



COMPACTION ASSESSMENT

Job No 23578
 Report No 23578/R001
 Date Issued 19/07/2023

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 36B	Date tested	13/07/23
Location	PLUMPTON	Checked by	JHF

Feature	CONSTRUCTION LAYER	Layer thickness	150 mm	Time: 13:29
----------------	---------------------------	------------------------	--------	--------------------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	Gec Boulevard			Race Street	Nostalgia Street	Mamic Boulevard
	300 1.8 east of kerb	250 1.8 west of kerb	200 1.8 east of kerb	20 1.8 north of kerb	45 1.8 north of kerb	200 1.8 east of kerb
Approximate depth below FSL						
Measurement depth	mm	125	125	125	125	125
Field wet density	t/m ³	1.82	1.76	1.76	1.77	1.77
Field moisture content	%	19.7	20.8	20.4	27.0	23.8

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	1.82	1.76	1.77	1.76	1.76
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	20.5	22.0	21.5	27.5	25.0

Moisture Variation From Optimum Moisture Content	1.0% dry	1.0% dry	1.0% dry	0.5% dry	1.0% dry	0.5% dry
--	-------------	-------------	-------------	-------------	-------------	-------------

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	100.5	100.0	100.0	100.5	100.5	100.0
-----------------------------------	---	-------	-------	-------	-------	-------	-------

Material description

No 1 - 6 40mm Type A - Masalkovski Quarries

AVRLOT HILF V1.10 MAR 13



NATA Accredited Laboratory No 9909
 Accredited for compliance with
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 23578
 Report No 23578/R002
 Date Issued 19/07/2023

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 36B	Date tested	14/07/23
Location	PLUMPTON	Checked by	JHF

Feature	CAPPING	Layer thickness	150 mm	Time: NB
----------------	----------------	------------------------	--------	-----------------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	7	8	9	10	11	12
Location	Gec Boulevard			Race Street	Nostalgia Street	Mamic Boulevard
	300 1.8 east of kerb	250 1.5 west of kerb	200 1.8 east of kerb	20 1.8 north of kerb	45 1.3 south of kerb	200 1.3 east of kerb
Approximate depth below FSL						
Measurement depth	mm	125	125	125	125	125
Field wet density	t/m ³	1.94	1.88	1.83	1.80	1.78
Field moisture content	%	22.3	24.6	24.1	22.3	23.9

Test procedure AS 1289.5.7.1

Test No	7	8	9	10	11	12
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	1.94	1.87	1.83	1.78	1.78
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	23.0	25.0	25.0	23.5	25.0

Moisture Variation From Optimum Moisture Content	0.5% dry	0.5% dry	1.0% dry	1.0% dry	1.0% dry	1.0% dry
--	-------------	-------------	-------------	-------------	-------------	-------------

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	100.0	100.5	100.0	101.0	100.0	101.0
-----------------------------------	---	-------	-------	-------	-------	-------	-------

Material description

No 7 - 12 40mm Type A - Masalkovski Quarries

AVRLOT HILF V1.10 MAR 13



NATA Accredited Laboratory No 9909
 Accredited for compliance with
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 23578
Report No 23578/R003
Date Issued 24/07/2023

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ASPIRE - STAGE 36B	Date tested	24/07/23
Location	PLUMPTON	Checked by	JHF

Feature	CLASS 3	Layer thickness	170 mm	Time:	14:43:13
---------	---------	-----------------	--------	-------	----------

AS 12892.1.1 & 5.8.1

Test No		13	14	15			
Location		Gec Boulevard					
	Chainage	230	280	330			
	Offset	1.9	2.1	2.0			
		east	west	east			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	150	150	150			
Field wet density	t/m ³	2.46	2.46	2.43			
Field dry density	t/m ³	2.29	2.29	2.27			
Field moisture content	%	7.5	7.0	7.0			

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

Date of assignment		13/06/2023					
Material source and location		20mm Class 3 - MVQ, Wyndham Vale					
Compactive effort		MODIFIED					
Maximum Dry Density	t/m ³	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			
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	0.5% dry			
--	--	-------------	-------------	-------------	--	--	--

Moisture Ratio (R _m)	%	93.5	92.5	91.5			
----------------------------------	---	------	------	------	--	--	--

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _D)	%	100.5	100.5	100.0			
---------------------------------	---	-------	-------	-------	--	--	--

