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

10th March 2021

Our Reference: 20583:NB899

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
EYNESBURY – STAGE 8C (EYNESBURY)

Please find attached our Report No's 20583/R001 to 20583/R004 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 November 2020 and was completed in March 2021.

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).

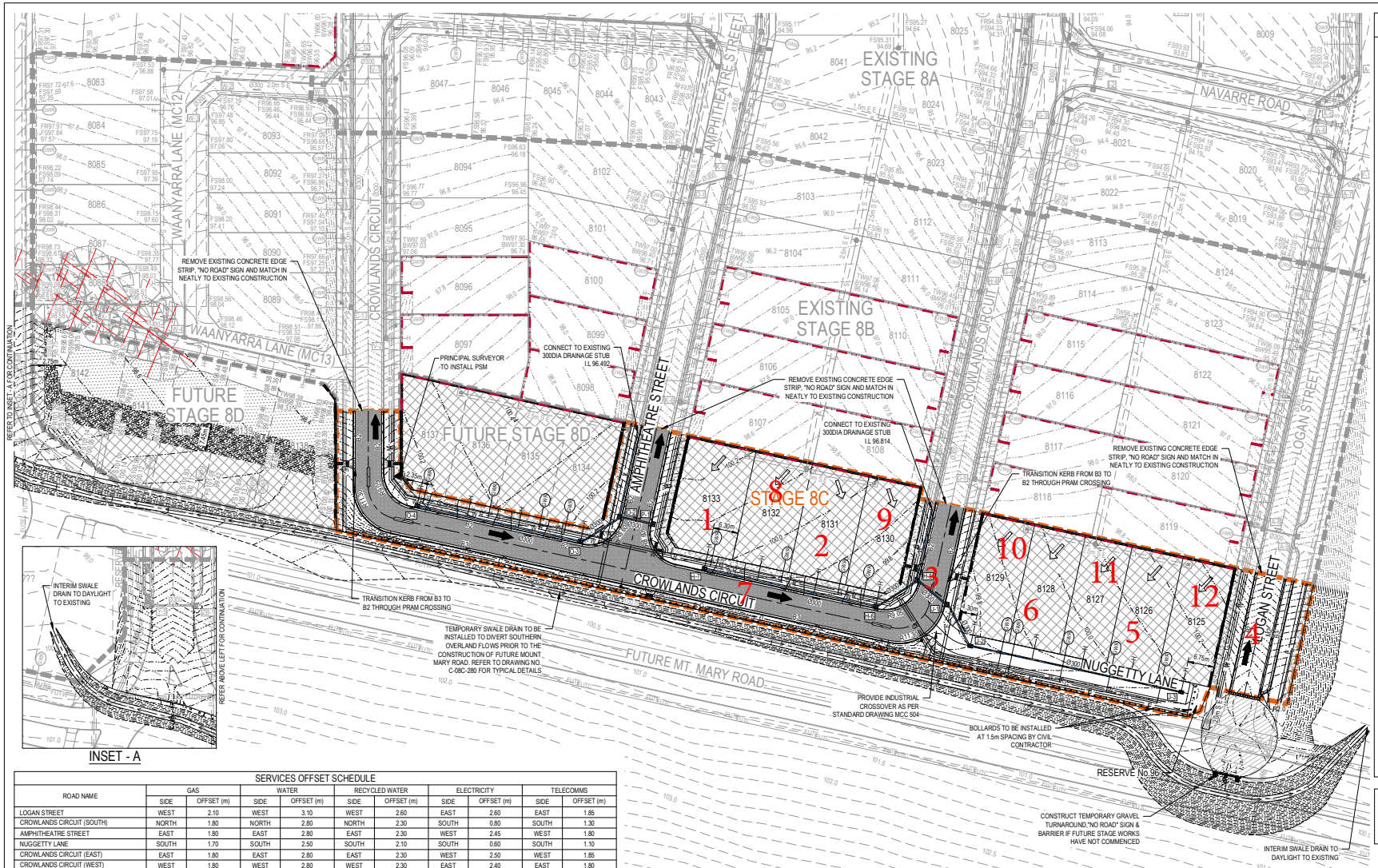
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1



LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED DESIGN CONTOURS
- PROPOSED KERB & CHANNEL
- FALL OF ALLOTMENT
- DIRECTION OF OVERLAND FLOW
- PROPOSED STORMWATER DRAINAGE
- PROPOSED PIT LABEL
- PROPOSED SEWERAGE RETICULATION
- PROPOSED WATER RETICULATION
- PROPOSED RECYCLED WATER RETICULATION
- PROPOSED ELECTRICITY UNDER GROUND
- PROPOSED COMMUNICATIONS
- PROPOSED GAS RETICULATION
- PROPOSED DRAINAGE INLET
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- PROPOSED ROAD PAVEMENT
- PROPOSED GAS / CLASS A / POTABLE WATER HOUSE CONNECTION
- BOLLARD
- FINISHED RIDGE LEVEL
- FINISHED SURFACE LEVEL
- TOP OF WALL LEVEL
- BOTTOM OF WALL LEVEL
- EXISTING SURFACE LEVEL
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- PROPOSED RIDGE LINE
- PROPOSED TEMPORARY SWALE DRAIN
- CUT (> 0.2m)
- FILL (> 0.2m)
- EXISTING STAGE BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER RETICULATION
- EXISTING WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- EXISTING ELECTRICITY UNDER GROUND
- EXISTING COMMUNICATIONS
- EXISTING GAS RETICULATION
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED

NOTE:

1. FOR GENERAL NOTES, REFER TO DRAWING No. C-08C-002.
2. REFER TO DRG. NO. C-08C-700 & 701 FOR LEVEL INFORMATION FOR LOTS 8125 - 8129 ; 8130 - 8133 & 8134 - 8137

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		WATER		RECYCLED WATER		ELECTRICITY		TELECOMMS	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
LOGAN STREET	WEST	2.10	WEST	3.10	WEST	2.60	EAST	2.60	EAST	1.85
CROWLANDS CIRCUIT (SOUTH)	NORTH	1.80	NORTH	2.80	NORTH	2.30	SOUTH	0.80	SOUTH	1.30
AMPHITHEATRE STREET	EAST	1.80	EAST	2.80	EAST	2.30	WEST	2.45	WEST	1.80
NUGGETTY LANE	SOUTH	1.70	SOUTH	2.50	SOUTH	2.10	SOUTH	0.60	SOUTH	1.10
CROWLANDS CIRCUIT (EAST)	EAST	1.80	EAST	2.80	EAST	2.30	WEST	2.50	WEST	1.85
CROWLANDS CIRCUIT (WEST)	WEST	1.80	WEST	2.80	WEST	2.30	EAST	2.40	EAST	1.80
FUTURE MT. MARY ROAD	WEST	2.60	WEST	3.60	WEST	3.10	EAST	-	EAST	-

ROAD LAYOUT TABLE

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH			KERB TYPE		VERGE WIDTH(m)	
			LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
LOGAN STREET	AS2	19.80	6.75	7.50	7.95	B2	B2	4.90	4.90
CROWLANDS CIRCUIT (EAST & WEST)	AP	14.00	6.60	7.50	7.80	B2	B3	4.10	4.10
AMPHITHEATRE STREET	AP	16.00	6.60	7.50	7.80	B2	B2	4.10	4.10
NUGGETTY LANE	AL	8.50	5.50	-	-	-	-	-	3.00
CROWLANDS CIRCUIT (SOUTH)	AP	14.00	6.60	7.50	7.80	B2	B2	4.10	2.10

Approximate field density test location

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Issue	Description	By	Ckd	PM	Date
04	UPDATES TO ADDRESS COUNCIL COMMENTS	HP	ZS	SE	19.08.20
03	UPDATES TO ADDRESS COUNCIL COMMENTS	WB	ZS	SE	03.08.20
02	ISSUED FOR APPROVAL	WB	ZS	SE	10.07.20
01	ISSUED TO CLIENT FOR REVIEW	WB	ZS	SE	07.11.19

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-08c-220-10029435-Roadworks&DrainagePlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Verifier: Z.STROGUSZ

Scales	1:500	Original Issue Signatures	
Original Size	A1	Drawn W.BUMAGAT	
Height Datum	AHD	Designed J.ROCK	
Grid	MGA	Project Manager S.EISEL	
		© Copyright reserved	

Project: EYNESBURY TOWNSHIP STAGE 8C

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No.	Project No.	Issue
C-08C-220	10029435	04

100mm on Original

Last Saved: WBMN1953 Date Plotted: 18 Aug 2020 - 11:46AM File Name: V1

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	20583
		Report No	20583/R001
		Date Issued	03/03/2021
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 8C	*Date tested*	30/11/20
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 09:30

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/m³*	1.83	1.78	1.82	-	-	-
Field moisture content	*%*	24.1	27.9	28.5	-	-	-

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/m³*	1.92	1.87	1.86	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	22.0	26.5	29.0	-	-	-

Moisture Variation From Optimum Moisture Content	2.0% wet	1.5% wet	0.5% dry	-	-	-

Density Ratio (R_{HD})	*%*	**95.0**	**95.5**	**98.0**	**-**	**-**	**-**

Material description

No 1 - 3 Clay Fill

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NATA

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	20583
		Report No	20583/R002
		Date Issued	14/12/2020
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 8C	*Date tested*	01/12/20
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 10:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**4**	**5**	**6**	**-**	**-**	**-**
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*	1.79	1.81	1.77	-	-	-
Field moisture content	*%*	29.9	28.6	29.8	-	-	-

Test procedure AS 1289.5.7.1

Test No		4	5	6	-	-	-
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*	1.80	1.81	1.86	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	32.0	30.0	29.5	-	-	-

Moisture Variation From Optimum Moisture Content		0.0%	1.5% dry	0.5% wet	-	-	-

Density Ratio (R_{HD})	*%*	**99.5**	**100.0**	**95.5**	**-**	**-**	**-**

Material description

No 4 - 6 Clay Fill

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	20583
		Report No	20583/R003
		Date Issued	06/03/2021
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	BS
Project	EYNESBURY - STAGE 8C	*Date tested*	02/03/21
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 17:40

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**7**	**8**	**9**	**-**	**-**	**-**
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*	1.76	1.73	1.72	-	-	-
Field moisture content	*%*	18.5	20.5	18.3	-	-	-

Test procedure AS 1289.5.7.1

Test No		7	8	9	-	-	-
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*	1.80	1.81	1.82	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	20.0	23.0	20.0	-	-	-

Moisture Variation From Optimum Moisture Content		1.5% dry	1.5% dry	1.5% dry	-	-	-

Density Ratio (R_{HD})	*%*	**98.0**	**95.5**	**95.0**	**-**	**-**	**-**

Material description

No 7 - 9 Clay Fill

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Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	20583
		Report No	20583/R004
		Date Issued	10/03/2021
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	BS
Project	EYNESBURY - STAGE 8C	*Date tested*	03/03/21
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 12:48

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**10**	**11**	**12**	**-**	**-**	**-**
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*	1.71	1.71	1.70	-	-	-
Field moisture content	*%*	18.1	18.3	18.7	-	-	-

Test procedure AS 1289.5.7.1

Test No		10	11	12	-	-	-
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*	1.78	1.73	1.75	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	20.0	20.5	21.0	-	-	-

Moisture Variation From Optimum Moisture Content		2.0% dry	2.0% dry	2.5% dry	-	-	-

Density Ratio (R_{HD})	*%*	**95.5**	**99.0**	**97.5**	**-**	**-**	**-**

Material description

No 10 - 12 Clay Fill

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry