

# CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724 PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

5<sup>th</sup> June 2023

Our Reference: 22853:NB1576

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

#### RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ALAMORA – STAGE 11 – 13 BEW (TARNEIT)

Please find attached our Report No's 22853/R001 to 22853/R044 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 commenced in December 2022 and was completed in May 2023.

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





NSTRUCTORS I TAGES 11 - 13 B 5 1.1 & 5.8.1 <u>mm</u> <u>t/m³</u> % 7.1	EW	er thickness er thickness REFER TO FIGURE 1 175 1.82 26.9	200 200 <b>3</b> REFER TO FIGURE 1 175 1.81 22.7	Da Cł	ate tested necked by	JB 15/12/22 JHF 10:00 6 REFER TO FIGURE 1 175 1.84 27.3
1.1 & 5.8.1 	<b>1</b> REFER TO FIGURE 1 <u>175</u> 1.87	<b>2</b> REFER TO FIGURE 1 175 1.82	<b>3</b> REFER TO FIGURE 1 175 1.81	<b>4</b> REFER TO FIGURE 1 175 1.80	<b>5</b> REFER TO FIGURE 1 175 1.87	6 REFER TO FIGURE 1 175 1.84
 	REFER TO FIGURE 1 175 1.87	REFER TO FIGURE 1 175 1.82	REFER TO FIGURE 1 175 1.81	REFER TO FIGURE 1 175 1.80	REFER TO FIGURE 1 175 1.87	REFER TO FIGURE 1 175 1.84
<u>mm</u> t/m³ %	REFER TO FIGURE 1 175 1.87	REFER TO FIGURE 1 175 1.82	REFER TO FIGURE 1 175 1.81	REFER TO FIGURE 1 175 1.80	REFER TO FIGURE 1 175 1.87	REFER TO FIGURE 1 175 1.84
<u>mm</u> t/m³ %	TO FIGURE 1 175 1.87	TO FIGURE 1 175 1.82	TO FIGURE 1 175 1.81	TO FIGURE 1 175 1.80	TO FIGURE 1 175 1.87	TO FIGURE 1 175 1.84
<u>mm</u> t/m³ %	1.87	1.82	1.81	1.80	1.87	1.84
<i>t/m</i> ³ %	1.87	1.82	1.81	1.80	1.87	1.84
%						
	20.4	26.9	22.7	20.6	28.5	1 07 0
	1	2	3 Stan	4 dard	5	6
re mm	19.0	19.0	19.0	19.0	19.0	19.0
wet	0	0	0	0	0	0
	1.91	1.83	1.85	1.85	1.89	1.87
,	-	-	-	-	-	-
%	23.0	29.5	24.0	22.5	31.0	28.5
m	2.5%	2.5%	1.0%	2.0%	2.0%	1.0%
	dry	dry	dry	dry	dry	dry
io results relate c	only to the so	il to the dept	n of test and	not to the ful	l depth of the	e layer
%	98.0	99.0	98.0	97.0	98.5	98.0
	wet t/m³ t Density t/m³ % m tent to results relate o	wet         0           t/m³         1.91           t Density         t/m³           %         23.0           vm         2.5%           tent         dry           tio results relate only to the so	wet         0         0           t/m³         1.91         1.83           t Density         t/m³         -         -           %         23.0         29.5           vm         2.5%         2.5%           tent         dry         dry           tio results relate only to the soil to the deptilities         0	ve         mm         19.0         19.0         19.0           wet         0         0         0         0           t/m³         1.91         1.83         1.85           t Density         t/m³         -         -           %         23.0         29.5         24.0           om         2.5%         2.5%         1.0%           tent         dry         dry         dry           io results relate only to the soil to the depth of test and         -	ve         mm         19.0         0 </td <td>ve <math>mm</math>         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         0&lt;</td>	ve $mm$ 19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         0<



Approved Signatory : Justin Fry



8 Rose Avenue Client Project Location	e, Croydon 3136 WINSLOW CONSTRUC ALAMORA - STAGES 1 TARNEIT	,	AMPBELLFIE	ELD)	Te Da	Date Issued13/0Tested byJBDate tested16/2Checked byJHF		
Feature	EARTHWORKS		Lay	er thickness	200	mm	Time:	13:00
	ure AS 1289.2.1.1 & 5.8	.1						
Test No			7	8	9	10	11	12
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate	depth below FSL							
Measurement		mm	175	175	175	175	175	175
Field wet den		t/m³	2.03	2.04	2.07	2.02	2.04	2.00
Field moisture	*	%	25.5	23.9	21.7	23.4	21.5	24.8
Test proced	ure AS 1289.5.7.1							
Test No			7	8	9	10	11	12
Compactive e	effort				Stan	dard		
Oversize rock	retained on sieve	тт	19.0	19.0	19.0	19.0	19.0	19.0
Percent of ov	ersize material	wet	0	0	0	0	0	0
Peak Convert	ted Wet Density	t∕m³	2.07	2.07	2.07	2.08	2.08	2.06
	k Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moi	isture Content	%	26.0	24.5	23.5	24.5	23.5	26.5
Moist	ture Variation From		0.5%	0.5%	2.0%	1.0%	2.0%	1.5%
Optim	um Moisture Content		dry	dry	dry	dry	dry	dry
density	and moisture ratio results	relate o	only to the so	il to the dept	h of test and	not to the fu	II depth of the	e layer
Donaity Dati	o(R <sub>HD</sub> )	%	98.0	98.5	100.0	97.5	98.0	97.5



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8 Rose Avenue, Croydon 3136         Client       WINSLOW CONSTRUCT         Project       ALAMORA - STAGES 11         Location       TARNEIT			AMPBELLFIE	ELD)	Te Da	Date Issued13/01/2Tested byWSDate tested17/12/2Checked byJHF		
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	07:30	
Test procedure AS 1289.2.1.1 & 5.8.	1							
Test No		13	14	15	16	17	18	
Location		REFER TO FIGURE 1	REFER TO FIGURE 1					
Approximate depth below FSL								
Measurement depth	mm	175	175	175	175	175	175	
Field wet density	t/m³	1.81	1.86	1.76	1.73	1.74	1.77	
Field moisture content	%	27.6	25.8	23.7	26.7	26.8	28.3	
Test procedure AS 1289.5.7.1								
Test No		13	14	15	16	17	18	
Compactive effort		10.0	10.0	Stan	1	10.0		
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/m <sup>3</sup>	1.86	1.92	1.79	1.79	1.80	1.80	
Adjusted Peak Converted Wet Density Optimum Moisture Content	t/m³ %	- 30.0	- 28.0	- 26.0	- 27.5	- 27.5	- 30.0	
Optimum Moisture Content	/0	30.0	20.0	20.0	27.5	27.5	30.0	
Moisture Variation From		2.0%	2.0%	2.5%	0.5%	0.5%	2.0%	
Optimum Moisture Content		dry	dry	dry	dry	dry	dry	
density and moisture ratio results r	elate d							
Density Ratio (R <sub>HD</sub> )	%	97.5	97.0	98.0	97.0	97.0	98.5	
	70	01.0	01.0	00.0	0110	07.0	00.0	
Material description								
No 13 - 18 Clay Fill								



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	NSTRUCTORS TAGES 11 - 13 B		AMPBELLFIE	ELD)	Te Da	ate Issued ested by ate tested hecked by	17/01/23 JB 19/12/22 JHF	
Feature EARTHWORK	S	Lay	er thickness	200	mm	Time:	13:00	
Test procedure AS 1289.2.	1.1 & 5.8.1							
Test No		19	20	21	22	23	24	
Location		REFER TO FIGURE 1	REFER TO FIGURE 1					
Approximate depth below FSL								
Measurement depth	mm	175	175	175	175	175	175	
Field wet density	t/m³	1.91	1.91	1.95	1.95	1.94	1.93	
Field moisture content	%	30.7	29.3	28.1	30.2	34.2	26.5	
Test procedure AS 1289.5.7	7.1							
Test No		19	20	21	22	23	24	
Compactive effort				Stan	dard			
Oversize rock retained on siev	re 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	1.94	1.96	1.97	2.00	1.96	1.98	
Adjusted Peak Converted Wet		-	-	-	-	-	-	
Optimum Moisture Content	%	32.5	31.5	29.0	31.5	36.0	27.5	
Moisture Variation Fro	m	1.5%	2.0%	1.0%	1.5%	1.5%	1.0%	
Optimum Moisture Con	tent	dry	dry	dry	dry	dry	dry	
density and moisture rat	io results relate o	only to the so	il to the dept	h of test and	not to the fu	II depth of the	e layer	
,	%	98.5	97.5	99.0	97.5	98.5	97.5	



