

 CIVIL GEOTECHNICAL SERVICES
 Report No
 16420/R001

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 13/09/16

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 AC

 Project
 ASPECT - STAGE 8
 Date tested
 06/09/16

 Location
 GREENVALE
 Checked by
 JHF

Feature CLASS 3 Layer thickness 150 mm Time: 10:38:34

		1	2	3	4	5	6
Location		Peak	Road	Inspirat	ion Way	Ambitio	on Drive
Ch	ainage	120	160	190	230	760	710
	Offset	1.8	1.8	1.8	1.8	1.8	1.8
		east	west	east	west	north	south
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125	125	125	125
Field wet density	t/m³	2.43	2.42	2.40	2.42	2.39	2.43
Field dry density	t/m³	2.28	2.28	2.23	2.24	2.26	2.28
Field moisture content	%	6.5	6.0	7.5	7.5	6.0	7.0
Material source and location Compactive effort		20mm Class 3 - Hanson, Wollert MODIFIED					
Material source and location			20n			llert	
Сотрасиче епон							
Maximum Dry Density	t/m3			2 '	20		
Maximum Dry Density Optimum Moisture Content	t/m³ %			2.2			
Optimum Moisture Content Test procedure AS 1289.5.4.1	%			8.	.0		
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve	% mm	19.0	19.0			19.0	19.0
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material	mm wet	-	19.0	19.0	19.0	19.0	19.0
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material	mm wet	-	-	19.0	.0	-	-
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³		19.0	19.0	19.0	19.0 - - -	19.0 - - -
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material	mm wet	-	-	19.0	19.0	-	-
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³			19.0 - - - -	19.0		
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From	mm wet dry t/m³	1.5%	2.0%	19.0 - - - - -	19.0 - - - - -	2.0%	- - - - - 1.0%
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content	mm wet dry t/m³			19.0 - - - -	19.0		
Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From	mm wet dry t/m³	1.5%	2.0%	19.0 - - - - -	19.0 - - - - -	2.0%	1.0%



July Jz

A581ASSIGNED V1.13 MAR 13

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025.

