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

17th July 2021

Our Reference: 20385:NB890 (Rev.1)

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
REDSTONE HILL – STAGE 1 (SUNBURY)

Please find attached our Report No's 20385/R001 and 20385/R002 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 was performed in November 2020.

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).

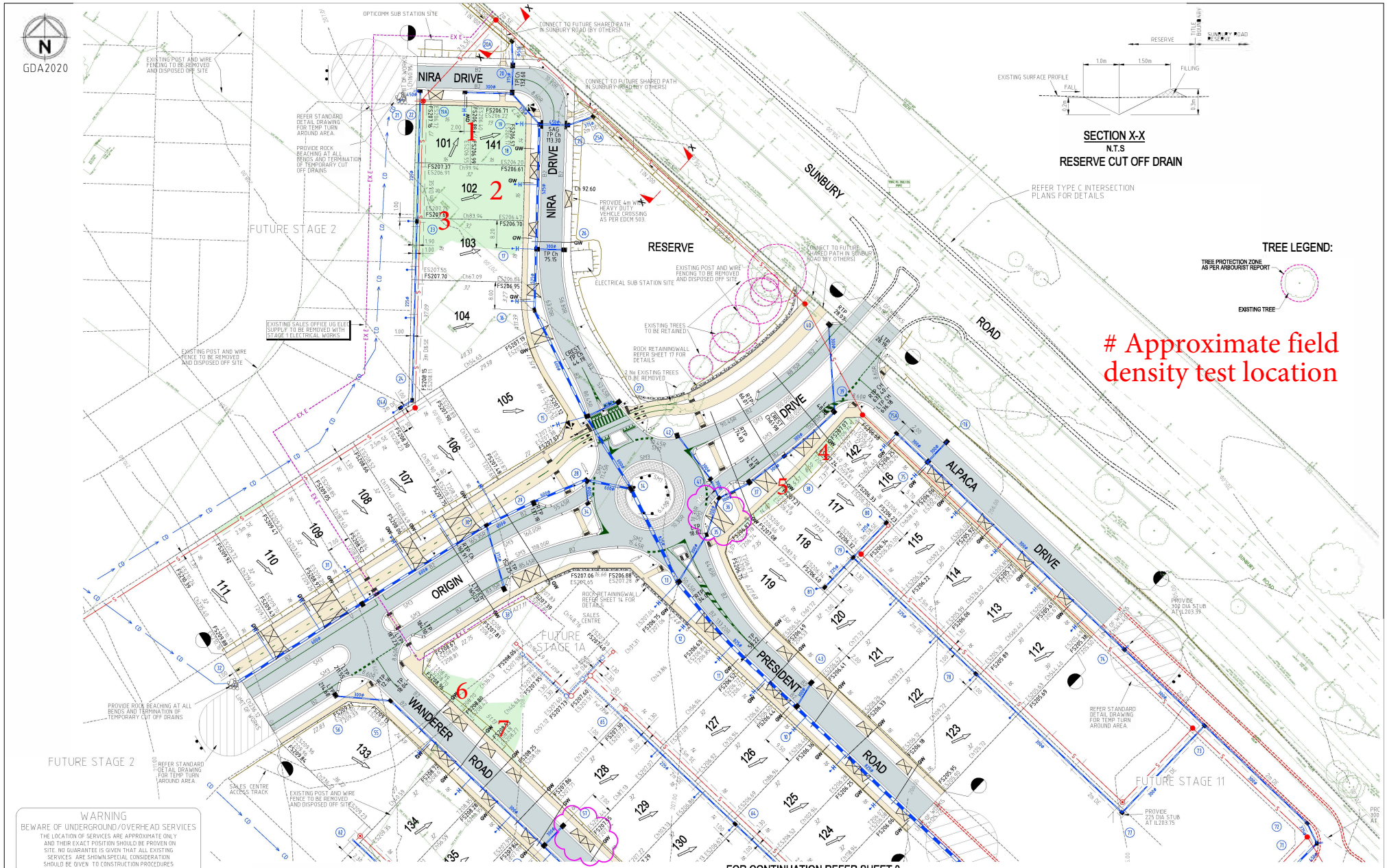
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1 (1 of 2)