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CIVIL GEOTE	CHNICAL SERVICES	Job No Report No	22853 22853/R005
6 - 8 Rose Aven	ue, Croydon 3136	Date Issued	19/01/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	10/01/23
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	<i>Time:</i> 13:30

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		25	26	27	-	-	-
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	1.95	1.94	1.96	-	-	-
Field moisture content	%	25.4	20.4	22.8	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		25	26	27	-	-	-	
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	1.97	1.97	1.99	-	-	-	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	26.0	22.0	24.0	-	-	-	

Moisture Variation From Optimum Moisture Content	dr	0% 1.5% ry 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 and moisture ratio res	sults relate only to	the soil to the de	epth of test an	d not to the fu	ll depth of the	e layer			

#### Material description

No 25 - 27 Clay Fill



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

AVRLOT HILF V1.10 MAR 13

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8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUC			AMPBELLFIE	ELD)	Τε	ate Issued ested by	18/01/23 JB
Project ALAMORA - STAGES 11 Location TARNEIT	- 13 E	3EVV				ate tested necked by	11/01/23 JHF
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	14:00
Test procedure AS 1289.2.1.1 & 5.8.	1						
Test No		28	29	30	31	32	33
Location		REFER TO	REFER TO	REFER TO	REFER TO	REFER TO	REFER TO
		FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1
Approximate depth below FSL							
Measurement depth	тт	175	175	175	175	175	175
Field wet density	t∕m³	2.04	2.04	2.01	2.03	1.91	1.90
Field moisture content	%	23.0	23.6	21.0	24.5	22.1	21.2
Test procedure AS 1289.5.7.1							
Test No		28	29	30	31	32	33
Compactive effort				Stan	dard		
Oversize rock retained on sieve	тт	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	2.03	2.07	2.02	2.06	1.96	1.89
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	25.5	23.5	22.0	26.5	23.0	22.0
Moisture Variation From		2.5%	0.0%	1.0%	2.0%	1.0%	1.0%
Optimum Moisture Content		dry		dry	dry	dry	dry
density and moisture ratio results	relate o	only to the so	il to the dept				
Density Ratio (R <sub>HD</sub> )	%	101.0	98.5	99.5	98.5	97.5	100.5
	70	101.0	30.0	55.5	30.0	51.5	100.5
Material description							
No 28 - 33 Clay Fill							



Approved Signatory : Justin Fry



1:00
20
39
REFER TO IGURE 1
175
1.97
22.3
39
19.0
0
1.99
-
24.0
2.0%
dry
ayer
99.0



Approved Signatory : Justin Fry



VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136					R	ob No eport No ate Issued	22853 22853/R00 05/06/23
Client WINSLOW CONSTRUC Project ALAMORA - STAGES 11 Location TARNEIT		•	AMPBELLFI	ELD)	Da	ested by ate tested hecked by	JB 13/01/23 JHF
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	14:00
Test procedure AS 1289.2.1.1 & 5.8.	1						
Test No		40	41	42	43	44	45
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t∕m³	1.93	1.96	1.96	1.92	1.93	1.96
Field moisture content	%	25.8	22.2	20.8	19.3	21.5	21.7
Test procedure AS 1289.5.7.1							
Test No		40	41	42	43	44	45
Compactive effort					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	2.00	2.02	2.00	1.95	2.01	1.99
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	27.0	23.5	22.0	22.0	22.0	23.0
Moisture Variation From		1.0%	1.5%	1.0%	2.5%	1.5%	1.5%
Optimum Moisture Content		dry	dry	dry	dry	dry	dry
density and moisture ratio results	relate o	only to the so	il to the dept	h of test and	not to the fu	II depth of the	e layer
Density Ratio(R <sub>HD</sub> )	%	96.5	97.0	98.0	98.0	96.0	98.5
Material description							
No 40 - 45 Clay Fill							



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VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136					D	eport No ate Issued	22853/R00 19/01/23	
ClientWINSLOW CONSTRUCProjectALAMORA - STAGES 11LocationTARNEIT		•	AMPBELLFIE	ELD)	D	ested by ate tested hecked by	WS 14/01/23 JHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	09:28	
Test procedure AS 1289.2.1.1 & 5.8.	1							
Test No		46	47	48	49	50	51	
Location		REFER TO FIGURE 1	REFER TO FIGURE 1					
Approximate depth below FSL								
Measurement depth	mm	175	175	175	175	175	175	
Field wet density	t∕m³	1.91	1.86	1.81	1.90	1.86	1.86	
Field moisture content	%	24.4	26.0	28.2	23.2	22.3	21.2	
<b>T</b> ( <b>10</b> (000 <b>5 T</b> (								
Test procedure AS 1289.5.7.1 Test No		46	47	48	49	50	51	
Compactive effort		40	77		idard	- 50	51	
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	1.94	1.89	1.83	1.93	1.88	1.89	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	25.5	28.5	31.0	26.0	23.5	23.5	
Moisture Variation From		1.0%	2.5%	2.5%	2.5%	1.0%	2.5%	
Optimum Moisture Content		dry	dry	dry	dry	dry	dry	
density and moisture ratio results	relate o					• •		
Density Ratio (R <sub>HD</sub> )	%	99.0	98.5	99.0	98.0	99.0	98.5	
	,.							
Material description								
No 46 - 51 Clay Fill								



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

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/IL GEOTECHNICAL SERVICES8 Rose Avenue, Croydon 3136ClientWINSLOW CONSTRUCProjectALAMORA - STAGES 1LocationTARNEIT	AMPBELLFI	ELD)	Da Te Da	eport No ate Issued ested by ate tested hecked by	28/02/23 JB 16/01/23 JHF		
Feature EARTHWORKS	eature EARTHWORKS			200	mm	Time:	14:00
Test procedure AS 1289.2.1.1 & 5.8 <b>Test No</b>	8.1	52	53	54	55	56	57
Location				•			•.
		REFER	REFER	REFER	REFER	REFER	REFER
		то	то	то	то	то	то
		FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1
Approximate depth balaw ESI							
Approximate depth below FSL Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m <sup>3</sup>	1.83	1.83	1.73	1.81	1.82	1.83
Field moisture content	%	27.3	28.4	21.6	23.7	25.9	28.9
				•			
Test procedure AS 1289.5.7.1							
Test No		52	53	54	55	56	57
Compactive effort				Star	dard		
Oversize rock retained on sieve	тт	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	1.87	1.88	1.77	1.83	1.85	1.87
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content	%	28.5	28.5	23.5	24.0	26.5	29.0
Moisture Variation From		1.0%	0.5%	2.0%	0.5%	0.5%	0.0%
Optimum Moisture Content		dry	dry	dry	dry	dry	
density and moisture ratio results	relate o	only to the so	il to the dept	h of test and	not to the fu	II depth of the	e layer
Density Ratio (R <sub>HD</sub> )	%	98.0	97.0	98.5	99.0	98.5	98.0
Material description							
No 52 - 57 Clay Fill							



Approved Signatory : Justin Fry



		Job No	22853
CIVIL GEOTE	CHNICAL SERVICES	Report No	22853/R011
3 - 8 Rose Aven	ue, Croydon 3136	Date Issued	01/02/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	17/01/23
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	<i>Time:</i> 12:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		58	59	60	-	-	-
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	1.97	1.94	1.94	-	-	-
Field moisture content	%	21.4	20.2	19.7	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		58	59	60	-	-	-		
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	2.01	1.96	1.97	-	-	-		
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-		
Optimum Moisture Content	%	23.5	22.0	20.5	-	-	-		

Moisture Variation From Optimum Moisture Content		2.0% dry	1.5% dry	1.0% dry	-	-	-
density and moisture ratio res	sults relate onl	y to the so	il to the dept	h of test and	not to the ful	l depth of the	e layer

#### Material description

No 58 - 60 Clay Fill



AVRLOT HILF V1.10 MAR 13

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VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136					Da	eport No ate Issued	22853/R01 25/01/23
Client WINSLOW CONSTRUC		•	AMPBELLFI	ELD)		ested by	JB
Project ALAMORA - STAGES 11	1 - 13 E	BEW				ate tested	18/01/23
Location TARNEIT					Ci	hecked by	JHF
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	11:00
Test procedure AS 1289.2.1.1 & 5.8. <b>Test No</b>	.1	61	62	63	64	65	66
Location			V2	00	<b>V</b> 4	00	00
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1
		I IGUILE I	I IGUIL I	I IGUIL I	TIGUIL	I IGUILE I	
Approximate depth below FSL							
Measurement depth	тт	175	175	175	175	175	175
Field wet density	t∕m³	1.91	1.89	1.92	1.97	1.97	1.93
Field moisture content	%	22.3	23.7	27.0	21.8	24.0	23.7
Toot procedure AS 1290 5 7 1							
Test procedure AS 1289.5.7.1 Test No		61	62	63	64	65	66
Compactive effort		01	02	Stan		00	00
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	1.96	1.96	1.96	2.00	1.99	1.98
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	21.5	25.5	29.5	22.5	26.5	25.5
Moisture Variation From		0.5%	1.5%	2.0%	0.5%	2.5%	1.5%
Optimum Moisture Content		wet	dry	dry	dry	dry	dry
density and moisture ratio results	relate o						
Density Ratio (R <sub>HD</sub> )	%	97.5	96.5	98.0	98.5	99.0	97.5
	70	0110	0010	0010	0010	0010	0110
Material description							
No 61 - 66 Clay Fill							