Accreditation No 9909

Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Report No
 16420/R002

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 13/09/16

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 AC

 Project
 ASPECT - STAGE 8
 Date tested
 06/09/16

 Location
 GREENVALE
 Checked by
 JHF

Feature CLASS 3 Layer thickness 150 mm Time: 11:06:04

Chainage Offset	1 12	11	10	9	8	7		Test No
Offset 1.8 1.18 1.	Breeze Way	Ambition Drive Breeze						Location
Offset 1.8 1.18 1.	50 300	350	510	560	610	660	Chainage	
South of kerb of ker	8 1.8	1.8	1.8	1.8	1.8	1.8	J	
Of kerb Of k		east	-	_	_	_		
Approximate depth from F.S.L. m 125 126 126 126 125 125 125 125 125 125 125<		of kerb						
Field wet density t/m³ 2.42 2.45 2.42 2.43 2.45 Field dry density t/m³ 2.25 2.28 2.25 2.25 2.25 Field moisture content % 7.5 7.5 7.5 8.0 6.0 Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203HWCF) Date of assignment 26/08/16 Material source and location 20mm Class 3 - Hanson, Wollert MODIFIED Maximum Dry Density t/m³ 2.28 Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 8.0 Oversize rock retained on sieve mm 19.0 19.0 19.0 19.0 Percent of oversize material wet - - - - - Adjusted Maximum Dry Density t/m³ - - - - - Moisture Variation From Optimum Moisture Content 0.5% 0.0% 0.5% 0.0% 0.5% 0.0% 0.5% 0.0% 0.0% 0.5% 0.0% 0.0%							т	Approximate depth from F.S.L.
Field dry density t/m³ 2.25 2.28 2.25 2.25 2.25 Field moisture content % 7.5 7.5 7.5 8.0 6. Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203HWCF) Date of assignment 26/08/16 Material source and location 20mm Class 3 - Hanson, Wollert Compactive effort MODIFIED Maximum Dry Density t/m³ 2.28 Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0	25 125	125	125	125	125	125	mm	Measurement depth
Field moisture content % 7.5 7.5 7.5 8.0 6. Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203HWCF) Date of assignment 26/08/16 Material source and location 20mm Class 3 - Hanson, Wollert Compactive effort MODIFIED Maximum Dry Density t/m³ 2.28 Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0	44 2.42	2.44	2.43	2.42	2.45	2.42	t/m³	Field wet density
Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203HWCF) Date of assignment 26/08/16 Material source and location 20mm Class 3 - Hanson, Wollert Compactive effort MODIFIED Maximum Dry Density t/m³ 2.28 Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0 19.0 19.0 19.0 19 Percent of oversize material wet	29 2.26	2.29	2.25	2.25	2.28	2.25	t/m³	Field dry density
Date of assignment 26/08/16 Material source and location 20mm Class 3 - Hanson, Wollert Compactive effort MODIFIED Maximum Dry Density t/m³ 2.28 Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0 19.	5 6.5	6.5	8.0	7.5	7.5	7.5	%	Field moisture content
Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0 <t< th=""><th></th><th colspan="5"></th><th></th><th>Compactive effort</th></t<>								Compactive effort
Maximum Dry Density t/m³ 2.28 Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0		ollert						
Optimum Moisture Content % 8.0 Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0							t/m³	
Test procedure AS 1289.5.4.1 Oversize rock retained on sieve mm 19.0 <td></td> <td></td> <td>0</td> <td>8.</td> <td></td> <td></td> <td>%</td> <td>· · ·</td>			0	8.			%	· · ·
Percent of oversize material wet - - - - Percent of oversize material dry - - - - - Adjusted Maximum Dry Density t/m³ - - - - - Adjusted Optimum Moisture Content % - - - - - Moisture Variation From Optimum Moisture Content 0.5% 0.0% 0.5% 0.0% 1.5 Optimum Moisture Content dry dry dry dry dry								Test procedure AS 1289.5.4.1
Percent of oversize material dry - <th< td=""><td>.0 19.0</td><td>19.0</td><td>19.0</td><td>19.0</td><td>19.0</td><td>19.0</td><td>mm</td><td>Oversize rock retained on sieve</td></th<>	.0 19.0	19.0	19.0	19.0	19.0	19.0	mm	Oversize rock retained on sieve
Adjusted Maximum Dry Density t/m³	. <u> </u>	-	-	-	-	-	wet	Percent of oversize material
Adjusted Optimum Moisture Content % -		-	-	-	-	-	dry	Percent of oversize material
Moisture Variation From 0.5% 0.0% 0.5% 0.0% 1.5 Optimum Moisture Content dry dry dry dry dry		-	-	-	-	-		Adjusted Maximum Dry Density
Optimum Moisture Content dry dry dry dry d		-	-	-	-	-	tent %	Adjusted Optimum Moisture Conte
Optimum Moisture Content dry dry dry dry d		ı	·	· · · · · · · · · · · · · · · · · · ·				
		1.5%	0.070		0.070		om	Moisture Variation Fron
Moisture Ratio (R _m) % 95.0 97.0 96.0 99.5 81	ry dry	dry	dry	dry	dry	dry	ntent	Optimum Moisture Conte
mosture Ratio (R _m) /6 30.0 31.0 30.0 30.0 31.0	.0 84.0	81.0	99.5	96.0	97 N	95.0	%	Moisture Ratio (R)
	.0 04.0	01.0	33.3	30.0	31.0	33.0	/0	Worsture Natio (N _m)
Density Ratio (R _D) % 98.5 100.0 98.5 98.5 100	0.5 99.0	100.5	98.5	98.5	100.0	98.5	%	Density Ratio (R.)



