

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

21st March 2023

Our Reference: 22371:NB1491

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING MARIGOLD – STAGE 6 (TARNEIT)

Please find attached our Report No's 22371/R001 to 22371/R012 which relate to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing commenced in May 2022 and was completed in June 2022.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

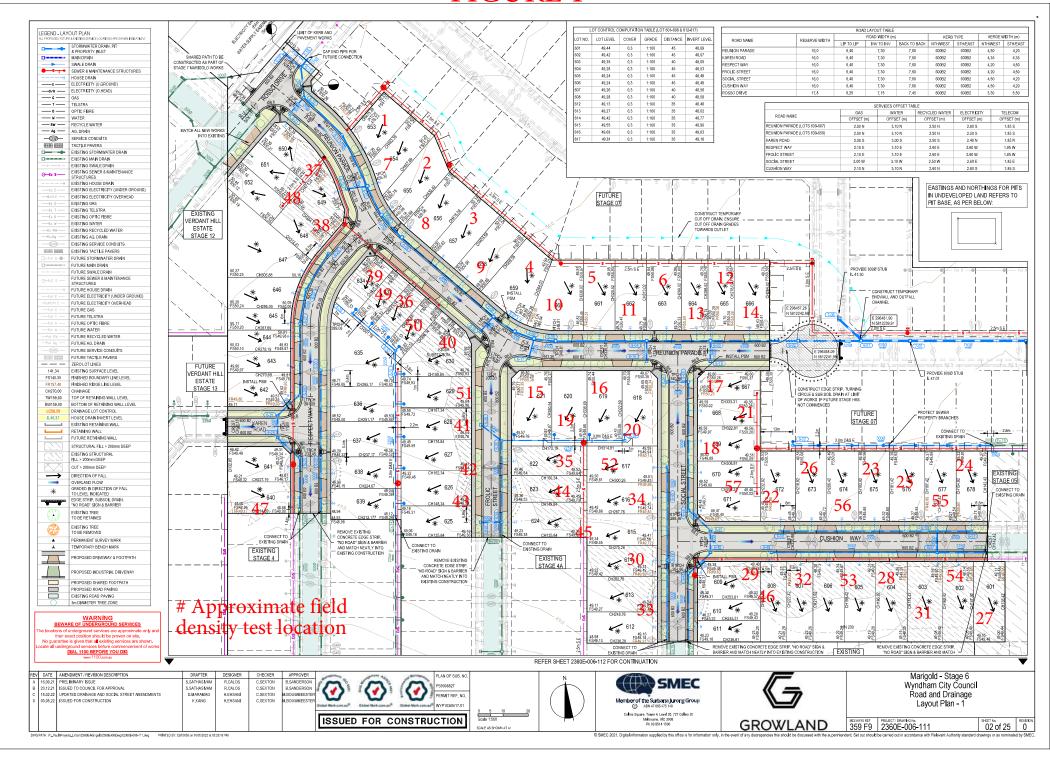
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





 CIVIL GEOTECHNICAL SERVICES
 Job No
 22371

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22371/R001

 Date Issued
 07/06/2022

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byJBProjectMARIGOLD - STAGE 6Date tested24/05/22LocationTARNEITChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	4	5	6
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.96	1.94	1.95	1.98	2.00	2.01
Field moisture content	%	27.9	26.0	26.1	28.9	25.2	27.2

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	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.01	1.95	1.98	2.02	2.04	2.04
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	30.5	28.5	28.5	32.0	27.5	29.5

Moisture Variation From	2.0%	2.5%	2.5%	2.5%	2.0%	2.0%
Optimum Moisture Content	dry	dry	dry	dry	dry	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})	%	97.5	99.5	98.5	98.5	97.5	98.5

Material description

No 1 - 6 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22371

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22371/R002

 Date Issued
 06/06/2022

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byJBProjectMARIGOLD - STAGE 6Date tested25/05/22LocationTARNEITChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		7	8	9	10	11	12
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.95	1.94	1.98	1.95	1.95	1.97
Field moisture content	%	24.7	23.8	26.0	22.4	24.7	23.5

Test procedure AS 1289.5.7.1

1001 p1000 adi 0 110 1200 01111									
Test No		7	8	9	10	11	12		
Compactive effort			_	Stan	ndard				
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0		
Percent of oversize material	wet	0	0	0	0	0	0		
Peak Converted Wet Density	t/m³	1.97	1.98	2.03	2.00	1.98	2.01		
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-		
Optimum Moisture Content	%	27.5	26.5	28.5	24.5	27.5	26.5		

Moisture Variation From	2.5%	2.5%	2.5%	1.5%	2.5%	2.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	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})	%	99.5	98.5	97.5	97.5	98.5	98.5

Material description

No 7 - 12 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22371

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22371/R003

 Date Issued
 01/06/2022

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byJBProjectMARIGOLD - STAGE 6Date tested26/05/22LocationTARNEITChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		13	14	15	16	17	18
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.87	1.91	1.79	1.90	1.88	1.89
Field moisture content	%	24.4	28.6	26.6	26.1	27.0	25.6

Test procedure AS 1289.5.7.1

Test No		13	14	15	16	17	18
Compactive effort				Star	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.91	1.94	1.83	1.94	1.93	1.93
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	27.0	31.5	29.0	28.0	29.5	28.0

Moisture Variation From	2.5%	2.5%	2.0%	2.0%	2.5%	2.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	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})	% 98.5	98.5 98.0	98.0	97.5	98.0

Material description

No 13 - 18 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22371

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22371/R004

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 JB

Project MARIGOLD - STAGE 6 Date tested 27/05/22 Location TARNEIT Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		19	20	21	22	23	24
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.06	2.09	2.03	1.99	1.99	1.93
Field moisture content	%	21.9	23.5	18.2	24.3	25.1	24.7

Test procedure AS 1289.5.7.1

Test No		19	20	21	22	23	24
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.09	2.10	2.08	2.02	2.03	1.95
Adjusted Peak Converted Wet Density	t/m³	ı	-	-	-	-	-
Optimum Moisture Content	%	23.5	26.0	18.0	27.0	27.5	27.5

Moisture Variation From	1.5%	2.5%	0.0%	2.5%	2.5%	2.5%
Optimum Moisture Content	dry	dry		dry	dry	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})	%	98.5	99.5	98.0	98.5	98.0	99.0

Material description

No 19 - 24 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22371

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22371/R005

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 JB

Project MARIGOLD - STAGE 6
Date tested 28/05/22
Location TARNEIT Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		25	26	27	28	29	30
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.86	1.86	1.83	1.76	1.86	1.84
Field moisture content	%	24.5	25.5	25.4	25.8	24.6	24.9

Test procedure AS 1289.5.7.1

: 000 p: 000 did:: 0 : 10 : 100:: 11:							
Test No		25	26	27	28	29	30
Compactive effort				Star	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.91	1.87	1.88	1.81	1.90	1.87
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	27.0	26.5	25.5	27.5	27.0	25.5

Moisture Variation From	2.5%	1.0%	0.0%	1.5%	2.5%	0.5%
Optimum Moisture Content	dry	dry		dry	dry	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})	%	97.5	99.5	97.5	97.5	97.5	98.5

Material description

No 25 - 30 Clay Fill

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

AVRLOT HILF V1.10 MAR 13





 CIVIL GEOTECHNICAL SERVICES
 Job No
 22371

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22371/R006

 Date Issued
 16/06/2022

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byJBProjectMARIGOLD - STAGE 6Date tested31/05/22LocationTARNEITChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		31	32	33	34	35	36
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.05	2.01	1.96	1.97	1.95	1.99
Field moisture content	%	22.3	23.3	20.7	20.5	26.2	24.9

Test procedure AS 1289.5.7.1

Test No		31	32	33	34	35	36
Compactive effort				Stan	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.10	2.03	1.98	2.00	1.98	2.03
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	21.5	23.0	23.0	21.0	28.0	24.5

Moisture Variation From	0.5%	0.5%	2.5%	0.5%	1.5%	0.5%
Optimum Moisture Content	wet	wet	dry	dry	dry	wet

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})	%	97.5	99.0	99.0	98.5	98.5	98.5

Material description

No 31 - 36 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22371

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22371/R007

 Date Issued
 07/07/2022

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byJBProjectMARIGOLD - STAGE 6Date tested02/06/22LocationTARNEITChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		37	38	39	40	41	42
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		ТО	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.83	1.81	1.78	1.84	1.80	1.78
Field moisture content	%	26.3	26.7	28.3	26.6	27.9	26.1

Test procedure AS 1289.5.7.1

Test No		37	38	39	40	41	42
Compactive effort				Stan	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.84	1.85	1.80	1.86	1.80	1.81
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	28.5	29.0	30.5	29.0	30.0	28.5

Moisture Variation From	2.0%	2.5%	2.0%	2.0%	2.0%	2.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	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	98.0	99.0	99.0	100.0	98.5

Material description

No 37 - 42 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



Job No 22371 CIVIL GEOTECHNICAL SERVICES Report No 22371/R008 Date Issued 16/06/2022 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by JB MARIGOLD - STAGE 6 Date tested 03/06/22 Project Location **TARNEIT** Checked by

Feature **EARTHWORKS** Layer thickness 200 mm Time: 12:00

Test No		43	44	45	-	-	-
Location							
		REFER	REFER	REFER			
		TO	TO	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.88	1.94	1.95	-	-	-
Field moisture content	%	27.3	27.4	25.4	-	-	-
Test procedure AS 1289.5.7.1							
Test No		43	44	45	-	-	-
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-	-
Percent of oversize material	wet	0	0	0	-	-	-
Peak Converted Wet Density	t/m³	1.87	1.96	1.98	-	-	-
-							

Moisture Variation From	0.0%	2.5%	2.5%	-	-	-
Optimum Moisture Content		dry	dry			

30.0

28.0

t/m³

%

27.5

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 _{HD})	%	100.0	99.0	99.0	-	-	-	

Material description

No 43 - 45 Clay Fill

Adjusted Peak Converted Wet Density

Optimum Moisture Content

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

AVRLOT HILF V1.10 MAR 13

JHF



Job No 22371 CIVIL GEOTECHNICAL SERVICES Report No 22371/R009 Date Issued 08/06/2022 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) WS Client Tested by MARIGOLD - STAGE 6 Date tested 04/06/22 Project Location **TARNEIT** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 07:00

Test No		46	47	48	-	-	-
Location							
		REFER	REFER	REFER			
		TO	TO	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.98	1.95	1.98	-	-	-
Field moisture content	%	22.0	23.8	21.4	-	-	-

Test procedure AS 1289.5.7.1

Test No		46	47	48	-	-	-
Compactive effort				Star	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-	-
Percent of oversize material	wet	0	0	0	-	-	-
Peak Converted Wet Density	t/m³	2.03	2.03	2.02	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	25.0	26.0	24.0	-	-	-

Moisture Variation From	2.5%	2.0%	2.5%	-	-	-
Optimum Moisture Content	dry	dry	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})	% 98.0	96.5 98.0	-	-	-	

Material description

No 46 - 48 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



Job No 22371 CIVIL GEOTECHNICAL SERVICES Report No 22371/R010 Date Issued 16/06/2022 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by JB Project MARIGOLD - STAGE 6 Date tested 06/06/22 Location **TARNEIT** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:00

Test No		49	50	51	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
		4	475	175			
Measurement depth	mm	175	175	175	-		_
Measurement depth Field wet density	mm t/m³	1.80	175 1.86	1.92	-	-	-
·			_		- -	- -	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	1.80	1.86	1.92 23.1	- - -	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t/m³	1.80	1.86	1.92		- - -	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t/m³	1.80 21.2	1.86 22.4	1.92 23.1	-		
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	t/m³	1.80 21.2	1.86 22.4	1.92 23.1 51	-		
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	t/m³ %	1.80 21.2 49	1.86 22.4	1.92 23.1 51 Stan	- dard	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	t/m³ % mm	1.80 21.2 49 19.0	1.86 22.4 50 19.0	1.92 23.1 51 Stan 19.0	- dard	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³ % mm wet	1.80 21.2 49 19.0 0	1.86 22.4 50 19.0 0	1.92 23.1 51 Stan 19.0 0	- dard	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	mm wet t/m³	1.80 21.2 49 19.0 0	1.86 22.4 50 19.0 0	1.92 23.1 51 Stan 19.0 0	- dard	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³ t/m³	1.80 21.2 49 19.0 0 1.85	1.86 22.4 50 19.0 0 1.90	1.92 23.1 51 Stan 19.0 0 1.97	- dard - - -	- - - -	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³ t/m³	1.80 21.2 49 19.0 0 1.85	1.86 22.4 50 19.0 0 1.90	1.92 23.1 51 Stan 19.0 0 1.97	- dard - - -	- - - -	-

Material description

No 49 - 51 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



Job No 22371 **CIVIL GEOTECHNICAL SERVICES** Report No 22371/R011 Date Issued 16/06/2022 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by Client JB Project MARIGOLD - STAGE 6 Date tested 07/06/22 Location **TARNEIT** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:00

Test No		52	53	54	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.73	1.73	1.70	-	-	-
Field wet density	t/m³ %	1.73 32.9	1.73 27.8	1.70 26.9	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1		32.9	27.8	26.9		-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No				26.9	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No		32.9	27.8	26.9	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort		32.9	27.8	26.9	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	%	32.9 52	27.8	26.9 54 Stan	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	% mm	32.9 52 19.0	27.8 53	26.9 54 Stan	-		-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	% mm wet	32.9 52 19.0 0	27.8 53 19.0 0	26.9 54 Stan 19.0	- dard - -		-
<u> </u>	mm wet t/m³	32.9 52 19.0 0	27.8 53 19.0 0	26.9 54 Stan 19.0	- dard - -	- - -	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density Optimum Moisture Content	mm wet t/m³	32.9 52 19.0 0 1.76 - 34.0	27.8 53 19.0 0 1.78 - 29.5	26.9 54 Stan 19.0 0 1.77 - 28.0	- dard - -	- - -	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	32.9 52 19.0 0 1.76	27.8 53 19.0 0 1.78	26.9 54 Standon 19.0 0 1.77	- dard - -	- - -	-

Material description

No 52 - 54 Clay Fill



AVRLOT HILF V1.10 MAR 13



Job No 22371 **CIVIL GEOTECHNICAL SERVICES** Report No 22371/R012 Date Issued 05/08/2022 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by JB Project MARIGOLD - STAGE 6 Date tested 28/06/22 Location **TARNEIT** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:00

Test procedure AS 128	39.2.1.1 & 5.8.1
-----------------------	------------------

Test No		55	56	57	-	-	-
Location							
		REFER	REFER	REFER			
		TO	TO	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	ı	-	-
Field wet density	t/m³	1.91	1.88	1.85	-	-	-
Field moisture content	%	21.3	20.5	22.4	-	-	-

Test procedure AS 1289.5.7.1

Test No		55	56	57	-	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-	-
Percent of oversize material	wet	0	0	0	-	-	-
Peak Converted Wet Density	t/m³	2.00	1.97	1.94	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	21.5	22.5	25.0	-	-	-

Moisture Variation From	0.0%	2.0%	2.5%	-	-	-
Optimum Moisture Content		dry	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})	%	95.5	95.5	95.0	_	_	_
Delisity Ratio (R _{HD})	/0	33.3	33.3	3J.U	-	_	_

Material description

No 55 - 57 Clay Fill

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

AVRLOT HILF V1.10 MAR 13