



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

5th May 2021

Our Reference: 21141:NB948

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ALAMORA – STAGE 3 (TARNEIT)**

Please find attached our Report No 21141/R001 which relates to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density was performed 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).

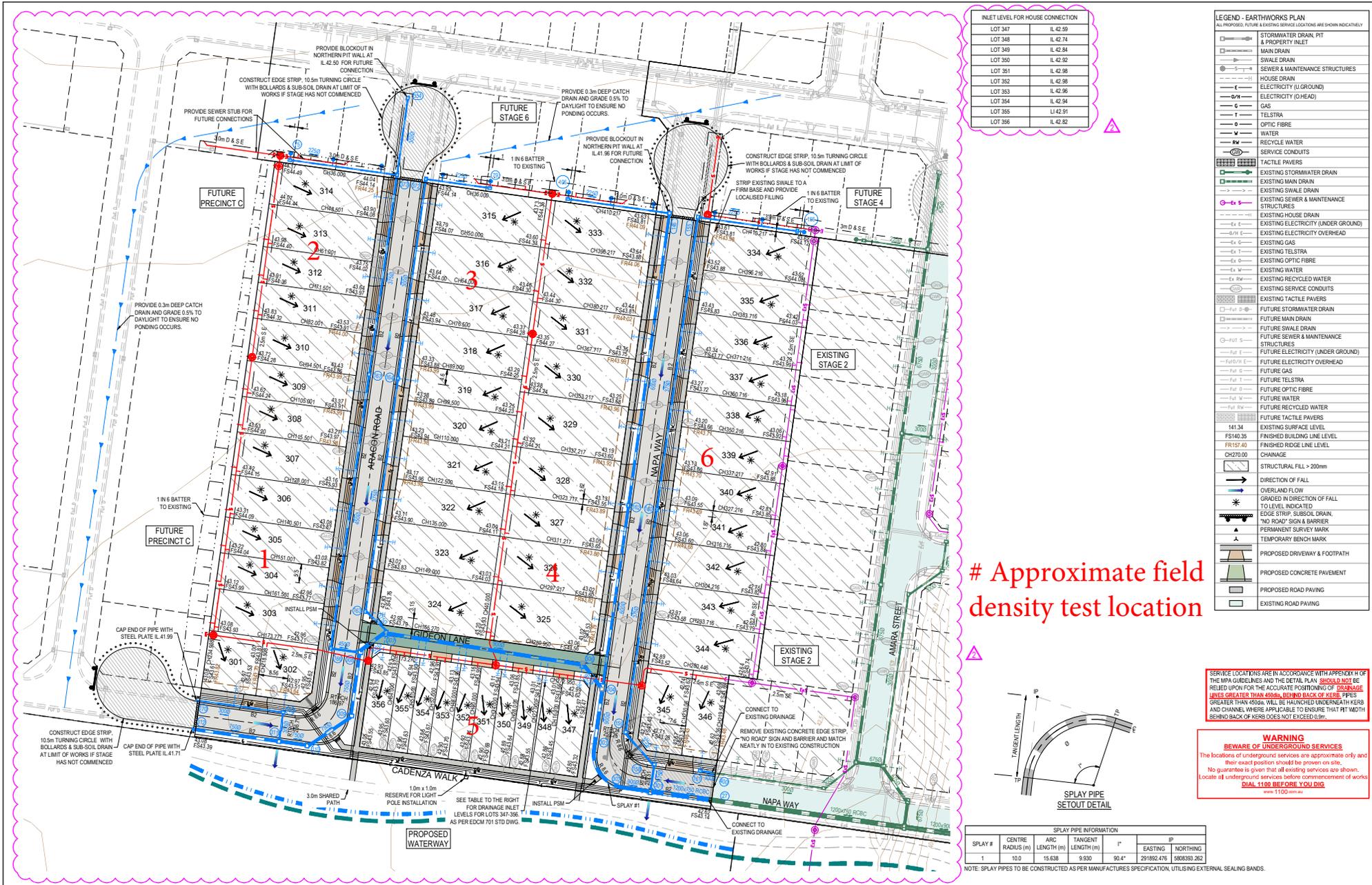
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