Approved Signatory : Justin Fry



8 Rose Avenue, Croydon 3136ClientWINSLOW CONSTRUCProjectALAMORA - STAGES 11LocationTARNEIT		•	AMPBELLFI	Da Te Da	eport No ate Issued ested by ate tested hecked by	30/01/23 JB 19/01/23 JHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	13:30
Test procedure AS 1289.2.1.1 & 5.8. <b>Test No</b>	1	67	68	69	70	71	72
Location		07	00	09	70	/ 1	12
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL							
Measurement depth	тт	175	175	175	175	175	175
Field wet density	t∕m³	1.97	1.98	1.97	1.95	1.97	1.99
Field moisture content	%	25.0	25.0	22.1	22.6	21.6	22.5
Toot procedure AS 1290 5 7 1							
Test procedure AS 1289.5.7.1 Test No		67	68	69	70	71	72
Compactive effort		07	00		dard	11	12
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	2.02	1.99	1.97	1.98	2.00
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	27.0	27.5	24.5	24.0	21.5	23.5
Moisture Variation From		2.0%	2.5%	2.5%	1.5%	0.0%	1.0%
Optimum Moisture Content		dry	dry	dry	dry		dry
density and moisture ratio results	relate c					Il depth of the	•
Density Ratio (R <sub>HD</sub> )	%	100.0	98.0	99.0	99.0	99.5	99.5
Material description No 67 - 72 Clay Fill							



Approved Signatory : Justin Fry



WINSLOW CONSTRUC ALAMORA - STAGES 11		•	AMPBELLFIE	ELD)	Te De	ested by ate tested	01/02/23 JB 20/01/23 JHF
EARTHWORKS		Lay	er thickness	200	mm	Time:	13:00
ə AS 1289.2.1.1 & 5.8.	1	70	74	75	70		70
		73	/4	/5	76	((	78
		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
pth below FSL							
	mm	175	175	175	175	175	175
y	t∕m³	1.95	1.91	1.94	1.99	1.98	1.95
ontent	%	20.6	17.7	19.8	22.3	17.6	20.8
AS 1280 5 7 1							
- AO 1209.0.1.1		73	74	75	76	77	78
ort		70	7.4			.,	10
	mm	19.0	19.0			19.0	19.0
							0
							1.97
•	t/m³	-	-	-	-	-	-
ire Content	%	23.0	20.0	22.0	24.5	20.0	23.0
e Variation From		2.5%	2.5%	2.0%	2.0%	2.5%	2.0%
Moisture Content		dry	dry				dry
	relate o				•		
( R <sub>HD</sub> )	%	99.5	98.5	98.5	98.5	98.0	99.0
	ALAMORA - STAGES 11 TARNEIT EARTHWORKS e AS 1289.2.1.1 & 5.8. pth below FSL epth y content e AS 1289.5.7.1 ort etained on sieve size material d Wet Density Converted Wet Density ure Content e Variation From h Moisture Content	ALAMORA - STAGES 11 - 13 B TARNEIT EARTHWORKS EARTHWORK	WINSLOW CONSTRUCTORS PTY LTD (C/ALAMORA - STAGES 11 - 13 BEW         FARNEIT         EARTHWORKS         Lay         Partial State         Earth         To         Pholow FSL         Eapth         Pholow FSL         Eapth <t< td=""><td>WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIE ALAMORA - STAGES 11 - 13 BEW TARNEITEARTHWORKSLayer thicknessEARTHWORKSLayer thicknessEARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSPARTHWORKSLayer thicknessPARTHWORKSPARTHWORKSLayer thicknessPARTHWORKSPARTHW</td><td>WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)ALAMORA - STAGES 11 - 13 BEWFARNEITEARTHWORKSLayer thickness200EARTHWORKSLayer thickness200FIGURE 1REFER TO FIGURE 1FIGURE 1Path below FSLETO FIGURE 1T75T75T75T75T75T75T75T75T73T4T5T0T75<th< td=""><td>NINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)         Te           ALAMORA - STAGES 11 - 13 BEW         Data           FARNEIT         C/           EARTHWORKS         Layer thickness         200 mm           Phibelow FSL         FIGURE 1         FIGURE 1         FIGURE 1           Phibelow FSL         mm         1.95         1.91         1.94           Phibelow FSL         T         T</td></th<></td></t<> <td>NINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)         Tested by Date tested Checked by           ALAMORA - STAGES 11 - 13 BEW         Date tested Checked by           EARTHWORKS         Layer thickness         200 mm         Time:           Path below FSL         REFER         REFER         REFER         REFER         REFER         REFER         To           opth         mm         175</td>	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIE ALAMORA - STAGES 11 - 13 BEW TARNEITEARTHWORKSLayer thicknessEARTHWORKSLayer thicknessEARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSPARTHWORKSLayer thicknessPARTHWORKSLayer thicknessPARTHWORKSPARTHWORKSLayer thicknessPARTHWORKSPARTHWORKSLayer thicknessPARTHWORKSPARTHW	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)ALAMORA - STAGES 11 - 13 BEWFARNEITEARTHWORKSLayer thickness200EARTHWORKSLayer thickness200FIGURE 1REFER TO FIGURE 1FIGURE 1Path below FSLETO FIGURE 1T75T75T75T75T75T75T75T75T73T4T5T0T75 <th< td=""><td>NINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)         Te           ALAMORA - STAGES 11 - 13 BEW         Data           FARNEIT         C/           EARTHWORKS         Layer thickness         200 mm           Phibelow FSL         FIGURE 1         FIGURE 1         FIGURE 1           Phibelow FSL         mm         1.95         1.91         1.94           Phibelow FSL         T         T</td></th<>	NINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)         Te           ALAMORA - STAGES 11 - 13 BEW         Data           FARNEIT         C/           EARTHWORKS         Layer thickness         200 mm           Phibelow FSL         FIGURE 1         FIGURE 1         FIGURE 1           Phibelow FSL         mm         1.95         1.91         1.94           Phibelow FSL         T         T	NINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)         Tested by Date tested Checked by           ALAMORA - STAGES 11 - 13 BEW         Date tested Checked by           EARTHWORKS         Layer thickness         200 mm         Time:           Path below FSL         REFER         REFER         REFER         REFER         REFER         REFER         To           opth         mm         175



Approved Signatory : Justin Fry



VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCT	ORS	PTY LTD (C/	AMPBELLFIE	ELD)	Re Da	b No eport No ate Issued ested by	22853 22853/R01 01/02/23 JB	
Project ALAMORA - STAGES 11 Location TARNEIT	- 13 E	BEW				ate tested hecked by	23/01/23 JHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	14:00	
Test procedure AS 1289.2.1.1 & 5.8.	1	70	80	04	00	02	04	
Test No		79	80	81	82	83	84	
Location		REFER TO FIGURE 1	REFER TO FIGURE 1					
Approximate depth below FSL								
Measurement depth	mm	175	175	175	175	175	175	
Field wet density	t∕m³	1.86	1.87	1.91	1.90	1.91	1.90	
Field moisture content	%	17.6	17.5	22.0	22.1	20.6	21.4	
Test procedure AS 1289.5.7.1								
Test No		79	80	81	82	83	84	
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	1.90	1.89	1.94	1.95	1.92	1.93	
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-	
Optimum Moisture Content	%	20.0	20.0	24.0	23.0	22.5	23.5	
Moisture Variation From		2.5%	2.5%	2.0%	1.0%	2.0%	2.0%	
Optimum Moisture Content		dry	dry	dry	dry	dry	dry	
density and moisture ratio results r		-	-				-	
Density Ratio(R <sub>HD</sub> )	%	98.0	99.0	99.0	97.5	99.5	98.5	
Material description								
No 79 - 84 Clay Fill								



