



COMPACTION ASSESSMENT

Job No 23920
 Report No 23920/R001
 Date Issued 01/12/2023

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	REDSTONE ESTATE - STAGE 5B	Date tested	28/11/23
Location	SUNBURY	Checked by	JHF

Feature	CONSTRUCTION LAYER	Layer thickness	150 mm	Time: 09:52
---------	--------------------	-----------------	--------	-------------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	-	-
Location	Spinebill Street	Feather Avenue	Origin Drive	Pedro Road		
	140	150	220	30		
	1.7	1.9	2.1	1.8		
	east of kerb	west of kerb	east of kerb	north of kerb		
Approximate depth below FSL						
Measurement depth	mm	125	125	125	125	-
Field wet density	t/m ³	2.02	1.98	2.01	2.11	-
Field moisture content	%	17.7	18.1	16.8	22.0	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	-	-
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	-
Percent of oversize material	wet	0	0	0	0	-
Peak Converted Wet Density	t/m ³	2.02	1.98	2.00	2.09	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	18.0	18.5	17.0	23.0	-

Moisture Variation From Optimum Moisture Content	0.5% dry	0.5% dry	0.0%	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	100.0	100.5	101.0	-	-
-----------------------------------	---	-------	-------	-------	-------	---	---

Material description

No 1 - 4	Mudstone
----------	----------

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 23920
 Report No 23920/R002
 Date Issued 04/12/2023

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	REDSTONE ESTATE - STAGE 5B	Date tested	29/11/23
Location	SUNBURY	Checked by	JHF

Feature	CAPPING	Layer thickness	150 / 200 mm	Time:	10:45
---------	---------	-----------------	--------------	-------	-------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	5	6	7	8	-	-
Location	Spinebill Street	Feather Road	Pedro Road	Origin Drive		
	140	150	30	220		
	1.7	1.9	2.0	2.1		
	east of kerb	west of kerb	north of kerb	east of kerb		
Approximate depth below FSL						
Measurement depth	mm	175	125	175	175	-
Field wet density	t/m ³	1.88	1.89	1.90	1.99	-
Field moisture content	%	30.6	30.0	29.9	30.8	-

Test procedure AS 1289.5.7.1

Test No	5	6	7	8	-	-
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	-
Percent of oversize material	wet	0	0	0	0	-
Peak Converted Wet Density	t/m ³	1.88	1.88	1.89	2.00	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	31.5	30.5	30.5	31.5	-

Moisture Variation From Optimum Moisture Content	1.0% dry	0.5% dry	0.5% 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})	%	100.0	100.5	100.5	100.0	-	-
-----------------------------------	---	-------	-------	-------	-------	---	---

Material description

No 5 - 8 Mudstone

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 23920
Report No 23920/R003
Date Issued 14/12/2023

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	REDSTONE ESTATE - STAGE 5B	Date tested	14/12/23
Location	SUNBURY	Checked by	JHF

Feature	CLASS 3	Layer thickness	160 mm	Time:	10:16:54
----------------	----------------	------------------------	--------	--------------	----------

AS 12892.1.1 & 5.8.1

Test No	9					
Location	Origin Drive					
Chainage Offset	220 1.7 east of kerb					
Approximate depth from F.S.L.	m					
Measurement depth	mm	125				
Field wet density	t/m ³	2.40				
Field dry density	t/m ³	2.29				
Field moisture content	%	5.0				

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

Date of assignment	13/09/2023
Material source and location	20mm Class 3 - Holcim, Oaklands Junction
Compactive effort	MODIFIED
Maximum Dry Density	t/m ³ 2.27
Optimum Moisture Content	% 5.5

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	0.5% dry					
---	-------------	--	--	--	--	--

Moisture Ratio (R_m)	%	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)	%	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 23920
Report No 23920/R004
Date Issued 14/12/2023

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	REDSTONE ESTATE - STAGE 5B	Date tested	14/12/23
Location	SUNBURY	Checked by	JHF

Feature	CLASS 3	Layer thickness	100 mm	Time:	10:18:43
---------	---------	-----------------	--------	-------	----------

AS 12892.1.1 & 5.8.1

Test No		10	11	12			
Location		Pedro Road	Feather Road	Spinebill Street			
Chainage		30	150	140			
Offset		1.7	1.9	1.8			
		north of kerb	west of kerb	east of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	75	75	75			
Field wet density	t/m ³	2.39	2.38	2.36			
Field dry density	t/m ³	2.28	2.28	2.26			
Field moisture content	%	5.0	4.5	4.5			

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

Date of assignment		13/09/2023					
Material source and location		20mm Class 3 - Holcim, Oaklands Junction					
Compactive effort		MODIFIED					
Maximum Dry Density	t/m ³	2.27					
Optimum Moisture Content	%	5.5					

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		0.5% dry	1.0% dry	1.0% dry			
--	--	----------	----------	----------	--	--	--

Moisture Ratio (R _m)	%	88.5	80.0	79.0			
----------------------------------	---	------	------	------	--	--	--

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)	%	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