July Jz



 CIVIL GEOTECHNICAL SERVICES
 Report No
 16420/R003

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 13/09/16

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 AC

 Project
 ASPECT - STAGE 8
 Date tested
 12/09/16

 Location
 GREENVALE
 Checked by
 JHF

FeatureCLASS 3Layer thickness150 mmTime:08:44:36

Test No		13	14	15	16	17	18
Location		F	Ambition Driv	re	Vogue Street		Amira
							Road
Cř	nainage	460	410	360	80	30	220
	Offset	1.8	1.8	1.8	1.8	1.8	1.8
		east	west	east	south	north	east
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	т						
Measurement depth	mm	125	125	125	125	125	125
Field wet density	t/m³	2.51	2.48	2.47	2.50	2.44	2.45
Field dry density	t/m³	2.31	2.30	2.30	2.32	2.28	2.28
Field moisture content	%	8.5	8.0	7.5	8.0	7.0	7.5
Compactive effort Maximum Dry Density	t/m³			MOD 2.2	IFIED 28		
Date of assignment			,	26/0	8/16		
	t/m3						
Optimum Moisture Content	%			8.			
optimum woldtard Contone	70						
Test procedure AS 1289.5.4.1							
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-
Moisture Variation From		0.5%	0.0%	0.5%	0.0%	1.0%	0.5%
Optimum Moisture Content		wet	wet	dry	wet	dry	dry
Moisture Ratio (R _m)	%	109.0	101.0	94.5	100.5	87.5	94.5
Density Ratio (R _D)	%	101.0	100.5	100.5	101.5	100.0	100.0



July Jo



Job No 16420 CIVIL GEOTECHNICAL SERVICES Report No 16420/R004 6 - 8 Rose Avenue, Croydon, Vic 3136 Date Issued 13/09/16 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by AC Project ASPECT - STAGE 8 Date tested 12/09/16 Location **GREENVALE** Checked by JHF

FeatureCLASS 3Layer thickness150 mmTime:09:28:02

Test No		19	20				
Location		Breez	e Way				1
	21	000	050	_			
	Chainage	200	250				
	Offset	1.8	1.8				
		east	west				
1		of kerb	of kerb				
Approximate depth from F.S.L.	m	405	405				
Measurement depth	mm	125	125				
Field wet density	t/m³	2.45	2.42				
Field dry density	t/m³	2.24	2.24				
Field moisture content	%	9.0	7.5				
Laboratory Compaction AS 1289.5 Date of assignment Material source and location			,	26 mm Class 3	/08/16 - Hanson, W	/ollert	
Compactive effort					DIFIED		
Maximum Dry Density	t/m³			2	2.28		
Optimum Moisture Content	%			1	8.0		
Test procedure AS 1289.5.4.1							
Oversize rock retained on sieve	mm	19.0	19.0				
Percent of oversize material	wet	-	-				
Percent of oversize material	dry	-	-				
Adjusted Maximum Dry Density	t/m³	-	-				
Adjusted Optimum Moisture Conte	ent %	-	-				
Moisture Variation Fron	n	1.0%	0.0%				
Optimum Moisture Cont	ent	wet	dry				
Moisture Ratio (R _m)	%	115.0	97.5				
Density Ratio (R _D)	%	98.0	98.5				



July Jo



 CIVIL GEOTECHNICAL SERVICES
 Report No
 16420/R005

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 05/10/16

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 AC

 Project
 ASPECT - STAGE 8
 Date tested
 28/09/16

 Location
 GREENVALE
 Checked by
 JHF

FeatureCLASS 2Layer thickness130 mmTime:10:06:18

Test No		21	22	23	24	25	26		
Location		Peak	Road	Inspiration	piration Ambition Drive				
				Way					
Ci	hainage	120	160	210	760	710	610		
	Offset	1.8	1.8	1.8	1.8	1.8	1.8		
		east	west	east	south	north	south		
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb		
Approximate depth from F.S.L.	т								
Measurement depth	mm	100	100	100	100	100	100		
Field wet density	t/m³	2.40	2.38	2.40	2.38	2.39	2.40		
Field dry density	t/m³	2.24	2.22	2.24	2.23	2.22	2.25		
Field moisture content	%	7.0	7.0	7.0	6.5	7.0	6.5		
Date of assignment Material source and location	04/10/16 20mm Class 2 - Alex Fraser, Laverton								
		20mm Class 2 - Alex Fraser, Laverton MODIFIED							
Compactive effort	t/m³			2.2					
Maximum Dry Density	<i>VIII</i> °			8.					
Optimum Moisture Content	70			0.	U				
Test procedure AS 1289.5.4.1									
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0		
Percent of oversize material	wet	-	-	-	-	-	-		
Percent of oversize material	dry	-	-	-	-	-	-		
Adjusted Maximum Dry Density	t/m³	-	-	-	-	-	-		
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-		
Moisture Variation From		1.0%	0.5%	0.5%	1.0%	0.5%	1.0%		
Optimum Moisture Content		dry	dry	dry	dry	dry	dry		
Maiatura Batia (B.)	0.	00.5	00.5	T 04.0 T	00.5	00.5	00.5		
Moisture Ratio (R _m)	%	88.5	93.5	91.0	86.5	92.5	86.5		



July Jo



 CIVIL GEOTECHNICAL SERVICES
 Report No
 16420/R006

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 05/10/16

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 AC

 Project
 ASPECT - STAGE 8
 Date tested
 28/09/16

 Location
 GREENVALE
 Checked by
 JHF

FeatureCLASS 2Layer thickness130 mmTime:10:46:40

		27	28	29	30	31	32
Location		Ambition		Breez	e Way		Amira
		Drive					Road
	Chainage	610	350	300	250	200	220
	Offset	1.8	1.8	1.8	1.8	1.8	1.8
		north	east	west	east	west	east
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	т						
Measurement depth	mm	100	100	100	100	100	100
Field wet density	t/m³	2.42	2.37	2.40	2.40	2.42	2.44
Field dry density	t/m³	2.28	2.22	2.24	2.23	2.24	2.26
Field moisture content	%	6.5	6.5	7.5	7.5	8.0	7.5
Date of assignment Material source and location Compactive effort		04/10/16 20mm Class 2 - Alex Fraser, Laverton MODIFIED					
Compactive effort			2011111			VOITOIT	
Maximum Dry Density	t/m³			2.:	27		
Optimum Moisture Content	%			8	.0		
Test procedure AS 1289.5.4.1							
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
	t/m³	_	_	_	-	_	
		_					-
· · · · · · · · · · · · · · · · · · ·		-	-	-	-	-	-
	ent %	1.5%	1.0%	0.5%	0.0%	0.5%	0.0%
Adjusted Optimum Moisture Conte	ent %	1.5% dry		- 0.5% dry	- 0.0% dry	- 0.5% wet	0.0% wet
Optimum Moisture Cont	ent % m ent	dry	1.0% dry	dry	dry	wet	wet
Adjusted Optimum Moisture Conte	ent %		1.0%	0.070		0.070	



July Jo

A581ASSIGNED V1.13 MAR 13

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025.

Accreditation No 9909

Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Report No
 16420/R007

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 05/10/16

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 AC

 Project
 ASPECT - STAGE 8
 Date tested
 28/09/16

 Location
 GREENVALE
 Checked by
 JHF

Feature CLASS 2 Layer thickness 130 mm Time: 11:10:03

Test No		33	34	35	36	37	38
Location		Vogue	Street		Ambitio	on Drive	
C	Chainage	80	30	560	510	460	410
	Offset	1.8	1.8	1.8	1.8	1.8	1.8
		north	south	east	west	east	west
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	m						
Measurement depth	mm	100	100	100	100	100	100
Field wet density	t/m³	2.38	2.40	2.41	2.46	2.44	2.44
Field dry density	t/m³	2.22	2.24	2.22	2.27	2.26	2.25
Field moisture content	%	7.0	7.5	8.0	8.0	8.0	8.0
Compactive effort Maximum Dry Density Optimum Moisture Content	t/m³			2.2 8.			
Test procedure AS 1289.5.4.1	70			<u> </u>			
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	-	•	-	-	-	-
Percent of oversize material	dry	-		-	-	-	-
rercent or oversize material							
Adjusted Maximum Dry Density	t/m³	-	-	-	-	-	-
Adjusted Maximum Dry Density		-	-	-	-	-	-
		1.0%		0.5%	0.5%	0.5%	0.5%
Adjusted Maximum Dry Density Adjusted Optimum Moisture Content	%	-	-	- - 0.5% wet	0.5% wet	-	- - 0.5% wet
Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From	%	1.0%	0.5%	0.070	0.070	0.5%	



Approved Signatory : Justin Fry