



## COMPACTION ASSESSMENT

**CIVIL GEOTECHNICAL SERVICES**

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
 Report No 16623/R001  
 Date Issued 11/01/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	22/12/16
Location	CRAIGIEBURN	Checked by	JHF

<b>Feature</b>	<b>CLASS 4</b>	Layer thickness	300 mm	Time:	09:22:50
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AS 12892.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	Vantage Boulevard					
Chainage	180	130	80	30	30	10
Offset	1.8	1.8	1.8	1.8	1.8	1.8
	east	west	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					
Field wet density	t/m <sup>3</sup>					
Field dry density	t/m <sup>3</sup>					
Field moisture content	%					

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 204HWAZ)

Date of assignment	10/01/17
Material source and location	20mm Class 4 - Hanson, Wollert
Compactive effort	MODIFIED
Maximum Dry Density	t/m <sup>3</sup> 2.25
Optimum Moisture Content	% 8.5

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/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

<b>Moisture Variation From Optimum Moisture Content</b>	1.0%	1.5%	2.0%	2.5%	2.5%	2.5%
	dry	dry	dry	dry	dry	dry

<b>Moisture Ratio ( R<sub>m</sub> )</b>	%	85.5	81.5	78.5	70.5	72.5	70.5
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<b>Density Ratio ( R<sub>D</sub> )</b>	%	<b>99.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>99.5</b>	<b>101.0</b>
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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



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
Report No 16623/R002  
Date Issued 11/01/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	22/12/16
Location	CRAIGIEBURN	Checked by	JHF

Feature	CLASS 4	Layer thickness	300 mm	Time:	09:50:02
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AS 12892.1.1 & 5.8.1

Test No		7	8	9			
Location		Vantage Boulevard	Elevation Boulevard				
Chainage		10	700	700			
Offset		1.8	1.8	1.8			
		east of kerb	south of kerb	north of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	275	275	275			
Field wet density	t/m <sup>3</sup>	2.44	2.38	2.38			
Field dry density	t/m <sup>3</sup>	2.26	2.24	2.25			
Field moisture content	%	8.0	6.5	6.0			

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 204HWAZ)

Date of assignment		10/01/17					
Material source and location		20mm Class 4 - Hanson, Wollert					
Compactive effort		MODIFIED					
Maximum Dry Density	t/m <sup>3</sup>	2.25					
Optimum Moisture Content	%	8.5					

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	19.0	19.0	19.0			
Percent of oversize material	wet	-	-	-			
Percent of oversize material	dry	-	-	-			
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		0.5% dry	2.0% dry	2.5% dry			
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Moisture Ratio (R <sub>m</sub> )	%	96.5	77.0	72.0			
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Density Ratio (R <sub>D</sub> )	%	100.5	99.5	100.0			
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Approved Signatory : Justin Fry



## COMPACTION ASSESSMENT

**CIVIL GEOTECHNICAL SERVICES**

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
 Report No 16623/R003  
 Date Issued 11/01/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	10/01/17
Location	CRAIGIEBURN	Checked by	JHF

<b>Feature</b>	<b>CLASS 3</b>	Layer thickness	150 mm	Time:	09:21:04
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AS 12892.1.1 & 5.8.1

Test No	10	11	12	13	14	15
Location	Zeal Way	Altamont Road				Sona Street
Chainage	130	175	125	75	25	25
Offset	1.8	1.8	1.8	1.8	1.8	1.8
	north of kerb	south of kerb	north of kerb	south of kerb	north of kerb	south of kerb
Approximate depth from F.S.L.	m					
Measurement depth	mm	125	125	125	125	125
Field wet density	t/m <sup>3</sup>	2.17	2.18	2.16	2.15	2.17
Field dry density	t/m <sup>3</sup>	1.99	1.99	1.97	1.97	1.99
Field moisture content	%	9.0	9.0	9.5	9.0	8.5

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 2CC3AFEAI)

Date of assignment	06/12/16
Material source and location	20mm CC Class 3 - Alex Fraser, Epping
Compactive effort	MODIFIED
Maximum Dry Density	t/m <sup>3</sup> 2.00
Optimum Moisture Content	% 11.5

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/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

<b>Moisture Variation From Optimum Moisture Content</b>	2.5%	2.0%	2.0%	2.5%	2.5%	1.5%
	dry	dry	dry	dry	dry	dry

<b>Moisture Ratio ( R<sub>m</sub> )</b>	%	79.0	82.0	84.0	80.0	77.0	87.0
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<b>Density Ratio ( R<sub>D</sub> )</b>	%	<b>99.5</b>	<b>99.5</b>	<b>98.5</b>	<b>98.5</b>	<b>99.5</b>	<b>98.0</b>
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
Report No 16623/R004  
Date Issued 11/01/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	10/01/17
Location	CRAIGIEBURN	Checked by	JHF

Feature	CLASS 3	Layer thickness	175 mm	Time:	10:34:54
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AS 12892.1.1 & 5.8.1

Test No		16	17	18			
Location		Gilded Way	Ashworth Street				
Chainage		250	30	80			
Offset		1.8	1.8	1.8			
		east of kerb	west of kerb	east of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	150	150	150			
Field wet density	t/m <sup>3</sup>	2.13	2.17	2.19			
Field dry density	t/m <sup>3</sup>	1.96	1.98	1.99			
Field moisture content	%	8.5	9.5	9.5			

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 2CC3AFEAI)

Date of assignment		0.03125
Material source and location		20mm CC Class 3 - Alex Fraser, Epping
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	2.00
Optimum Moisture Content	%	11.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	19.0	19.0	19.0			
Percent of oversize material	wet	-	-	-			
Percent of oversize material	dry	-	-	-			
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		2.5% dry	2.0% dry	2.0% dry			
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Moisture Ratio ( R <sub>m</sub> )	%	76.5	83.5	84.5			
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Density Ratio ( R <sub>D</sub> )	%	98.0	98.5	99.5			
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Approved Signatory : Justin Fry



## COMPACTION ASSESSMENT

**CIVIL GEOTECHNICAL SERVICES**

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
 Report No 16623/R005  
 Date Issued 18/01/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	16/01/17
Location	CRAIGIEBURN	Checked by	JHF

<b>Feature</b>	<b>CLASS 3</b>	Layer thickness	150 mm	Time:	09:35:29
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AS 12892.1.1 & 5.8.1

Test No	19	20	21	22	23	24
Location	Elevation Boulevard					
Chainage	25	75	125	175	225	275
Offset	1.8	1.8	1.8	1.8	1.8	1.8
	south	north	south	north	south	north
	of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	m					
Measurement depth	mm					
Field wet density	t/m <sup>3</sup>					
Field dry density	t/m <sup>3</sup>					
Field moisture content	%					

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 2CC3AFEAJ)

Date of assignment	10/01/17
Material source and location	20mm CC Class 3 - Alex Fraser, Epping
Compactive effort	MODIFIED
Maximum Dry Density	t/m <sup>3</sup> 2.02
Optimum Moisture Content	% 11.5

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/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

<b>Moisture Variation From Optimum Moisture Content</b>		1.5%	1.5%	2.5%	1.5%	2.0%	2.0%
		dry	dry	dry	dry	dry	dry

Moisture Ratio ( R <sub>m</sub> )	%	85.0	85.5	78.0	87.0	82.0	81.5
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Density Ratio ( R <sub>D</sub> )	%	<b>98.5</b>	<b>98.0</b>	<b>98.0</b>	<b>100.0</b>	<b>98.5</b>	<b>99.0</b>
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
Report No 16623/R006  
Date Issued 18/01/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	16/01/17
Location	CRAIGIEBURN	Checked by	JHF

Feature	CLASS 3	Layer thickness	150 mm	Time:	10:13:37
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AS 12892.1.1 & 5.8.1

Test No		25	26	27	28	29	
Location		Carmichael Road					
Chainage Offset		50	100	150	200	250	
		1.8	1.8	1.8	1.8	1.8	
		west	east	west	east	west	
		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	
Field wet density	t/m <sup>3</sup>	2.18	2.25	2.23	2.27	2.25	
Field dry density	t/m <sup>3</sup>	1.99	2.01	2.02	2.04	2.03	
Field moisture content	%	9.0	11.0	10.0	10.5	10.0	

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 2CC3AFEAJ)

Date of assignment		10/01/17
Material source and location		20mm CC Class 3 - Alex Fraser, Epping
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	2.02
Optimum Moisture Content	%	11.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	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/m <sup>3</sup>	-	-	-	-	-	
Adjusted Optimum Moisture Content	%	-	-	-	-	-	

Moisture Variation From Optimum Moisture Content		2.0% dry	0.0% wet	1.0% dry	0.5% dry	1.0% dry	
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Moisture Ratio ( R <sub>m</sub> )	%	81.0	100.5	89.5	95.5	92.5	
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Density Ratio ( R <sub>D</sub> )	%	99.0	100.0	100.0	101.0	100.5	
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
Report No 16623/R007  
Date Issued 03/02/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	18/01/17
Location	CRAIGIEBURN	Checked by	JHF

Feature	CLASS 2	Layer thickness	150 mm	Time:	14:43:19
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AS 12892.1.1 & 5.8.1

Test No		30	31	32	33	34	35	
Location		Carmichael Road					Elevation	
	Chainage	50	100	150	200	250	275	
	Offset	1.8	1.8	1.8	1.8	1.8	1.8	
		west	east	west	east	west	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		
Field wet density	t/m <sup>3</sup>	2.42	2.42	2.39	2.39	2.44		
Field dry density	t/m <sup>3</sup>	2.29	2.28	2.24	2.24	2.29		
Field moisture content	%	6.0	6.5	6.5	6.5	6.5		