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8 Rose Aven Client Project Location	ue, Croydon 3136 WINSLOW CONSTRU ALAMORA - STAGES TARNEIT		•	AMPBELLFI	T D	ate Issued ested by ate tested hecked by	30/01/23 JB 24/01/23 JHF		
Feature	EARTHWORKS		Lay	er thickness	200	mm	<i>Time:</i> 08:00		
-	dure AS 1289.2.1.1 & 5	5.8.1			07				
Test No			85	86	87	88	89	90	
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	
Approximate	e depth below FSL								
Measureme	nt depth	mm	175	175	175	175	175	175	
Field wet de Field moistu		<u>t/m³</u> %	1.92 23.5	2.03 24.4	1.95 24.3	1.94 22.3	1.92 20.4	1.93 22.9	
Test proce Test No	dure AS 1289.5.7.1		85	00	87	00			
Compactive	offort		60	86		88 Idard	89	90	
	ck retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0	
	oversize material	wet	0	0	0	0	0	0	
	erted Wet Density	t/m <sup>3</sup>	1.94	2.07	1.98	1.98	1.95	1.95	
	eak Converted Wet Densit		-	-	-	-	-	-	
Optimum M	oisture Content	%	25.5	25.5	25.0	24.5	22.5	25.5	
Moi	sture Variation From		2.0%	1.0%	0.5%	2.5%	2.0%	2.5%	
	num Moisture Content		dry	dry	dry	dry	dry	dry	
	ty and moisture ratio resul	lts relate o							
Density Ra	-	%	99.0	98.5	98.5	97.5	99.0	99.5	
Material des		70	33.0	56.5	56.5	97.3	99.0	33.3	



AVRLOT HILF V1.10 MAR 13

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	oject ALAMORA - STAGES 11 - 13 BEW					ate Issued ested by ate tested necked by	JB 25/01/23 JHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	11:00	
Test procedure AS 1289.2.1.1 & 5.8.	1							
Test No		91	92	93	94	95	96	
Location		REFER TO FIGURE 1	REFER TO FIGURE 1					
Approximate depth below FSL								
Measurement depth	mm	175	175	175	175	175	175	
Field wet density	t∕m³	2.00	1.95	1.94	2.00	1.98	2.00	
Field moisture content	%	21.2	21.3	17.6	21.6	19.5	20.9	
Test procedure AS 1289.5.7.1								
Test No		91	92	93	94	95	96	
Compactive effort				Stan	dard			
Oversize rock retained on sieve	тт	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	2.06	1.99	1.97	2.01	2.01	2.03	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	23.5	24.0	20.0	24.0	21.5	23.5	
Moisture Variation From Optimum Moisture Content		2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.0% dry	2.5% dry	
density and moisture ratio results	elate d							
Density Ratio (R <sub>HD</sub> )	%	97.0	98.5	98.5	99.5	98.5	98.0	
	/0	31.0	30.3	50.5	33.3	30.3	30.0	
<i>Material description</i> No 91 - 96 Clay Fill								



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HWORKS							
		Lay	er thickness	200	mm	Time:	12:00
1289.2.1.1 & 5.8.	1	07	00	00	100	404	
		97	98	99	100	101	102
		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
elow FSL							
	mm	175	175	175	175	175	175
	t∕m³	1.95	1.94	1.95	1.99	1.98	1.95
ot	%	21.1	21.6	19.3	23.4	24.1	20.2
1000 5 7 1							
1209.3.7.1		07	09	00	100	101	102
		91	90			101	102
d on sieve	mm	19.0	19.0			19.0	19.0
							0
							1.98
erted Wet Density	t∕m³	-	-	-	-	-	-
ontent	%	23.5	24.0	21.0	23.5	24.0	21.0
ation From	I	2.5%	2.5%	1.5%	0.0%	0.0%	1.0%
		dry					dry
	elate c				not to the ful	I depth of the	
)	%	98.0	99.5	98.0	99.0	98.5	98.5
	elow FSL t 1289.5.7.1 d on sieve naterial Density erted Wet Density potent fation From ture Content	mm t/m³ t % 1289.5.7.1 d on sieve mm haterial wet Density t/m³ perted Wet Density t/m³ pontent % fation From ture Content isture ratio results relate of	97REFER TO FIGURE 1Plow FSLmm175 t/m³1.95 t1289.5.7.197 d on sieve material Density wet on tent97 ontent97 d on sieve mm97 d on sieve mm97 d on sieve mm97 d on sieve mm97 d on sieve mm97 d on sieve mm93 d on sieve mm94 meter on the signal ontent95 meter on tent97 ontent98 ontent99 ontent99 ontent90 ontent90 ontent91 ontent92 ontent93 ontent94 ontent95 <b< td=""><td>97         98           REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1           elow FSL         -           mm         175         175           t/m³         1.95         1.94           t         %         21.1         21.6           1289.5.7.1         97         98           d on sieve         mm         19.0         19.0           naterial         wet         0         0           Density         t/m³         1.99         1.95           ented Wet Density         t/m³         -         -           ontent         %         23.5         24.0           ation From ture Content         2.5% dry         2.5% dry         2.5% dry           isture ratio results relate only to the soil to the dept         -</td><td>97         98         99           REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1           elow FSL         <math>mm</math>         175         175           <math>t/m^3</math>         1.95         1.94         1.95           <math>t/m^3</math>         1.95         1.94         1.95           <math>tt</math>         %         21.1         21.6         19.3           1289.5.7.1         97         98         99         Stan           <math>d</math> on sieve         <math>mm</math>         19.0         19.0         19.0           <math>paterial</math>         wet         0         0         0           <math>paterial</math> <math>wet</math>         0         0         0           <math>paterial</math></td><td>97         98         99         100           REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         TO FIGURE 1         TO FIGURE 1         FIGURE 1         FIGURE 1           elow FSL            175         175         175         175           <math>t/m^3</math>         1.95         1.94         1.95         1.99         1.99         1.99         1.91         19.0           <math>t 289.5.7.1</math>         97         98         99         100         Standard         0</br></br></br></br></br></br></br></br></br></br></br></br></td><td>97         98         99         100         101           REFER TO FIGURE 1         TO FIGURE 1         TO FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1           alow FSL            175         175         175         175         175           <math>mm</math>         1.95         1.94         1.95         1.99         1.98         1.98         1.1         21.6         19.3         23.4         24.1           1289.5.7.1         97         98         99         100         101         100         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0</td></b<>	97         98           REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1           elow FSL         -           mm         175         175           t/m³         1.95         1.94           t         %         21.1         21.6           1289.5.7.1         97         98           d on sieve         mm         19.0         19.0           naterial         wet         0         0           Density         t/m³         1.99         1.95           ented Wet Density         t/m³         -         -           ontent         %         23.5         24.0           ation From ture Content         2.5% dry         2.5% dry         2.5% dry           isture ratio results relate only to the soil to the dept         -	97         98         99           REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1           elow FSL $mm$ 175         175 $t/m^3$ 1.95         1.94         1.95 $t/m^3$ 1.95         1.94         1.95 $tt$ %         21.1         21.6         19.3           1289.5.7.1         97         98         99         Stan $d$ on sieve $mm$ 19.0         19.0         19.0 $paterial$ wet         0         0         0 $paterial$ $wet$ 0         0         0 $paterial$	97         98         99         100           REFER TO FIGURE 1         REFER TO FIGURE 1         REFER TO FIGURE 1         REFER 	97         98         99         100         101           REFER TO FIGURE 1         TO FIGURE 1         TO FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1           alow FSL            175         175         175         175         175 $mm$ 1.95         1.94         1.95         1.99         1.98         1.98         1.1         21.6         19.3         23.4         24.1           1289.5.7.1         97         98         99         100         101         100         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0



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VIL GEOTECHNICAL 8 Rose Avenue, Croydd	on 3136						eport No ate Issued	22853/R01 23/02/23
Client WINS	LOW CONSTRUC	TORS	PTY LTD (C	AMPBELLFI	ELD)	Te	ested by	JB
,	ORA - STAGES 1	1 - 13 E	BEW				ate tested	31/01/23
Location TARN	EIT					C	hecked by	JHF
<i>Feature</i> EART	HWORKS		Lay	er thickness	200	mm	Time:	12:00
Test procedure AS	1289.2.1.1 & 5.8	.1	400	404	405	400	407	400
Test No			103	104	105	106	107	108
Location			REFER	REFER	REFER	REFER	REFER	REFER
			TO	TO	TO	TO	ТО	TO
			FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1
Approximate depth be	elow FSL							
Measurement depth		mm	175	175	175	175	175	175
Field wet density		t∕m³	1.83	1.85	1.86	1.83	1.85	1.82
Field moisture conten	t	%	23.9	23.5	25.6	23.7	23.3	20.3
Test procedure AS	1289.5.7.1							
Test No			103	104	105	106	107	108
Compactive effort						dard		
Oversize rock retaine	d on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize m		wet	0	0	0	0	0	0
Peak Converted Wet	Density	t∕m³	1.84	1.88	1.88	1.84	1.87	1.87
Adjusted Peak Conve	rted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Co	ontent	%	26.5	25.0	28.0	26.0	24.0	21.0
Moisture Vari	ation From		2.5%	1.5%	2.5%	2.5%	0.5%	0.5%
Optimum Mois			dry	dry	dry	dry	dry	dry
•	isture ratio results	relate o						
Density Ratio (R <sub>HD</sub>		%	99.5	98.5	99.0	100.0	99.0	<b>97.5</b>
	)	70	99.5	90.5	33.0	100.0	33.0	37.5
Material description								
No 103 - 108 Cla	v Fill							
	,							