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

Nick Brock

FIGURE 1



INLET LEVEL FOR HOUSE CONNECTION

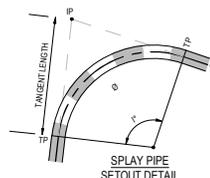
LOT 347	IL 42.59
LOT 348	IL 42.74
LOT 349	IL 42.84
LOT 350	IL 42.92
LOT 351	IL 42.98
LOT 352	IL 42.98
LOT 353	IL 42.96
LOT 354	IL 42.94
LOT 355	IL 42.91
LOT 356	IL 42.82

LEGEND - EARTHWORKS PLAN

(ALL PROPOSED, FUTURE & EXISTING LEVELS/LOCATIONS ARE SHOWN INDICATIVELY)

	STORMWATER DRAIN PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (D.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLED WATER
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE TACTILE PAVERS
	EXISTING SURFACE LEVEL
	FINISHED BUILDING LEVEL
	FINISHED RIDGE LINE LEVEL
	CHANNEL
	STRUCTURAL FILL > 200mm
	DIRECTION OF FALL
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, NO ROAD SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED CONCRETE PAVEMENT
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

Approximate field density test location



SPLAY PIPE INFORMATION

SPLAY #	CENTRE RADIUS (m)	ARC LENGTH (m)	TANGENT LENGTH (m)	I°	EASTING	NORTHING
1	100	15.638	9.930	90.4°	291892.476	598393.262

NOTE: SPLAY PIPES TO BE CONSTRUCTED AS PER MANUFACTURERS SPECIFICATION, UTILISING EXTERNAL SEALING BANDS.

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. Locate all underground services before commencement of works **DIAL 1108 BEFORE YOU DIG.**
www.1100.com.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	09.10.19	ISSUED TO COUNCIL FOR APPROVAL	MJ/AM	CS
B	22.01.20	LOT 246 REMOVED & CADENZA LANE ROAD NAME UPDATED	LF/BR	CS
0	09.04.20	ISSUED FOR CONSTRUCTION, VERIDIAN ROAD NAME & LOT NUMBERS UPDATED	LF/LF	CS
1	03.06.20	ARAGON ROAD & GIDEON LANE NAMES UPDATED	LF/LF	CS
2	13.11.20	DEVELOPMENT NAME, STAGE NO, DRAINAGE, SEWER, LOT LAYOUT & NOS	MS/MS	CS

SUBJECT TO APPROVAL

TITLE	NAME
DRAFTER	S.Margo
DESIGNER	R.Tait
CHECKED	N.Freeman
AUTHORISED	C.Sexton

SEE TABLE TO THE RIGHT FOR DRAINAGE INLET LEVELS FOR LOTS 347-356 AS PER EDCM 701 STD DWG.

Scale 1:500
 SCALE AS SHOWN AT A1

SMC
 Member of the Surlana Jurong Group
 Tower 4, Level 20, 727 Collins Street
 Melbourne, VIC 3008, Australia
 03 5581 3758

ALAMORA
 Tarneit

Alamora Estate, Sayers Road, Tarneit - Stage 3
 Wyndham City Council
 Road and Drainage
 Layout Plan

MELBOURNE REF: 234 D5
 PROJECT DRAWING NO: 2070E-21-02
 SHEET NO: 02 of 18
 REVISION: 2



COMPACTION ASSESSMENT

Job No 21141
 Report No 21141/R001
 Date Issued 12/04/2021

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ALAMORA - STAGE 3	Date tested	15/03/21
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:27
---------	------------	-----------------	--------	-------------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	REFER TO FIGURE 1					
Approximate depth below FSL						
Measurement depth	mm	175	175	175	175	175
Field wet density	t/m ³	1.84	1.84	1.84	1.95	1.96
Field moisture content	%	23.1	25.1	23.9	25.0	24.5

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	5	6
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m ³	1.86	1.88	1.94	1.95	1.97
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	25.0	27.0	26.5	26.5	27.5

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	2.5% dry	1.5% dry	2.0% dry	2.0% dry
--	----------	----------	----------	----------	----------	----------

Density Ratio (R _{HD})	%	99.0	97.5	95.5	100.5	99.0	95.5
-----------------------------------	---	------	------	------	-------	------	------

Material description

No 1 - 6 Clay Fill

AVRLOT HILF V1.10 MAR 13



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