



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

18th July 2018

Our Reference: 17172B:NB235

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
AQUAREVO ESTATE – STAGE 3 (ROCKBANK)

Please find attached our Report No's 17172B/R001 to 17172B/R009 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 April 2018 and was completed in May 2018.

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

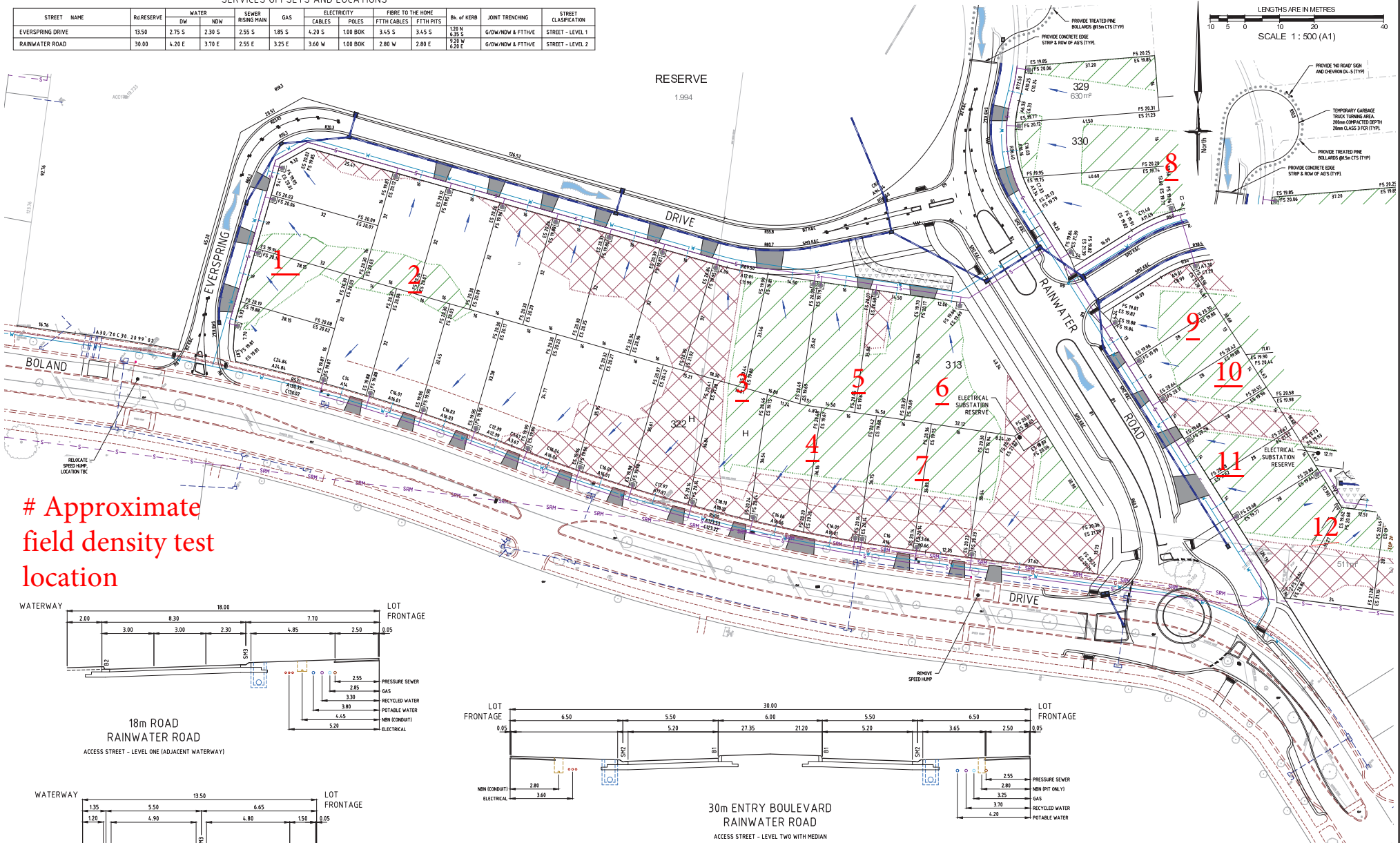
A handwritten signature in blue ink, appearing to be 'Nick Brock', is written over a light blue circular stamp.

