9573	9582	9554	9566	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	*
Field Wet Density: t/m ³	2.04	2.04	2.05	2.00	2.01	*
Peak Converted Wet Density: t/m ³	2.00	2.00	2.02	2.04	2.07	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.5dry	5.0dry	4.0dry	4.0dry	2.5dry	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	102.0	102.5	101.5	98.0	97.0	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

B.P.Mott

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0002 (Final)
		Sheet	1 of 2
		Date of Report:	14 Jan 2014

Project:	View Point Estate Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	200-300mm					
Depth Below FSL/CSL:	*					
Compaction Type:	Standard					
Date Sampled:	8/1/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0002 /A	Brown red/silty gravelly clay				
	14B0002 /B	Brown red/silty gravelly clay				
	14B0002 /C	Brown red/silty gravelly clay				
	14B0002 /D	Brown red/silty gravelly clay				
	14B0002 /E	Brown red/silty gravelly clay				
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0002A	14B0002B	14B0002C	14B0002D	14B0002E	*
Hilf Density Ratio (%):	96.0	99.5	98.5	99.5	103.5	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J. Milne

Date:

14 January, 2014

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TEST REPORT:



GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0002 (Final)
		Sheet	2 of 2
		Date of Report:	14 Jan 2014

Test Number:	14B0002A	14B0002B	14B0002C	14B0002D	14B0002E	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	11.20am	11.30am	11.35am	11.45am	11.55am	*
Probe Depth: (mm)	175	275	275	275	275	*
Site: Chainage	*	*	*	*	*	*
Reduced Level (mm)	-1700	-1700	-2200	-2200	-2200	*
Offset / Centre Line	CL	CL	CL	CL	CL	*
#Eastings:55026	3074	3057	3050	3041	3030	*
#Northings:593	9582	9586	9559	9557	9562	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	*
Field Wet Density: t/m ³	1.94	2.03	1.92	1.93	2.00	*
Peak Converted Wet Density: t/m ³	2.02	2.04	1.94	1.94	1.94	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	0.0wet	2.0dry	0.5dry	2.5dry	2.0dry	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	96.0	99.5	98.5	99.5	103.5	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

Date: 14 January, 2014

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0004 (Final)
		Sheet	1 of 2
		Date of Report:	17 Jan 2014

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	-1400mm					
Compaction Type:	Standard					
Date Sampled:	9/1/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0004 /A	Mottled silty gravelly clay				
	14B0004 /B	Mottled silty gravelly clay				
	14B0004 /C	Mottled silty gravelly clay				
	14B0004 /D	Mottled silty gravelly clay				
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0004A	14B0004B	14B0004C	14B0004D	*	*
Hilf Density Ratio (%):	101.0	101.0	98.5	98.0	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J. Milne

Date:

17 January, 2014

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 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0004 (Final)
		Sheet	2 of 2
		Date of Report:	17 Jan 2014

Test Number:	14B0004A	14B0004B	14B0004C	14B0004D	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	2.30pm	2.40pm	2.50pm	2.55pm	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage-Saw Mill Road	East End	East End	East End	East End	*	*
Reduced Level (mm)	-1400	-1400	-1400	-1400	*	*
Offset / Centre Line	CL	CL	CL	CL	*	*
#Eastings:55026	3077	3064	3044	3029	*	*
#Northings:593	9583	9584	9585	9587	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	2.00	1.99	1.98	1.95	*	*
Peak Converted Wet Density: t/m ³	1.98	1.97	2.01	1.99	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	3.0dry	3.0dry	2.0dry	3.0dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	101.0	101.0	98.5	98.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J.Milne

Date:17 January, 2014

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 PO Box 555, Golden Square, 3555 Ph (03) 5441 4881, Fax (03) 5441 5089



Laboratory accreditation number 842.

Offices: Bendigo, Echuca, Gympie and Noosaville

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0009 (Final)
		Sheet	1 of 2
		Date of Report:	17 Jan 2014

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	1100mm					
Compaction Type:	Standard					
Date Sampled:	10/1/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0009 /A	Mottled red/brown white silty clay				
	14B0009 /B	Mottled red/brown white silty clay				
	14B0009 /C	Mottled red/brown white silty clay				
	14B0009 /D	Mottled red/brown white silty clay				
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0009A	14B0009B	14B0009C	14B0009D	*	*
Hilf Density Ratio (%):	97.5	100.5	102.5	99.0	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J. Milne

Date:

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0009 (Final)
		Sheet	2 of 2
		Date of Report:	17 Jan 2014

Test Number:	14B0009A	14B0009B	14B0009C	14B0009D	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	2.50pm	2.55pm	3.00pm	3.05pm	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage-Saw Mill Road	East End	East End	East End	East End	*	*
Reduced Level (mm)	-1100	-1100	-1100	-1100	*	*
Offset / Centre Line	*	*	*	*	*	*
#Eastings:55026	3075	3060	3050	3035	*	*
#Northings:593	9585	9548	9591	9590	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	1.94	1.97	2.03	1.93	*	*
Peak Converted Wet Density: t/m ³	1.98	1.96	1.97	1.96	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.0dry	3.0dry	3.5dry	3.0dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	97.5	100.5	102.5	99.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

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TEST REPORT:**GEOTECHNICAL**
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0119 (Final)
		Sheet	1 of 2
		Date of Report:	11 Feb 2014
		Revision No:	1

Project:	View Point Estate, Huntly						
Location:	House Blocks						
Lot Number:	*						
Layer Thickness:	300mm						
Depth Below FSL/CSL:	-1800 / -1500						
Compaction Type:	Standard						
Date Sampled:	3/2/14						
Sampling Method:	AS1289.1.2.1 part 6.4b						
Material description:	14B/0119	/A	Mottled silty clay some gravel				
	14B/0119	/B	Mottled silty clay some gravel				
	14B/0119	/C	Mottled silty clay some gravel				
	14B/0119	/D	Mottled silty clay some gravel				
	14B/0119	/E	Mottled silty clay some gravel				
	14B/0119	/F	Mottled silty clay some gravel				
	14B/0119	/G	Mottled silty clay some gravel				
Material Stabilised:	No		If Stabilised Time from				*
Stabilisation to Lab Test:							
Test Number:	14B0119A	14B0119B	14B0119C	14B0119D	14B0119E	14B0119F	14B0119G
Hilf Density Ratio (%):	95.0	98.0	97.5	98.5	95.5	96.5	97.0

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P. Mott

Date: 11 February, 2014

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0119 (Final)
		Sheet	2 of 2
		Date of Report:	11 Feb 2014
		Revision No:1	

Test Number:	14B0119A	14B0119B	14B0119C	14B0119D	14B0119E	14B0119F	14B0119G
Project Test N ^o	*	*	*	*	*	*	*
Time of Test:	10.05am	10.10am	10.15am	10.20am	10.25am	10.30am	10.35am
Probe Depth: (mm)	275	275	275	275	275	275	275
Site: Chainage – Lot	318	317	316	331	330	329	328
Reduced Level (mm)	-1800	-1800	-1800	-1500	-1500	-1500	-1500
Offset / Centre Line	*	*	*	*	*	*	*
#Easting: 55026	3049	3039	3027	3025	3033	3059	3077
#Northings: 593	9554	9558	9559	9593	9594	9591	9587
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	1.96	1.98	2.01	2.06	2.00	1.97	1.96
Peak Converted Wet Density: t/m ³	2.06	2.02	2.07	2.10	2.10	2.04	2.02
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.0 Dry	5.0 Dry	4.5 Dry	2.5 Dry	2.0 Dry	3.5 Dry	4.5 Dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*	*
HILF DENSITY RATIO (%):	95.0	98.0	97.5	98.5	95.5	96.5	97.0

As per: AS 1289

5.7.1

5.8.1

Remarks – This report replaces 14B/0119, which has now been withdrawn

Approved Signatory:

B.P. Mott

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TEST REPORT:**GEOTECHNICAL**
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0204 (Final)
		Sheet	1 of 2
		Date of Report:	19 Feb 2014

Project:	Viewpoint Estate, Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL					
Compaction Type:	Standard					
Date Sampled:	14/2/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0204 /A	Brown white silty clay				
	14B0204 /B	Brown white silty clay				
	14B0204 /C	Brown white silty clay				
	14B0204 /D	Brown white silty clay				
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0204A	14B0204B	14B0204C	14B0204D	*	*
Hilf Density Ratio (%):	99.5	100.0	100.0	100.5	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P.Mott

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GEOTECHNICAL
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Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0204 (Final)
		Sheet	2 of 2
		Date of Report:	19 Feb 2014

Test Number:	14B0204A	14B0204B	14B0204C	14B0204D	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	2.20pm	2.25pm	2.35pm	2.45pm	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage	Lot 321	Lot 322	Lot 327	Lot 328	*	*
Reduced Level (mm)	FSL	FSL	FSL	FSL	*	*
Offset / Centre Line	Mid	Mid	Mid	Mid	*	*
#Eastings:55026	3099	3119	3114	3104	*	*
#Northings:593	9556	9554	9576	9583	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	2.03	2.04	2.01	2.01	*	*
Peak Converted Wet Density: t/m ³	2.04	2.04	2.01	2.01	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	1.0dry	0.5dry	1.5dry	1.5dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	99.5	100.0	100.0	100.5	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

B.P.Mott

B.P.Mott

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TEST REPORT:



GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0218 (Final)
		Sheet	1 of 2
		Date of Report:	21 Feb 2014

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	-1000mm					
Compaction Type:	Standard					
Date Sampled:	17/2/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0218 /A	Brown silty clay				
	14B0218 /B	Brown silty clay				
	14B0218 /C	Brown silty clay				
	14B0218 /D	Brown silty clay				
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0218A	14B0218B	14B0218C	14B0218D	*	*
Hilf Density Ratio (%):	98.0	98.0	101.5	98.0	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0218 (Final)
		Sheet	2 of 2
		Date of Report:	21 Feb 2014

Test Number:	14B0218A	14B0218B	14B0218C	14B0218D	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	3.30pm	3.35pm	3.45pm	3.55pm	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage	Lot 329	Lot 330	Lot 331	Lot 332	*	*
Reduced Level (mm)	-1000	-1000	-1000	-1000	*	*
Offset / Centre Line	Mid	Mid	Mid	Mid	*	*
#Eastings:55026	3079	3062	3031	3019	*	*
#Northings:593	9591	9591	9591	9594	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	1.98	1.97	2.06	2.00	*	*
Peak Converted Wet Density: t/m ³	2.02	2.00	2.04	2.04	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	1.5dry	1.5dry	1.5dry	1.5dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%) :	98.0	98.0	101.5	98.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

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TEST REPORT:**GEOTECHNICAL**
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0223 (Final)
		Sheet	1 of 2
		Date of Report:	19 Feb 2014

Project:	Viewpoint Estate, Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	700mm					
Compaction Type:	Standard					
Date Sampled:	18/2/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0223 /A	Brown/white silty clay				
	14B0223 /B	Brown/white silty clay				
	14B0223 /C	Brown/white silty clay				
	14B0223 /D	Brown/white silty clay				
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0223A	14B0223B	14B0223C	14B0223D	*	*
Hilf Density Ratio (%):	99.0	98.0	98.5	96.5	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P.Mott

Date: 19 February, 2014

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0223 (Final)
		Sheet	2 of 2
		Date of Report:	19 Feb 2014

Test Number:	14B0223A	14B0223B	14B0223C	14B0223D	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	9.30am	9.35am	9.45am	9.50am	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage-Lot No:	329	330	331	332	*	*
Reduced Level (mm)	-700	-700	-700	-700	*	*
Offset / Centre Line	Mid	Mid	Mid	Mid	*	*
#Eastings:55026	3079	3058	3039	3023	*	*
#Northings:593	9584	9581	9584	9580	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	1.96	1.96	1.97	1.92	*	*
Peak Converted Wet Density: t/m ³	1.98	2.00	2.01	1.99	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	2.0dry	2.0dry	0.0wet	2.5dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	99.0	98.0	98.5	96.5	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

B.P. Mott

B.P.Mott

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 PO Box 555, Golden Square, 3555 Ph (03) 5441 4881, Fax (03) 5441 5089



Laboratory accreditation number 842.

Offices: Bendigo, Echuca, Gympie and Noosaville

Web: www.geotest.com.au

Email: info@geotest.com.au

ACN: 106 940 194
 ABN: 41 106 940 194

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TEST REPORT:**GEOTECHNICAL**
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0251 (Final)
		Sheet	1 of 2
		Date of Report:	21 Feb 2014

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	-400mm					
Compaction Type:	Standard					
Date Sampled:	19/2/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0251 /A	Brown/white silty clay				
	14B0251 /B	Brown/white silty clay				
	14B0251 /C	Brown/white silty clay				
	14B0251 /D	Brown/white silty clay				
	14B0251 /E	Brown/white silty clay				
	/F					
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	14B0251A	14B0251B	14B0251C	14B0251D	14B0251E	*
Hilf Density Ratio (%):	96.5	97.0	95.0	96.5	97.5	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P.Mott

Date:

21 February, 2014

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0251 (Final)
		Sheet	2 of 2
		Date of Report:	21 Feb 2014

Test Number:	14B0251A	14B0251B	14B0251C	14B0251D	14B0251E	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	3.30pm	3.35pm	3.45pm	3.50pm	3.55pm	*
Probe Depth: (mm)	275	275	275	275	275	*
Site: Chainage	Lot 329	Lot 330	Lot 331	Lot 332	Lot 333	*
Reduced Level (mm)	-400	-400	-400	-400	-400	*
Offset / Centre Line	Mid	Mid	Mid	Mid	Mid	*
#Eastings:55026	3081	3066	3048	3025	3004	*
#Northings:593	9586	9584	9586	9587	9589	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	*
Field Wet Density: t/m ³	1.97	1.97	1.97	1.96	1.98	*
Peak Converted Wet Density: t/m ³	2.04	2.03	2.08	2.03	2.03	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	1.5dry	2.0dry	0.0dry	2.5dry	3.0dry	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	96.5	97.0	95.0	96.5	97.5	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

B.P.Mott

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0293 (Final)
		Sheet	1 of 4
		Date of Report:	4 Mar 2014
		Revision No: 0	

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL / -300					
Compaction Type:	Standard					
Date Sampled:	25/2/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0293 /A	Brown/white silty clay				
	14B0293 /B	Brown/white silty clay				
	14B0293 /C	Brown/white silty clay				
	14B0293 /D	Brown/white silty clay				
	14B0293 /E	Brown/white silty clay				
	14B0293 /F	Brown/white silty clay				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	14B0293A	14B0293B	14B0293C	14B0293D	14B0293E	14B0293F
Hilf Density Ratio (%):	101.0	100.5	98.5	97.0	96.5	98.0

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P.Mott

Date: 4 March, 2014

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TEST REPORT:


GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0293 (Final)
		Sheet	2 of 4
		Date of Report:	4 Mar 2014
		Revision No: 0	

Test Number:	14B0293A	14B0293B	14B0293C	14B0293D	14B0293E	14B0293F
Project Test N ^o	*	*	*	*	*	*
Time of Test:	8.55am	9.05am	9.15am	9.25am	9.30am	9.40am
Probe Depth: (mm)	275	275	275	275	275	275
Site: Chainage	Lot 328	Lot 329	Lot 330	Lot 331	Lot 332	Lot 141
Reduced Level (mm)	FSL	FSL	FSL	FSL	FSL	-300
Offset / Centre Line	*	*	*	*	*	*
#Eastings:55026	3084	3065	3042	3024	3003	2858
#Northings:593	9583	9581	9585	9588	9588	9580
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	1.97	1.95	1.98	1.93	1.92	1.92
Peak Converted Wet Density: t/m ³	1.95	1.94	2.00	1.99	1.99	1.96
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.5dry	4.5dry	4.0dry	3.5dry	3.0dry	3.5dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	101.0	100.5	98.5	97.0	96.5	98.0

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

 B.P.Mott

Date: 4 March, 2014

Client:	McKinnon Earthmoving	Report N ^o	14B/0293 (Final)
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GEOTECHNICAL
 TESTING SERVICES PTY LTD

2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	3 of 4
	Date of Report:	4 Mar 2014
	Revision No: 0	

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	-800					
Compaction Type:	Standard					
Date Sampled:	25/2/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0293	/G	Brown/white silty clay			
	14B0293	/H	Brown/white silty clay			
	14B0293	/I	Brown/white silty clay			
	14B0293	/J	Brown/white silty clay			
		/K				
		/L				
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0293G	14B0293H	14B0293I	14B0293J	*	*
Hif Density Ratio (%):	98.5	99.0	96.0	96.0	*	*

As per: AS 1289 5.7.1 5.8.1

Approved Signatory:

B.P.Mott

Date: 4 March, 2014

Client:	McKinnon Earthmoving	Report N°	14B/0293 (Final)
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GEOTECHNICAL
 TESTING SERVICES PTY LTD

2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	4 of 4
	Date of Report:	4 Mar 2014
	Revision No: 0	

Test Number:	14B0293G	14B0293H	14B0293I	14B0293J	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	12.30pm	12.40pm	12.45pm	12.55pm	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage	Lot 146	Lot 147	Lot 148	Lot 149	*	*
Reduced Level (mm)	-800	-800	-800	-800	*	*
Offset / Centre Line	*	*	*	*	*	*
#Eastings:55026	2783	2763	2738	2727	*	*
#Northings:593	9623	9625	9630	9629	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	1.92	1.98	1.91	1.91	*	*
Peak Converted Wet Density: t/m ³	1.95	2.01	1.99	1.99	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.0dry	3.5dry	4.0dry	4.0dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	98.5	99.0	96.0	96.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

B.P.Mott

B.P.Mott

Date: 4 March, 2014

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0582 (Final)
		Sheet	1 of 2
		Date of Report:	22 April 2014
		Revision No: 0	

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks-C2					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	-1000mm					
Compaction Type:	Standard					
Date Sampled:	16/4/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0582 /A	Brown silty clay				
	14B0582 /B	Brown silty clay				
	14B0582 /C	Brown silty clay				
	14B0582 /D	Brown silty clay				
	14E0582 /E	Brown silty clay				
	/F					
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	14B0582A	14B0582B	14B0582C	14B0582D	14B0582E	*
Hilf Density Ratio (%):	102.0	102.0	97.0	98.0	95.5	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P.Mott

Date: 22 April, 2014

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0582 (Final)
		Sheet	2 of 2
		Date of Report:	22 April 2014
		Revision No: 0	

Test Number:	14B0582A	14B0582B	14B0582C	14B0582D	14B0582E	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	2.55pm	3.00pm	3.05pm	3.10pm	3.15pm	*
Probe Depth: (mm)	275	275	275	275	275	*
Site: Chainage	Lot 328	Lot 329	Lot 330	Lot 331	Lot 331	*
Reduced Level (mm)	-1000	-1000	-1000	-1000	-1000	*
Offset / Centre Line	Front	Front	Front	Front	Front	*
#Eastings:55026	3104	3085	3066	3044	3025	*
#Northings:593	9602	9599	9600	9602	9602	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	*
Field Wet Density: t/m ³	2.11	2.08	2.00	1.94	2.01	*
Peak Converted Wet Density: t/m ³	2.07	2.04	2.06	1.97	2.11	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	2.0wet	3.0dry	2.0dry	3.0dry	0.0dry	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	102.0	102.0	97.0	98.0	95.5	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

B.P. Mott

B.P.Mott

Date: 22 April, 2014

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0666 (Final)
		Sheet	1 of 2
		Date of Report:	12 May 2014
		Revision No:0	

Project:	Viewpoint Estate-Huntly-Stage C2					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	700mm					
Compaction Type:	Standard					
Date Sampled:	7/5/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0666 /A	Pale brown silty clay				
	14B0666 /B	Pale brown silty clay				
	/C					
	/D					
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from Stabilisation to Lab Test: *				
Test Number:	14B0666A	14B0666B	*	*	*	*
Hilf Density Ratio (%):	102.5	100.0	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J.Milne

Date:

12 May, 2014

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0666 (Final)
		Sheet	2 of 2
		Date of Report:	12 May 2014
		Revision No: 0	

Test Number:	14B0666A	14B0666B	*	*	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	10.00am	10.05am	*	*	*	*
Probe Depth: (mm)	275	275	*	*	*	*
Site: Chainage	Lot 334	Lot 333	*	*	*	*
Reduced Level (mm)	-700	-700	*	*	*	*
Offset / Centre Line	Front	Front	*	*	*	*
#Eastings:55026	2982	3005	*	*	*	*
#Northings:593	9607	9604	*	*	*	*
Percentage Oversize Wet:	0.0	0.0	*	*	*	*
Oversize Sieve Size: (mm)	19mm	19mm	*	*	*	*
Field Wet Density: t/m ³	2.09	2.04	*	*	*	*
Peak Converted Wet Density: t/m ³	2.04	2.04	*	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	0.0dry	0.0dry	*	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	102.5	100.0	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

Date: 12 May, 2014

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0672 (Final)
		Sheet	1 of 4
		Date of Report:	12 May 2014
		Revision No:	0

Project:	Viewpoint Estate Huntly-Stage C2					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	400mm					
Compaction Type:	Standard					
Date Sampled:	8/5/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0672 /A	Pale brown silty clay				
	14B0672 /B	Pale brown silty clay				
	14B0672 /C	Pale brown silty clay				
	14B0672 /D	Pale brown silty clay				
	14B0672 /E	Pale brown silty clay				
	14B0672 /F	Pale brown silty clay				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	14B0672A	14B0672B	14B0672C	14B0672D	14B0672E	14B0672F
Hilf Density Ratio (%):	107.0	102.5	104.5	101.5	104.0	104.0

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J. Milne

Date:

12 May, 2014

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Bendigo: Corporate Site #835

La Trobe University Campus, Edwards Rd, Bendigo, 3550

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Laboratory accreditation number 842.

Offices: Bendigo, Echuca, Gympie and Noosaville

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Email: info@geotest.com.au

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ABN: 41 106 940 194

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TEST REPORT:



GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0672 (Final)
		Sheet	2 of 4
		Date of Report:	12 May 2014
		Revision No: 0	

Test Number:	14B0672A	14B0672B	14B0672C	14B0672D	14B0672E	14B0672F
Project Test N ^o	*	*	*	*	*	*
Time of Test:	8.35am	8.40am	8.45am	8.50am	8.55am	9.00am
Probe Depth: (mm)	275	275	275	275	275	275
Site: Chainage	Lot 336	Lot 335	Lot 334	Lot 333	Lot 332	Lot 331
Reduced Level (mm)	-400	-400	-400	-400	-400	-400
Offset / Centre Line	Front	Front	Front	Front	Front	Front
#Eastings:55026	2950	2968	2984	3003	3024	3046
#Northings:593	9605	9607	9607	9602	9599	9601
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	2.07	2.02	2.07	2.05	2.07	2.05
Peak Converted Wet Density: t/m ³	1.94	1.97	1.97	2.02	1.99	1.98
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	2.5dry	2.0dry	0.5wet	0.5dry	0.5dry	2.0dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	107.0	102.5	104.5	101.5	104.0	104.0

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

Date: 12 May, 2014

Client:	McKinnon Earthmoving	Report N ^o	14B/0672 (Final)
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GEOTECHNICAL
 TESTING SERVICES PTY LTD

2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	3 of 4
	Date of Report:	12 May 2014
	Revision No: 0	

Project:	Viewpoint Estate Huntly-Stage C2					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	400mm					
Compaction Type:	Standard					
Date Sampled:	8/5/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0672 /G	Pale brown silty clay				
	14B0672 /H	Pale brown silty clay				
	14B0672 /I	Pale brown silty clay				
	14B0672 /J	Pale brown silty clay				
	/K					
	/L					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0672G	14B0672H	14B0672I	14B0672J	*	*
Hilf Density Ratio (%):	103.5	103.0	103.5	104.0	*	*

As per: AS 1289 5.7.1 5.8.1

Approved Signatory:  Date: 12 May, 2014
 C.J. Milne

Client:	McKinnon Earthmoving	Report N ^o	14B/0672 (Final)
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GEOTECHNICAL
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2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	4 of 4
	Date of Report:	12 May 2014
	Revision No: 0	

Test Number:	14B0672G	14B0672H	14B0672I	14B0672J	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	9.05am	9.10am	9.15am	9.20am	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage	Lot 330	Lot 329	Lot 328	Lot 327	*	*
Reduced Level (mm)	-400	-400	-400	-400	*	*
Offset / Centre Line	Front	Front	Front	Front	*	*
#Eastings:55026	3059	3079	3101	3119	*	*
#Northings:593	9599	9598	9590	9597	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	2.09	2.09	2.08	2.04	*	*
Peak Converted Wet Density: t/m ³	2.02	2.03	2.01	1.97	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	0.5dry	0.5dry	0.5dry	2.0dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	103.5	103.0	103.5	104.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J.Milne

Date: 12 May, 2014

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TEST REPORT:
GEOTECHNICAL
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Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0688 (Final)
		Sheet	1 of 2
		Date of Report:	12 May 2014
		Revision No:	0

Project:	Viewpoint Estate, Huntly-Stage C2					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL					
Compaction Type:	Standard					
Date Sampled:	9/5/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0688 /A	Pale brown silty clay				
	14B0688 /B	Pale brown silty clay				
	14B0688 /C	Pale brown silty clay				
	/D					
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from Stabilisation to Lab Test: *				
Test Number:	14B0688A	14B0688B	14B0688C	*	*	*
Hilf Density Ratio (%):	105.0	99.5	103.0	*	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J. Milne

Date:

12 May, 2014

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0688 (Final)
		Sheet	2 of 2
		Date of Report:	12 May 2014

Test Number:	14B0688A	14B0688B	14B0688C	*	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	12.45pm	12.50pm	12.55pm	*	*	*
Probe Depth: (mm)	275	275	275	*	*	*
Site: Chainage	Lot 328	Lot 329	Lot 330	*	*	*
Reduced Level (mm)	FSL	FSL	FSL	*	*	*
Offset / Centre Line	Front	Front	Front	*	*	*
#Eastings:55026	31174	3096	3082	*	*	*
#Northings:593	9593	9591	9594	*	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	*	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	*	*	*
Field Wet Density: t/m ³	2.12	2.03	2.12	*	*	*
Peak Converted Wet Density: t/m ³	2.02	2.04	2.06	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	0.0wet	0.5wet	0.0wet	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	105.0	99.5	103.0	*	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J.Milne

Date: 12 May, 2014

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0706 (Final)
		Sheet	1 of 4
		Date of Report:	15 May 2014
		Revision No: 0	

Project:	Viewpoint Estate-Huntly					
Location:	Stage C2-House Lots					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL					
Compaction Type:	Standard					
Date Sampled:	13/5/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0706 /A	Brown gravelly silty clay				
	14B0706 /B	Brown gravelly silty clay				
	14B0706 /C	Brown gravelly silty clay				
	14B0706 /D	Brown gravelly silty clay				
	14B0706 /E	Brown gravelly silty clay				
	14B0706 /F	Brown gravelly silty clay				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	14B0706A	14B0706B	14B0706C	14B0706D	14B0706E	14B0706F
Hilf Density Ratio (%):	98.5	104.0	107.5	104.5	100.0	100.5

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

B.P.Mott

Date: 15 May, 2014

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TEST REPORT:


GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	14B/0706 (Final)
		Sheet	2 of 4
		Date of Report:	15 May 2014
		Revision No:0	

Test Number:	14B0706A	14B0706B	14B0706C	14B0706D	14B0706E	14B0706F
Project Test N ^o	*	*	*	*	*	*
Time of Test:	9.05am	9.15am	9.30am	9.45am	10.00am	10.10am
Probe Depth: (mm)	275	275	275	275	275	275
Site: Chainage	Lot 331	Lot 332	Lot 333	Lot 334	Lot 335	Lot 336
Reduced Level (mm)	FSL	FSL	FSL	FSL	FSL	FSL
Offset / Centre Line	*	*	*	*	*	*
#Eastings:	*	*	*	*	*	*
#Northings:	*	*	*	*	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	2.02	2.08	2.14	2.03	2.00	2.01
Peak Converted Wet Density: t/m ³	2.05	1.99	1.99	1.94	2.00	2.00
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	0.5dry	2.5dry	3.0dry	4.5dry	3.5dry	2.5dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	98.5	104.0	107.5	104.5	100.0	100.5

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

 B.P.Mott

Date: 15 May, 2014

Client:	McKinnon Earthmoving	Report N ^o	14B/0706 (Final)
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2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	3 of 4
	Date of Report:	15 May 2014
	Revision No: 0	

Project:	Viewpoint Estate-Huntly					
Location:	Stage C2-House Lots					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL					
Compaction Type:	Standard					
Date Sampled:	13/5/14					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	14B0706	/G	Brown gravelly silty clay			
		/H				
		/I				
		/J				
		/K				
		/L				
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	14B0706G	*	*	*	*	*
Hilf Density Ratio (%):	101.0	*	*	*	*	*

As per: AS 1289 5.7.1 5.8.1

Approved Signatory: B.P.Mott Date: 15 May, 2014

Client:	McKinnon Earthmoving	Report N ^o	14B/0706 (Final)
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GEOTECHNICAL
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2 – 6 Festini Way LONG GULLY Vic 3550	Sheet	4 of 4
	Date of Report:	15 May 2014
	Revision No:0	

Test Number:	14B0706G	*	*	*	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	10.20am	*	*	*	*	*
Probe Depth: (mm)	275mm	*	*	*	*	*
Site: Chainage	Lot 337	*	*	*	*	*
Reduced Level (mm)	FSL	*	*	*	*	*
Offset / Centre Line	*	*	*	*	*	*
#Easting:	*	*	*	*	*	*
#Northings:	*	*	*	*	*	*
Percentage Oversize Wet:	0.0	*	*	*	*	*
Oversize Sieve Size: (mm)	19mm	*	*	*	*	*
Field Wet Density: t/m ³	2.03	*	*	*	*	*
Peak Converted Wet Density: t/m ³	2.01	*	*	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.5dry	*	*	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	101.0	*	*	*	*	*

As per: AS 1289 5.7.1 5.8.1

Remarks

Approved Signatory:

B.P. Mott

B.P.Mott

Date: 15 May, 2014

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TEST REPORT:**GEOTECHNICAL**
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1092 (Final)
		Sheet	1 of 2
		Date of Report:	23 May 2013

Project:	Viewpoint Estate Huntly-Stage D1					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	*					
Compaction Type:	Standard					
Date Sampled:	22/5/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B1092 /A	Silty clay, brown & some rock				
	13B1092 /B	Silty clay, brown & some rock				
	13B1092 /C	Silty clay, brown & some rock				
	13B1092 /D	Silty clay, brown & some rock				
	13B1092 /E	Silty clay, brown & some rock				
	13B1092 /F	Silty clay, brown & some rock				
Material Stabilised:	No	If Stabilised Time from Stabilisation to Lab Test: *				
Test Number:	13B1092A	13B1092B	13B1092C	13B1092D	13B1092E	13B1092F
Hilf Density Ratio (%):	101.0	98.0	99.0	98.5	98.0	99.5

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:


 N.J. Fieldew

Date:

23 May, 2013

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1092 (Final)
		Sheet	2 of 2
		Date of Report:	23 May 2013

Test Number:	13B1092A	13B1092B	13B1092C	13B1092D	13B1092E	13B1092F
Project Test N ^o	*	17	18	19	*	*
Time of Test:	8.30am	8.40am	8.45am	8.50am	2.15pm	2.20pm
Probe Depth: (mm)	250	250	250	250	250	250
Site: Chainage	GPS	175	176	177	GPS	GPS
Reduced Level (mm)	-1900	FSL	FSL	FSL	-1500	-1500
Offset / Centre Line	Mid	Mid	Mid	Mid	Mid	Mid
#Eastings:55026	3006	2625	2642	2654	3004	2992
#Northings:594	9587	9517	9515	9517	9590	9587
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	2.05	2.04	2.00	1.99	2.00	1.98
Peak Converted Wet Density: t/m ³	2.03	2.08	2.02	2.02	2.04	1.99
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.0dry	1.5dry	4.0dry	3.0dry	2.0dry	4.5dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	101.0	98.0	99.0	98.5	98.0	99.5

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

N.J. Fieldew

Date: 23 May, 2013

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Laboratory accreditation number 842.

Offices: Bendigo, Echuca, Gympie and Noosaville

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TEST REPORT:**GEOTECHNICAL**
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1104 (Final)
		Sheet	1 of 4
		Date of Report:	27 May 2013

Project:	Viewpoint Estate-Huntly, Stage C1					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	*					
Compaction Type:	Standard					
Date Sampled:	23/5/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B1104 /A	Silty clay, brown and some rock				
	13E1104 /B	Silty clay, brown and some rock				
	13E1104 /C	Silty clay, brown and some rock				
	13E1104 /D	Silty clay, brown and some rock				
	13E1104 /E	Silty clay, brown and some rock				
	13E1104 /F	Silty clay, brown and some rock				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	13B1104A	13B1104B	13B1104C	13B1104D	13B1104E	13B1104F
Hilf Density Ratio (%):	97.5	101.0	100.0	101.5	97.0	95.0

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

N.J. Fieldew

Date:

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1104 (Final)
		Sheet	2 of 4
		Date of Report:	27 May 2013

Test Number:	13B1104A	13B1104B	13B1104C	13B1104D	13B1104E	13B1104F
Project Test N ^o	*	*	*	*	*	*
Time of Test:	8.20am	8.30am	8.35am	8.40am	3.40pm	3.50pm
Probe Depth: (mm)	250	250	250	250	250	250
Site: Chainage	GPS	GPS	GPS	GPS	GPS	GPS
Reduced Level (mm)	-1200	-1200	-1200	-1200	-900	-900
Offset / Centre Line	Mid	Mid	Mid	Mid	Mid	Mid
#Eastings:55026	2949	2973	2984	3001	2950	2970
#Northings:593	9589	9592	9588	9591	9596	9593
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	1.96	2.08	2.01	2.01	2.02	2.02
Peak Converted Wet Density: t/m ³	2.01	2.06	2.01	1.99	2.08	2.13
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	3.0dry	0.5dry	3.0dry	3.5dry	2.0dry	1.5dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	97.5	101.0	100.0	101.5	97.0	95.0

As per: AS 1289

5.7.1

5.8.1

Remarks

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1104 (Final)
		Sheet	3 of 4
		Date of Report:	27 May 2013

Project:	Viewpoint Estate-Huntly, Stage C1					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	*					
Compaction Type:	Standard					
Date Sampled:	23/5/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B1104 /G	Silty clay, brown and some rock				
	13B1104 /H	Silty clay, brown and some rock				
	/I					
	/J					
	/K					
	/L					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	13B1104G	13B1104H	*	*	*	*
Hilf Density Ratio (%):	100.0	96.5	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

N.J. Fieldew

Date:

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1104 (Final)
		Sheet	4 of 4
		Date of Report:	27 May 2013

Test Number:	13B1104G	13B1104H	*	*	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	4.00pm	4.10pm	*	*	*	*
Probe Depth: (mm)	250	250	*	*	*	*
Site: Chainage	GPS	GPS	*	*	*	*
Reduced Level (mm)	-900	-900	*	*	*	*
Offset / Centre Line	Mid	Mid	*	*	*	*
#Eastings:55026	2987	3005	*	*	*	*
#Northings:593	9590	9595	*	*	*	*
Percentage Oversize Wet:	0.0	0.0	*	*	*	*
Oversize Sieve Size: (mm)	19mm	19mm	*	*	*	*
Field Wet Density: t/m ³	2.13	2.05	*	*	*	*
Peak Converted Wet Density: t/m ³	2.13	2.12	*	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	2.5dry	2.0dry	*	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%) :	100.0	96.5	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

N.J. Fieldew
 N.J. Fieldew

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1128 (Final)
		Sheet	1 of 2
		Date of Report:	29 May 2013

Project:	Viewpoint Estate, Huntly – C1					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	*					
Compaction Type:	Standard					
Date Sampled:	27/5/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B1128 /A	Silty clay, brown				
	13B1128 /B	Silty clay, brown				
	13E1128 /C	Silty clay, brown				
	13E1128 /D	Silty clay, brown				
	13E1128 /E	Silty clay, brown				
	13E1128 /F	Silty clay, brown				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	13B1128A	13B1128B	13B1128C	13B1128D	13B1128E	13B1128F
Hilf Density Ratio (%):	97.5	96.0	94.0	102.0	103.5	99.5

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

 N.J. Fieldew

Date:

29 May, 2013

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1128 (Final)
		Sheet	2 of 2
		Date of Report:	29 May 2013

Test Number:	13B1128A	13B1128B	13B1128C	13B1128D	13B1128E	13B1128F
Project Test N ^o	*	*	*	*	*	*
Time of Test:	9.10am	9.15am	9.20am	9.25am	9.30am	9.40am
Probe Depth: (mm)	250	250	250	250	250	250
Site: Chainage	GPS	GPS	GPS	GPS	GPS	GPS
Reduced Level (mm)	-600	-600	-600	-600	-600	-600
Offset / Centre Line	Mid	Mid	Mid	Mid	Mid	Mid
#Eastings:55026	2936	2973	2952	2933	2915	2854
#Northings:593	9600	9590	9595	9601	9597	9602
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	2.00	1.97	1.99	2.02	2.03	2.00
Peak Converted Wet Density: t/m ³	2.05	2.06	2.12	1.98	1.96	2.01
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	2.5dry	2.5dry	1.0dry	3.5dry	4.5dry	3.0dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	97.5	96.0	94.0	102.0	103.5	99.5

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

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**COMPACTION ASSESSMENT,
Nuclear Gauge Method Hilf (Wet) Density Ratio
TEST REPORT:**



GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1146 (Final)
		Sheet	1 of 4
		Date of Report:	30 May 2013

Project:	Viewpoint Estate, Huntly-Stage C1					
Location:	Huntly					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	300mm					
Compaction Type:	Standard					
Date Sampled:	29/5/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B1146 /A	Silty clay, brown and some rock				
	13B1146 /B	Silty clay, brown and some rock				
	13B1146 /C	Silty clay, brown and some rock				
	13B1146 /D	Silty clay, brown and some rock				
	13B1146 /E	Silty clay, brown and some rock				
	13B1146 /F	Silty clay, brown and some rock				
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	13B1146A	13B1146B	13B1146C	13B1146D	13B1146E	13B1146F
Hilf Density Ratio (%):	98.0	97.5	101.0	97.0	100.5	99.5

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

N.J. Fieldew
N.J. Fieldew

Date:

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1146 (Final)
		Sheet	2 of 4
		Date of Report:	30 May 2013

Test Number:	13B1146A	13B1146B	13B1146C	13B1146D	13B1146E	13B1146F
Project Test N ^o	*	*	*	Retest	*	*
Time of Test:	8.30am	8.45am	8.55am	9.00am	9.05am	9.10am
Probe Depth: (mm)	250	250	250	250	250	250
Site: Chainage	GPS	GPS	GPS	GPS	GPS	GPS
Reduced Level (mm)	-300	-300	-300	-600	-300	-300
Offset / Centre Line	Mid	Mid	Mid	Mid	Mid	Mid
#Eastings:55026	2985	2970	2949	2948	2932	2912
#Northings:593	9593	9595	9600	9600	9600	9598
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	19mm
Field Wet Density: t/m ³	1.99	2.00	2.12	2.03	2.04	2.05
Peak Converted Wet Density: t/m ³	2.04	2.04	2.10	2.09	2.03	2.06
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	3.0dry	3.0dry	0.5dry	2.0dry	2.0dry	2.0dry
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	98.0	97.5	101.0	97.0	100.5	99.5

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

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**COMPACTION ASSESSMENT,
Nuclear Gauge Method Hilf (Wet) Density Ratio
TEST REPORT:**



GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1146 (Final)
		Sheet	1 of 4
		Date of Report:	30 May 2013

Project:	Viewpoint Estate, Huntly-Stage C1					
Location:	Huntly					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	300mm					
Compaction Type:	Standard					
Date Sampled:	29/5/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B1146 /G	Silty clay, brown and some rock				
	13B1146 /H	Silty clay, brown and some rock				
	13B1146 /I	Silty clay, brown and some rock				
	13B1146 /J	Silty clay, brown and some rock				
	*					
	*					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	13N1146G	13N1146H	13N1146I	13N1146J	*	*
Hilf Density Ratio (%):	98.0	96.5	98.0	101.0	*	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

N.J. Fieldew
N.J. Fieldew

Date:

30 May, 2013

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/1146 (Final)
		Sheet	2 of 4
		Date of Report:	30 May 2013

Test Number:	13N1146G	13N1146H	13N1146I	13N1146J	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	9.20am	9.30am	9.35am	9.40am	*	*
Probe Depth: (mm)	250	250	250	250	*	*
Site: Chainage	GPS	GPS	GPS	GPS	*	*
Reduced Level (mm)	-300	-300	-300	-400	*	*
Offset / Centre Line	Mid	Mid	Mid	Mid	*	*
#Eastings:55026	2896	2873	2861	2847	*	*
#Northings:593	9603	9599	9606	9606	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	1.97	1.96	2.03	2.10	*	*
Peak Converted Wet Density: t/m ³	2.01	2.03	2.07	2.08	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.0dry	2.5dry	1.5dry	2.0dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	98.0	96.5	98.0	101.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

N.J. Fieldew

Date: 30 May, 2013

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TEST REPORT:

GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2169 (Final)
		Sheet	1 of 2
		Date of Report:	10 Oct 2013

Project:	Viewpoint Estate-Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL					
Compaction Type:	Standard					
Date Sampled:	8/10/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2169 /A	Brown silty clay				
	13B2169 /B	Brown silty clay				
	13B2169 /C	Brown silty clay				
	13B2169 /D	Brown silty clay				
	13B2169 /E	Brown silty clay				
	/F					
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	13B2169A	13B2169B	13B2169C	13B2169D	13B2169E	*
Hilf Density Ratio (%):	101.5	101.0	100.0	97.0	101.0	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J.Milne

Date:

10 October, 2013

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GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2169 (Final)
		Sheet	2 of 2
		Date of Report:	10 Oct 2013

Test Number:	13B2169A	13B2169B	13B2169C	13B2169D	13B2169E	*
Project Test N ^o	A	B	C	D	E	*
Time of Test:	3.00pm	3.10pm	3.20pm	3.30pm	4.00pm	*
Probe Depth: (mm)	250mm	250mm	250mm	250mm	250mm	*
Site: Chainage	Map	Map	Map	Map	Map	*
Reduced Level (mm)	FSL	FSL	FSL	FSL	FSL	*
Offset / Centre Line	Middle	Middle	Middle	Middle	Middle	*
#Eastings:	NA	NA	NA	NA	NA	*
#Northings:	NA	NA	NA	NA	NA	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	*
Field Wet Density: t/m ³	2.19	2.13	2.14	2.04	2.11	*
Peak Converted Wet Density: t/m ³	2.15	2.11	2.14	2.10	2.09	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	0.5wet	0.5dry	0.5wet	1.5dry	2.5dry	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	101.5	101.0	100.0	97.0	101.0	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2272 Final
		Sheet	1 of 2
		Date of Report:	23-Oct-2013

Project:	View Point Estate, Huntly					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	-700mm					
Compaction Type:	Standard					
Date Sampled:	22/10/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2272	/A	Brown silty clay, some rock			
	13B2272	/B	Brown silty clay, some rock			
		/C				
		/D				
		/E				
		/F				
Material Stabilised:	No		If Stabilised Time from		*	
			Stabilisation to Lab Test:			
Test Number:	13B2272A	13B2272B	*	*	*	*
Hilf Density Ratio (%):	102.5	103.0	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Approved
Signatory:

C.J. Milne

Date:

23 October, 2013

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2272 Final
		Sheet	2 of 2
		Date of Report:	23-Oct-2013

Test Number:	13B2272A	13B2272B	*	*	*	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	8.20am	8.25am	*	*	*	*
Probe Depth: (mm)	250	250	*	*	*	*
Site: Chainage	See Map	See Map	*	*	*	*
Reduced Level (mm)	-700	-700	*	*	*	*
Offset / Centre Line	See Map	See Map	*	*	*	*
#Eastings:55026	3151	3136	*	*	*	*
#Northings:593	9604	9574	*	*	*	*
Percentage Oversize Wet:	0.0	0.0	*	*	*	*
Oversize Sieve Size: (mm)	19mm	19mm	*	*	*	*
Field Wet Density: t/m ³	2.18	2.17	*	*	*	*
Peak Converted Wet Density: t/m ³	2.12	2.11	*	*	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	2.5 Dry	2.5 Dry	*	*	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	102.5	103.0	*	*	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

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TEST REPORT:**GEOTECHNICAL**
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2278 Final
		Sheet	1 of 2
		Date of Report:	24-Oct-2013

Project:	View Point Estate, Huntly – Stage 2D					
Location:	House Blocks					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	400mm					
Compaction Type:	Standard					
Date Sampled:	22/10/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2278 /A	Brown rocky clay				
	13B2278 /B	Brown rocky clay				
	13B2278 /C	Brown rocky clay				
	13B2278 /D	Brown rocky clay				
	/E					
	/F					
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	13B2278A	13B2278B	13B2278C	13B2278D	*	*
Hilf Density Ratio (%):	107.0	107.0	104.0	102.0	*	*

As per: AS 1289

5.7.1

5.8.1

Approved
Signatory:

C.J. Milne

Date:

24 October, 2013

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TEST REPORT:
GEOTECHNICAL
 TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N°	13B/2278 Final
		Sheet	2 of 2
		Date of Report:	24-Oct-2013

Test Number:	13B2278A	13B2278B	13B2278C	13B2278D	*	*
Project Test N°	*	*	*	*	*	*
Time of Test:	3.10pm	3.20pm	3.30pm	3.40pm	*	*
Probe Depth: (mm)	275	275	275	275	*	*
Site: Chainage	Block	Block	Block	Block	*	*
Reduced Level (mm)	400	400	400	400	*	*
Offset / Centre Line	BFSL Centre	BFSL Centre	BFSL Centre	BFSL Centre	*	*
#Eastings:	*	*	*	*	*	*
#Northings:	*	*	*	*	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	*	*
Field Wet Density: t/m ³	2.19	2.22	2.10	2.11	*	*
Peak Converted Wet Density: t/m ³	2.05	2.08	2.02	2.07	*	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	2.5 Dry	2.5 Dry	3.0 Dry	2.5 Dry	*	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	107.0	107.0	104.0	102.0	*	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J. Milne

Date: 24 October, 2013

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TEST REPORT:



GEOTECHNICAL
TESTING SERVICES PTY LTD

Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2328 (Final)
		Sheet	1 of 2
		Date of Report:	31 Oct 2013

Project:	Viewpoint Estate-Huntly					
Location:	House Block Fill					
Lot Number:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	Up to 700mm					
Compaction Type:	Standard					
Date Sampled:	28/10/13					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material description:	13B2328 /A	Brown silty clay				
	13B2328 /B	Brown silty clay				
	13B2328 /C	Brown silty clay				
	13B2328 /D	Brown silty clay				
	13B2328 /E	Brown silty clay				
	/F					
Material Stabilised:	No	If Stabilised Time from * Stabilisation to Lab Test:				
Test Number:	13B2328A	13B2328B	13B2328C	13B2328D	13B2328E	*
Hilf Density Ratio (%):	95.0	103.0	100.5	99.5	96.0	*

As per: AS 1289

5.7.1

5.8.1

Approved Signatory:

C.J. Milne

Date:

31 October, 2013

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Client:	McKinnon Earthmoving 2 – 6 Festini Way LONG GULLY Vic 3550	Report N ^o	13B/2328 (Final)
		Sheet	2 of 2
		Date of Report:	31 Oct 2013

Test Number:	13B2328A	13B2328B	13B2328C	13B2328D	13B2328E	*
Project Test N ^o	*	*	*	*	*	*
Time of Test:	3.30pm	3.40pm	3.50pm	4.00pm	4.10pm	*
Probe Depth: (mm)	300	300	300	300	300	*
Site: Chainage	Map	Map	Map	Map	Map	*
Reduced Level (mm)	FSL	FSL	FSL	FSL	FSL	*
Offset / Centre Line	Centre	Centre	Centre	Centre	Centre	*
#Eastings:55026	3144	3146	3145	3142	3122	*
#Northings:593	9546	9560	9574	9591	9589	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	*
Oversize Sieve Size: (mm)	19mm	19mm	19mm	19mm	19mm	*
Field Wet Density: t/m ³	1.97	2.18	2.13	2.09	2.02	*
Peak Converted Wet Density: t/m ³	2.08	2.12	2.13	2.10	2.10	*
Adjusted Peak Con. Wet Density: t/m ³	*	*	*	*	*	*
Moisture Variation %: (Wet/Dry)	4.5dry	4.5dry	4.5dry	4.5dry	4.0dry	*
Adjusted Moisture Variation %: (Wet/Dry)	*	*	*	*	*	*
HILF DENSITY RATIO (%):	95.0	103.0	100.5	99.5	96.0	*

As per: AS 1289

5.7.1

5.8.1

Remarks

Approved Signatory:

C.J.Milne

Date:31 October, 2013

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