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

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8 Rose Avenue, Croydon 3136         Client       WINSLOW CONS         Project       ALAMORA - STA         Location       TARNEIT		•	AMPBELLFIE	ELD)	Te Da	ate Issued ested by ate tested necked by	22/02/23 JB 01/02/23 JHF
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	12:00
Test procedure AS 1289.2.1.1	& 5.8.1	100	440	444	440	440	
Test No		109	110	111	112	113	114
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t∕m³	1.96	2.00	1.99	1.97	2.04	2.05
Field moisture content	%	20.9	20.0	20.3	20.3	20.4	19.6
Toot procedure AS 1990 E 7 1							
Test procedure AS 1289.5.7.1 Test No		109	110	111	112	113	114
Compactive effort		109	110		Indard	115	114
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/m <sup>3</sup>	1.97	2.02	2.00	1.99	2.04	2.06
Adjusted Peak Converted Wet D		-	-	-	-	-	-
Optimum Moisture Content	%	23.0	22.0	22.5	22.5	20.5	20.5
Moisture Variation From		2.0%	2.0%	2.5%	2.0%	0.0%	1.0%
Optimum Moisture Conter	nt	dry	dry	dry	dry		dry
density and moisture ratio						ll depth of the	
Density Ratio (R <sub>HD</sub> )	%	100.0	99.0	99.5	99.0	100.0	99.5
Density Ratio (R <sub>HD</sub> ) Material description No 109 - 114 Clay Fill	%	100.0	99.0	99.5	99.0	100.0	99.5



Approved Signatory : Justin Fry



8 Rose Avenue, Croydon 3136         Client       WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)         Project       ALAMORA - STAGES 11 - 13 BEW         Location       TARNEIT						Date Issued13/02/2Tested byJBDate tested02/02/2Checked byJHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	12:00
Test procedure AS 1289.2.1.1 & 5.8	.1						
Test No		115	116	117	118	119	120
Location		REFER TO FIGURE 1	REFER 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	1.94	1.96	1.94	1.94
Field moisture content	%	20.8	18.1	20.4	17.4	17.4	20.9
Test procedure AS 1289.5.7.1							
Test No		115	116	117	118	119	120
Compactive effort					Idard		
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	1.98	1.97	1.97	2.01	1.97	1.98
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	23.0	20.5	22.5	20.0	19.5	21.5
Moisture Variation From		2.5%	2.0%	2.0%	2.5%	2.0%	0.5%
Optimum Moisture Content		dry	dry	dry	dry	dry	dry
density and moisture ratio results	relate d						
-		-	-			-	
Density Ratio (R <sub>HD</sub> )	%	99.0	98.5	98.5	97.5	98.5	98.0
<i>Material description</i> No 115 - 120 Clay Fill							



Approved Signatory : Justin Fry



Project ALAMOF	nue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) ALAMORA - STAGES 11 - 13 BEW TARNEIT					Date Issued20/0Tested byJBDate tested06/0Checked byJHF	
Feature EARTHV	VORKS	Lay	er thickness	200	mm	Time:	12:00
Test procedure AS 12	89.2.1.1 & 5.8.1						
Test No		121	122	123	124	125	126
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth belo	w FSL						
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.89	1.91	1.90	1.81	1.87	1.90
Field moisture content	%	16.3	17.7	16.5	20.4	24.5	16.0
Test procedure AS 12 Test No	289.5.7.1	121	122	123	124	125	126
Compactive effort		121	122		dard	125	120
Oversize rock retained of	on sieve mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize mat		0	0	0	0	0	0
Peak Converted Wet De		1.94	1.91	1.96	1.88	1.94	1.95
Adjusted Peak Converte		-	-	-	-	-	-
Optimum Moisture Cont		18.5	20.0	17.5	21.5	24.5	17.0
Moisture Variati	on From	2.5%	2.0%	1.0%	1.0%	0.0%	1.0%
Optimum Moistur		dry	dry	dry	dry	0.070	dry
optimum molotur		4 4				ll denth of the	
density and moist		98.0	100.0	97.0	96.5	96.0	<b>97.5</b>
density and moist Density Ratio(R <sub>HD</sub> )	%			<i>31</i> .U	30.J	30.0	J 37.J



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



Test No

### **COMPACTION ASSESSMENT**

	CHNICAL SERVICES nue, Croydon 3136			Job No Report No Date Issued	22853 22853/R02 14/02/23
Client Project Location	WINSLOW CONSTRUCTOR ALAMORA - STAGES 11 - 13 TARNEIT	S PTY LTD (CAMPBELLFIELD) BEW	)	Tested by Date tested Checked by	JB 07/02/23 JHF
Feature	EARTHWORKS	Layer thickness	200 mm	Time	: 14:00

128

129

-

-

-

127

		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	тт	175	175	175	-	-	-
Field wet density	t∕m³	1.98	1.93	1.92	-	-	-
	%	18.3	17.8	19.3	-	-	-
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Test procedure AS 1289.5.7.1 Test No		127	128	129 Stan	- dard	-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort	mm			Stan	- dard -	-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve		127 19.0 0	128 19.0 0		dard		<u> </u>
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	mm	19.0	19.0	Stan 19.0	dard	-	<u> </u>
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	19.0 0	19.0 0	Stan 19.0 0	dard - -	-	-
	mm wet t/m <sup>3</sup>	19.0 0	19.0 0	Stan 19.0 0	dard - -	-	
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/m <sup>3</sup>	19.0 0 2.04 -	19.0 0 1.97 -	Stan 19.0 0 1.99 -	dard - -	- - - -	- - - -
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/m <sup>3</sup>	19.0 0 2.04 -	19.0 0 1.97 -	Stan 19.0 0 1.99 -	dard - -	- - - -	- - - -

density and moisture ratio resu	lits relate o	niy to the so	in to the dept	n of test and	not to the lu	apth of the	e layer
Density Ratio(R <sub>HD</sub> )	%	97.0	97.5	97.0	-	-	-

Material description

No 127 - 129 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



LAMORA - STAGES 11 ARNEIT		PTY LTD (C/ EW	AMPBELLFIE	ELD)	Da Te Da	eport No ate Issued ested by ate tested necked by	22853/R02 20/02/23 JB 08/02/23 JHF
ARTHWORKS		Lay	er thickness	200	mm	Time:	08:00
AS 1289.2.1.1 & 5.8.	1	120	121	122	422	124	125
		130	131	132	133	134	135
		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
oth below FSL							
epth	тт	175	175	175	175	175	175
/	t∕m³	1.98	1.93	1.99	1.98	1.96	1.90
ontent	%	18.6	15.4	16.6	16.9	14.0	16.4
A C 4000 E Z 4							
AS 1289.5.7.1		120	101	100	100	124	135
rt		130	131			134	155
	mm	19.0	19.0			19.0	19.0
							0
							1.94
	t/m³	-	-	-	-	-	-
	%	19.0	17.0	19.5	19.5	16.0	19.0
Variation From		0.5%	2.0%	2.5%	2.5%	2.0%	2.5%
							dry
	relate c	ž – – –					
(R <sub>HD</sub> )	%	99.0	98.0	101.5	99.0	99.5	98.5
	ARTHWORKS AS 1289.2.1.1 & 5.8. AS 1289.2.1.1 & 5.8. Oth below FSL epth / ontent AS 1289.5.7.1 rt tained on sieve ize material Wet Density Converted Wet Density re Content Wet Density Converted Wet Density re Content d moisture ratio results	AS 1289.2.1.1 & 5.8.1 AS 1289.2.1.1 & 5.8.1 oth below FSL opth below FSL opth mm / t/m³ ontent % AS 1289.5.7.1 rt tained on sieve mm ize material wet Wet Density t/m³ converted Wet Density t/m³ re Content %	ARTHWORKS Laye A S 1289.2.1.1 & 5.8.1 A S 1289.2.1.1 & 5.8.1 REFER TO FIGURE 1 Define below FSL appth mm 175 with below FSL appth mm 175 with main 175 with main 175 main 198 Define the solution of the solution o	ARTHWORKS       Layer thickness $a AS 1289.2.1.1 \& 5.8.1$ 130       131 $a AS 1289.2.1.1 \& 5.8.1$ REFER TO FIGURE 1       REFER TO FIGURE 1       REFER TO FIGURE 1 $a AS 1289.2.1.1 \& 5.8.1$ REFER TO FIGURE 1       REFER TO FIGURE 1       REFER TO FIGURE 1 $a AS 1289.5.7.1$ $a AS 1289.5.7.1$ $a AS 1289.5.7.1$ $a AS 1289.5.7.1$ $130$ $131$ $a AS 1289.5.7.1$ $a A A 19.0$ $a A A 128.5.5.7.1$ $a A A 19.0$ $a A A 19.0$ <td>CARTHWORKS       Layer thickness       200         AS 1289.2.1.1 &amp; 5.8.1       130       131       132         REFER       REFER       REFER       REFER       TO         FIGURE 1       FIGURE 1       FIGURE 1       FIGURE 1       FIGURE 1         pth below FSL       pth       mm       175       175       175         opth       mm       175       175       175       175         opth       mm       19.0       19.0       19.0         optented       <math>0</math> <math>0</math> <math>0</math> <math>0</math>         e AS 1289.5.7.1       130       131       132         tt       Stantained on sieve       mm       19.0       19.0       19.0         ize material       wet       <math>0</math> <math>0</math> <math>0</math> <math>0</math> <math>0</math>         Converted Wet Density       <math>t/m^3</math> <math>     -</math><td>ARTHWORKS         Layer thickness         200 mm           AS 1289.2.1.1 &amp; 5.8.1         130         131         132         133           REFER         REFER         REFER         REFER         TO         FIGURE 1           FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1           pth below FSL         -         -         -         -         -         -           pth         mm         175         175         175         175         175           oth below FSL         -<!--</td--><td>CARTHWORKS         Layer thickness         200 mm         Time:           2:AS 1289.2.1.1 &amp; 5.8.1         130         131         132         133         134           REFER TO FIGURE 1         REFE</td></td></td>	CARTHWORKS       Layer thickness       200         AS 1289.2.1.1 & 5.8.1       130       131       132         REFER       REFER       REFER       REFER       TO         FIGURE 1       FIGURE 1       FIGURE 1       FIGURE 1       FIGURE 1         pth below FSL       pth       mm       175       175       175         opth       mm       175       175       175       175         opth       mm       19.0       19.0       19.0         optented $0$ $0$ $0$ $0$ e AS 1289.5.7.1       130       131       132         tt       Stantained on sieve       mm       19.0       19.0       19.0         ize material       wet $0$ $0$ $0$ $0$ $0$ Converted Wet Density $t/m^3$ $     -$ <td>ARTHWORKS         Layer thickness         200 mm           AS 1289.2.1.1 &amp; 5.8.1         130         131         132         133           REFER         REFER         REFER         REFER         TO         FIGURE 1           FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1           pth below FSL         -         -         -         -         -         -           pth         mm         175         175         175         175         175           oth below FSL         -<!--</td--><td>CARTHWORKS         Layer thickness         200 mm         Time:           2:AS 1289.2.1.1 &amp; 5.8.1         130         131         132         133         134           REFER TO FIGURE 1         REFE</td></td>	ARTHWORKS         Layer thickness         200 mm           AS 1289.2.1.1 & 5.8.1         130         131         132         133           REFER         REFER         REFER         REFER         TO         FIGURE 1           FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1         FIGURE 1           pth below FSL         -         -         -         -         -         -           pth         mm         175         175         175         175         175           oth below FSL         - </td <td>CARTHWORKS         Layer thickness         200 mm         Time:           2:AS 1289.2.1.1 &amp; 5.8.1         130         131         132         133         134           REFER TO FIGURE 1         REFE</td>	CARTHWORKS         Layer thickness         200 mm         Time:           2:AS 1289.2.1.1 & 5.8.1         130         131         132         133         134           REFER TO FIGURE 1         REFE



Approved Signatory : Justin Fry



CIVIL GEOTE	CHNICAL SERVICES	Job No Report No	22853 22853/R025
5 - 8 Rose Aven	ue, Croydon 3136	Date Issued	28/02/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	13/02/23
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	<i>Time:</i> 13:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		136	137	138	-	-	-
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	1.99	1.94	1.94	-	-	-
Field moisture content	%	21.0	20.9	18.1	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		136	137	138	-	-	-
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	2.03	1.97	1.94	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	21.0	21.0	20.5	-	-	-

Moisture Variation From Optimum Moisture Content		0.0%	0.5% drv	2.5% dry			
density and moisture ratio res Density Ratio (R <sub>HD</sub> )	sults relate only %	y to the so <b>98.0</b>	il to the depti 98.5	n of test and <b>100.5</b>	not to the ful	l depth of the	e layer

#### Material description

No 136 - 138 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136					R	ob No eport No ate Issued	22853 22853/R02 28/02/23
Client WINSLOW CONSTRUCT Project ALAMORA - STAGES 11 Location TARNEIT			AMPBELLFI	ELD)	D	ested by ate tested hecked by	JB 14/02/23 JHF
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	07:30
Test procedure AS 1289.2.1.1 & 5.8.	1	100					
Test No		139	140	141	142	143	144
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t∕m³	1.82	1.80	1.87	1.85	1.84	1.92
Field moisture content	%	18.5	22.2	19.4	21.2	18.1	17.7
Toot propoduro AS 1280 5 7 1							
Test procedure AS 1289.5.7.1 Test No		139	140	141	142	143	144
Compactive effort					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	1.91	1.85	1.87	1.88	1.88	1.97
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	21.0	22.5	20.0	22.5	20.0	19.0
Moisture Variation From		2.5%	0.0%	0.5%	1.5%	2.0%	1.0%
Optimum Moisture Content		dry		dry	dry	dry	dry
density and moisture ratio results r	elate d	only to the so	il to the dept	h of test and	not to the fu	II depth of the	e layer
Density Ratio(R <sub>HD</sub> )	%	95.5	97.5	100.0	98.5	98.0	97.5
Material description No 139 - 144 Clay Fill							



Approved Signatory : Justin Fry



	INICAL SERVICES Croydon 3136 WINSLOW CONSTRUC ALAMORA - STAGES 1 <sup>2</sup>			AMPBELLFIE	ELD)	Da Te	eport No ate Issued ested by ate tested	22853/R02 22/02/23 JB 14/02/23
Project Location	TARNEIT	1 - 13 D					hecked by	JHF
Feature	EARTHWORKS		Lay	er thickness	200	mm	Time:	08:30
	re AS 1289.2.1.1 & 5.8.	1	4.45	4.40	4 4 7	4.40	440	450
Test No			145	146	147	148	149	150
Location			REFER TO	REFER TO	REFER TO	REFER TO	REFER TO	REFER TO
			FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1
Approximate d	epth below FSL							
Measurement		mm	175	175	175	175	175	175
Field wet dens	ity	t∕m³	1.90	1.91	1.85	1.85	1.84	1.87
Field moisture	content	%	21.9	20.7	21.3	21.1	23.0	23.7
Test procedu	re AS 1289.5.7.1							
Test No			145	146	147	148	149	150
Compactive eff						dard		
	retained on sieve	тт	19.0	19.0	19.0	19.0	19.0	19.0
Percent of ove		wet	0	0	0	0	0	0
Peak Converte	Converted Wet Density	t/m³ t/m³	1.93	1.93	1.86	1.87	1.89	1.90
Optimum Mois		<i>w</i>	- 22.0	23.0	- 23.5	22.0	25.5	24.0
				1	L			
	re Variation From		0.0%	2.5%	2.5%	1.0%	2.5%	0.5%
Moistu	m Moisture Content			dry	dry	dry	dry	dry
		rolato c	only to the so	il to the dept	h of test and	not to the fu	II depth of the	e layer
Optimur	and moisture ratio results					99.0	97.5	98.5



Approved Signatory : Justin Fry



/IL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136						Job No Report No Date Issued	22853 22853/R02 02/03/23
Client WINSLOW CONSTRUC <sup>-</sup> Project ALAMORA - STAGES 11 Location TARNEIT		•	AMPBELLFI	ELD)	I	Tested by Date tested Checked by	JB 15/02/23 JHF
Feature EARTHWORKS		Lay	er thickness	200	mm	Time	: 13:00
Test procedure AS 1289.2.1.1 & 5.8.	1						
Test No		151	152	153	154	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE		
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	-	-
Field wet density	t/m³	1.86	1.90	1.85	1.84	_	-
Field moisture content	%	20.7	22.2	24.7	21.3	-	-
					-		
Test procedure AS 1289.5.7.1 Test No		151	152	153	154	-	_
Compactive effort		131	152		ndard		
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 <sup>3</sup>	1.89	1.93	1.87	1.88	_	-
Adjusted Peak Converted Wet Density	t/m³	-	-	_	-	-	-
Optimum Moisture Content	%	23.0	24.5	26.5	23.0	-	-
						•	
Moisture Variation From		2.5%	2.0%	1.5%	2.0%	-	-
Optimum Moisture Content		dry	dry	dry	dry		
density and moisture ratio results r	elate o	only to the so	il to the dept	h of test and		full depth of th	e layer
Density Ratio (R <sub>HD</sub> )	%	98.5	99.0	98.5	98.0	-	-
<i>Material description</i> No 151 - 154 Clay Fill							



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



3 Rose Aven	ue, Croydon 3136	Report No Date Issued	06/03/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	16/02/23
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	<i>Time:</i> 11:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		155	156	157	-	-	-
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	1.83	1.85	1.86	-	-	-
Field moisture content	%	22.6	21.7	21.3	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		155	156	157	-	-	-	
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	1.87	1.88	1.89	-	-	-	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	23.0	23.0	23.5	-	-	-	

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 <sub>HD</sub> )       %       98.0       98.5       98.5       -       -       -       -								
Optimum Moisture Content		dry	dry	dry				
Moisture Variation From		0.5%	1.5%	2.0%	-	-	-	

#### Material description

No 155 - 157 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CHNICAL SERVICES	Job No Report No	22853 22853/R030
	ue, Croydon 3136	Date Issued	01/03/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	20/02/23
Location	TARNEIT	Checked by	JHF
Loodiion	DARKET	Checked by	0111

Feature EARTHWORKS

Layer thickness

200 mm

*Time:* 08:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		158	159	160	- '	-	-
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	1.83	1.81	1.78	-	-	-
Field moisture content	%	21.9	21.3	21.8	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		158	159	160	-	-	-
Compactive effort				Star	Idard		
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	1.88	1.84	1.78	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	23.5	23.5	23.5	-	-	-

Density Ratio (R <sub>HD</sub> ) %	97.5	98.0	99.5	-	-	-
density and moisture ratio results relate	only to the so	il to the dept	h of test and	not to the fu	ll depth of the	e layer
Optimum Moisture Content	dry	dry	dry			
Moisture Variation From	1.5%	2.0%	2.0%	-	-	-

Material description

No 158 - 160 Clay Fill



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

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CHNICAL SERVICES nue, Croydon 3136			Job No Report No Date Issued	22853 22853/R031 24/02/23
Client Project Location	WINSLOW CONSTRUCTOR ALAMORA - STAGES 11 - 13 TARNEIT	S PTY LTD (CAMPBELLFIELD 3 BEW	)	Tested by Date tested Checked by	JB 21/02/23 JHF
Feature	EARTHWORKS	Layer thickness	200 mm	Time	: 13:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		161	162	163	-	-	-
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	1.84	1.85	1.83	-	-	-
Field moisture content	%	21.1	21.8	22.6	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		161	162	163	-	-	-
Compactive effort				Star	Idard		
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	1.91	1.90	1.87	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	23.0	23.0	25.0	-	-	-

Density Ratio (R <sub>HD</sub> )	,	97.5	97.5	-	-	-		
density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer								
Optimum Moisture Content	drv	drv	drv					
Moisture Variation From	2.0%	1.0%	2.5%	-	-	-		

#### Material description

No 161 - 163 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CIVIL GEOTECHNICAL SERVICES 6 - 8 Rose Avenue, Croydon 3136			Job No Report No Date Issued	22853 22853/R032 28/02/23
Client Project Location	WINSLOW CONSTRUCTORS ALAMORA - STAGES 11 - 13 I TARNEIT	•	)	Tested by Date tested Checked by	JB 22/02/23 JHF
Feature	EARTHWORKS	Layer thickness	200 mm	Time	: 13:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		164	165	166	-	-	-
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	1.81	1.84	1.97	-	-	-
Field moisture content	%	17.2	17.6	18.6	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		164	165	166	-	-	-
Compactive effort				Star	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	1.83	1.87	2.01	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.5	18.5	19.0	-	-	-

density and moisture ratio result <b>Density Ratio ( R</b> <sub>HD</sub> )	s relate on %	ly to the so 99.0	il to the dept 98.0	h of test and <b>98.0</b>	not to the ful	l depth of the	e layer
Optimum Moisture Content		dry	dry	dry			
Moisture Variation From		2.5%	1.0%	0.5%	-	-	-

#### Material description

No 164 - 166 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CHNICAL SERVICES nue, Croydon 3136	Job No Report No Date Issued	22853 22853/R033 01/03/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	24/02/23
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	<i>Time:</i> 09:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		167	168	169	-	-	-
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	1.82	1.83	1.84	-	-	-
Field moisture content	%	18.1	18.7	18.4	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		167	168	169	-	-	-	
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	1.88	1.86	1.86	-	-	-	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	19.5	21.0	19.5	-	-	-	

Optimum Moisture Content         dry         dry         dry         l           density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer         Image: state only to the soil to the depth of test and not to the full depth of the layer											
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 <sub>HD</sub> )       %       97.0       98.0       99.5       -       -       -       -											

#### Material description

No 167 - 169 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CHNICAL SERVICES Jue, Croydon 3136			Job No Report No Date Issued	22853 22853/R034 01/03/23		
Client	WINSLOW CONSTRUCTOR	RS PTY LTD (CAMPBELLFIELD)	)	Tested by	JB		
Project	ALAMORA - STAGES 11 - 1	ALAMORA - STAGES 11 - 13 BEW					
Location	TARNEIT	TARNEIT					
Feature	EARTHWORKS	Layer thickness	200 mm	Time	: 12:00		

### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		170	171	172	-	-	-
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	2.00	1.97	1.97	-	-	-
Field moisture content	%	21.1	22.2	21.7	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		170	171	172	-	-	-	
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	2.04	1.99	2.03	-	-	-	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	23.0	25.0	24.0	-	-	-	

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer											
Moisture Variation From Optimum Moisture Content	1.5% dry	2.5% dry	2.0% dry	-	-	-					

#### Material description

No 170 - 172 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CHNICAL SERVICES						Job No Report	No	22853 22853/R035
	nue, Croydon 3136								07/03/23
Client	WINSLOW CONSTRU		•	AMPBELLFI	ELD)		Tested	-	JB
Project	ALAMORA - STAGES	5 11 - 13 B	BEW				Date te		28/02/23
Location	TARNEIT						Checke	эа by	JHF
Feature	EARTHWORKS		Lay	er thickness	200	mm		Time	: 13:00
Test No Location			173	174	175	-		-	
Location									
			REFER TO	REFER TO	REFER TO				
			то	ТО	то				
Approximate	e depth below FSL		TO FIGURE 1	TO FIGURE 1	TO FIGURE 1				
Approximate Measureme	ent depth	mm	TO FIGURE 1 175	TO FIGURE 1 175	TO FIGURE 1 175			-	-
Approximate Measureme Field wet de	ent depth ensity	t∕m³	TO FIGURE 1 175 1.95	TO FIGURE 1 175 1.94	TO FIGURE 1 175 1.97	-		-	-
Approximate Measureme Field wet de Field moistu	ent depth ensity ure content		TO FIGURE 1 175	TO FIGURE 1 175	TO FIGURE 1 175	-		-	- - - -
Approximate Measureme Field wet de Field moistu	ent depth ensity	t∕m³	TO FIGURE 1 175 1.95	TO FIGURE 1 175 1.94	TO FIGURE 1 175 1.97				
Approximate Measureme Field wet de Field moistu Test proce	ent depth ensity ure content edure AS 1289.5.7.1	t∕m³	TO FIGURE 1 175 1.95 28.0	TO FIGURE 1 175 1.94 26.9	TO FIGURE 1 175 1.97 26.0	-		-	-

	Moisture Variation From		1.0%	1.5%	0.5%	-	-	-				
	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											
D	Density Ratio(R <sub>HD</sub> )	%	98.5	98.0	97.5	-	-	-				

wet

t∕m³

t∕m³

%

0

1.98

-

29.0

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1.98

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28.5

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AVRLOT HILF V1.10 MAR 13

Material description

No 173 - 175 Clay Fill

Percent of oversize material

Peak Converted Wet Density

Optimum Moisture Content

Adjusted Peak Converted Wet Density



Approved Signatory : Justin Fry



### **COMPACTION ASSESSMENT**

0	CHNICAL SERVICES nue, Croydon 3136		Job No 22853 Report No 22853 Date Issued 10/03		
Client Project Location	WINSLOW CONSTRUCTORS ALAMORA - STAGES 11 - 13 TARNEIT	)	Tested by Date tested Checked by	JB 01/03/23 JHF	
Feature	EARTHWORKS	Layer thickness	200 mm	Time	e: 09:00

Test procedure	AS	1289.2	11	R.	58	1
iest procedure	AO	1209.2.	1.1	α	0.0	. 1

Test No		176	177	178	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	тт	175	175	175	-	-	-
Field wet density	t∕m³	1.97	2.01	1.95	-	-	-
Field moisture content	%	19.9	22.5	20.5	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		176	177	178	-	-	-
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	2.05	1.97	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	22.0	23.0	21.5	-	-	-

•	<b>6</b> 98.5	98.5	99.0	-	-	-		
density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer								
Optimum Moisture Content	dry	dry	dry					
Moisture Variation From	2.0%	0.5%	1.0%	-	-	-		

#### Material description

No 176 - 178 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



0	CHNICAL SERVICES nue, Croydon 3136			Job No Report No Date Issued	22853 22853/R037 10/03/23
Client Project Location	WINSLOW CONSTRUCTORS ALAMORA - STAGES 11 - 13 TARNEIT	,	)	Tested by Date tested Checked by	JB 02/03/23 JHF
Feature	EARTHWORKS	Layer thickness	200 mm	Time	e: 09:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		179	180	181	-	-	-
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	1.98	2.00	1.98	-	-	-
Field moisture content	%	23.6	18.1	17.1	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		179	180	181	-	-	-
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	2.03	2.03	1.99	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	23.5	20.5	19.5	-	-	-

density and moisture ratio result <b>Density Ratio (</b> <i>R</i> <sub>HD</sub> )	s relate o %	only to the so <b>98.0</b>	il to the dept 98.5	h of test and <b>99.5</b>	not to the ful	l depth of the	e layer
Optimum Moisture Content			dry	dry			
Moisture Variation From		0.0%	2.5%	2.5%	-	-	-

#### Material description

No 179 - 181 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CHNICAL SERVICES	Job No Report No	22853 22853/R038
	ue, Croydon 3136	Date Issued	31/05/23
	•		
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	03/05/23
Location	TARNEIT	Checked by	JHF
Project Location	ALAMORA - STAGES 11 - 13 BEW TARNEIT	Date tested Checked by	03/05/23 JHF

FeatureEARTHWORKSLayer thickness200 mm

*Time:* 09:30

### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		182	183	184	-	-	-
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	2.08	2.11	2.14	-	-	-
Field moisture content	%	31.7	28.2	27.0	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		182	183	184	-	-	-
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	2.12	2.12	2.17	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	34.0	30.5	29.0	-	-	-

density and moisture ratio results Density Ratio (R <sub>HD</sub> )	relate o %	nly to the so 98.5	il to the dept 99.5	h of test and <b>99.0</b>	not to the fu	ll depth of the	e layer
Optimum Moisture Content		dry	dry	dry			
Moisture Variation From		2.0%	2.0%	2.0%	-	-	-

Material description

No 182 - 184 Clay Fill



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

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



		Job No	22853	
CIVIL GEOTE	CHNICAL SERVICES	Report No	22853/R039	
6 - 8 Rose Aven	ue, Croydon 3136	Date Issued	10/05/23	
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB	
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	04/05/23	
Location	TARNEIT	Checked by	JHF	

Feature	EARTHWORKS	Layer thickness	200 mm	<i>Time:</i> 11:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		185	186	187	-	-	-
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	2.02	1.94	2.04	-	-	-
Field moisture content	%	27.3	26.9	26.3	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		185	186	187	-	-	-		
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	2.06	1.98	2.07	-	-	-		
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-		
Optimum Moisture Content	%	30.0	29.5	28.5	-	-	-		

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 <sub>HD</sub> )       %       98.0       98.5       -       -       -									
Optimum Moisture Content		dry	dry	dry					
Moisture Variation From		2.0%	2.0%	2.0%	-	-	-		

#### Material description

No 186 - 187 Clay Fill



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

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



		Job No	22853
CIVIL GEOTE	CHNICAL SERVICES	Report No	22853/R040
6 - 8 Rose Aven	ue, Croydon 3136	Date Issued	10/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	05/05/23
Location	TARNEIT	Checked by	JHF

Feature EARTHWORKS

Layer thickness

200 mm

*Time:* 08:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		188	189	190	- '	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL	i		[]	[]			
Measurement depth	mm	175	175	175	-	-	
Field wet density	t∕m³	1.85	1.88	1.84	-	-	-
Field moisture content	%	28.7	28.6	29.9	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		188	189	190	-	-	-		
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	1.89	1.91	1.86	-	-	-		
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-		
Optimum Moisture Content	%	31.0	31.5	32.0	-	-	-		

Moisture Variation From Optimum Moisture Content2.5% dry2.5% dry2.0% drydensity 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 <sub>HD</sub> )       %       98.0       98.5       98.5       -       <									

Material description

No 189 - 190 Clay Fill



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

Approved Signatory : Justin Fry



	CHNICAL SERVICES nue, Croydon 3136			22853 22853/R041 01/06/23	
Client Project Location	WINSLOW CONSTRUCTOR ALAMORA - STAGES 11 - 13 TARNEIT	)	Tested by Date tested Checked by	JB 10/05/23 JHF	
Feature	EARTHWORKS	Layer thickness	200 mm	Time	: 13:00

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		191	192	193	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	тт	175	175	175	-	-	-
Field wet density	t∕m³	1.83	1.90	1.92	-	-	-
Field moisture content	%	18.4	19.8	20.2	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		191	192	193	-	-	-		
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	1.85	1.92	1.96	-	-	-		
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-		
Optimum Moisture Content	%	21.0	22.5	22.0	-	-	-		

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 <sub>HD</sub> )       %       99.0       98.0       -       -       -       -										
Optimum Moisture Content		dry	dry	dry						
Moisture Variation From		2.5%	2.5%	2.0%	-	-	-			

#### Material description

No 191 - 193 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



CIVIL GEOTE	CHNICAL SERVICES	Job No Report No	22853 22853/R042
6 - 8 Rose Aven	ue, Croydon 3136	Date Issued	25/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	11/05/23
Location	TARNEIT	Checked by	JHF

EARTHWORKS Feature

Layer thickness

200 mm

*Time:* 08:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		194	195	196	-	-	-
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	1.88	1.92	1.90	-	-	-
Field moisture content	%	28.9	32.3	32.9	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		194	195	196	-	-	-
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	1.91	1.96	1.91	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	31.0	35.0	35.5	-	-	-

Moisture Variation From Optimum Moisture Content		2.0% dry	2.5% dry	2.5% dry	_	_	
· · · · · ·							
density and moisture ratio resu Density Ratio (R <sub>HD</sub> )	Its relate only	y to the so 99.0	il to the depti 98.0	h of test and <b>99.5</b>	not to the ful	l depth of the	e layer

Material description

No 194 - 196 Clay Fill



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

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



	CHNICAL SERVICES nue, Croydon 3136			Job No Report No Date Issued	22853 22853/R043 31/05/23
Client Project Location	WINSLOW CONSTRUCTORS ALAMORA - STAGES 11 - 13 TARNEIT	•	)	Tested by Date tested Checked by	JB 12/05/23 JHF
Feature	EARTHWORKS	Laver thickness	200 mm	Time	e: 10:30

#### Test procedure AS 1289.2.1.1 & 5.8.1

Test No		197	198	199	-	-	-
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	1.91	1.98	1.98	-	-	-
Field moisture content	%	24.2	25.6	25.7	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		197	198	199	-	-	-
Compactive effort				Star	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	1.93	2.01	1.99	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	26.5	28.0	28.0	-	-	-

Density Ratio (R <sub>HD</sub> ) %	98.5	98.5	99.0	-	-	- ayei
density and moisture ratio results relate			•)	not to the fu	l Il denth of the	laver
Optimum Moisture Content	drv	drv	drv			
Moisture Variation From	2.0%	2.0%	2.5%	-	-	-

#### Material description

No 197 - 199 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



CIVIL GEOTE	CHNICAL SERVICES	Job No Report No	22853 22853/R044
6 - 8 Rose Aven	ue, Croydon 3136	Date Issued	25/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGES 11 - 13 BEW	Date tested	15/05/23
Location	TARNEIT	Checked by	JHF

Feature EARTHWORKS

Layer thickness

200 mm

*Time:* 10:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		200	201	202	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	тт	175	175	175	-	-	-
Field wet density	t∕m³	2.01	1.96	2.02	-	-	-
Field moisture content	%	27.4	29.1	26.9	-	-	-

#### Test procedure AS 1289.5.7.1

Test No		200	201	202	-	-	-
Compactive effort				Star	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	2.04	2.01	2.04	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	29.5	31.0	29.5	-	-	-

Optimum Moisture Content	dry	dry	dry			
density and moisture ratio results relate of	only to the so	il to the dept	h of test and	not to the ful	II depth of the	e layer

Material description

No 200 - 202 Clay Fill



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

Approved Signatory : Justin Fry