

4/20 Burke Crescent North Lakes QLD 4509 Ph (07) 3491 6499 Fax (07) 3491 6299 Email: admin@ryangeotech.com.au

Loganholme

9/8 Riverland Drive Loganholme QLD 4129. Ph (07) 3209 8152 Fax (07) 3209 8153 Email: s.hunter@ryangeotech.com.au www.ryangeotech.com.au

Level One Report

Skerman Civil

Spring Creek 1A & 1B **Telemon Street**

Beaudesert

January 2020



RYAN & ASSOCIATES GEOTECHNICAL PTY LTD

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Skerman Civil PO Box 1039 Milton Qld 4064

Re: Spring Creek 1A & 1B Telemon Street, Beaudesert Geotechnical Testing & Certification.

Scope

Ryan & Associates Geotechnical was commissioned by Skerman Civil Pty Ltd to provide geotechnical inspections, testing and certification of the filling earthworks at the above-mentioned project.

The project was assumed to be a Residential Development as per "AS3798 – 2007 Guidelines on Earthworks for Commercial and Residential Developments to Level one requirement as outlined in Section 8".

The development comprises of a proposed 44 lot subdivision being constructed on previously developed land, controlled filling works to Lots 1 - 12, Lots 14 – 41 and Lots 44 - Lots 49 have been included within this report. Refer to Appendix A "Site Plans" drawing number C300 Revision B.

Ryan & Associates Geotechnical maintained a site presence during the works in accordance with AS3798 - 2007 Level 1. Appendix B - Testing Summary, of this report, contains the testing summary of all testing undertaken with achieved compaction densities.

Site inspections and compaction control testing was carried out as work progressed. with records compiled on all aspects of the earthworks.

This level one report does not cover any fill placed by others prior to or after Ryan & Associates controlled filling works.

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Foundation Preparation

Stripping of Area 2.1

All existing topsoil materials were stripped prior to the commencement of filling operations.

2.2 Removal of Unsuitable Materials

Unsuitable and soft/wet materials within proposed fill areas were removed prior to proof rolling and placement of fill.

Controlled Filling 3

Fill used consisted of cut materials. Fills were placed using a Grader and Drott in layers not exceeding 0.2m. The fill zones were compacted using a Compactor.

Compaction Control Operations 4

Compliance testing of fill operations was performed by Ryan & Associates Geotechnical between the Months of August 2019 to September 2019.

The test results show, where applicable, a Dry Density Ratio of 95% standard or greater was consistently achieved for testing performed on fill materials.

Testing results are shown in the Testing Summary; refer to Appendix B – Testing Summary of this report.

Individual Lot Certificates for the controlled filling works to Lots 1 - 12, Lots 14 – 41 and Lots 44 - Lots 49 have been included within this report, refer to Appendix C

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5 Conclusion

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in accordance with good engineering practice and can be considered controlled fill. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

The earthworks at the time of completion have been carried out to meet the requirements of Level 1 Certification as per AS3798 – 2007 "Guidelines on Earthworks for Commercial and Residential Development", Clause 8.2.

RYAN & ASSOCIATES

Geotechnical Pty Ltd.

Paul Shaw

Operations Manager / Laboratory Manager

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6 Limitations

This level one certification report verifies that all supervised fill placed meets the minimum requirements of 95% standard compaction where applicable. As far as could be determined the earthworks at the time of completion have been carried out to meet the requirements of the drawing and specification.

This level one report makes no reference to previous filling works if any or natural ground and its suitability to future design beyond its acceptance of passing proof rolling.

This level one report only covers earthworks filling as detailed in the earth works drawings.

Unless otherwise stated, this Level 1 Certification does not address any other geotechnical issues which may relevant to building construction and serviceability.

This Level 1 Certification does not include backfill to service trenches, retaining walls bridging layers, top soil or any pavements

A full geotechnical site investigation/classification and foundation design for the specific ground conditions should be carried out by a suitably qualified and experienced professional, prior to building when the structure type and location is known.

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Appendix A

Site Plan

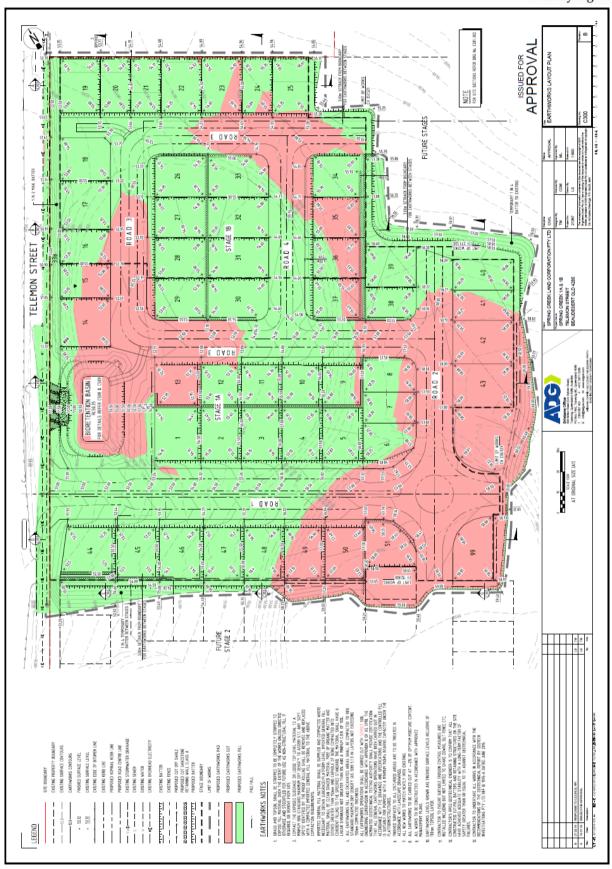
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Appendix B

Testing Summary

January 2020 JOB NUMBER: R19-C062





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Client: Skerman Civil Pty Ltd Project: Spring Creek 1A & 1B Job Number: R19-C062 Laass 7/08/2019 1 Laass 7/08/2019 2 Laass 7/08/2019 4 Laass 7/08/2019 4 Laavas 7/08/2019 2 Laavas 8/08/2019 4 Laavas 8/08/2019 4 Laavas 8/08/2019 2 Laavas 8/08/2019 1 Laavas 9/08/2019 2 Laavas 9/08/2019 3 Laavas 9/08/2019 4 Laavas 9/08/2019 6 Laavas 9/08/2019 7 Laavas<	Lot Number: All twher Lot 23 Lot 18 Road 3 Lot 19 Lot 19 Lot 20 L									
Spring Creek 1A 8 liber: R19-C062 Date Sampled 708/2019 708/2019 708/2019 808/2019	Lot Number: All Lot 28 Lot 18 Road 3 Lot 19 Lot 20 Lot 19 Lot 20			22A Telemon Street		i		-		
Date Sampled 7/08/2019 7/08/2019 7/08/2019 7/08/2019 7/08/2019 8/	Lot Number: All tents Lot 18 Road 3 Lot 19 Lot 19 Lot 20 L		Suburb:	Beaudesert	_	Location Filter:	ter.	₹		
7/08/2019 7/08/2019 7/08/2019 7/08/2019 7/08/2019 8/08/2019	Lot 23 Lot 18 Lot 18 & Road 3 Lot 19 Lot 20		Item Number: All	er: All		Date Filter: 01/01/2019 to 14/01/2020	01/01/20	19 to 14/(01/2020	
7/08/2019 7/08/2019 7/08/2019 7/08/2019 7/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019	Lot 23 Lot 18 Lot 18 & Road 3 Lot 19 Lot 20	Location			Density Ratio	MDD	OMC	Corr. FMC Min Spec. MC Var.	Min Spec	. MC Var.
7.008/2019 7.008/2019 8.008/2019 8.008/2019 8.008/2019 8.008/2019 8.008/2019 8.008/2019 8.008/2019 8.008/2019 9.008/2019 9.008/2019 9.008/2019 9.008/2019 9.008/2019 9.008/2019	Lot 23 Lot 18 & Road 3 Lot 19 Lot 20				(%)	(Vm³)	(%)	(%)	(%)	(%)
7.0082019 7.0082019 8.0082019 8.0082019 8.0082019 8.0082019 8.0082019 8.0082019 8.0082019 9.0082019 9.0082019 9.0082019 9.0082019 9.0082019 9.0082019 9.0082019	Lot 18 & Road 3 Lot 19 Lot 19 Lot 19 Lot 19	Refer to Plan # 1	Natural Surface		98.0	1.194	42.5	40.5	86	2.0 % dry of omc
7.7098/2019 7.7098/2019 8.098/2019 8.098/2019 8.098/2019 8.098/2019 8.098/2019 8.098/2019 9.098/2019 9.098/2019 9.098/2019 9.098/2019 9.098/2019 9.098/2019	Lot 18 & Road 3 Lot 19 Lot 20	Refer to Plan # 2	Natural Surface		98.5	1,153	6.05	50.3	86	0.6 % dry of omc
8008/2019 8008/2019 8008/2019 8008/2019 8008/2019 8008/2019 9008/2019 9008/2019 9008/2019 9008/2019	Lot 19 Lot 20	Refer to Plan # 3	RL 50.80		98.5	1.283	38.5	37.5	86	1.0 % dry of omc
8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lot 20	Refer to Plan # 4	RL 51.382		98.0	1.283	35.7	34.8	86	0.9 % dry of omc
8/08/2019 8/08/2019 8/08/2019 8/08/2019 8/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019		RL 51.87			99.5	1.363	30.1	29.5	86	0.6 % dry of omc
8/08/2019 8/08/2019 8/08/2019 8/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lot 21	RL 52.07			101.0	1.340	32.1	31.4	86	0.7 % dry of omc
8/08/2019 8/08/2019 8/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lot 17	RL 51.43			100.0	1.383	31.0	30.7	86	0.3 % dry of omc
8/08/2019 8/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lot 16	RL 51.73			101.5	1.365	29.5	28.8	86	0.7 % dry of omc
8/08/2019 8/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lot 18	RL 51.20			100.5	1.366	32.0	31.3	89 6	0.7 % any or omc
8108/2019 9108/2019 9108/2019 9108/2019 9108/2019 9108/2019	Lots 15/16 & Road 3 BoundariRL 50.91	oundariRL 50.91	Natural Surface		98.5	1.313	36.5	36.1 C 56.	p a	10 % do of ome
9/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lots 17/18 & Road 3 BoundariRL 50.95	oundariRL 50.95	Natural Surface		98.5	1.320	2.78	20.2 28 Q	8 8	%00
9/09/2019 9/09/2019 9/09/2019 9/09/2019 9/09/2019	Lot 15	RL 52.23			2 2	1 349	29.4	31.0	86	1.6 % wet of omc
9109/2019 9108/2019 9108/2019 9108/2019 9108/2019	Lot 16	RL 52.59			100.5	1334	30.9	31.0	86	0.1 % wet of omc
9/08/2019 9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lot 17	RL 52.97			101.5	1.329	28.5	29.5	86	1.0 % wet of omc
9/08/2019 9/08/2019 9/08/2019 9/08/2019	Lot 18	RL 53.20			103.0	1.352	27.6	29.2	86	1.6 % wet of omc
9/08/2019 9/08/2019 9/08/2019 G/08/2019	Lot 14	RL 52.72			103.0	1.358	27.9	28.5	86	0.6 % wet of omc
9/08/2019	5 101	RI 53.24			102.5	1.354	28.0	28.5	98	0.5 % wet of omc
9/08/2019	- α,	RI 53.85			100.5	1.347	28.1	28.2	86	0.1 % wet of omc
	Lots 28 & 29 Boundaries		Natural Surface		102.0	1.329	31.0	32.2	86	1.2 % wet of omc
9/08/2019	Lots 26 & 27 Boundaries		Natural Surface		103.0	1.388	24.5	25.8	98	1.3 % wet of omc
10/08/2019	Lot 29				101.5	1.393	23.8	23.1	86	0.7 % dry of omc
10/08/2019	Lot 27	RL 53,405			100.5	1.430	23.5	23.2	88	0.3 % dry of omc
	Lot 44	RL 51.55	Natural Surface		98.5	1.395	23.6	24.0	86	0.4 % wet of omc
10/08/2019	Lot 44	RL 51.956			102.0	1.411	23.4	24.4	86	1.0 % wet of omc
	Bio Basin	Northern Side	RL 51.225		103.5	1.401	23.2	24.7	86	1.5 % wet of omc
13/08/2019	Lot 44	RL 52.23			102.0	1.386	25.1	24.4	86	0.7 % dry of omc
13/08/2019	Lot 44	RL 51.69			102.0	1.401	23.1	23.3	86	0.2 % wet of omc
	Lot 45	RL 52.43			104.5	1.413	22.9	24.0	86	1.1 % wet of omc

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Cyclett Spring Creek f. A. 8.18 Suburb: Beaudeent Condition Chemon Street Cyclett Spring Creek f. A. 8.18 Suburb: Beaudeent Cyclett Cycl	rest Summary: FD (Nuclear M	l'est Summary: FD (Nuclear Meter)						Dat	e Com	Date Compiled: 14/01/2020	/01/202	07
Spinting Creek I A & 18 Suburit: Beauddesert Demandy Ratio MOD OAX Corr FMIO Minisper 13062019 4 Location RL 54.78 Finished Surface Level 980 1.443 22.7 18.9 (%)	Client:	Skerman Civil P	ty Ltd				et					
1308/2019 4	Project:	Spring Creek 1A	1 & 1B									
130002019 4	Lab Number	Date Sampled	ID Number	Loca	ttion		Density Ratio	MDD	OMC	Corr. FMC	Ain Spec.	AC Var.
150062019 4 Lot 46 RE 57.0 Finished Surface Level 80.0 1445 25.0 23.7 99 150062019 1 Lot 31 RE 57.0 Finished Surface Level 80.0 1445 29.7 29.3 8.3 99 150062019 2 Lot 32 RE 57.2 RE 57.2 Finished Surface Level 80.0 1445 29.7 29.5 29.7 29.0 150062019 2 Lot 32 RE 57.2 RE 57.2 Finished Surface Level 80.0 1442 29.7 29.6 27.5 90 150062019 2 Lot 32 RE 57.2							(20)	(nm²)	8	(%)	(%)	<u>(%)</u>
16082019 1 10130	L34498	13/08/2019	4	Lot 46	RL 52.60		104.0	1.419	22.6	23.7		% wet of o
150082019 2 Lot 21 R.L. 6474 Finished Surface Level 980 1445 297 298 98 1465 1465 207 298 98 1465 1465 207 298 98 1465 1465 207 298 98 1465 207 208 208	L34499	15/08/2019	-	Lot 30	RL 54.78	Finished Surface Level	98.0	1.453	28.3	26.3		% dry of o
1-50082019 3 1-10122 R.L. 67.17 Finished Surface Level 98.6 1442 29.6 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 98.6 1462 27.5 27.5 98.6 156082019 8 1.0 1.39 R.L. 67.7 10.139 R.L. 67.7 10.139 R.L. 67.7 10.139 R.L. 67.7 10.139 R.L. 67.2 R.L. 67.	134500	15/08/2019	2	Lot 31	RL 54.74	Finished Surface Level	98.0	1.445	29.7	28.8		% dry of o
15082011 4 Lot 33 RL 5478 Finished Surface Level 1035 1342 315 297 3 91 15082011 5 Lot 38 RL 5726 Finished Surface Level 1035 1342 217 29.8 91 15082011 1039 RL 5728 RL 5729 1045 1345 277 29.8 91 15082011 10439 RL 5729 RL 5729 1045 1345 277 29.8 91 15082011 10439 RL 5729 RL 5729 RL 5729 1045 1345 277 29.8 91 15082011 10439 RL 5729 RL 5829 Finished Surface Level 1015 1374 275 29.8 91 15082011 10439 RL 5437 0.6m Below FSL 1065 1360 281 281 281 281 16082011 10430 RL 5437 0.6m Below FSL 1065 1360 281 281 281 281 281 281 281 281 281 281	134501	15/08/2019	m ·	Lot 32	RL 54.81	Finished Surface Level	98.5	1.442	29.6	27.5		% dry of o
150082019 5 Lot 38 RL 57.72 104.5 134.9 29.2 31.1 150082019 5 Lot 38 RL 57.20 104.5 134.0 29.2 31.1 150082019 5 Lot 39 RL 57.20 RL 57.20 104.5 135.2 27.9 29.8 150082019 5 Lot 39 RL 57.20 RL 57.20 102.0 135.2 27.9 29.8 150082019 2 Lot 39.21 RL 58.20 Finished Surface Level 101.5 1374 27.5 29.8 98 150082019 2 Lot 30.31 Boundary RL 54.7 0 6m Below FSL 100.5 1380 28.1 28.9 98 140082019 2 Lot 30.31 Boundary RL 54.25 0.4m Below FSL 100.5 1380 28.1 28.9 29.3 20.0082019 2 Lot 30.31 Boundary RL 54.25 0.4m Below FSL 100.5 1380 28.5 28.4 29.5 20.0082019 2 Lot 30.31 Boundary RL 54.25 0.4m Below FSL 100.5 1380 28.5 28.4 29.5 20.0082019 2 Lot 4.0 RL 53.23 Boundary RL 54.35 0.4m Below FSL 29.0 1380 28.5 28	134502	15/08/2019	4	Lot 33	RL 54.78	Finished Surface Level	98.0	1.421	31.5	29.7		% dry of o
1445 1322 127 293 R. 67728 146082019 1461 1325 1322 127 293 294 146082019	134604	15/08/2019	٠ c	Lot 38	RL 57.17		103.5	1.349	29.2	31.1		% wet of c
1013 1013	134505	15/08/2019	1 0	Lot 39	RL 57.28		104.5	1.352	27.7	29.8		% wet of c
1015 1333 259 293 29	134506	15/08/2019	~ 0	Lot 38	RL 57.70		102.0	1.356	27.9	29.4		% wet of o
100 101	L34507	16/08/2019	o +	LOI 39	RL 57.89		101.5	1.353	28.9	29.3		% wet of o
14/08/2019 1 Lots 30/31 Boundary RL: 54.7 Frinshed Surface Level 100.0 12.88 28.1 28.9 9.8 14/08/2019 2 Lots 20/32 Boundary RL: 54.19 0.6m Below FSL 100.5 1.306 28.6 3.6	L34508	16/08/2019	- 0	Lot 39	NL 38.28	Finished Surface Level	101.5	1.374	27.5	29.3		% wet of
14/08/2019 2 Lois 32/33 Boundary RL: 54.19 0 Gm Below FSL 100.5 1.214 436 36.5 36.4 98 14/08/2019 3 Lois 22/33 Boundary RL: 54.19 0 Gm Below FSL 99.5 1.214 430 41.0 98 14/08/2019 4 Lois 30/31 Boundary RL: 54.35 0 4m Below FSL 99.0 1.214 430 41.0 98 2008/2019 1 Loi 40 RL: 58.46 Finished Surface Level 99.0 1.451 246 246 98 2008/2019 1 Loi 4 RL: 58.43 Finished Surface Level 100.5 1.451 246 246 98 26/08/2019 1 Loi 4 RL: 58.46 Finished Surface Level 100.5 1.451 246 286 98 26/08/2019 2 Loi 4 RL: 58.43 Finished Surface Level 100.5 1.451 246 98 26/08/2019 3 Loi 4 RL: 54.60 Finished Surface Level 103.5 1.343 32.5 30.	L34537	14/08/2019	1	Lots 30/31 Boundary	RI · 54 17	O 6m Below ESI	102.0	1.380	28.1	28.9		% wet of
14/08/2019 3 Lots 32238 Boundary R.E. 54.25 OAM Below FSL 995 1.214 430 986 14/08/2019 4 Lots 30/31 Boundary R.E. 54.25 0.4m Below FSL 980 1.295 4.30 4.41 980 20008/2019 1 Lot 40 R.E. 57.89 Finished Sufface Level 990 1.439 282 29.1 98 20008/2019 1 Lot 40 R.E. 57.89 Finished Sufface Level 990 1.439 282 29.1 98 2008/2019 1 Lot 1 R.E. 54.20 Finished Sufface Level 100.5 1.323 33.5 34.6 98 21/08/2019 2 Lot 2 R.E. 54.20 Finished Sufface Level 100.5 1.323 33.5 34.6 98 28/08/2019 3 Lot 2 R.E. 54.30 Finished Sufface Level 100.0 1.469 22.0 21.7 98 28/08/2019 4 Lot 3 R.E. 54.30 Finished Sufface Level 100.0 1.469 22.0 2	L34538	14/08/2019	2	Lots 32/33 Boundary	RI : 54 19	O Sm Below ESI	39.0	1.200	36.5	30.4		% dry of c
14/08/2019 4 Lots 30/31 Boundary RL: 54.36 0.4m Below FSL 96.0 1.267 47.0 9.0 20/08/2019 1 Lot 40 RL: 57.89 Finished Surface Level 99.0 1.431 28.2 29.1 99.0 20/08/2019 1 Lot 40 RL: 58.86 Finished Surface Level 100.5 1.899 28.6 29.6 1.373 32.6 99.0 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 1.99 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	L34539	14/08/2019	ю	Lots 32/33 Boundary	RL: 54.25	0.4m Below FSL	5.00	1 214	20.5	0.4.0		% dry of o
20/08/2019 1 Lot 40 RL: 57.89 Finished Surface Level 99.0 1.383 28.2 29.1 98.0 20/08/2019 1 Lot 40 RL: 53.83 Finished Surface Level 100.5 1.389 28.6 28.6 98 21/08/2019 1 Lot 1 RL: 54.81 0.5m Below FSL 99.0 1.451 24.6 24.6 98 26/08/2019 1 Lot 1 RL: 54.81 0.5m Below FSL 99.0 1.451 24.6 28.6 98 26/08/2019 2 Lot 2 RL: 54.81 0.5m Below FSL 99.5 1.373 32.5 32.6 98 26/08/2019 3 Lot 1 RL: 54.90 Finished Surface Level 103.6 1.343 32.5 32.0 98 27/08/2019 3 Lot 4 RL: 54.90 Finished Surface Level 103.6 1.343 32.5 32.0 98 27/08/2019 4 Lot 4 RL: 54.18 RL: 54.18 100.0 1.469 22.0	L34540	14/08/2019	4	Lots 30/31 Boundary	RL: 54.35	0.4m Below FSL	98.0	1 295	43.0	413		% dry of
20008/2019 2 Lot 40 RL: 58.46 Finished Surface Level 99.0 1451 24.6 24.6 98 21/08/2019 1 Lot 1 RL: 58.83 Finished Surface Level 100.5 1.389 28.6 28.6 98 26/08/2019 1 Lot 1 RL: 54.30 Finished Surface Level 103.0 1.323 33.5 34.6 98 26/08/2019 2 Lot 12 RL: 54.81 0.5m Below FSL 99.5 1.373 32.5 32.6 98 26/08/2019 3 Lot 12 RL: 54.90 Finished Surface Level 102.0 1.469 22.0 21.7 98 27/08/2019 4 Lot 1 RL: 54.90 Finished Surface Level 100.0 1.469 22.0 22.4 98 27/08/2019 5 Lot 4 RL: 54.18 RL: 54.18 RL: 54.48 100.0 1.469 22.0 22.4 98 27/08/2019 6 Lot 10 RL: 54.48 RL: 54.48 101.0 1.381 </td <td>L34549</td> <td>20/08/2019</td> <td>-</td> <td>Lot 40</td> <td>RL: 57.89</td> <td></td> <td>0.66</td> <td>1.393</td> <td>28.2</td> <td>29.1</td> <td></td> <td>% wet of</td>	L34549	20/08/2019	-	Lot 40	RL: 57.89		0.66	1.393	28.2	29.1		% wet of
24/08/2019 1 Lot 1 RL: 53.83 Finished Surface Level 100.5 1.389 28.6	L34550	20/08/2019	2	Lot 40	RL: 58.46	Finished Surface Level	0.66	1.451	24.6	24.6		%00
26/08/2019 1 Lot 1 RL: 54.20 Finished Surface Level 103.0 1.323 33.5 34.6 98 26/08/2019 2 Lot 2 RL: 54.30 Finished Surface Level 103.5 1.373 32.3 32.6 98 26/08/2019 3 Lot 1 RL: 54.90 Finished Surface Level 103.5 1.343 32.5 33.0 98 26/08/2019 4 Lot 1 RL: 54.90 Finished Surface Level 100.0 1.469 22.0 21.7 98 27/08/2019 2 Lot 4 RL: 54.30 Finished Surface Level 100.0 1.469 22.0 22.4 98 27/08/2019 3 Lot 4 RL: 54.18 RL: 55.34 100.0 1.469 22.0 22.4 98 27/08/2019 4 Lot 4 RL: 54.48 RL: 54.48 101.0 1.381 24.2 98 27/08/2019 5 Lot 10 RL: 54.48 101.0 1.381 24.3 23.4 98 <td>L34553</td> <td>21/08/2019</td> <td>-</td> <td>Lot 1</td> <td>RL: 53.83</td> <td></td> <td>100.5</td> <td>1.389</td> <td>28.6</td> <td>28.6</td> <td>86</td> <td>% 0.0</td>	L34553	21/08/2019	-	Lot 1	RL: 53.83		100.5	1.389	28.6	28.6	86	% 0.0
26/08/2019 2 Lot 2 RL: 54.81 0.5m Below FSL 99.5 1.373 32.6 98 26/08/2019 3 Lot 12 RL: 54.80 Finished Surface Level 103.5 1.343 32.5 33.0 98 26/08/2019 4 Lot 11 RL: 54.00 Finished Surface Level 102.0 1.353 32.8 32.3 98 27/08/2019 1 Lot 4 RL: 54.90 Finished Surface Level 102.0 1.465 22.0 22.7 98 27/08/2019 2 Lot 4 RL: 55.34 RL: 55.34 102.0 1.455 22.6 22.4 98 27/08/2019 4 Lot 4 RL: 54.18 RL: 54.18 102.0 1.437 21.9 21.9 26.9 98 27/08/2019 6 Lot 10 RL: 54.48 RL: 54.48 101.0 1.381 24.3 23.4 98	L34563	26/08/2019	-	Lot 1	RL: 54.20	Finished Surface Level	103.0	1.323	33.5	34.6		% wet of
26/08/2019 3 Lot 12 RL: 53.75 Finished Surface Level 103.5 1.343 32.5 33.0 98 26/08/2019 4 Lot 11 RL: 54.60 Finished Surface Level 102.0 1.353 32.8 32.3 98 27/08/2019 1 Lot 3 RL: 54.90 Finished Surface Level 100.0 1.469 22.0 21.7 98 27/08/2019 2 Lot 4 RL: 55.34 RL: 55.34 100.0 1.465 22.6 22.4 98 27/08/2019 4 Lot 4 RL: 54.18 RL: 55.03 99.5 1.437 21.9 21.8 98 27/08/2019 6 Lot 10 RL: 54.48 RL: 54.48 101.0 1.381 24.3 23.4 98	L34564	26/08/2019	2	Lot 2	RL: 54.81	0.5m Below FSL	99.5	1.373	32.3	32.6		% wet of
26/08/2019 4 Lof 11 RL: 54.60 Finished Surface Level 102.0 1.353 32.8 32.3 98 27/08/2019 1 Lot 3 RL: 54.90 Finished Surface Level 100.0 1.469 22.0 21.7 98 27/08/2019 2 Lot 4 RL: 55.34 RL: 55.34 100.0 1.465 22.0 22.4 98 27/08/2019 3 Lot 4 RL: 54.18 RL: 54.18 98 102.0 1.420 25.9 26.9 98 27/08/2019 5 Lot 10 RL: 54.48 RL: 54.48 101.0 1.381 24.3 23.4 98	L34565	26/08/2019	က	Lot 12	RL: 53.75	Finished Surface Level	103.5	1.343	32.5	33.0		% wet of
27/08/2019 1 Lot 3 RI: 54.90 100.0 1.469 22.0 21.7 98 27/08/2019 2 Lot 4 RI: 55.34 100.0 1.465 22.6 22.4 98 27/08/2019 3 Lot 4 RI: 55.34 102.0 1.437 23.8 24.2 98 27/08/2019 4 Lot 10 RI: 55.03 99.5 1.437 21.9 21.8 98 27/08/2019 6 Lot 10 RI: 54.48 101.0 1.381 24.3 23.4 98	134595	26/08/2019	4	Lot 11	RL: 54.60	Finished Surface Level	102.0	1.353	32.8	32.3		% dry of c
27/08/2019 2 Lot 4 RL: 55.34 100.0 1.465 22.6 22.4 98 27/08/2019 3 Lot 4 RL: 54.71 102.0 1.437 23.8 24.2 98 27/08/2019 4 Lot 10 RL: 55.03 98 1.437 21.9 25.9 26.9 98 27/08/2019 6 Lot 10 RL: 55.03 101.0 1.381 24.3 23.4 98	134585	27/08/2019		Lot 3	RL: 54.90		100.0	1.469	22.0	21.7		% dry of c
27/08/2019 3 Lot 4 RL: 54.71 102.0 1.437 23.8 24.2 98 27/08/2019 4 Lot 4 RL: 54.18 102.0 1.420 25.9 26.9 98 27/08/2019 5 Lot 10 RL: 55.03 99.5 1.437 21.9 21.8 98 27/08/2019 6 Lot 10 RL: 54.48 101.0 1.381 24.3 23.4 98	134586	27/08/2019	2	Lot 4	RL: 55.34		100.0	1.465	22.6	22.4		% dry of c
27/08/2019 4 Lot 4 RL: 54.18 102.0 1.420 25.9 26.9 98 27/08/2019 5 Lot 10 RL: 55.03 99.5 1.437 21.9 21.8 98 27/08/2019 6 Lot 10 RL: 54.48 101.0 1.381 24.3 23.4 98	134587	27/08/2019	က	Lot 4	RL: 54.71		102.0	1.437	23.8	24.2		% wet of o
27/08/2019 5 Lot 10 RL: 55.03 99.5 1.437 21.9 21.8 98 27/08/2019 6 Lot 10 RL: 54.48 101.0 1.381 24.3 23.4 98	L34588	27/08/2019	4	Lot 4	RL: 54.18		102.0	1.420	25.9	26.9		% wet of c
27/08/2019 6 Lot 10 RL: 54.48 101.0 1.381 24.3 23.4 98	134589	27/08/2019	2	Lot 10	RL: 55.03		99.5	1.437	21.9	21.8		% dry of c
	L34590	27/08/2019	ø	Lot 10	RL: 54.48		101.0	1.381	24.3	23.4		% dry of c

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RYAN & ASSOCIATES GEOTECHNICAL PTY LTD

4/20 Burke Crescent North Lakes QLD 4509 Ph (07) 3491 6499 Fax (07) 3491 6299 Email: admin@ryangeotech.com.au

Loganholme

9/8 Riverland Drive Loganholme QLD 4129. Ph (07) 3209 8152 Fax (07) 3209 8153 Email: s.hunter@ryangeotech.com.au www.ryangeotech.com.au

Client Sherman Cliud Pry Lide Location Location Location Location Location Suburb Beard Samuléesert Suburb Beard	Test Summary: FD (Nuclear M	Test Summary: FD (Nuclear Meter)						Date	e Com	oiled: 14	Date Compiled: 14/01/2020	
The Sampled ID Number Location Locat	Client: Project:	Skerman Civil P Spring Creek 14	ty Ltd				emon Street sert					
277082019 7 Lot 10 RLL 54.08 99.0 1577 25.8 26.7 98.0 270082019 8 Lot 10 RLL 55.44 80.0 1482 25.8 20.9 98.0 20.0 </th <th>Lab Number</th> <th></th> <th></th> <th></th> <th>Location</th> <th></th> <th>Density Ratio (%)</th> <th>MDD (Vm³)</th> <th>OMC (%)</th> <th>Corr. FMC (%)</th> <th>Min Spec. MC Var (%) (%)</th> <th></th>	Lab Number				Location		Density Ratio (%)	MDD (Vm³)	OMC (%)	Corr. FMC (%)	Min Spec. MC Var (%) (%)	
3009/2019 1 442.2 56.0 1.442.2 26.0 25.9 9.0 1.442.2 26.0 25.9 9.0 1.442.2 26.0 25.9 9.0 1.442.2 26.0 25.9 9.0 1.442.2 26.0 25.9 9.0 2.0 25.0	L34591 L34592	27/08/2019	7 8	Lot 10 Lot 10	RL: 54.08 RL: 53.44		99.5	1.339	25.8	30.9		of om
30092019 4 Lots 2425 Boundaries RL 55.1 610.0 1457 24.5 22.6 98 30092019 5 Lots 2425 Boundaries RL 25.1 99.0 1467 24.6 22.6 98 30092019 6 Lots 2627 Boundaries RL 25.1 99.0 1467 24.6 22.6 98 30092019 7 Lots 1920 Boundaries RL 25.1 99.0 1501 22.2 22.6 39 30092019 9 Lots 1920 Boundaries RL 25.1 98.0 1501 22.2 22.6 39 30082019 1 Lots 1920 Boundaries RL 25.1 100.5 1481 22.2 39 22.2 39 30082019 2 Lots 90.0 Boundaries RL 25.6 Finished Surface Level 98.0 1501 22.1 22.1 39 13092019 3 Lot 8 RL 56.7 Finished Surface Level 99.5 1481 24.5 <t< td=""><td>L34653 L34654 L34655</td><td>3/09/2019 3/09/2019 3/09/2019</td><td>- 2 °</td><td>Lot 34 Lots 35/36</td><td>RL 55.62 Boundaries PI 55.30</td><td>RL 55.49</td><td>0.86</td><td>1.493</td><td>26.0</td><td>23.9 23.0</td><td></td><td>of ome</td></t<>	L34653 L34654 L34655	3/09/2019 3/09/2019 3/09/2019	- 2 °	Lot 34 Lots 35/36	RL 55.62 Boundaries PI 55.30	RL 55.49	0.86	1.493	26.0	23.9 23.0		of ome
3009/2019 6 Lidz 26/27 Boundaries RL 52/13 Boundaries RL 52/13 Boundaries RL 52/13 Boundaries RL 53/13 99.0 1462 24.6 23.2 198 3009/2019 7 Lots 19/20 Boundaries RL 53/13 98.0 1,501 22.1 198 3009/2019 9 Lots 19/20 Boundaries RL 53/18 100.5 1,450 23.9 22.4 98 1309/2019 1 Lot 19/20 Boundaries RL 53/18 100.5 1,481 22.1 12.9 98 1309/2019 2 Lot 9 RL 56,71 Finished Surface Level 99.5 1,481 22.4 98 1309/2019 2 Lot 8 RL 56,71 Finished Surface Level 99.5 1,347 32.5 33.7 98 1509/2019 2 Lot 8 RL 56,24 Finished Surface Level 99.5 1,347 32.4 36 98 1609/2019 1 Lot 8 RL 56,12 <	L34656 L34657	3/09/2019	o 4 ro	Lots 24/25 Lots 28/29	Boundaries Boundaries	RL 55.25 RL 52.61	101.0	1.505	24.5	23.6		of om
3/09/2019 8 Lots 19/20 Boundaries RL.53.70 99.0 1501 21.5 99 3/09/2019 9 Lots 19/20 Boundaries RL.53.18 100.5 1.450 23.9 22.4 98 3/09/2019 1 Lots 19/20 Boundaries RL.56.7 Finished Surface Level 100.0 1.352 22.5 23.3 98 13/09/2019 2 Lot 9 RL.56.7 Finished Surface Level 100.0 1.362 22.5 23.3 98 13/09/2019 2 Lot 8 RL.56.70 Finished Surface Level 99.5 1.349 31.9 33.7 98 13/09/2019 1 Lot 8 RL.56.8 RL.56.8 99.5 1.342 34.0 35.0 99 16/09/2019 2 Lot 3 Northern Comer RL.56.8 98.0 1.412 30.8 30.6 98 16/09/2019 4 Lot 4 Northern Comer RL.56.8 98.0 1.412 30.8 30.1	L34658 L34659	3/09/2019	9 2	Lots 26/27 Lots 21/22	Boundaries	RL 52.71 RL 53.73	99.0	1.462	24.6	23.2		of om