A581ASSIGNED V1.13 MAR 13



NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 23578
Report No 23578/R004
Date Issued 24/07/2023

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ASPIRE - STAGE 36B	Date tested	24/07/23
Location	PLUMPTON	Checked by	JHF

Feature	CLASS 3	Layer thickness	100 mm	Time:	14:45:50
----------------	----------------	------------------------	--------	--------------	----------

AS 12892.1.1 & 5.8.1

Test No		16	17				
Location		Race Street	Nostalgia Street				
Chainage		30	40				
Offset		1.9	2.1				
		north of kerb	south of kerb				
Approximate depth from F.S.L.	m						
Measurement depth	mm	75	75				
Field wet density	t/m ³	2.40	2.38				
Field dry density	t/m ³	2.25	2.23				
Field moisture content	%	6.5	7.0				

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

Date of assignment		13/06/2023					
Material source and location		20mm Class 3 - MVQ, Wyndham Vale					
Compactive effort		MODIFIED					
Maximum Dry Density	t/m ³	2.28					
Optimum Moisture Content	%	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/m ³	-	-				
Adjusted Optimum Moisture Content	%	-	-				

Moisture Variation From Optimum Moisture Content		1.0% dry	1.0% dry				
---	--	-------------	-------------	--	--	--	--

Moisture Ratio (R_m)	%	84.5	88.5				
---	---	------	------	--	--	--	--

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R_D)	%	99.0	98.0				
--	---	------	------	--	--	--	--

A581ASSIGNED V1.13 MAR 13



NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 23578
Report No 23578/R005
Date Issued 24/07/2023

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ASPIRE - STAGE 36B	Date tested	24/07/23
Location	PLUMPTON	Checked by	JHF

Feature	CLASS 2	Layer thickness	100 mm	Time:	14:47:42
----------------	----------------	------------------------	--------	--------------	----------

AS 12892.1.1 & 5.8.1

Test No	18					
Location	Mamic Boulevard					
Chainage	330					
Offset	2.1 west of kerb					
Approximate depth from F.S.L.	m					
Measurement depth	mm	75				
Field wet density	t/m ³	2.46				
Field dry density	t/m ³	2.32				
Field moisture content	%	6.0				

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

Date of assignment		21/07/2023
Material source and location		20mm Class 2 - MVQ, Wyndham Vale
Compactive effort		MODIFIED
Maximum Dry Density	t/m ³	2.30
Optimum Moisture Content	%	7.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	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		1.0% dry				
---	--	----------	--	--	--	--

Moisture Ratio (R_m)	%	84.0				
---------------------------------------	---	------	--	--	--	--

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R_D)	%	101.0				
--------------------------------------	---	-------	--	--	--	--

A581ASSIGNED V1.13 MAR 13



NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 23578
Report No 23578/R006
Date Issued 07/08/2023

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 36B	Date tested	07/08/23
Location	PLUMPTON	Checked by	JHF

Feature	CLASS 2	Layer thickness	130 / 140 mm	Time:	08:40:14
----------------	----------------	------------------------	--------------	--------------	----------

AS 12892.1.1 & 5.8.1

Test No		19	20	21	22	23	24
Location		Gec Boulevard				Race Street	Nostalgia Street
Chainage Offset	200	250	300	350	20	45	
	1.8	1.8	1.8	1.8	1.8	1.8	
	east of kerb	west of kerb	east of kerb	west of kerb	north of kerb	south of kerb	
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125	125	125	125
Field wet density	t/m ³	2.47	2.45	2.48	2.48	2.47	2.47
Field dry density	t/m ³	2.30	2.29	2.31	2.31	2.31	2.30
Field moisture content	%	7.5	7.0	7.5	8.0	7.0	7.5

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

Date of assignment		21/07/2023
Material source and location		20mm Class 2 - MVQ, Wyndham Vale
Compactive effort		MODIFIED
Maximum Dry Density	t/m ³	2.30
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 ³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content		0.0% wet	0.0% dry	0.0% wet	0.5% wet	0.5% dry	0.0% wet
---	--	-------------	-------------	-------------	-------------	-------------	-------------

Moisture Ratio (R_m)	%	102.5	97.0	103.0	107.0	95.0	102.5
---	---	-------	------	-------	-------	------	-------

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R_D)	%	100.0	100.0	100.5	100.5	100.5	100.0
--	---	-------	-------	-------	-------	-------	-------

A581ASSIGNED V1.13 MAR 13



NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry