



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 21180
Report No 21180/R003
Date Issued 21/06/2021

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 26A	Date tested	21/06/21
Location	PLUMPTON	Checked by	JHF

Feature	CAPPING	Layer thickness	110 mm	Time:	09:38:22
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AS 12892.1.1 & 5.8.1

Test No		13	14	15			
Location		Mamic Boulevard					
	Chainage	600	650	700			
	Offset	1.8	1.8	1.8			
		east	west	east			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	100	100	100			
Field wet density	t/m ³	2.28	2.28	2.27			
Field dry density	t/m ³	2.05	2.05	2.05			
Field moisture content	%	11.0	11.5	11.0			

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVCZ)

Date of assignment		29/04/2021					
Material source and location		40mm Capping - MVQ, Wyndham Vale					
Compactive effort		STANDARD					
Maximum Dry Density	t/m ³	2.05					
Optimum Moisture Content	%	12.0					

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	37.5	37.5	37.5			
Percent of oversize material	wet	-	-	-			
Percent of oversize material	dry	-	-	-			
Adjusted Maximum Dry Density	t/m ³	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		0.5% dry	0.5% dry	1.0% dry			
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Moisture Ratio (R_m)	%	95.0	96.0	92.0			
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Density Ratio (R_D)	%	100.0	100.0	100.0			
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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 21180
Report No 21180/R002
Date Issued 21/06/2021

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 26A	Date tested	21/06/21
Location	PLUMPTON	Checked by	JHF

Feature	CAPPING	Layer thickness	150 mm	Time:	09:33:55
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AS 12892.1.1 & 5.8.1

Test No	7	8	9	10	11	12	
Location	Mamic Boulevard			Walkside Blvd	Maryanne Way	Road 08	
Chainage	600	650	700	20	60	5	
Offset	1.8	1.8	1.8	1.8	1.8	1.8	
	east of kerb	west of kerb	east of kerb	north of kerb	south of kerb	north of kerb	
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125	125	125	
Field wet density	t/m ³	2.29	2.30	2.32	2.29	2.29	2.31
Field dry density	t/m ³	2.06	2.07	2.07	2.05	2.07	2.08
Field moisture content	%	11.5	11.0	12.0	11.5	10.5	11.0

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVCZ)

Date of assignment	29/04/2021
Material source and location	40mm Capping - MVQ, Wyndham Vale
Compactive effort	STANDARD
Maximum Dry Density	t/m ³ 2.05
Optimum Moisture Content	% 12.0

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	37.5	37.5	37.5	37.5	37.5	37.5
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m ³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	0.5% dry	1.0% dry	0.0% wet	0.5% dry	1.0% dry	1.0% dry
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Moisture Ratio (R_m)	%	97.0	91.5	100.5	97.5	89.5	92.0
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Density Ratio (R_D)	%	100.5	101.0	101.0	100.0	101.0	101.5
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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 21180
Report No 21180/R005
Date Issued 30/06/2021

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 26A	Date tested	29/06/21
Location	PLUMPTON	Checked by	JHF

Feature	CLASS 2	Layer thickness	100 mm	Time:	14:05:31
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AS 12892.1.1 & 5.8.1

Test No		19	20	21			
Location		Mamic Boulevard					
	Chainage	600	650	700			
	Offset	1.8	1.8	1.8			
		east	west	east			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	75	75	75			
Field wet density	t/m ³	2.48	2.49	2.50			
Field dry density	t/m ³	2.31	2.31	2.33			
Field moisture content	%	7.5	7.5	7.0			

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

Date of assignment		25/05/2021
Material source and location		20mm Class 2 - MVQ, Wyndham Vale
Compactive effort		MODIFIED
Maximum Dry Density	t/m ³	2.31
Optimum Moisture Content	%	8.0

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 ³	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		0.5% dry	0.0% dry	1.0% dry			
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Moisture Ratio (R_m)	%	95.5	97.5	90.0			
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Density Ratio (R_D)	%	100.0	100.0	101.0			
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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 21180
 Report No 21180/R006
 Date Issued 12/07/2021

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ASPIRE - STAGE 26A	Date tested	09/07/21
Location	PLUMPTON	Checked by	JHF

Feature	CLASS 2	Layer thickness	140 mm	Time:	09:30:07
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AS 12892.1.1 & 5.8.1

Test No	22	23	24			
Location	Walkside Boulevard	Maryanne Way	Road 08			
Chainage	20	60	5			
Offset	1.4	1.2	1.5			
	north of kerb	south of kerb	north of kerb			
Approximate depth from F.S.L.	m					
Measurement depth	mm	125	125	125		
Field wet density	t/m ³	2.50	2.52	2.52		
Field dry density	t/m ³	2.33	2.32	2.33		
Field moisture content	%	7.5	8.5	8.5		

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

Date of assignment	25/05/2021
Material source and location	20mm Class 2 - MVQ, Wyndham Vale
Compactive effort	MODIFIED
Maximum Dry Density	t/m ³ 2.31
Optimum Moisture Content	% 8.0

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 ³	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content	0.5%	0.5%	0.5%			
	dry	wet	wet			

Moisture Ratio (R_m)	%	94.0	105.5	105.0		
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Density Ratio (R_D)	%	100.5	100.5	101.0		
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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 21180
Report No 21180/R004
Date Issued 30/06/2021

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 26A	Date tested	29/06/21
Location	PLUMPTON	Checked by	JHF

Feature	CLASS 3	Layer thickness	100 mm	Time:	13:42:53
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AS 12892.1.1 & 5.8.1

Test No		16	17	18			
Location		Walkside Boulevard	Maryanne Way	Road 08			
Chainage		20	60	5			
Offset		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	75	75	75			
Field wet density	t/m ³	2.51	2.50	2.51			
Field dry density	t/m ³	2.33	2.33	2.35			
Field moisture content	%	7.5	7.5	7.0			

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVIW)

Date of assignment		26/05/2021					
Material source and location		20mm Class 3 - MVQ, Wyndham Vale					
Compactive effort		MODIFIED					
Maximum Dry Density	t/m ³	2.32					
Optimum Moisture Content	%	7.5					

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 ³	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		0.0% dry	0.0% dry	0.5% dry			
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Moisture Ratio (R_m)	%	99.0	97.0	94.0			
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Density Ratio (R_D)	%	101.0	101.0	101.5			
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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 21180
 Report No 21180/R001
 Date Issued 02/07/2021

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 26A	Date tested	08/06/21
Location	PLUMPTON	Checked by	JHF

Feature	CONSTRUCTION LAYER	Layer thickness	150 mm	Time:	09:46
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	Mamic Boulevard			Walkside Boulevard	Maryanne Way	Road 08
	600 1.8 east of kerb	650 1.8 west of kerb	700 1.8 east of kerb	20 1.8 north of kerb	60 1.8 south of kerb	5 1.8 north of kerb
Approximate depth below FSL						
Measurement depth	mm	125	125	125	125	125
Field wet density	t/m ³	1.87	1.90	1.88	1.87	1.85
Field moisture content	%	16.7	12.4	13.6	12.9	13.4

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	5	6
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m ³	1.87	1.90	1.88	1.86	1.85
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	16.5	13.0	14.5	12.5	13.5

Moisture Variation From Optimum Moisture Content	0.0%	0.5% dry	1.0% dry	0.5% wet	1.0% dry	0.5% dry
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Density Ratio (R _{HD})	%	100.0	100.0	100.0	100.5	100.0	100.0
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Material description

No 1 - 6 40mm Type A - Masalkovski Quarries

AVRLOT HILF V1.10 MAR 13



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