Nick Brock

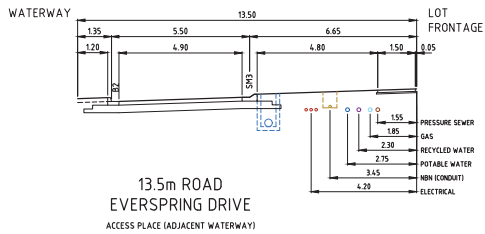
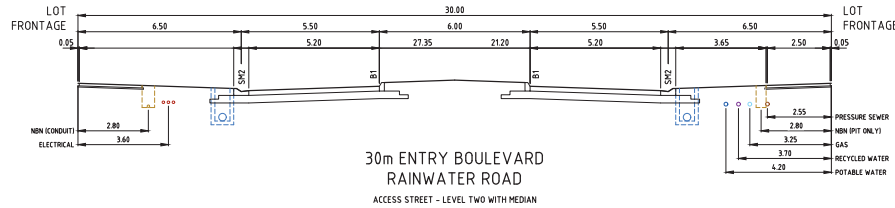
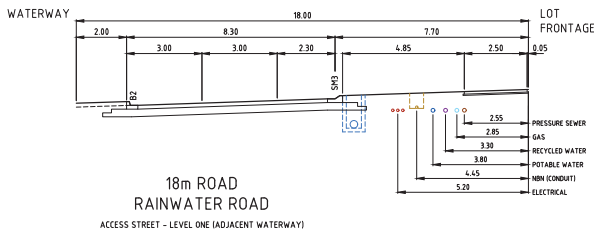
FIGURE 1 (1 of 2)

SERVICES OFFSETS AND LOCATIONS

STREET NAME	R/R RESERVE	WATER		SEWER RISING MAIN	GAS	ELECTRICITY		FIBRE TO THE HOME		Bl. of KERB	JOINT TRENCHING	STREET CLASSIFICATION
		DW	NW			CABLES	POLES	FTTH CABLES	FTTH PITS			
EVERSPRING DRIVE	13.50	2.75 S	2.30 S	2.55 S	1.85 S	4.20 S	1.00 BOX	3.45 S	3.45 S	1.20 H	G/DW/NOW & FTTH/E	STREET - LEVEL 1
RAINWATER ROAD	30.00	4.20 E	3.70 E	2.55 E	3.25 E	3.60 W	1.00 BOX	2.80 W	2.80 E	1.20 H	G/DW/NOW & FTTH/E	STREET - LEVEL 2



Approximate field density test location



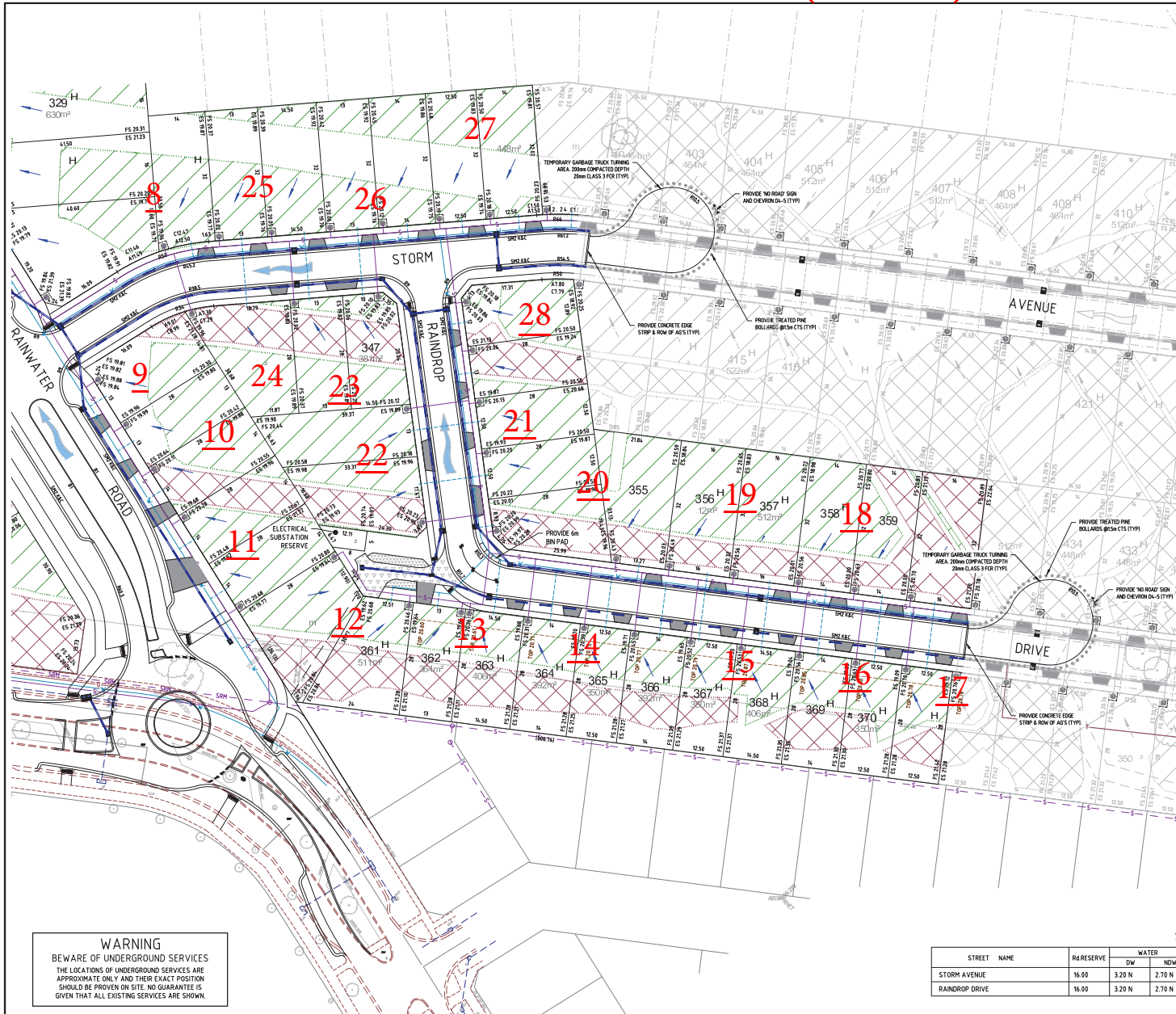
LEGEND		LOT FALL	
PROP DRAINAGE		LOT FALL	
EXIST DRAINAGE		LOT LEVEL - PROP / EXIST	
PROP HOUSE DRAIN (REAR)		BATTER - TOP / TOE	
PROP HOUSE DRAIN (FRONT)		KERBING TYPE	
PROP / EXIST SEWER		LOTS EASEMENT	
PROP / EXIST WATER		LINEMARKING	
PROP RETAINING WALL		DRIVEWAY	
EXIST RETAINING WALL			
FILL - PROP / EXIST			
CUT - PROP / EXIST			

NO.	DATE	REMARKS

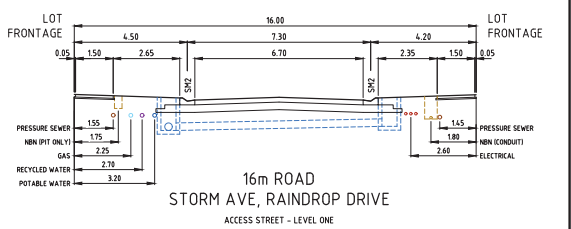
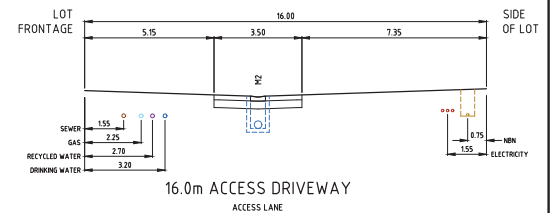
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 calo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310						
MELWAY REF.	-	AQUAREVO ESTATE STAGE 3 FUNCTIONAL LAYOUT PLAN		CASEY REFERENCE 8766 E/03						
SURVEY	BPD	SCALE	1:500 (A1)	DATUM	AHD	DATE	August '16	SHEET	1 OF 4	P2
DESIGN	TBC									
DRAWN	TBC									
CHECKED	TBC									

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FIGURE 1 (2 of 2)

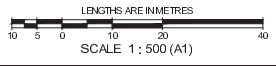


Approximate field density test location



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

- ATTENTION TO CONTRACTOR**
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
 - CONTRACTOR TO ENSURE THAT THE SITE IS PEGGED AND OR SET OUT CHECKED BY THE LICENSED SURVEYOR RESPONSIBLE FOR CERTIFYING THE PLAN OF SUBDIVISION PRIOR TO UNDERGROUND INFRASTRUCTURE BEING INSTALLED.
 - WHERE CONCRETE WORKS ABOUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVED MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.



LEGEND

- PROP DRAINAGE
- EXIST DRAINAGE
- PROP HOUSE DRAIN (REAR)
- PROP HOUSE DRAIN (FRONT)
- PROP / EXIST SEWER
- PROP / EXIST WATER
- PROP RETAINING WALL
- EXIST RETAINING WALL
- FILL - PROP / EXIST
- CUT - PROP / EXIST
- LOT FALL
- LOT LEVEL - PROP / EXIST
- BATTER - TOP / TOE
- KERBING TYPE
- LOTS EASEMENT
- LINEMARKING
- DRIVEWAY

SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd RESERVE	WATER	SEWER	GAS	ELECTRICITY	FIBRE TO THE HOME	Bk. of KERB	JOINT TRENCHING	STREET CLASSIFICATION		
STORM AVENUE	16.00	3.20 N	2.70 N	1.55 N	2.25 N	2.40 S	1.00 BOK	1.80 S	1.75 N	G/DW/NDW & FTTH/E	STREET - LEVEL 1
RAINDROP DRIVE	16.00	3.20 N	2.70 N	1.55 N	2.25 N	2.40 S	1.00 BOK	1.80 S	1.75 N	G/DW/NDW & FTTH/E	STREET - LEVEL 1

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 calo street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. -
SURVEY BPD
DESIGN TBC
DRAWN TBC

AQUAREVO ESTATE
STAGE 3
FUNCTIONAL LAYOUT PLAN

SCALE 1:500 (A1) DATUM AHD DATE August 16 SHEET 2 OF 4

MUNICIPALITY CASEY REFERENCE 8766 E/03

VER. DATE REMARKS CHECKED

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COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R001
 Date Issued 12/05/17

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by JWM
 Date tested 03/04/17
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project SQUAREVO - STAGE 3
 Location LYNDHURST

Feature EARTHWORKS *Layer thickness* 200 mm *Time:* 07:36

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	-	-	-
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/m ³	1.85	1.79	1.85	-	-	-
Field moisture content	%	32.9	32.6	29.3	-	-	-

Test procedure AS 1289.5.7.1

Test No		1	2	3	-	-	-
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/m ³	1.87	1.88	1.93	-	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	30.5	30.5	27.0	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% wet	2.0% wet	2.5% wet	-	-	-
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Density Ratio (R_{HD})	%	99.0	95.0	96.0	-	-	-
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Material description

