

WORKS INSPECTION & TESTING Bulk Earthworks

PROPOSED
RESIDENTIAL
DEVELOPMENT

**Pebble Creek
Stages 4-6**

JOB NO: P2033 comp03



Prepared for CCA Winslow

11th November 2021

Document Information

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 Job Number P 2033
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INTRODUCTION

Construction Sciences was commissioned by **CCA Winslow** to carry out the geotechnical inspection and testing required for the proposed development at Pebble Creek Stages 4-6 - 230 Mountain Ridge Road, South McLean, which was carried out between 06th March and 3rd September 2021.

SCOPE OF WORKS

The Earthworks on this development was monitored in accordance with the scope of our commission as follows:-

Level 1 : Bulk earthworks stripping and filling was inspected and tested on a Level 1 basis, in accordance with AS 3798-2007.

Scope of Level 1 responsibility: ***“The primary objective of Level 1 Inspection and Testing is for the geotechnical inspection and testing authority (GITA) to be able to express an opinion on the compliance of the work. The GITA is responsible for ensuring that the inspection and testing is sufficient for this purpose.***

The GITA needs to have competent personnel on site at all times while earthwork operations are undertaken. Such operations include the following:

- (a) Completion of removal of topsoil.***
- (b) Placing of imported or cut material.***
- (c) Compaction and adding/removal of moisture.***
- (d) Trenching and backfilling, where applicable.***
- (e) Test rolling.***
- (f) Testing.***

The superintendent should agree on a suitable inspection and testing plan prior to the commencement of the works”.

reference AS3798 – Section 8.2

SPECIFICATION REQUIREMENTS

Earthworks on this development was inspected and tested in accordance with the specification of the design engineer, **PEAKURBAN Development Engineers + Advisors** and to the specifications of the local authority, **Logan City Council**.

The following table is a summary of the basic compaction and quality requirements for the project.

Testing procedures used to confirm that these requirements were met were all in accordance with Australian Standard test methods

SPECIFICATIONS	
<i>Item</i>	<i>Minimum Compaction Requirement</i>
<i>Bulk Earthworks Fill</i>	<i>95% Wet Density Ratio - Standard</i>

SITE WORKS - BULK EARTHWORKS

General : Full time site inspection was maintained in accordance with Level 1 requirements whilst earthworks were carried out on this development. Fill areas included residential allotments, roads and embankments.

The areas to be filled were stripped and proof rolled in accordance with the specification requirements. Areas displaying instability were generally excavated until competent conditions were encountered. Benching was provided on slopes where filling was to be placed.

The natural ground in the areas of filling generally comprised sandy CLAYS and clayey to gravelly SANDS.

The material used in the bulk earthworks filling was sourced from site cutting to design levels.

Compaction Control Testing : Compaction control testing via the nuclear densometer method was carried out at regular intervals throughout the placement of fill, in accordance with the minimum test frequency recommendations included in AS3798 "Guidelines on Earthworks for Commercial and Residential Developments".

All test results are included in Appendix A. A summary of the test results is included as Table 1. A total of 87 field density tests were carried out throughout the earthworks. The average wet density ratio was recorded to be 98.7%. The maximum wet density ratio was 104.0% and minimum was 95%.

CONCLUSION

We confirm that:

- (a) Our representative was in full time site attendance whilst bulk earthworks filling was in progress between 06th March and 3rd September 2021 at Pebble Creek Stages 4-6.
- (b) Pre – fill ground preparation was carried out in accordance with the specifications and site instruction given.
- (c) The structural filling placed to design levels during the term of our engagement on a "Level 1" basis can be termed "controlled filling".
- (d) The results of the compaction control testing indicate that the fill placed during the term of our site attendance, was compacted to at least the minimum specified wet density ratio.
- (e) All test results pertaining to the development are included within appendix A of this report.



WAYNE GORMAN
LABORATORY MANAGER
Construction Sciences



CLIENT: CCA Winslow	JOB No.: P 2033
PROJECT: PEBBLE CREEK STAGE 5	SKETCH No.: SK 1
TEST ITEM: SITE PHOTOS	DATE ISSUED: 20/10/2021



CLIENT: CCA Winslow	JOB No.: P 2033
PROJECT: PEBBLE CREEK STAGE 5	SKETCH No.: SK 2
TEST ITEM: SITE PHOTOS	DATE ISSUED: 20/10/2021



CLIENT: CCA Winslow	JOB No.: P 2033
PROJECT: PEBBLE CREEK STAGE 5	SKETCH No.: SK 3
TEST ITEM: SITE PHOTOS	DATE ISSUED: 20/10/2021

Bulk Fill

Client:	CCA Winslow	Date Range:	-
Project:	1979/P/2033 - Pebble Creek Stage 4, 5 & 6	Material Source / Type:	-

Sample Client Reference	Sample Number	Sample Date	Location 1	Location 2	Location 3	Location 4	Wet Density Ratio	Moisture Ratio
EW-01	1979/S/153855	6/03/2021	Lot 1102	S/E Corner	24m N, 3m W	0.4m Below F/L	100.5	84.5
EW-02	1979/S/153856	6/03/2021	Lot 1105	S/E Corner	22m N, 6m W	0.8m Below F/L	100	83
EW-03	1979/S/153857	6/03/2021	Lot 1103	S/E Corner	6m N, 2m W	1.2m Below F/L	100.5	83
EW-04	1979/S/153858	6/03/2021	Lot 1104	S/E Corner	10m N, 5m W	1.6m Below F/L	101.5	80
EW-05	1979/S/154309	12/03/2021	Lot 513	SW Corner	6m N, 8m E	0.2m Below F/L	99.5	79
EW-06	1979/S/154310	12/03/2021	Lot 512	SW Corner	5m N, 7m E	0.3m Below F/L	100	79
EW-07	1979/S/154311	12/03/2021	Lot 511	SW Corner	9m N, 9m E	0.2m Below F/L	97.5	81
EW-08	1979/S/154312	12/03/2021	Lot 510	SW Corner	5m N, 7m E	0.3m Below F/L	99.5	82
EW-09	1979/S/155076	26/03/2021	Lot 411	O/S N/E Corner	4m N, 3m W	0.3m Below Finished Level	96.5	100
EW-10	1979/S/155077	26/03/2021	Lot 410	O/S N/E Corner	5m N, 4m W	0.3m Below Finished Level	95	80
EW-11	1979/S/155078	26/03/2021	Lot 409	O/S N/E Corner	3m N, 3m W	0.4m Below Finished Level	100.5	84
EW-12	1979/S/155079	26/03/2021	Embankment Fill	2m Nth of Road02	Nth of Allotment 411	2.0m Below Finished Level	95.5	80.5
EW-13	1979/S/155080	26/03/2021	Embankment Fill	Nth Edge of Road02	Nth of Allotment 410	2.0m Below Finished Level	98	92
EW-14	1979/S/155081	26/03/2021	Embankment Fill	1m Nth of Road02	Nth of Allotment 409	2.0m Below Finished Level	97	95
EW-15	1979/S/155391	29/03/2021	Balter	6m North of Road2		1.5m Bellow FSL	101	100
EW-16	1979/S/155392	29/03/2021	Balter	3m North of Road 2		1.2 Bellow FSI	100.5	101.5
EW-17	1979/S/155393	29/03/2021	Lot411	1m Left of 411		1m Bellow FSI	99.5	100
EW-18	1979/S/155394	29/03/2021	Lot409	1m Right of CL		0.9m Bellows FSL	102	110
EW-19	1979/S/155395	29/03/2021	Lot 413	OS N/E Corner	5m S, 4m W	0.200 Bellow FSL	100.5	88.5
EW-20	1979/S/155396	29/03/2021	Lot 411	OS N/E Corner	4m S, 2m W	0.200 Bellow FSL	100	103
EW-21	1979/S/155397	29/03/2021	Lot 531	OS N/E Corner	3m S, 5M W		99.5	101
EW-22	1979/S/155398	29/03/2021	Lot 532	OS N/E Corner	4m S, 3m, W		100	106.5
EW-23	1979/S/155399	29/03/2021	Lot533	OS N/E Corner	2m S, 2m W		99	102.5
EW-24	1979/S/156187	14/04/2021	Lot 610	OS NE Corner	9m S, 4m W	0.3m < FL	104	101
EW-25	1979/S/156188	14/04/2021	Lot 610	OS NE Corner	5m S, 3m W	0.6m < FL	103	100
EW-26	1979/S/156189	14/04/2021	Lot 611	OS NE Corner	8m S, 6m W	0.4m < FL	96.5	100
EW-27	1979/S/156190	14/04/2021	Lot 611	OS NE Corner	5m S, 4m W	0.7m < FL	98.5	101
EW-28	1979/S/156191	14/04/2021	Lot 519	OS NE Corner	4m S, 5m W	Finished Level	98	103.5
EW-29	1979/S/156192	14/04/2021	Lot 520	OS NE Corner	5m S, 5m W	Finished Leve	99	104
EW-30	1979/S/156455	13/04/2021	Lot 601	4m Off North Boundary	6m Off East Boundary	RL 40.07	100.5	104
EW-31	1979/S/156456	13/04/2021	Lot 426	4m Off North Boundary	6m Off East Boundary	RL 39.78	99	102
EW-32	1979/S/156457	13/04/2021	Lot 425	2m Off North Boundary	4m Off East Boundary	RL 39.46	100.5	101
EW-33	1979/S/156458	13/04/2021	Lot 425	6m Off North Boundary	8m Off East Boundary	RL 39.31	100.5	102
EW-34	1979/S/156459	13/04/2021	Lot 513	4m Off North Boundary	6m Off East Boundary	F/L	100.5	101
EW-35	1979/S/156460	13/04/2021	Lot 511	4m Off North Boundary	6m Off East Boundary	F/L	95.5	108.5
EW-36	1979/S/156461	13/04/2021	Lot 509	4m Off North Boundary	6m Off East Boundary	F/L	96	102.5
EW-37	1979/S/156462	13/04/2021	Lot 514	4m Off North Boundary	6m Off East Boundary	F/L	98.5	102
EW-38	1979/S/156463	13/04/2021	Lot 515	4m Off North Boundary	6m Off East Boundary	F/L	99	102
EW-39	1979/S/156464	13/04/2021	Lot 516	4m Off North Boundary	6m Off East Boundary	F/L	96.5	101
EW-40	1979/S/156465	13/04/2021	Lot 517	4m Off North Boundary	6m Off East Boundary	F/L	97.5	101.5
EW-41	1979/S/156466	13/04/2021	Lot 518	4m Off North Boundary	6m Off East Boundary	F/L	97.5	105
EW-42	1979/S/156515	16/04/2021	Lot 443	N/E Corner	6m S, 4m W	0.6m< FL	99	105.5
EW-43	1979/S/156516	16/04/2021	Lot 442	N/E Corner	8m S 3m W	0.3m<FL	98.5	105
EW-44	1979/S/156517	16/04/2021	Lot 441	N/E Corner	3m S, 3m W	Finshed Level	100	101
EW-45	1979/S/156518	16/04/2021	Lot 604	N/E Corner	6m S, 14m W	0.6m<FL	96	102.5
EW-46	1979/S/156519	16/04/2021	Lot 604	N/E Corner	5m S, 10m W	Finshed Leve	96.5	102
EW-47	1979/S/156520	16/04/2021	Lot 603	N/E Corner	6m S, 12 m W	0.7m <FL	98	102.5
EW-48	1979/S/156521	16/04/2021	Lot 603	N/E Corner	3m S, 12m W	Finshed Leve	95.5	100

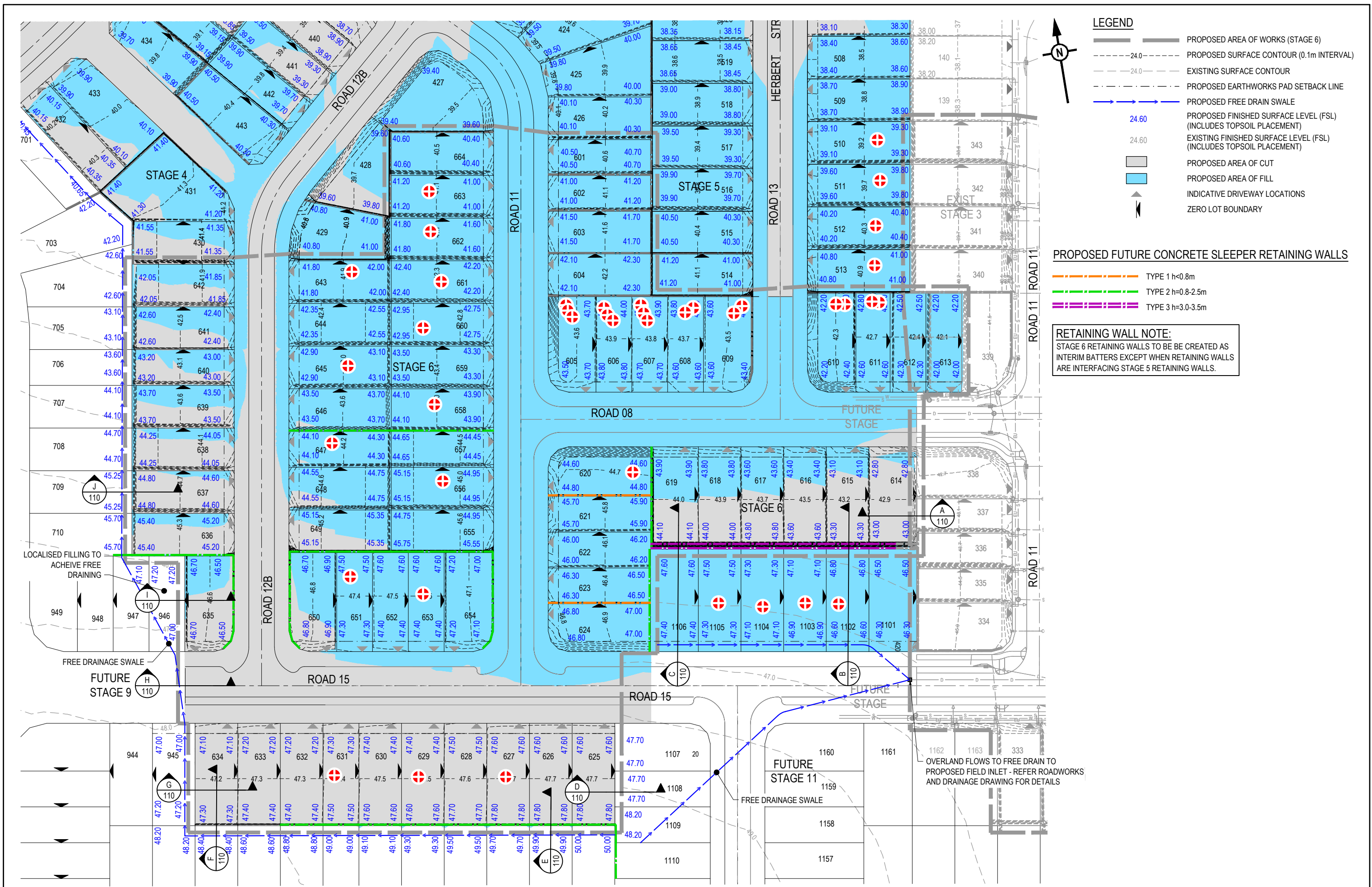
EW-49	1979/S/156522	16/04/2021	Lot 602	N/E Corner	4m S,13m W	0.6m<FL	96.5	102
EW-50	1979/S/156523	16/04/2021	Lot 602	N/E Corner	5m S, 10 m W	Finished Leve	99.5	102
EW-51	1979/S/156846	22/04/2021	Lot 605	Offset N/W Corner	6m S, 2m E	0.9m < Finished Level	99	90
EW-52	1979/S/156847	22/04/2021	Lot 605	Offset N/W Corner	8m S, 3m E	0.4m < Finished Leve	100.5	89.5
EW-53	1979/S/156848	22/04/2021	Lot 605	Offset N/W Corner	9m S, 4m E	Finished Leve	99.5	102
EW-54	1979/S/156849	22/04/2021	Lot 606	Offset N/W Corner	4m S, 4m E	0.8m < Finished Leve	100	81
EW-55	1979/S/156850	22/04/2021	Lot 606	Offset N/W Corner	7m S, 5m E	0.5m < Finished Leve	98	81
EW-56	1979/S/156851	22/04/2021	Lot 606	Offset N/W Corner	8m S, 3m E	Finished Leve	100	80.5
EW-57	1979/S/156852	22/04/2021	Lot 607	Offset N/W Corner	5m S, 3m E	1.0m < Finished Leve	97	104
EW-58	1979/S/156853	22/04/2021	Lot 607	Offset N/W Corner	7m S, 4m E	0.5m < Finished Leve	97.5	103.5
EW-59	1979/S/156854	22/04/2021	Lot 607	Offset N/W Corner	9m S, 25m E	Finished Leve	96.5	101
EW-60	1979/S/157157	22/04/2021	Lot 424	Offset N/E Corner	5m Sth, 8m West	0.8m Below F/L	101	101.5
EW-61	1979/S/157158	22/04/2021	Lot 424	Offset N/E Corner	7m Sth, 11m West	0.2m Below F/L	100.5	103.5
EW-62	1979/S/157159	22/04/2021	Lot 423	Offset N/E Corner	3m Sth, 3m West	0.1m Below F/L	99.5	100
EW-63	1979/S/157160	22/04/2021	Lot 422	Offset N/E Corner	4m Sth, 2m West	F/L	98	101
EW-64	1979/S/157161	22/04/2021	Lot 434	Offset N/E Corner	6m Sth, 4m West	F/L	96	101.5
EW-65	1979/S/157162	22/04/2021	Lot 433	Offset N/E Corner	7m Sth, 3m West	F/L	100	101.5
EW-66	1979/S/157163	22/04/2021	Lot 432	Offset N/E Corner	4m Sth, 2m West	F/L	97.5	103.5
EW-67	1979/S/157164	22/04/2021	Lot 608	Offset N/E Corner	8m Sth, 3m West	0.9m Below F/L	98.5	102
EW-68	1979/S/157165	22/04/2021	Lot 608	Offset N/E Corner	4m Sth, 4m West	0.2m Below F/L	100	102
EW-69	1979/S/157166	22/04/2021	Lot 609	Offset N/E Corner	9m Sth, 3m West	0.8m Below F/L	97.5	102
EW-70	1979/S/157167	22/04/2021	Lot 609	Offset N/E Corner	3m Sth, 4m West	0.2m Below F/L	99	100
EW-71	1979/S/157168	22/04/2021	Lot 620	Offset N/E Corner	3m Sth, 9m West	0.1m Below F/L	96	101
BF1	1979/S/165278	29/07/2021	Lot 647	N/W Corner	7m Sth, 19m East	0.1m Below F/L	95.5	99
BF2	1979/S/165279	29/07/2021	Lot 645	N/W Corner	10m Sth, 13m East	0.5m Below F/L	97	97.5
BF3	1979/S/165280	29/07/2021	Lot 661	N/W Corner	8m Sth, 17m East	0.6m Below F/L	96.5	97.5
BF4	1979/S/165281	29/07/2021	Lot 643	N/W Corner	7m Sth, 15m East	0.3m Below F/L	98.5	96.5
BF5	1979/S/165282	29/07/2021	Lot 663	N/W Corner	6m Sth, 12m East	0.7m Below F/L	98.5	95
	1979/S/169858	17/09/2021	6538.57	25766.27	34.75	Bio Basin	97.5	90
	1979/S/169859	17/09/2021	6547.10	25769.33	34.82	Bio Basin	97.5	97
	1979/S/168215	31/08/2021	Lot 662	Offset Nth/East Corner of Lot	4m South, 5m West	RL: 41.5	98	87
	1979/S/168216	31/08/2021	Lot 660	Offset Nth/East Corner of Lot	4m South, 8m West	RL: 42.6	100	85
	1979/S/168217	31/08/2021	Lot 658	Offset Nth/East Corner of Lot	5m South, 6m West	RL: 43.9	97.5	75.5
	1979/S/168218	31/08/2021	Lot 656	Offset Nth/East Corner of Lot	3m South, 8m West	RL: 44.8	98	82
	1979/S/168650	3/09/2021	Lot 631	N/E Corner	8m South, 4m West	RL: 47.3	99	86
	1979/S/168651	3/09/2021	Lot 629	N/E Corner	10m South, 5m West	RL: 47.2	98	87.5
	1979/S/168652	3/09/2021	Lot 627	N/E Corner	6m South, 3m West	RL: 47.4	100.5	87.5
	1979/S/168653	3/09/2021	Lot 651	N/E Corner	8m South, 4m West	RL: 47.3	100	90
	1979/S/168654	3/09/2021	Lot 653	N/E Corner	6m South, 5m West	RL: 47.4	101	88

APPENDIX

A

BULK EARTHWORKS
FILL





LEGEND

- PROPOSED AREA OF WORKS (STAGE 6)
- PROPOSED SURFACE CONTOUR (0.1m INTERVAL)
- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED FREE DRAIN SWALE
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (INCLUDES TOPSOIL PLACEMENT)
- 24.60 EXISTING FINISHED SURFACE LEVEL (FSL) (INCLUDES TOPSOIL PLACEMENT)
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- INDICATIVE DRIVEWAY LOCATIONS
- ZERO LOT BOUNDARY

PROPOSED FUTURE CONCRETE SLEEPER RETAINING WALLS

- TYPE 1 h<0.8m
- TYPE 2 h=0.8-2.5m
- TYPE 3 h=3.0-3.5m

RETAINING WALL NOTE:
 STAGE 6 RETAINING WALLS TO BE CREATED AS INTERIM BATTERS EXCEPT WHEN RETAINING WALLS ARE INTERFACING STAGE 5 RETAINING WALLS.

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>29.01.21</td> <td>DC</td> <td>MPG</td> <td>ORIGINAL ISSUE</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	1	29.01.21	DC	MPG	ORIGINAL ISSUE	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>TROY SCHULTZ</td> <td>APPROVED</td> </tr> </tbody> </table>	DRAWN	STATUS	TROY SCHULTZ	APPROVED	<p>NOT FOR CONSTRUCTION</p> <p>PEAKURBAN DEVELOPMENT ENGINEERS • ADVISORS</p> <p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:500 10 5 0 10 20 A1</p> <p>1:1000</p>	<p>CLIENT</p> <p>ORCHARD (PEBBLE CREEK) DEVELOPMENTS P.L.</p> <p>ASSOCIATED CONSULTANT SURVEYOR: LANDPARTNERS PH: (07) 3842 1032</p>	<p>PROJECT NAME</p> <p>PEBBLE CREEK RESIDENTIAL DEVELOPMENT STAGE 5</p> <p>MOUNTAIN RIDGE ROAD, SOUTH MACLEAN</p>	<p>DRAWING TITLE</p> <p>STAGE 6 BULK EARTHWORKS LAYOUT PLAN</p> <p>PROJECT No. 20-0205 DRAWING No. 108 REVISION 1</p>
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																
1	29.01.21	DC	MPG	ORIGINAL ISSUE																
DRAWN	STATUS																			
TROY SCHULTZ	APPROVED																			



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/56261-1 Project Number: 1979/P/2033 Lot Number: 06/03 Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 19/03/2021 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/153855	1979/S/153856	1979/S/153857	1979/S/153858
ID / Client ID	EW-01	EW-02	EW-03	EW-04
Lot Number	06/03	06/03	06/03	06/03
Date / Time Tested	6/03/2021 06:28	6/03/2021 06:35	6/03/2021 06:44	6/03/2021 06:53
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 1102 S/E Corner 24m N, 3m W	Lot 1105 S/E Corner 22m N, 6m W	Lot 1103 S/E Corner 6m N, 2m W	Lot 1104 S/E Corner 10m N, 5m W
Level	0.4m Below F/L	0.8m Below F/L	1.2m Below F/L	1.6m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/153855	1979/S/153856	1979/S/153857	1979/S/153858
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
Moisture Test Results:				
Field Moisture Content (%)	11.6	10.7	10.6	8.4
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	13.5	13.0	13.0	10.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	84.5	83.0	83.0	80.0
Density Test Results:				
Field Wet Density (t/m ³)	2.08	2.07	2.08	2.10
Adj/Peak Conv Wet Density (t/m ³)	2.08	2.07	2.07	2.07
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.5	100.0	100.5	101.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/56262-1 Project Number: 1979/P/2033 Lot Number: 12/03 Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 19/03/2021 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/154309	1979/S/154310	1979/S/154311	1979/S/154312
ID / Client ID	EW-05	EW-06	EW-07	EW-08
Lot Number	12/03	12/03	12/03	12/03
Date / Time Tested	12/03/2021 13:05	12/03/2021 13:14	12/03/2021 13:20	12/03/2021 13:26
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 513	Lot 512	Lot 511	Lot 510
	S/W Corner	S/W Corner	S/W Corner	S/W Corner
	6m N, 8m E	5m N, 7m E	9m N, 9m E	5m N, 7m E
Level	0.2m Below F/L	0.3m Below F/L	0.2m Below F/L	0.3m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/154309	1979/S/154310	1979/S/154311	1979/S/154312
Sample Description	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Brown
Moisture Test Results:				
Field Moisture Content (%)	7.9	7.5	8.0	9.0
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	10.0	9.5	10.0	11.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	79.0	79.0	81.0	82.0
Density Test Results:				
Field Wet Density (t/m ³)	2.16	2.14	2.14	2.12
Adj/Peak Conv Wet Density (t/m ³)	2.18	2.13	2.19	2.13
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.5	100.0	97.5	99.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/56509-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 5	Lot Number: 26/03
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/30276
Component: Bulk Earthworks	Client Reference/s: Bulk Earthworks
Area Description: Stage 5	Report Date / Page: 31/03/2021 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/155076	1979/S/155077	1979/S/155078	1979/S/155079
ID / Client ID	EW-09	EW-10	EW-11	EW-12
Lot Number	26/03	26/03	26/03	26/03
Date / Time Tested	26/03/2021 14:30	26/03/2021 14:45	26/03/2021 15:00	26/03/2021 15:10
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 411	Lot 410	Lot 409	Embankment Fill
	O/S N/E Corner	O/S N/E Corner	O/S N/E Corner	2m Nth of Road02
	4m N, 3m W	5m N, 4m W	3m N, 3m W	Nth of Allotment 411
Level	0.3m Below Finished Level	0.3m Below Finished Level	0.4m Below Finished Level	2.0m Below Finished Level
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/155076	1979/S/155077	1979/S/155078	1979/S/155079
Sample Description	Sandy Clay Brown	Sandy Clay Brown	brown sand	Sandy Clay Red/Brown
Moisture Test Results:				
Field Moisture Content (%)	9.2	7.6	8.8	7.8
Adjusted / Moisture Variation (%)	0.0	2.0	2.0	2.0
Optimum Moisture Content (%)	9.0	9.5	10.5	9.5
Moisture Variation from OMC	(at OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	100.0	80.0	84.0	80.5
Density Test Results:				
Field Wet Density (t/m ³)	2.15	2.06	2.06	2.07
Adj/Peak Conv Wet Density (t/m ³)	2.23	2.16	2.05	2.17
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	96.5	95.0	100.5	95.5

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/56509-1 Project Number: 1979/P/2033 Lot Number: 26/03 Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 31/03/2021 Page 2 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/155080	1979/S/155081	
ID / Client ID	EW-13	EW-14	
Lot Number	26/03	26/03	
Date / Time Tested	26/03/2021 15:25	26/03/2021 15:40	
Material Source	On-Site	On-Site	
Material Type	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	
Standard or Modified	Standard	Standard	
Location	Embankment Fill	Embankment Fill	
	Nth Edge of Road02	1m Nth of Road02	
	Nth of Allotment 410	Nth of Allotment 409	
Level	2.0m Below Finished Level	2.0m Below Finished Level	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	1979/S/155080	1979/S/155081	
Sample Description	brown /red sand	brown/red sand	
Moisture Test Results:			
Field Moisture Content (%)	9.4	9.9	
Adjusted / Moisture Variation (%)	1.0	0.5	
Optimum Moisture Content (%)	10.0	10.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
Moisture Ratio (%)	92.0	95.0	
Density Test Results:			
Field Wet Density (t/m ³)	2.13	2.12	
Adj/Peak Conv Wet Density (t/m ³)	2.17	2.18	
Density Ratio Required (%)	95	95	
Hilf Density Ratio (%)	98.0	97.0	

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/57776-1 Project Number: 1979/P/2033 Lot Number: 29/3 Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 26/05/2021 Page 1 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/155391	1979/S/155392	1979/S/155393	1979/S/155394
ID / Client ID	EW-15	EW-16	EW-17	EW-18
Lot Number	29/3	29/3	29/3	29/3
Date / Time Tested	29/03/2021	29/03/2021	29/03/2021	29/03/2021
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Batter 6m North of Road2	Batter 3m North of Road 2	Lot411 1m Left of 411	Lot409 1m Right of CL
Level	1.5m Bellow FSL	1.2 Bellow FSL	1m Bellow FSL	0.9m Bellows FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/155391	1979/S/155392	1979/S/155393	1979/S/155394
Sample Description	Sand, Gravel - Brown	Sand, Gravel - Brown	Sand, Gravel - Brown	Sand, Gravel - Brown
Moisture Test Results:				
Field Moisture Content (%)	8.1	7.2	8.0	8.9
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	-1.0
Optimum Moisture Content (%)	8.0	7.0	8.0	8.0
Moisture Variation from OMC	(at OMC)	(Wetter than OMC)	(at OMC)	(Wetter than OMC)
Moisture Ratio (%)	100.0	101.5	100.0	110.0
Density Test Results:				
Field Wet Density (t/m ³)	2.12	2.15	2.08	2.15
Adj/Peak Conv Wet Density (t/m ³)	2.10	2.14	2.09	2.11
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	101.0	100.5	99.5	102.0

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/57776-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 5	Lot Number: 29/3
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/30276
Component: Bulk Earthworks	Client Reference/s: Bulk Earthworks
Area Description: Stage 5	Report Date / Page: 26/05/2021 Page 2 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/155395	1979/S/155396	1979/S/155397	1979/S/155398
ID / Client ID	EW-19	EW-20	EW-21	EW-22
Lot Number	29/3	29/3	29/3	29/3
Date / Time Tested	29/03/2021	29/03/2021	29/03/2021	29/03/2021
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 413	Lot 411	Lot 531	Lot 532
	OS N/E Corner	OS N/E Corner	OS N/E Corner	OS N/E Corner
	5m S, 4m W	4m S, 2m W	3m S, 5M W	4m S, 3m, W
Level	0.200 Bellow FSL	0.200 Bellow FSL		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/155395	1979/S/155396	1979/S/155397	1979/S/155398
Sample Description	sand, clay, gravel - brown	Sand, Gravel - Brown	Sand, Gravel - Brown	Sand, Gravel - Brown
Moisture Test Results:				
Field Moisture Content (%)	12.4	10.1	9.8	10.0
Adjusted / Moisture Variation (%)	1.5	-0.5	0.0	-0.5
Optimum Moisture Content (%)	14.0	10.0	9.5	9.5
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	88.5	103.0	101.0	106.5
Density Test Results:				
Field Wet Density (t/m ³)	2.09	2.15	2.16	2.18
Adj/Peak Conv Wet Density (t/m ³)	2.08	2.14	2.18	2.18
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.5	100.0	99.5	100.0

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/57776-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 5	Lot Number: 29/3
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/30276
Component: Bulk Earthworks	Client Reference/s: Bulk Earthworks
Area Description: Stage 5	Report Date / Page: 26/05/2021 Page 3 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/155399		
ID / Client ID	EW-23		
Lot Number	29/3		
Date / Time Tested	29/03/2021		
Material Source	On-Site		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	300 / 300 / 300		
Standard or Modified	Standard		
Location	Lot533		
	OS N/E Corner		
	2m S, 2m W		
Level			
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	1979/S/155399		
Sample Description	Sand, Gravel - Brown		
Moisture Test Results:			
Field Moisture Content (%)	11.5		
Adjusted / Moisture Variation (%)	-0.5		
Optimum Moisture Content (%)	11.0		
Moisture Variation from OMC	(Wetter than OMC)		
Moisture Ratio (%)	102.5		
Density Test Results:			
Field Wet Density (t/m ³)	2.18		
Adj/Peak Conv Wet Density (t/m ³)	2.19		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	99.0		

Remarks

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Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/57777-1 Project Number: 1979/P/2033 Lot Number: Various Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 26/05/2021 Page 1 of 5
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156187	1979/S/156188	1979/S/156189	1979/S/156190
ID / Client ID	EW-24	EW-25	EW-26	EW-27
Lot Number	14/04	14/04	14/04	14/04
Date / Time Tested	14/04/2021 10:45	14/04/2021 10:55	14/04/2021 11:05	14/04/2021 11:20
Material Source	Cut to Fill	Cut to Fill	Cut to Fill	Cut to Fill
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 610	Lot 610	Lot 611	Lot 611
	OS NE Corner	OS NE Corner	OS NE Corner	OS NE Corner
	9m S, 4m W	5m S, 3m W	8m S, 6m W	5m S, 4m W
Level	0.3m < FL	0.6m < FL	0.4m < FL	0.7m < FL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156187	1979/S/156188	1979/S/156189	1979/S/156190
Sample Description	brown clay sand	Brown clay sand	brown clay sand	brown silty sand
Moisture Test Results:				
Field Moisture Content (%)	12.6	12.3	12.8	11.9
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	12.5	12.5	13.0	12.0
Moisture Variation from OMC	(Wetter than OMC)	(at OMC)	(at OMC)	(Wetter than OMC)
Moisture Ratio (%)	101.0	100.0	100.0	101.0
Density Test Results:				
Field Wet Density (t/m ³)	2.19	2.16	2.08	2.09
Adj/Peak Conv Wet Density (t/m ³)	2.10	2.10	2.16	2.12
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	104.0	103.0	96.5	98.5

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/57777-1 Project Number: 1979/P/2033 Lot Number: Various Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 26/05/2021 Page 2 of 5
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156191	1979/S/156192	1979/S/156455	1979/S/156456
ID / Client ID	EW-28	EW-29	EW-30	EW-31
Lot Number	14/04	14/04	13/04	13/04
Date / Time Tested	14/04/2021 11:40	14/04/2021 11:50	13/04/2021 12:10	13/04/2021 12:20
Material Source	Cut to Fill	Cut to Fill	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 519	Lot 520	Lot 601	Lot 426
	OS NE Corner	OS NE Corner	4m Off North Boundary	4m Off North Boundary
	4m S, 5m W	5m S, 5m W	6m Off East Boundary	6m Off East Boundary
Level	Finished Level	Finished Level	RL 40.07	RL 39.78
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156191	1979/S/156192	1979/S/156455	1979/S/156456
Sample Description	brown clay	brown clay	Clay, Sand - brown	Clay, Sand - brown
Moisture Test Results:				
Field Moisture Content (%)	15.8	7.9	10.1	9.1
Adjusted / Moisture Variation (%)	-0.5	-0.5	-0.5	0.0
Optimum Moisture Content (%)	15.5	7.5	9.5	9.0
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	103.5	104.0	104.0	102.0
Density Test Results:				
Field Wet Density (t/m ³)	2.07	2.07	2.16	2.08
Adj/Peak Conv Wet Density (t/m ³)	2.12	2.10	2.15	2.11
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	98.0	99.0	100.5	99.0

Remarks

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 Accreditation Number: 1986
 Corporate Site Number: 1979



Approved Signatory: Wayne Gorman

Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/57777-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 5	Lot Number: Various
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/30276
Component: Bulk Earthworks	Client Reference/s: Bulk Earthworks
Area Description: Stage 5	Report Date / Page: 26/05/2021 Page 3 of 5

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156457	1979/S/156458	1979/S/156459	1979/S/156460
ID / Client ID	EW-32	EW-33	EW-34	EW-35
Lot Number	13/04	13/04	13/04	13/04
Date / Time Tested	13/04/2021 12:40	13/04/2021 12:45	13/04/2021 12:49	13/04/2021 13:01
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 425 2m Off North Boundary 4m Off East Boundary	Lot 425 6m Off North Boundary 8m Off East Boundary	Lot 513 4m Off North Boundary 6m Off East Boundary	Lot 511 4m Off North Boundary 6m Off East Boundary
Level	RL 39.46	RL 39.31	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156457	1979/S/156458	1979/S/156459	1979/S/156460
Sample Description	Clay, Sand - brown	Clay, Sand - brown	brownclay sand	brown sand
Moisture Test Results:				
Field Moisture Content (%)	9.2	9.3	8.2	6.4
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	-0.5
Optimum Moisture Content (%)	9.0	9.0	8.0	6.0
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	101.0	102.0	101.0	108.5
Density Test Results:				
Field Wet Density (t/m ³)	2.16	2.07	2.13	1.94
Adj/Peak Conv Wet Density (t/m ³)	2.15	2.07	2.12	2.04
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.5	100.5	100.5	95.5

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/57777-1 Project Number: 1979/P/2033 Lot Number: Various Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 26/05/2021 Page 4 of 5
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156461	1979/S/156462	1979/S/156463	1979/S/156464
ID / Client ID	EW-36	EW-37	EW-38	EW-39
Lot Number	13/04	13/04	13/04	13/04
Date / Time Tested	13/04/2021 13:11	13/04/2021 13:19	13/04/2021 13:26	13/04/2021 13:32
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 509 4m Off North Boundary 6m Off East Boundary	Lot 514 4m Off North Boundary 6m Off East Boundary	Lot 515 4m Off North Boundary 6m Off East Boundary	Lot 516 4m Off North Boundary 6m Off East Boundary
Level	F/L	F/L	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156461	1979/S/156462	1979/S/156463	1979/S/156464
Sample Description	brown clay	brown gravelly clay	brown clay gravel	Clay, Sand - brown
Moisture Test Results:				
Field Moisture Content (%)	12.7	11.2	9.9	8.6
Adjusted / Moisture Variation (%)	-0.5	0.0	0.0	0.0
Optimum Moisture Content (%)	12.5	11.0	9.5	8.5
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	102.5	102.0	102.0	101.0
Density Test Results:				
Field Wet Density (t/m ³)	2.04	2.07	2.13	1.95
Adj/Peak Conv Wet Density (t/m ³)	2.12	2.10	2.15	2.02
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	96.0	98.5	99.0	96.5

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stage 5	Report Number: 1979/R/57777-1 Project Number: 1979/P/2033 Lot Number: Various Internal Test Request: 1979/T/30276 Client Reference/s: Bulk Earthworks Report Date / Page: 26/05/2021 Page 5 of 5
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156465	1979/S/156466	
ID / Client ID	EW-40	EW-41	
Lot Number	13/04	13/04	
Date / Time Tested	13/04/2021 13:41	13/04/2021 13:49	
Material Source	On-Site	On-Site	
Material Type	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	
Location	Lot 517 4m Off North Boundary 6m Off East Boundary	Lot 518 4m Off North Boundary 6m Off East Boundary	
Level	F/L	F/L	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	1979/S/156465	1979/S/156466	
Sample Description	Clay, Sand - brown	Clay, Sand - brown	
Moisture Test Results:			
Field Moisture Content (%)	6.5	8.4	
Adjusted / Moisture Variation (%)	0.0	-0.5	
Optimum Moisture Content (%)	6.5	8.0	
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	
Moisture Ratio (%)	101.5	105.0	
Density Test Results:			
Field Wet Density (t/m ³)	1.96	1.95	
Adj/Peak Conv Wet Density (t/m ³)	2.02	2.01	
Density Ratio Required (%)	-	95	
Hilf Density Ratio (%)	97.5	97.5	

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/57778-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 5	Lot Number: 16/04
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/30830
Supplied To: n/a	Client Reference/s:
Area Description:	Report Date / Page: 26/05/2021 Page 1 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156515	1979/S/156516	1979/S/156517	1979/S/156518
ID / Client ID	EW-42	EW-43	EW-44	EW-45
Lot Number	16/04	16/04	16/04	16/04
Date / Time Tested	16/04/2021 13:10	16/04/2021 13:20	16/04/2021 13:30	16/04/2021 13:40
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300mm / 300	300 / 300mm / 300	300 / 300mm / 300	300 / 300mm / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 443	Lot 442	Lot 441	Lot 604
	N/E Corner	N/E Corner	N/E Corner	N/E Corner
	6m S, 4m W	8m S 3m W	3m S , 3m W	6m S, 14m W
Level	0.6m< FL	0.3m<FL	Finished Level	0.6m<FL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156515	1979/S/156516	1979/S/156517	1979/S/156518
Sample Description	Clayey SAND - Grey	Clayey SAND - Brown	Clayey SAND - Grey	Clayey SAND - Brown
Moisture Test Results:				
Field Moisture Content (%)	15.9	14.9	12.2	13.6
Adjusted / Moisture Variation (%)	-1.0	-0.5	0.0	-0.5
Optimum Moisture Content (%)	15.0	14.0	12.0	13.5
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	105.5	105.0	101.0	102.5
Density Test Results:				
Field Wet Density (t/m ³)	2.14	2.11	2.18	2.06
Adj/Peak Conv Wet Density (t/m ³)	2.16	2.15	2.18	2.15
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.0	98.5	100.0	96.0

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/57778-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 5	Lot Number: 16/04
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/30830
Supplied To: n/a	Client Reference/s:
Area Description:	Report Date / Page: 26/05/2021 Page 2 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156519	1979/S/156520	1979/S/156521	1979/S/156522
ID / Client ID	EW-46	EW-47	EW-48	EW-49
Lot Number	16/04	16/04	16/04	16/04
Date / Time Tested	16/04/2021 13:50	16/04/2021 14:00	16/04/2021 14:10	16/04/2021 14:20
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300mm / 300	300 / 300mm / 300	300 / 300mm / 300	300 / 300mm / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 604	Lot 603	Lot 603	Lot 602
	N/E Corner	N/E Corner	N/E Corner	N/E Corner
	5m S, 10m W	6m S, 12 m W	3m S, 12m W	4m S, 13m W
Level	Finished Leve	0.7m <FL	Finished Leve	0.6m<FL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156519	1979/S/156520	1979/S/156521	1979/S/156522
Sample Description	Clayey SAND - Brown	Clayey SAND - Brown	Clayey SAND - Grey	Clayey SAND - Brown
Moisture Test Results:				
Field Moisture Content (%)	14.4	13.6	13.6	9.1
Adjusted / Moisture Variation (%)	-0.5	-0.5	0.0	0.0
Optimum Moisture Content (%)	14.0	13.5	13.5	9.0
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(at OMC)	(Wetter than OMC)
Moisture Ratio (%)	102.0	102.5	100.0	102.0
Density Test Results:				
Field Wet Density (t/m ³)	2.07	2.09	2.07	2.07
Adj/Peak Conv Wet Density (t/m ³)	2.14	2.13	2.16	2.15
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	96.5	98.0	95.5	96.5

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Supplied To: n/a Area Description:	Report Number: 1979/R/57778-1 Project Number: 1979/P/2033 Lot Number: 16/04 Internal Test Request: 1979/T/30830 Client Reference/s: Report Date / Page: 26/05/2021 Page 3 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156523		
ID / Client ID	EW-50		
Lot Number	16/04		
Date / Time Tested	16/04/2021 14:30		
Material Source	On-Site		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	300 / 300mm / 300		
Standard or Modified	Standard		
Location	Lot 602		
	N/E Corner		
	5m S, 10 m W		
Level	Finished Leve		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	1979/S/156523		
Sample Description	Clayey SAND - Brown		
Moisture Test Results:			
Field Moisture Content (%)	9.5		
Adjusted / Moisture Variation (%)	0.0		
Optimum Moisture Content (%)	9.5		
Moisture Variation from OMC	(Wetter than OMC)		
Moisture Ratio (%)	102.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.12		
Adj/Peak Conv Wet Density (t/m ³)	2.13		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	99.5		

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/57779-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 5	Lot Number: 21/04/2021
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/30882
Supplied To: n/a	Client Reference/s:
Area Description:	Report Date / Page: 26/05/2021 Page 1 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156846	1979/S/156847	1979/S/156848	1979/S/156849
ID / Client ID	EW-51	EW-52	EW-53	EW-54
Lot Number	21/04/2021	21/04/2021	21/04/2021	21/04/2021
Date / Time Tested	22/04/2021 09:35	22/04/2021 09:45	22/04/2021 09:50	22/04/2021 10:00
Material Source	Existing Material	Existing Material	Existing Material	Existing Material
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 605	Lot 605	Lot 605	Lot 606
	Offset N/W Corner	Offset N/W Corner	Offset N/W Corner	Offset N/W Corner
	6m S, 2m E	8m S, 3m E	9m S, 4m E	4m S, 4m E
Level	0.9m < Finished Level	0.4m < Finished Leve	Finished Leve	0.8m < Finished Leve
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156846	1979/S/156847	1979/S/156848	1979/S/156849
Sample Description	brown silty clay	brown sandy clay	brown sandy clay	Clayey SAND - Brown
Moisture Test Results:				
Field Moisture Content (%)	10.9	10.4	11.1	8.6
Adjusted / Moisture Variation (%)	1.0	1.0	0.0	2.0
Optimum Moisture Content (%)	12.0	11.5	11.0	10.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)	(Drier than OMC)
Moisture Ratio (%)	90.0	89.5	102.0	81.0
Density Test Results:				
Field Wet Density (t/m ³)	2.09	2.10	2.10	2.13
Adj/Peak Conv Wet Density (t/m ³)	2.11	2.08	2.11	2.12
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.0	100.5	99.5	100.0

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Supplied To: n/a Area Description:	Report Number: 1979/R/57779-1 Project Number: 1979/P/2033 Lot Number: 21/04/2021 Internal Test Request: 1979/T/30882 Client Reference/s: Report Date / Page: 26/05/2021 Page 2 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156850	1979/S/156851	1979/S/156852	1979/S/156853
ID / Client ID	EW-55	EW-56	EW-57	EW-58
Lot Number	21/04/2021	21/04/2021	21/04/2021	21/04/2021
Date / Time Tested	22/04/2021 10:05	22/04/2021 10:10	22/04/2021 10:20	22/04/2021 10:30
Material Source	Existing Material	Existing Material	Existing Material	Existing Material
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 606	Lot 606	Lot 607	Lot 607
	Offset N/W Corner	Offset N/W Corner	Offset N/W Corner	Offset N/W Corner
	7m S, 5m E	8m S, 3m E	5m S, 3m E	7m S, 4m E
Level	0.5m < Finished Leve	Finished Leve	1.0m < Finished Leve	0.5m < Finished Leve
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/156850	1979/S/156851	1979/S/156852	1979/S/156853
Sample Description	Clayey SAND - Brown	Clayey SAND - Brown	Sand, Clay - brown	Sand, Clay - brown
Moisture Test Results:				
Field Moisture Content (%)	9.1	9.2	8.3	9.4
Adjusted / Moisture Variation (%)	2.0	2.0	-0.5	-0.5
Optimum Moisture Content (%)	11.0	11.5	8.0	9.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	81.0	80.5	104.0	103.5
Density Test Results:				
Field Wet Density (t/m ³)	2.12	2.14	2.12	2.12
Adj/Peak Conv Wet Density (t/m ³)	2.17	2.14	2.19	2.18
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	98.0	100.0	97.0	97.5

Remarks

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 Corporate Site Number: 1979



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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Supplied To: n/a Area Description:	Report Number: 1979/R/57779-1 Project Number: 1979/P/2033 Lot Number: 21/04/2021 Internal Test Request: 1979/T/30882 Client Reference/s: Report Date / Page: 26/05/2021 Page 3 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/156854		
ID / Client ID	EW-59		
Lot Number	21/04/2021		
Date / Time Tested	22/04/2021 10:40		
Material Source	Existing Material		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	300 / 300 / 300		
Standard or Modified	Standard		
Location	Lot 607		
	Offset N/W Corner		
	9m S, 25m E		
Level	Finished Leve		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	1979/S/156854		
Sample Description	Sand, Clay - brown		
Moisture Test Results:			
Field Moisture Content (%)	8.8		
Adjusted / Moisture Variation (%)	0.0		
Optimum Moisture Content (%)	8.5		
Moisture Variation from OMC	(Wetter than OMC)		
Moisture Ratio (%)	101.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.12		
Adj/Peak Conv Wet Density (t/m ³)	2.19		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	96.5		

Remarks

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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: -	Report Number: 1979/R/57780-1 Project Number: 1979/P/2033 Lot Number: 22/04 Internal Test Request: 1979/T/30952 Client Reference/s: WR4988 Report Date / Page: 26/05/2021 Page 1 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/157157	1979/S/157158	1979/S/157159	1979/S/157160
ID / Client ID	EW-60	EW-61	EW-62	EW-63
Lot Number	22/04	22/04	22/04	22/04
Date / Time Tested	22/04/2021 09:15	22/04/2021 09:20	22/04/2021 09:30	22/04/2021 09:40
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 424	Lot 424	Lot 423	Lot 422
	Offset N/E Corner	Offset N/E Corner	Offset N/E Corner	Offset N/E Corner
	5m Sth, 8m West	7m Sth, 11m West	3m Sth, 3m West	4m Sth, 2m West
Level	0.8m Below F/L	0.2m Below F/L	0.1m Below F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/157157	1979/S/157158	1979/S/157159	1979/S/157160
Sample Description	brown clay sand	brown clay sand	brown clay sand	brown clay sand
Moisture Test Results:				
Field Moisture Content (%)	12.0	8.8	11.4	10.3
Adjusted / Moisture Variation (%)	0.0	-0.5	0.0	0.0
Optimum Moisture Content (%)	12.0	8.5	11.5	10.0
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(at OMC)	(Wetter than OMC)
Moisture Ratio (%)	101.5	103.5	100.0	101.0
Density Test Results:				
Field Wet Density (t/m ³)	2.13	2.15	2.20	2.21
Adj/Peak Conv Wet Density (t/m ³)	2.12	2.14	2.21	2.25
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	101.0	100.5	99.5	98.0

Remarks

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 Accreditation Number: 1986
 Corporate Site Number: 1979



Approved Signatory: Wayne Gorman

Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: -	Report Number: 1979/R/57780-1 Project Number: 1979/P/2033 Lot Number: 22/04 Internal Test Request: 1979/T/30952 Client Reference/s: WR4988 Report Date / Page: 26/05/2021 Page 2 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/157161	1979/S/157162	1979/S/157163	1979/S/157164
ID / Client ID	EW-64	EW-65	EW-66	EW-67
Lot Number	22/04	22/04	22/04	22/04
Date / Time Tested	22/04/2021 09:50	22/04/2021 10:00	22/04/2021 10:10	22/04/2021 10:20
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 434	Lot 433	Lot 432	Lot 608
	Offset N/E Corner	Offset N/E Corner	Offset N/E Corner	Offset N/E Corner
	6m Sth, 4m West	7m Sth, 3m West	4m Sth, 2m West	8m Sth, 3m West
Level	F/L	F/L	F/L	0.9m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/157161	1979/S/157162	1979/S/157163	1979/S/157164
Sample Description	bron sand clay	brown clay sand	brown sand	grey clay sand
Moisture Test Results:				
Field Moisture Content (%)	7.7	6.3	5.8	10.9
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	7.5	6.0	5.5	10.5
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	101.5	101.5	103.5	102.0
Density Test Results:				
Field Wet Density (t/m ³)	2.15	2.15	2.16	2.19
Adj/Peak Conv Wet Density (t/m ³)	2.24	2.15	2.22	2.22
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	96.0	100.0	97.5	98.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Wayne Gorman Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 5 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: -	Report Number: 1979/R/57780-1 Project Number: 1979/P/2033 Lot Number: 22/04 Internal Test Request: 1979/T/30952 Client Reference/s: WR4988 Report Date / Page: 26/05/2021 Page 3 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/157165	1979/S/157166	1979/S/157167	1979/S/157168
ID / Client ID	EW-68	EW-69	EW-70	EW-71
Lot Number	22/04	22/04	22/04	22/04
Date / Time Tested	22/04/2021 10:30	22/04/2021 10:40	22/04/2021 10:50	22/04/2021 13:00
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 608	Lot 609	Lot 609	Lot 620
	Offset N/E Corner	Offset N/E Corner	Offset N/E Corner	Offset N/E Corner
	4m Sth, 4m West	9m Sth, 3m West	3m Sth, 4m West	3m Sth, 9m West
Level	0.2m Below F/L	0.8m Below F/L	0.2m Below F/L	0.1m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/157165	1979/S/157166	1979/S/157167	1979/S/157168
Sample Description	grey sand clay	grey sand clay	grey clay sand	brown clay sand
Moisture Test Results:				
Field Moisture Content (%)	11.0	9.8	1278.8	10.5
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	11.0	9.5	1276.0	10.5
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	102.0	102.0	100.0	101.0
Density Test Results:				
Field Wet Density (t/m ³)	2.21	2.19	2.20	2.09
Adj/Peak Conv Wet Density (t/m ³)	2.20	2.25	2.22	2.18
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.0	97.5	99.0	96.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Wayne Gorman Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 4, 5 & 6 Location: 230 Mountain Ridge Road, South McLean Supplied To: n/a Area Description:	Report Number: 1979/R/61253-1 Project Number: 1979/P/2033 Lot Number: - Internal Test Request: 1979/T/32590 Client Reference/s: WR 2533 Report Date / Page: 4/09/2021 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/165278	1979/S/165279	1979/S/165280	1979/S/165281
ID / Client ID	BF1	BF2	BF3	BF4
Lot Number	-	-	-	-
Date / Time Tested	29/07/2021 10:00	29/07/2021 10:05	29/07/2021 10:10	29/07/2021 10:15
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 647 N/W Corner 7m Sth, 19m East	Lot 645 N/W Corner 10m Sth, 13m East	Lot 661 N/W Corner 8m Sth, 17m East	Lot 643 N/W Corner 7m Sth, 15m East
Level	0.1m Below F/L	0.5m Below F/L	0.6m Below F/L	0.3m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/165278	1979/S/165279	1979/S/165280	1979/S/165281
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
Moisture Test Results:				
Field Moisture Content (%)	9.5	12.0	11.0	11.7
Adjusted / Moisture Variation (%)	0.0	0.5	0.5	0.5
Optimum Moisture Content (%)	9.5	12.5	11.5	12.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	99.0	97.5	97.5	96.5
Density Test Results:				
Field Wet Density (t/m ³)	2.06	2.06	2.06	2.10
Adj/Peak Conv Wet Density (t/m ³)	2.16	2.13	2.13	2.12
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	95.5	97.0	96.5	98.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 4, 5 & 6 Location: 230 Mountain Ridge Road, South McLean Supplied To: n/a Area Description:	Report Number: 1979/R/61253-1 Project Number: 1979/P/2033 Lot Number: - Internal Test Request: 1979/T/32590 Client Reference/s: WR 2533 Report Date / Page: 4/09/2021 Page 2 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/165282		
ID / Client ID	BF5		
Lot Number	-		
Date / Time Tested	29/07/2021 10:20		
Material Source	On-Site		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	300 / 300 / 300		
Standard or Modified	Standard		
Location	Lot 663 N/W Corner 6m Sth, 12m East		
Level	0.7m Below F/L		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	1979/S/165282		
Sample Description	Sandy CLAY - Brown		
Moisture Test Results:			
Field Moisture Content (%)	11.5		
Adjusted / Moisture Variation (%)	0.5		
Optimum Moisture Content (%)	12.0		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	95.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.09		
Adj/Peak Conv Wet Density (t/m ³)	2.13		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	98.5		

Remarks

<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  <p>Accreditation Number: 1986 Corporate Site Number: 1979</p>	 Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
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WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/61744-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/2033
Project: Pebble Creek Stage 4, 5 & 6	Lot Number:
Location: 230 Mountain Ridge Road, South McLean	Internal Test Request: 1979/T/33170
Component: Bulk Earthworks	Client Reference/s: WR 6430
Area Description: Stages 4-6	Report Date / Page: 20/09/2021 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/168215	1979/S/168216	1979/S/168217	1979/S/168218
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	31/08/2021 12:40	31/08/2021 12:45	31/08/2021 12:50	31/08/2021 12:55
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 662 Offset Nth/East Corner of Lot 4m South, 5m West	Lot 660 Offset Nth/East Corner of Lot 4m South, 8m West	Lot 658 Offset Nth/East Corner of Lot 5m South, 6m West	Lot 656 Offset Nth/East Corner of Lot 3m South, 8m West
Level	RL: 41.5	RL: 42.6	RL: 43.9	RL: 44.8
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/168215	1979/S/168216	1979/S/168217	1979/S/168218
Sample Description	Clayey SAND - Light Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown
Moisture Test Results:				
Field Moisture Content (%)	7.5	5.1	4.6	4.6
Adjusted / Moisture Variation (%)	1.0	1.0	1.5	1.0
Optimum Moisture Content (%)	8.5	6.0	6.0	5.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	87.0	85.0	75.5	82.0
Density Test Results:				
Field Wet Density (t/m ³)	2.03	2.06	2.04	2.04
Adj/Peak Conv Wet Density (t/m ³)	2.07	2.07	2.08	2.08
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	98.0	100.0	97.5	98.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 4, 5 & 6 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stages 4-6	Report Number: 1979/R/61831-1 Project Number: 1979/P/2033 Lot Number: Internal Test Request: 1979/T/33258 Client Reference/s: WR 6433 Report Date / Page: 22/09/2021 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/168650	1979/S/168651	1979/S/168652	1979/S/168653
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	3/09/2021 08:00	3/09/2021 08:10	3/09/2021 08:15	3/09/2021 08:20
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 631 N/E Corner 8m South, 4m West	Lot 629 N/E Corner 10m South, 5m West	Lot 627 N/E Corner 6m South, 3m West	Lot 651 N/E Corner 8m South, 4m West
Level	RL: 47.3	RL: 47.2	RL: 47.4	RL: 47.3
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/168650	1979/S/168651	1979/S/168652	1979/S/168653
Sample Description	Clayey SAND - Light Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown
Moisture Test Results:				
Field Moisture Content (%)	8.7	9.3	10.7	10.0
Adjusted / Moisture Variation (%)	1.5	1.5	1.5	1.0
Optimum Moisture Content (%)	10.0	10.5	12.0	11.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	86.0	87.5	87.5	90.0
Density Test Results:				
Field Wet Density (t/m ³)	2.06	2.06	2.08	2.10
Adj/Peak Conv Wet Density (t/m ³)	2.07	2.10	2.07	2.11
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.0	98.0	100.5	100.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 4, 5 & 6 Location: 230 Mountain Ridge Road, South McLean Component: Bulk Earthworks Area Description: Stages 4-6	Report Number: 1979/R/61831-1 Project Number: 1979/P/2033 Lot Number: Internal Test Request: 1979/T/33258 Client Reference/s: WR 6433 Report Date / Page: 22/09/2021 Page 2 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/168654		
ID / Client ID	-		
Lot Number	-		
Date / Time Tested	3/09/2021 08:30		
Material Source	On-Site		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	300 / 300 / 300		
Standard or Modified	Standard		
Location	Lot 653 N/E Corner 6m South, 5m West		
Level	RL: 47.4		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	1979/S/168654		
Sample Description	Clayey SAND - Light Brown		
Moisture Test Results:			
Field Moisture Content (%)	8.8		
Adjusted / Moisture Variation (%)	1.5		
Optimum Moisture Content (%)	10.0		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	88.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.07		
Adj/Peak Conv Wet Density (t/m ³)	2.05		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	101.0		

Remarks

<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  <p>Accreditation Number: 1986 Corporate Site Number: 1979</p>	 Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: Pebble Creek Stage 4, 5 & 6 Location: 230 Mountain Ridge Road, South McLean Supplied To: n/a Area Description:	Report Number: 1979/R/62351-1 Project Number: 1979/P/2033 Lot Number: Bio Basin Floor Internal Test Request: 1979/T/33509 Client Reference/s: WR: 7205 Report Date / Page: 11/10/2021 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/169858	1979/S/169859		
ID / Client ID	-	-		
Lot Number	Bio Basin Floor	Bio Basin Floor		
Date / Time Tested	17/09/2021 09:40	17/09/2021 09:50		
Material Source	On-Site	On-Site		
Material Type	Bulk Fill	Bulk Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300		
Standard or Modified	Standard	Standard		
Easting: m	6538.57	6547.10		
Northing m	25766.27	25769.33		
RL: m	34.75	34.82		
Allotment:	Bio Basin	Bio Basin		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/169858	1979/S/169859		
Sample Description	Sandy Clay brown	Sandy Clay brown		
Moisture Test Results:				
Field Moisture Content (%)	11.5	12.1		
Adjusted / Moisture Variation (%)	1.5	0.5		
Optimum Moisture Content (%)	13.0	12.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
Moisture Ratio (%)	90.0	97.0		
Density Test Results:				
Field Wet Density (t/m ³)	1.92	1.93		
Adj/Peak Conv Wet Density (t/m ³)	1.97	1.98		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	97.5	97.5		

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing 	<div style="text-align: center;">  Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2 </div>
--	--

Accreditation Number: 1986
Corporate Site Number: 1979

APPENDIX

B

LOT CERTIFICATES



Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

1 Fox Road
Acacia Ridge QLD 4110
Australia

CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 408, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

1 Fox Road
Acacia Ridge QLD 4110
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CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 409, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

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ABN 74 128 806 735

11/11/2021

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1587 Ipswich Road
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Phone: 61 7 3320 8500
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 410, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

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CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 411, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

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1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 412, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

1 Fox Road
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CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
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Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 413, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 414, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 417, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 419, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 420, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 421, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 422, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 424, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 425, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 426, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 427, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 428, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 429, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 430, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 431, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 432, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 433, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 434, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 435, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 436, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

1 Fox Road
Acacia Ridge QLD 4110
Australia

CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
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www.constructionsciences.net

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CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
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www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 531, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

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LOT 602, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
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LOT 604, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 605, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 606, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
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PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 620, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 621, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 622, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 623, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 624, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 635, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 636, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 637, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 638, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 639, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 640, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 641, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 642, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 643, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 644, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 646, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 647, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 648, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 650, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 651, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 652, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/2033

Construction Sciences Pty Ltd
ABN 74 128 806 735

11/11/2021

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CCA Winslow
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 653, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 654, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 655, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 656, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 657, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 658, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 659, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 660, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 661, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 662, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 663, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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LOT 664, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 1101, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 1102, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 1103, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 1104, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 1105, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 1106, PEBBLE CREEK STAGES 4-6, FLAGSTONE**

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Contact

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Facsimile: (07) 3320 8599

brisbane@constructionsciences.net
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