3/09/2019 10 Lots 19/20 Boundaries RL. 56,7 R. Tinished Surface Level 100 1,481 24,1 22,4 98 13/09/2019 1 Lot 10 RL. 56,77 Finished Surface Level 100 1,325 32,5 33,5 98 13/09/2019 2 Lot 9 RL. 56,77 Finished Surface Level 99,5 1,347 32,2 32,5 33,3 98 13/09/2019 3 Lot 8 RL. 56,78 Finished Surface Level 99,5 1,347 32,2 34,5 98 13/09/2019 4 Lot 9 RL. 56,20 Finished Surface Level 99,5 1,413 29,9 34,5 98 16/09/2019 3 Lot 4 Northern Corner RL. 56,89 98 1412 30,6 98 16/09/2019 4 Lot 4 Northern Corner RL. 56,89 98 1412 30,6 36,6 98 16/09/2019 5 Lot 4 Northern Corner RL. 56,99 98,0 1412 <	L34660 L34661	3/09/2019	ထတ	Lots 19/20 Lots 19/20	Boundaries	RL 53.70 RL 53.18	98.0	1.501	23.1	21.5		of om
1309/2019 2 Lot 9 RL: 56.71 Finished Surface Level 99.5 1.349 31.9 33.7 98 1309/2019 3 Lot 8 RL: 56.20 Finished Surface Level 99.5 1.347 33.2 34.5 98 1309/2020 4 Lot 9 RL: 56.18 RL: 56.80 Finished Surface Level 1.00 2.0 34.5 34.5 38.0 98 1609/2019 2 Lot 3 Northern Corner RL: 56.80 98.0 1.412 30.6 36.0 <t< td=""><td>L34662 L34743</td><td>3/09/2019</td><td>1 10</td><td>Lots 19/20 Lot 10</td><td>Boundaries RL: 55.67</td><td>RL 52.49 Finished Surface Level</td><td>98.5</td><td>1.481</td><td>24.1</td><td>33.3</td><td></td><td>of om</td></t<>	L34662 L34743	3/09/2019	1 10	Lots 19/20 Lot 10	Boundaries RL: 55.67	RL 52.49 Finished Surface Level	98.5	1.481	24.1	33.3		of om
1309/2019 4 Lot 9 RL: 56.18 Finished Surface Le99 1.342 34.0 35.0 98 1609/2019 1 Lot 3 Northern Comer RL: 56.88 98 1.413 29.9 30.4 98 1609/2019 1.412 30.8 29.8 30.4 98 1.413 30.8	L34744 L34745	13/09/2019	. 0 %	Lot 9	RL: 56.71 RI: 58.20	Finished Surface Level	99.5	1.349	31.9	33.7		of om
16/09/2019 2 Centre RL: 56.89 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.8 28.8 98.0 1412 30.6 98.0 140.0 31.0 30.6 98.0 140.0 31.0 30.1 30.8 30.1 30.8	L34746	13/09/2019) 4 -	Lot 9	RL: 56.18	BI - 56 22	100.5 Finished Surface Legg 5	1.342	34.0	35.0		of om
16/09/2019 4 Lot 4 Centre RL: 56.41 98.0 1.400 31.0 30.6 98 16/09/2019 4 Lot 4 Centre RL: 56.54 99.0 1.391 31.1 30.6 98 16/09/2019 5 Lot 5 Centre RL: 56.09 99.5 1.395 30.1 30.8 98 17/09/2019 6 Lot 7 RL: 57.99 Finished Surface Level 102.0 1.320 31.1 32.5 98 17/09/2019 2 Lot 8 RL: 57.94 Finished Surface Level 102.0 1.377 33.0 34.7 98 17/09/2019 5 Lot 4 RL: 57.94 Finished Surface Level 100.0 1.387 30.2 31.6 98 17/09/2019 6 Lot 3 RL: 55.59 Finished Surface Level 100.0 1.367 30.2 31.6 98	L34748	16/09/2019	- 01 %	Lot 3	Centre	RL: 55.68 RI: 55.89	0.86	1.413	29.9	30.4		of om
16/09/2019 5	L34750	16/09/2019) 4 r	Lot 4	Centre	RL: 56.41	0.86	1.400	31.0	30.6		of om
17/09/2019 1 Lot 7 RI: 57.99 Finished Surface Level 102.0 1.320 31.1 32.9 36 17/09/2019 2 Lot 8 RI: 58.04 Finished Surface Level 101.0 1.292 34.0 35.4 98 17/09/2019 4 Lot 5 RI: 57.94 Finished Surface Level 102.0 1.317 33.0 34.7 98 17/09/2019 6 Lot 3 RI: 55.52 Finished Surface Level 30.0 1.357 30.2 31.6 98	L34752	16/09/2019	ဂၑ	Lot 4	Centre	RL: 56.09	3.99.5	1.395	30.1	30.8		of on
17/09/2019 3 Lot 5 RL: 57.08 102.5 1.309 32.5 34.0 98 17/09/2019 4 Lot 5 RL: 57.94 Finished Surface Level 102.0 1.317 33.0 34.7 98 17/09/2019 5 Lot 4 RL: 57.09 Finished Surface Level 98.0 1.357 30.2 31.6 98 17/09/2019 6 Lot 3 RL: 55.52	L34803 L34804	17/09/2019	- 2	Lot 8	RL: 57.99 RL: 58.04	Finished Surface Level Finished Surface Level	102.0	1.320	34.0	35.4 35.4		of on
17/09/2019 5 Lot 4 RL: 57.09 Finished Surface Level 100.0 1.339 30.8 31.8 98 17/09/2019 6 Lot 3 RL: 55.52 81.5 98	L34805 L34806	17/09/2019	ω 4	Lot 5 Lot 5	RL: 57.08 RL: 57.94	Finished Surface Level	102.5 102.0	1.309	32.5	34.0		of on of on
	L34807 L34808	17/09/2019	6 5	Lot 4 Lot 3	RL: 57.09 RL: 55.52	Finished Surface Level	100.0	1.339	30.8	31.8		of on of on
		2.7									¥	

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RYAN & ASSOCIATES GEOTECHNICAL PTY LTD

4/20 Burke Crescent North Lakes QLD 4509
Ph (07) 3491 6499 Fax (07) 3491 6299
Email: admin@ryangeotech.com.au

Loganholme

9/8 Riverland Drive Loganholme QLD 4129.
Ph (07) 3209 8152 Fax (07) 3209 8153
Email: s.hunter@ryangeotech.com.au
www.ryangeotech.com.au

			f omc	f omc	f omc	fomc	of omc	f omc	of ome	of omo	of ome	of ome	of omc	of omo	of omo	of ome	of ome	of ome	www.ry
07		MC Var. (%)	1.2 % wet of om: 1.0 % dry of om:	0.5 % dry of omo	1.6 % dry of omc	0.3 % dry of omc	0.3 % wet of omo	0.3 % dry of omc 1.0 % dry of omc	0.6 % wet of omo	0.1 % wet of ome	1.1 % wet of omo	0.5 % wet of ome	0.8 % dry of omc	0.4 % dry of omo	0.3 % wet of om	0.1 % dry of ome	0.4 % wet of om	0.7 % wet of om.	
07/10		Min Spec. (%)			98 1			98 0			95 1					95 0		95 0	
Date Compiler: 14011252		Corr. FMC Min Spec. MC Var. (%) (%) (%)	31.4	34.7	33.8	33.4	35.7	34.3	36.2	35.8	38.3	35.8	36.2	35.7	35.8	34.8	35.2	35.9	
Juno		OMC (%)	30.2	35.2 35.8	35.4	33.7	35.4	35.0	35.6	35.7	37.2	35.3	37.0	36.1	35.5	34.9	34.8	35.2	
1		MDD (t/m³)	1.325	1.315	1.293	1.330	1.345	1.327	1.316	1.317	1.348	1.380	1.352	1.348	1.391	1.337	1.362	1.330	
		Density Ratio (%)	101.5	101.0	99.5	100.5	99.5	101.5	101.5	101.5	ace L100.5	99.5	101.0	ace L699.0	асе Lе98.5	99.5	ace Le97.5	ace L100.0	
	22A Telemon Street Beaudesert		NW End	NW End NW End	NW End	NW End					Finished Surface L100.5	99.5 Finished Curface 1100 A		Finished Surface Le99.0	Finished Surface Le98.5	RL 52.6	Finished Surface Le97.5	Finished Surface L100.0	
	22A Telemo Beaudesert		ce Level																
	Location: Suburb:		Finished Surface Level Centre	Centre	Centre	North Corner Centre			H	F.L	RL 53.8	RL 53.6	RL 54.1	RL 58.2	RL 56.2	Centre	RL 53.0	RL 55.5	
			RL: 56.14 F.L	F.L RI 5451	RL 55.20 F.L	RL 53.61 RI 54.31 F I	RL 51.61	RL 52.22	RL 52.51	RL 56.31	entre	entre	Centre	Centre	Centre	Nothern End	Nothern End	SE Comer	
		Location	RL: F.L	F.L	2 2	ॡ ॡ	2 62	e (צמ		3oundarie:C	3oundarie:C	SoundariesC	0	0	z	2 (ο <i>σ</i> ο	
			Lot 3 Lot 50	Lot 49	Lot 47	Lot 46	Lot 44	Lot 44	Lot 45	Lot 45	Lot 28 & 29 Boundarie:Centre	Lot 26 & 27 Boundarie:Centre	Lot 26 & 27 Boundarie:Centre	Lot 6	Lot 48	Lot 15	Lot 15	Lot 41	
	m	ID Number																0	
	Pty Lto		7								-	2	m =	4 п	9	7	00	0 0	
FD (Nuclear Meter)	Skerman Civil Pty Ltd Spring Creek 1A & 1B	Date Sampled	17/09/2019	18/09/2019	18/09/2019	18/09/2019	19/09/2019	19/09/2019	19/09/2019	19/09/2019	20/09/2019	20/09/2019	20/09/2019	20/03/2019	20/09/2019	20/09/2019	20/09/2019	20/09/2019	
D (Nucle	Client: Project:	Lab Number	L34809 L34860	L34861	L34863	L34864	L34866	L34867	134868	L34870	L34877	L34878	L34879	134881	L34882	L34883	L34884	L34886	

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4/20 Burke Crescent North Lakes QLD 4509
Ph (07) 3491 6499 Fax (07) 3491 6299
Email: admin@ryangeotech.com.au

Loganholme

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Ph (07) 3209 8152 Fax (07) 3209 8153
Email: s.hunter@ryangeotech.com.au
www.ryangeotech.com.au

Appendix C

Individual Lot Certificates

January 2020



Loganholme

9/8 Riverland Drive Loganholme QLD 4129. Ph (07) 3209 8152 Fax (07) 3209 8153 Email: s.hunter@ryangeotech.com.au www.ryangeotech.com.au

BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 1

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

The earthworks at the time of completion have been carried out to meet the requirements of Level 1 Certification as per AS3798 – 2007 "Guidelines on Earthworks for Commercial and Residential Development".

This level one certificate verifies that up to approximately 1m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

This level one certificate makes no reference to previous filling works if any or natural ground and its suitability to future design beyond its acceptance of passing proof rolling.

This level one certificate does not cover any fill placed by others prior to or after Ryan & Associates controlled filling works.

Unless otherwise stated, this Level 1 Certification does not address any other geotechnical issues which may be relevant to building construction and serviceability.

This Level 1 Certification does not include backfill to service trenches or retaining walls.

A full geotechnical site investigation/classification and foundation design for the specific ground conditions should be carried out by a suitably qualified and experienced professional, prior to building when the structure type and location is known.

Paul Shaw for and on behalf of

RYAN & ASSOCIATES GEOTECHNICIAL

Enc. Drawing showing lateral extent of controlled filling

January 2020



Loganholme

9/8 Riverland Drive Loganholme QLD 4129. Ph (07) 3209 8152 Fax (07) 3209 8153 Email: s.hunter@ryangeotech.com.au www.ryangeotech.com.au

BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 2

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 3

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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This level one certificate makes no reference to previous filling works if any or natural ground and its suitability to future design beyond its acceptance of passing proof rolling.

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 4

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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This level one certificate verifies that up to approximately 2m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

This level one certificate makes no reference to previous filling works if any or natural ground and its suitability to future design beyond its acceptance of passing proof rolling.

This level one certificate does not cover any fill placed by others prior to or after Ryan & Associates controlled filling works.

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 5

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

The earthworks at the time of completion have been carried out to meet the requirements of Level 1 Certification as per AS3798 – 2007 "Guidelines on Earthworks for Commercial and Residential Development".

This level one certificate verifies that up to approximately 1.4m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 6

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 7

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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This level one certificate verifies that up to approximately 0.5m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 8

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 9

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 10

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 11

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BULK FILL OPERATIONS TESTING CERTIFICATE

(As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 12

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BULK FILL OPERATIONS TESTING CERTIFICATE

(As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 14

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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BULK FILL OPERATIONS TESTING CERTIFICATE

(As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 15

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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BULK FILL OPERATIONS TESTING CERTIFICATE

(As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 16

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

The earthworks at the time of completion have been carried out to meet the requirements of Level 1 Certification as per AS3798 – 2007 "Guidelines on Earthworks for Commercial and Residential Development".

This level one certificate verifies that up to approximately 1.2m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

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BULK FILL OPERATIONS TESTING CERTIFICATE

(As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 17

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Telemon Street, Beaudesert
Lot 18

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This level one certificate verifies that up to approximately 2.5m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 19

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 20

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This Level 1 Certification does not include backfill to service trenches or retaining walls.

A full geotechnical site investigation/classification and foundation design for the specific ground conditions should be carried out by a suitably qualified and experienced professional, prior to building when the structure type and location is known.

Paul Shaw for and on behalf of

RYAN & ASSOCIATES GEOTECHNICIAL

Enc. Drawing showing lateral extent of controlled filling

January 2020



RYAN & ASSOCIATES GEOTECHNICAL PTY LTD

4/20 Burke Crescent North Lakes QLD 4509
Ph (07) 3491 6499 Fax (07) 3491 6299
Email: admin@ryangeotech.com.au

Loganholme

9/8 Riverland Drive Loganholme QLD 4129.
Ph (07) 3209 8152 Fax (07) 3209 8153
Email: s.hunter@ryangeotech.com.au
www.ryangeotech.com.au

BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 21

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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Enc. Drawing showing lateral extent of controlled filling

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Loganholme

9/8 Riverland Drive Loganholme QLD 4129.
Ph (07) 3209 8152 Fax (07) 3209 8153
Email: s.hunter@ryangeotech.com.au
www.ryangeotech.com.au

BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 22

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Enc. Drawing showing lateral extent of controlled filling

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Loganholme

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Ph (07) 3209 8152 Fax (07) 3209 8153
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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 23

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 24

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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BULK FILL OPERATIONS TESTING CERTIFICATE

(As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 25

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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Unless otherwise stated, this Level 1 Certification does not address any other geotechnical issues which may be relevant to building construction and serviceability.

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Paul Shaw for and on behalf of

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9/8 Riverland Drive Loganholme QLD 4129.
Ph (07) 3209 8152 Fax (07) 3209 8153
Email: s.hunter@ryangeotech.com.au
www.ryangeotech.com.au

BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 26

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

The earthworks at the time of completion have been carried out to meet the requirements of Level 1 Certification as per AS3798 – 2007 "Guidelines on Earthworks for Commercial and Residential Development".

This level one certificate verifies that up to approximately 1.2m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 27

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 28

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 29

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Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 30

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 31

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert **Lot 32**

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 33

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 34

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 35

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The earthworks at the time of completion have been carried out to meet the requirements of Level 1 Certification as per AS3798 – 2007 "Guidelines on Earthworks for Commercial and Residential Development".

This level one certificate verifies that up to approximately 0.3m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

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BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 36

The results obtained from compaction control testing together with onsite supervision made during earthworks operations indicate that fill materials were consistently placed in a controlled manner and in accordance with good engineering practice. As far as could be determined the earthworks have been carried out to meet the requirements of the drawings and specifications.

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This level one certificate verifies that up to approximately 2m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

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BULK FILL OPERATIONS TESTING CERTIFICATE

(As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B Telemon Street, Beaudesert Lot 37

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Paul Shaw for and on behalf of

RYAN & ASSOCIATES GEOTECHNICIAL

Enc. Drawing showing lateral extent of controlled filling

January 2020



Loganholme

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Ph (07) 3209 8152 Fax (07) 3209 8153
Email: s.hunter@ryangeotech.com.au
www.ryangeotech.com.au

BULK FILL OPERATIONS TESTING CERTIFICATE (As per AS3798-2007 - Level 1)

Spring Creek 1A & 1B
Telemon Street, Beaudesert
Lot 38

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This level one certificate verifies that up to approximately 1.5m of supervised fill was placed and meets the minimum requirements of 95% standard compaction where applicable as per drawing numbered C300 Revision B.

This level one certificate makes no reference to previous filling works if any or natural ground and its suitability to future design beyond its acceptance of passing proof rolling.

This level one certificate does not cover any fill placed by others prior to or after Ryan & Associates controlled filling works.

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Lot 44

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Lot 45

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Lot 48

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January 2020



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Appendix D

RPEQ Certification

January 2020 JOB NUMBER: R19-C062



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JOHN E. HENRY PTY.LTD CONSULTING ENGINEERS.

Our ref: 20.204 Your ref: R19-C062

16 January 2020.

Manager, Ryan and Associates, 4/24 Burke Crescent, North Lakes. 4509

ATN: Paul Shaw.

Dear Sir,

RE: Proposed44 subdivision development at Telemon Street, Beaudesert-Spring Creek Stage 1A and 1B.

EVERTON PARK.4053 Telephone 0733554019

Facsimile 0733554019 Email: john.henry3@bigpond.com

Contractor: Skerman Civil, P.O.Box 1039, Milton.4064

NATA Registered Geotechnical Inspecting and testing Authority: Ryan & Associates.

We have reviewed the report **No R19 -C062 dated January 2020** which certifies that works have been completed in accordance with standard fill specification requirements and Australian Standard AS 3798-2007.

We confirm that we have reviewed the records of compaction within the areas recorded on:

- Drawing No. Site Plan C300 Revision B (Appendix A);and
- Test results attached as Appendix B of Report.

The Report relates to the following lots:

 Lots 1 to 12; 14 to 41 and 44 to 49 for which certificates have been issued and are attached to the report.

We certify the following:

- The proof rolling was performed in accordance with the specification;
- We have reviewed the test results for compactions taken within the compacted fill and confirm that the requirements of the earthworks specification have been met; and
- That the fill has been placed under level 1 supervision.

Yours faithfully, JOHN E HENRY PTY LTD,

JOHN E HENRY. MIEAust. CPEng. NER. RPEQ 868

January 2020