No 1 - 3 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R002
 Date Issued 23/05/17

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JWM
Project	AQUAREVO - STAGE 3	Date tested	04/04/17
Location	LYNDHURST	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:24
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No		4	5	6	7	8	9
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	mm	175	175	175	175	175	175
Field wet density	t/m ³	1.89	1.85	1.88	1.84	1.84	1.82
Field moisture content	%	23.9	31.4	26.1	24.5	26.0	22.2

Test procedure AS 1289.5.7.1

Test No		4	5	6	7	8	9
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	1	0	0
Peak Converted Wet Density	t/m ³	1.94	1.91	1.96	1.92	1.77	1.87
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	1.93	-	-
Optimum Moisture Content	%	21.5	29.5	24.0	25.0	28.0	25.0

Moisture Variation From Optimum Moisture Content	2.5% wet	1.5% wet	2.0% wet	0.5% dry	2.0% dry	2.5% dry
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Density Ratio (R _{HD})	%	98.0	97.0	96.0	95.5	103.5	97.5
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Material description

No 4 - 9 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R003
 Date Issued 24/04/17

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by JWM
 Date tested 05/04/17
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project SQUAREVO - STAGE 3
 Location LYNDHURST

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:32
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	10	-	-	-	-	-
Location	REFER TO FIGURE 1					
Approximate depth below FSL						
Measurement depth	mm	175	-	-	-	-
Field wet density	t/m ³	1.82	-	-	-	-
Field moisture content	%	29.9	-	-	-	-

Test procedure AS 1289.5.7.1

Test No	10	-	-	-	-	-
Compactive effort		Standard				
Oversize rock retained on sieve	mm	19.0	-	-	-	-
Percent of oversize material	wet	0	-	-	-	-
Peak Converted Wet Density	t/m ³	1.78	-	-	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	31.0	-	-	-	-

Moisture Variation From Optimum Moisture Content	1.0% dry	-	-	-	-	-
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Density Ratio (R_{HD})	%	102.0	-	-	-	-
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Material description

No 10 - 10 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R004
 Date Issued 17/05/2017

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JWM
Project	AQUAREVO - STAGE 3	Date tested	06/04/17
Location	LYNDHURST	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 07:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	11	12	-	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL						
Measurement depth <i>mm</i>	175	175	-	-	-	-
Field wet density <i>t/m³</i>	1.81	1.86	-	-	-	-
Field moisture content <i>%</i>	27.0	19.3	-	-	-	-

Test procedure AS 1289.5.7.1

Test No	11	12	-	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve <i>mm</i>	19.0	19.0	-	-	-	-
Percent of oversize material <i>wet</i>	0	0	-	-	-	-
Peak Converted Wet Density <i>t/m³</i>	1.83	1.86	-	-	-	-
Adjusted Peak Converted Wet Density <i>t/m³</i>	-	-	-	-	-	-
Optimum Moisture Content <i>%</i>	28.5	19.0	-	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	0.5% wet	-	-	-	-
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Density Ratio (R_{HD})	%	99.0	100.0	-	-	-
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Material description

No 11 - 12 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R005
 Date Issued 12/05/17

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by JWM
 Date tested 19/04/17
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project SQUAREVO - STAGE 3
 Location LYNDHURST

Feature **EARTHWORKS** Layer thickness 200 mm Time: 09:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	13	14	15	-	-	-
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/m ³	1.87	1.87	1.91	-	-	-
Field moisture content %	21.9	27.1	25.9	-	-	-

Test procedure AS 1289.5.7.1

Test No	13	14	15	-	-	-
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/m ³	1.82	1.92	1.96	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	24.0	25.0	23.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% wet	2.5% wet	-	-	-
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Density Ratio (R _{HD}) %	103.0	97.0	97.5	-	-	-
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Material description