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

Rev	Amendments	Approved	Date
7	LOT 119 DRIVEWAY UPDATED, LOT 128 DRIVEWAY COMBINED WITH LOT 129.	M.T.S	13/04/21
6	ROCK RETAINING WALL ADDED EXTENDED - SALES CENTRE SITE	M.L	20/01/21
5	LOT 126 DRIVEWAY COMBINED WITH LOT 127 AS DOUBLE, G/W CONDUIT ADJUSTED	M.L	15/1/21
4	ROCK RETAINING WALL ADDED - SALES CENTRE SITE	M.L	21/12/20
3	LOT 125 DRIVEWAY COMBINED WITH LOT 124 AS DOUBLE, G/W CONDUIT ADJUSTED	M.L	08/12/20
2	LOT 142 ADDED, PIT 75A ADDED. PIT 19A MOVED. LOT 101 GW ADDED	M.L	10/08/20
1	CONSTRUCTION ISSUE	M.L	16/07/20
0	CONSTRUCTION ISSUE	M.L	22/06/20

1500.A1
Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25
DATUM GDA2020

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Redstone.
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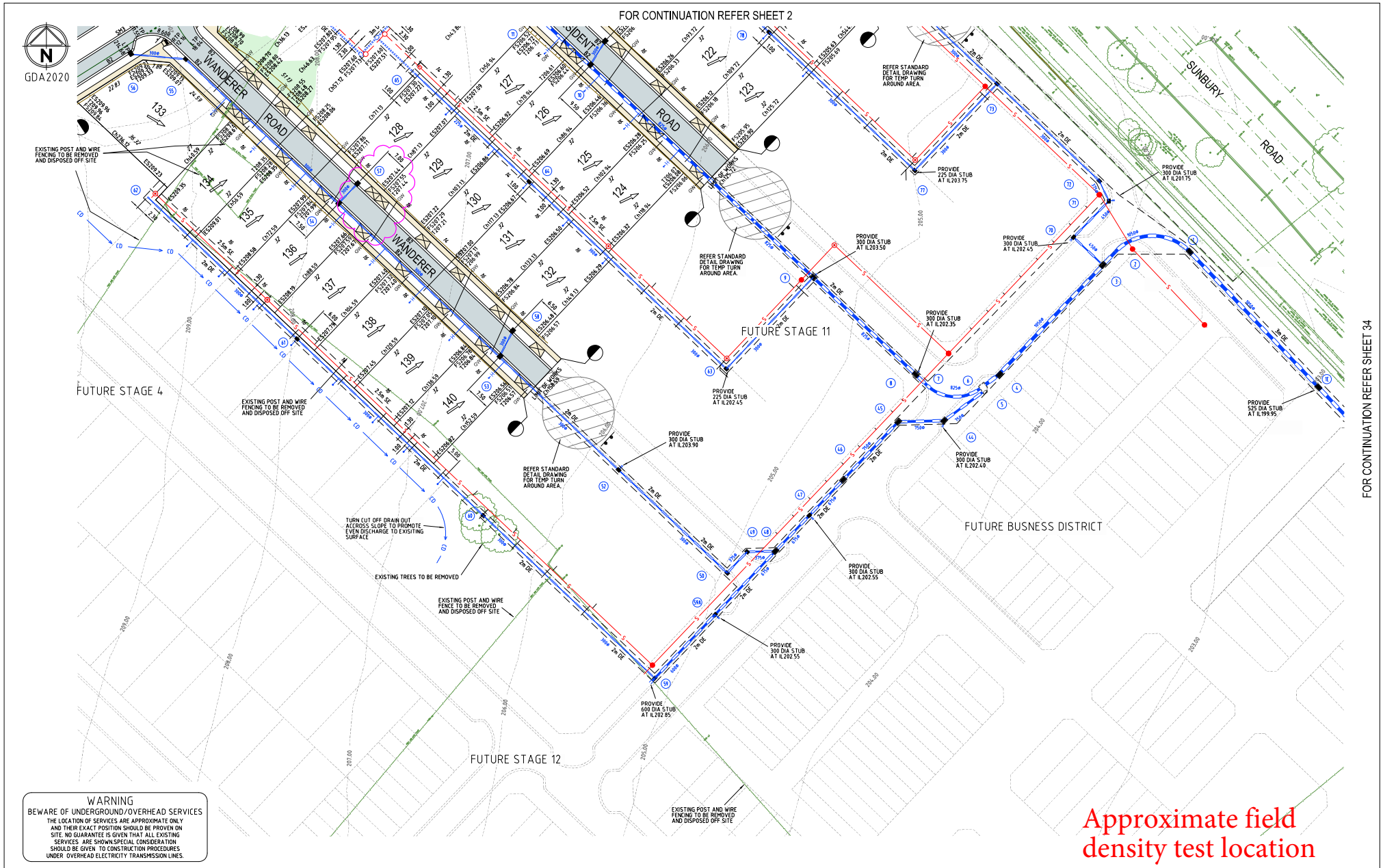
Designed: R. WEINBER
Checked: D. CAMERON
Authorised: M. LETSON
Date: 10/04/19

REDSTONE ESTATE
STAGE 1
ROAD & DRAINAGE FACE PLAN
SHEET 1 OF 2
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED
Drg No 305912R02
Rev 7

FIGURE 1 (2 of 2)



Rev	Amendments	Approved	Date
4	LOT 128 DRIVEWAY COMBINED WITH LOT 129.	M.T.S	13/04/21
3	LOT 126 DRIVEWAY COMBINED WITH LOT 127 AS DOUBLE, G/W CONDUIT ADJUSTED	M.L	15/1/21
2	LOT 125 DRIVEWAY COMBINED WITH LOT 124 AS DOUBLE, G/W CONDUIT ADJUSTED	M.L	08/12/20
1	CONSTRUCTION ISSUE	M.L	16/07/20
0	CONSTRUCTION ISSUE	M.L	22/06/20

1:500_A1
Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25
DATUM GDA2020

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Designed	Checked
R. WEINBER	D. CAMERON
Authorised	Date
M. LETSON	10/04/19

REDSTONE ESTATE
STAGE 1
ROAD & DRAINAGE FACE PLAN
SHEET 2 OF 2
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED

Drg No	Rev
305912R03	4

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	20385
		Report No	20385/R001
		Date Issued	14/12/2020
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AC
Project	REDSTONE HILL - STAGE 1	*Date tested*	25/11/20
Location	SUNBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 10:59

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**1**	**2**	**3**	**4**	**5**	**6**
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/m³*	1.96	1.94	1.92	1.96	1.95	1.98
Field moisture content	*%*	27.2	26.4	26.7	30.6	25.3	25.4

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
Compactive effort		Standard					
Oversize rock retained on sieve	*mm*	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	*wet*	0	0	0	0	0	0
Peak Converted Wet Density	*t/m³*	1.99	1.97	1.95	1.99	1.96	2.02
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	27.0	26.5	26.5	28.5	23.0	23.5

Moisture Variation From Optimum Moisture Content		0.0%	0.0%	0.0%	2.0% wet	2.5% wet	2.0% wet
Density Ratio (R_{HD})	*%*	**98.5**	**98.5**	**98.5**	**98.5**	**99.5**	**98.0**

Material description

No 1 - 6 Clay Fill

AVRLOT HILF V1.10 MAR 13

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	20385
		Report No	20385/R002
		Date Issued	22/02/2021
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AC
Project	REDSTONE HILL - STAGE 1	*Date tested*	25/11/20
Location	SUNBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 12:01

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**7**	-	-	-	-	-
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	*mm*	175	-	-	-	-	-
Field wet density	*t/m³*	1.97	-	-	-	-	-
Field moisture content	*%*	20.5	-	-	-	-	-

Test procedure AS 1289.5.7.1

Test No		7	-	-	-	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	*mm*	19.0	-	-	-	-	-
Percent of oversize material	*wet*	0	-	-	-	-	-
Peak Converted Wet Density	*t/m³*	2.01	-	-	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	23.0	-	-	-	-	-

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

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

Material description

No 7 - 7 Clay Fill

AVRLOT HILF V1.10 MAR 13

NATA

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