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MWDBG)

Date of assignment		31/01/17
Material source and location		20mm Class 2 - MVQ, Donnybrook
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	2.29
Optimum Moisture Content	%	7.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	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/m <sup>3</sup>	-	-	-	-	-	
Adjusted Optimum Moisture Content	%	-	-	-	-	-	

Moisture Variation From Optimum Moisture Content		2.0% dry	1.5% dry	1.5% dry	1.0% dry	1.5% dry	
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Moisture Ratio (R <sub>m</sub> )	%	74.0	81.5	83.5	86.0	81.0	
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Density Ratio (R <sub>D</sub> )	%	100.5	99.5	98.0	98.0	100.5	
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
Report No 16623/R008  
Date Issued 06/04/2017

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	19/01/17
Location	CRAIGIEBURN	Checked by	JHF

Feature	CLASS 2	Layer thickness	125 mm	Time:	15:13:34
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AS 12892.1.1 & 5.8.1

Test No		36	37	38	39	40	41
Location		Elevation Boulevard					
Chainage Offset		25	75	125	175	225	275
		1.8 south of kerb	1.8 north of kerb	1.8 south of kerb	1.8 north of kerb	1.8 south of kerb	1.8 north of kerb
Approximate depth from F.S.L.	m						
Measurement depth	mm	100	100	100	100	100	100
Field wet density	t/m <sup>3</sup>	2.30	2.17	2.20	2.20	2.15	2.15
Field dry density	t/m <sup>3</sup>	2.07	1.96	2.00	1.99	1.95	1.96
Field moisture content	%	12.5	12.5	12.5	12.5	12.5	12.0

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 2CC2AFEB)

Date of assignment		24/01/2017
Material source and location		20mm Class 2 CC - Alex Fraser, Epping
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	1.99
Optimum Moisture Content	%	12.0

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	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content		1.0% dry	1.5% dry	1.5% dry	1.5% dry	1.5% dry	2.0% dry
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Moisture Ratio ( R <sub>m</sub> )	%	91.0	88.0	86.5	85.5	86.0	82.0
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Density Ratio ( R <sub>D</sub> )	%	104.0	98.5	100.5	100.0	98.0	98.5
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
Report No 16623/R009  
Date Issued 03/02/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	20/01/17
Location	CRAIGIEBURN	Checked by	JHF

Feature	CLASS 2	Layer thickness	150 mm	Time:	08:52:04
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AS 12892.1.1 & 5.8.1

Test No		42	43	44	45	46	47
Location		Vantage Boulevard					
Chainage Offset	10	10	30	80	130	180	
	1.8 east of kerb	1.8 west of kerb	1.8 west of kerb	1.8 east of kerb	1.8 west of kerb	1.8 east of kerb	1.8 west of kerb
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125	125	125	125
Field wet density	t/m <sup>3</sup>	2.42	2.40	2.40	2.41	2.40	2.39
Field dry density	t/m <sup>3</sup>	2.29	2.27	2.27	2.27	2.28	2.24
Field moisture content	%	6.0	6.0	5.5	6.0	5.5	6.5

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MVDBG)

Date of assignment		31/01/17
Material source and location		20mm Class 2 - MVQ, Donnybrook
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	2.29
Optimum Moisture Content	%	7.5

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/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content		2.0% dry	1.5% dry	2.0% dry	1.5% dry	2.5% dry	1.0% dry
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Moisture Ratio ( R <sub>m</sub> )	%	73.5	78.5	71.0	78.5	68.0	86.0
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Density Ratio ( R <sub>D</sub> )	%	100.0	99.0	99.5	99.5	100.0	98.0
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 16623  
Report No 16623/R010  
Date Issued 03/02/17

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON ESTATE - STAGE 17	Date tested	20/01/17
Location	CRAIGIEBURN	Checked by	JHF

Feature	CLASS 2	Layer thickness	150 mm	Time:	09:23:21
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AS 12892.1.1 & 5.8.1

Test No		48	49				
Location		Elevation Boulevard					
Chainage		700	700				
Offset		1.8 south of kerb	1.8 north of kerb				
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125				
Field wet density	t/m <sup>3</sup>	2.37	2.42				
Field dry density	t/m <sup>3</sup>	2.24	2.29				
Field moisture content	%	6.0	5.5				

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MVDBG)

Date of assignment		31/01/17
Material source and location		20mm Class 2 - MVQ, Donnybrook
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	2.29
Optimum Moisture Content	%	7.5

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/m <sup>3</sup>	-	-				
Adjusted Optimum Moisture Content	%	-	-				

Moisture Variation From Optimum Moisture Content		2.0% dry	2.0% dry				
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Moisture Ratio (R <sub>m</sub> )	%	75.0	71.0				
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Density Ratio (R <sub>D</sub> )	%	98.0	100.0				
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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