No 13 - 15 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R006
 Date Issued 12/05/17

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by JWM
 Date tested 20/04/17
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project SQUAREVO - STAGE 3
 Location LYNDHURST

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	11:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	16	17	18	19	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1		
Approximate depth below FSL						
Measurement depth mm	175	175	175	175	-	-
Field wet density t/m ³	1.78	1.77	1.91	1.92	-	-
Field moisture content %	31.8	32.5	24.2	28.4	-	-

Test procedure AS 1289.5.7.1

Test No	16	17	18	19	-	-
Compactive effort	Standard					
Oversize rock retained on sieve mm	19.0	19.0	19.0	19.0	-	-
Percent of oversize material wet	0	0	0	0	-	-
Peak Converted Wet Density t/m ³	1.85	1.83	1.96	1.93	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	32.0	33.5	23.0	26.0	-	-

Moisture Variation From Optimum Moisture Content	0.0%	0.5% dry	1.5% wet	2.5% wet	-	-
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Density Ratio (R_{HD})	%	96.0	96.5	97.5	99.0	-	-
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Material description

No 16 - 19 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R007
 Date Issued 06/07/2017

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JWM
Project	AQUAREVO - STAGE 3	Date tested	05/05/17
Location	LYNDHURST	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	20	21	22	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth <i>mm</i>	175	175	175	-	-	-
Field wet density <i>t/m³</i>	1.86	1.88	1.90	-	-	-
Field moisture content <i>%</i>	25.7	29.7	27.4	-	-	-

Test procedure AS 1289.5.7.1

Test No	20	21	22	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve <i>mm</i>	19.0	19.0	19.0	-	-	-
Percent of oversize material <i>wet</i>	0	0	0	-	-	-
Peak Converted Wet Density <i>t/m³</i>	1.83	1.85	1.91	-	-	-
Adjusted Peak Converted Wet Density <i>t/m³</i>	-	-	-	-	-	-
Optimum Moisture Content <i>%</i>	25.0	30.0	26.0	-	-	-

Moisture Variation From Optimum Moisture Content	0.5% wet	0.0%	1.0% wet	-	-	-
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Density Ratio (R_{HD})	%	102.0	102.0	99.5	-	-	-
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Material description

No 20 - 22 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R008
 Date Issued 25/07/17

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by JWM
 Date tested 18/05/17
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project SQUAREVO - STAGE 3
 Location LYNDHURST

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 11:32
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	23	24	25	-	-	-
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/m ³	1.92	1.87	1.96	-	-	-
Field moisture content %	23.3	32.3	26.0	-	-	-

Test procedure AS 1289.5.7.1

Test No	23	24	25	-	-	-
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/m ³	1.97	1.94	1.93	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	22.5	29.5	23.5	-	-	-

Moisture Variation From Optimum Moisture Content	0.5% wet	2.5% wet	2.5% wet	-	-	-
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Density Ratio (R_{HD})	%	97.0	96.5	101.5	-	-	-
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Material description

No 23 - 25 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 17172B
 Report No 17172B/R009
 Date Issued 20/06/2017

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by JWM
 Date tested 19/05/17
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project SQUAREVO - STAGE 3
 Location LYNDHURST

Feature EARTHWORKS *Layer thickness* 200 mm *Time:* 11:17

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		26	27	28	-	-	-
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/m ³	1.84	1.84	1.84	-	-	-
Field moisture content	%	26.9	28.3	28.3	-	-	-

Test procedure AS 1289.5.7.1

Test No		26	27	28	-	-	-
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/m ³	1.92	1.89	1.86	-	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	25.5	27.5	26.5	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% wet	1.0% wet	2.0% wet	-	-	-
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Density Ratio (R_{HD})	%	95.5	97.0	98.5	-	-	-
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Material description

No 26 - 28 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry