



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

22nd December 2016

Our Reference: 16306:GB094

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
CORNERSTONE ESTATE – STAGE 1, WYNDHAM VALE**

Please find attached our Report Nos 16306/R001 to 16306/R003 that 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 late June 2016 and was completed in mid December 2016.

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).

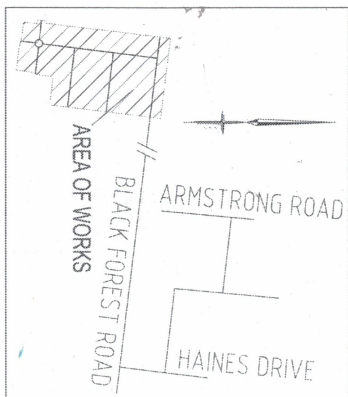
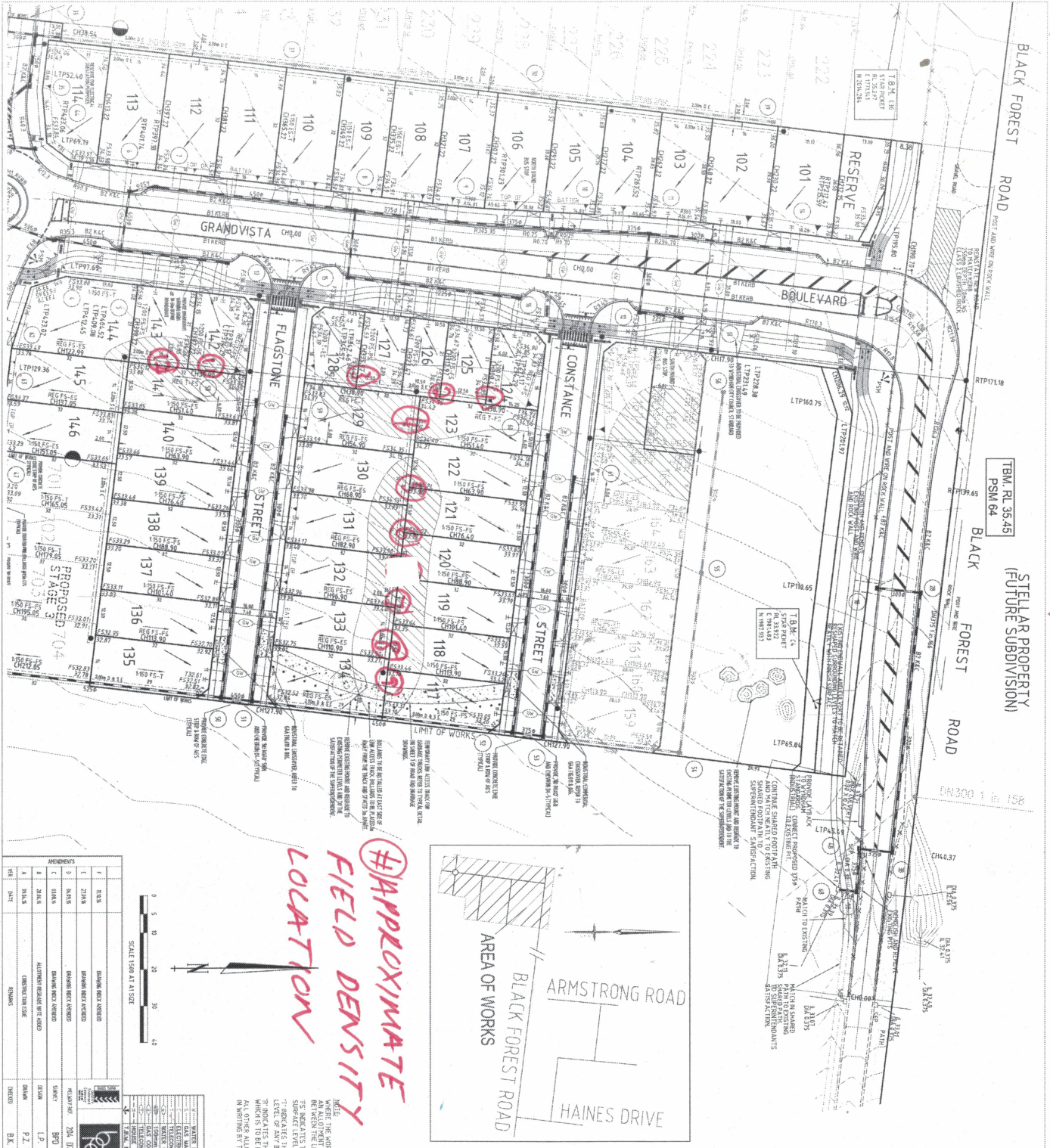
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Griffin Brown

FIGURE 1

TBM RL 35.45
PSM 64
STELLAR PROPERTY
(FUTURE SUBDIVISION)



SHT. No.	YEAR	DRAWING DESCRIPTION	INDEX
1	F	LAYOUT PLAN SHEET 1 OF 5	
2	F	LAYOUT PLAN SHEET 2 OF 5	
3	F	LAYOUT PLAN SHEET 3 OF 5	
4	A	LAYOUT PLAN SHEET 4 OF 5	
5	A	LAYOUT PLAN SHEET 5 OF 5	
6	C	TYPICAL SECTIONS GENERAL NOTES & INSTALLATIONS DETAILS SHEET 1 OF 2	
7	A	TYPICAL SECTIONS GENERAL NOTES & INSTALLATIONS DETAILS SHEET 1 OF 2	
8	A	INTERSECTION DETAILS - SHEET 1 OF 4	
9	A	INTERSECTION DETAILS - SHEET 2 OF 4	
10	A	INTERSECTION DETAILS - SHEET 3 OF 4	
11	A	INTERSECTION DETAILS - SHEET 4 OF 4	
12	A	BLACKBERRY ROAD - LONGITUDINAL SECTION 1 OF 2	
13	A	BLACKBERRY ROAD - LONGITUDINAL SECTION 2 OF 2	
14	A	BLACKBERRY ROAD - CROSS SECTIONS SHEET 1 OF 3	
15	A	BLACKBERRY ROAD - CROSS SECTIONS SHEET 2 OF 3	
16	A	BLACKBERRY ROAD - CROSS SECTIONS SHEET 3 OF 3	
17	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION 1 OF 2	
18	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION 2 OF 2	
19	A	GRANDVISTA BOULEVARD - CROSS SECTIONS SHEET 1 OF 5	
20	A	GRANDVISTA BOULEVARD - CROSS SECTIONS SHEET 2 OF 5	
21	A	GRANDVISTA BOULEVARD - CROSS SECTIONS SHEET 3 OF 5	
22	A	GRANDVISTA BOULEVARD - CROSS SECTIONS SHEET 4 OF 5	
23	A	GRANDVISTA BOULEVARD - CROSS SECTIONS SHEET 5 OF 5	
24	A	CONSTANCE STREET - LONGITUDINAL SECTION	
25	A	CONSTANCE STREET - CROSS SECTIONS SHEET	
26	A	FLAGSTONE STREET - LONGITUDINAL SECTION	
27	A	FLAGSTONE STREET - CROSS SECTIONS SHEET	
28	A	ARMSTRONG DRIVE - LONGITUDINAL SECTION	
29	A	ARMSTRONG DRIVE - CROSS SECTIONS	
30	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 1 OF 10	
31	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 2 OF 10	
32	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 3 OF 10	
33	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 4 OF 10	
34	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 5 OF 10	
35	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 6 OF 10	
36	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 7 OF 10	
37	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 8 OF 10	
38	A	GRANDVISTA BOULEVARD - LONGITUDINAL SECTION - SHEET 9 OF 10	
39	D	GRANDVISTA BOULEVARD - SHEET 10 OF 10	
40	B	ARMSTRONG DRIVE - SHEET 1 OF 2	
41	D	ARMSTRONG DRIVE - SHEET 2 OF 2	
42	A	SHARED PATH CONNECTION DETAIL	

#APPROXIMATE
FIELD DENSITY
LOCATION



LEGEND

PROPOSED STAGE 1	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 2	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 3	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 4	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 5	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 6	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 7	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 8	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 9	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 10	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 11	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 12	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 13	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 14	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 15	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 16	27% EXISTING SURFACE LEVEL
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PROPOSED STAGE 35	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 36	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 37	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 38	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 39	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 40	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 41	27% EXISTING SURFACE LEVEL
PROPOSED STAGE 42	27% EXISTING SURFACE LEVEL

NO.	DATE	REVISIONS
1	2018	ISSUE FOR PERMIT
2	2018	ISSUE FOR PERMIT
3	2018	ISSUE FOR PERMIT
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41	2018	ISSUE FOR PERMIT
42	2018	ISSUE FOR PERMIT

breese pft dixon py llc
land surveyors and engineers
CORNERSTONE ESTATE
STAGE 1
LAYOUT PLAN SHEET 1 OF 5

WYNDHAM
8890 E
1 OF 42

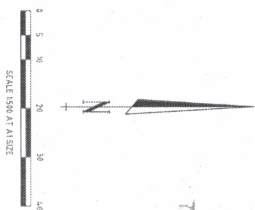
FIGURE 1



APPROXIMATE FIELD DENSITY LOCATION

SERVICES OFFSETS & LOCATIONS

STREET NAME	ROAD RESERVE	WATER	GAS	ELECTRICITY	NBN	BACK OF YARD	JOINT THINKING
GRANDVISTA BOULEVARD	35.0	33.5	22.5	2.6	1.0	4.5	W.A.E.1.1
ANGLEWOOD DRIVE	35.0	33.5	22.5	2.6	1.0	4.5	W.A.E.1.1
GRANDVISTA BOULEVARD	35.0	33.5	22.5	2.6	1.0	4.5	W.A.E.1.1
ANGLEWOOD DRIVE	35.0	33.5	22.5	2.6	1.0	4.5	W.A.E.1.1
GRANDVISTA BOULEVARD	35.0	33.5	22.5	2.6	1.0	4.5	W.A.E.1.1
ANGLEWOOD DRIVE	35.0	33.5	22.5	2.6	1.0	4.5	W.A.E.1.1



NOTE: THE WORKS SET TO BE DONE IN THIS AREA IS THE WORK OF OTHER BOUNDARY THAT IS TO BE GRADUALLY BETWEEN THE LEVELS INDICATED UNLESS OTHERWISE STATED. THE GRADING IS TO COMMENCE FROM THE FINISHED LEVEL INDICATED UNLESS OTHERWISE STATED. THE GRADING IS TO COMMENCE FROM THE TOP OF THE LEVEL OF ANY BATTERY AT THE FRONT OF THE PROPERTY. THE GRADING IS TO COMMENCE FROM A BOUNDARY LEVEL UNLESS OTHERWISE STATED. ALL OTHERS ARE TO BE DETERMINED BY THE SURVEYOR.

LEGEND

1. WATER MAIN	2. PROPOSED ELECTRICITY	3. 27% EXISTING SURFACE LEVEL
4. GAS MAIN	4. EXISTING CONCRETE	4. EXISTING CONCRETE
5. 15% EXISTING SURFACE LEVEL	5. EXISTING CONCRETE	5. EXISTING CONCRETE
6. 10% EXISTING SURFACE LEVEL	6. EXISTING CONCRETE	6. EXISTING CONCRETE
7. 5% EXISTING SURFACE LEVEL	7. EXISTING CONCRETE	7. EXISTING CONCRETE
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ADJUSTMENTS	1. 2018	2. 2019	3. 2020	4. 2021	5. 2022	6. 2023	7. 2024	8. 2025	9. 2026	10. 2027	11. 2028	12. 2029	13. 2030
1. 2018													
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12. 2029													
13. 2030													

breese pitt dixon Pty Ltd
 land surveyors & civil engineers
 CORNERSTONE ESTATE
 STAGE 1
 LAYOUT PLAN SHEET &
 SERVICE OFFSET TABLE 2 OF 5
 SCALE: AS SHOWN
 SHEET 2 OF 42
 WYNDHAM
 173 GPO Street
 WYNDHAM VIC 3207
 Tel: 08 8202 2300
 Fax: 08 8202 2300



COMPACTION ASSESSMENT

Job No 16306
 Report No 16306/R001
 Date Issued 07/07/16

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	NB
Project	CORNERSTONE - STAGE 1	Date tested	30/06/16
Location	WYNDHAM VALE	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 10:27
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	-	-
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	1.81	1.82	1.79	1.78	-	-
Field moisture content %	26.2	32.5	34.3	35.6	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	-	-
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	1.81	1.82	1.77	1.77	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	28.5	31.5	35.0	36.0	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	1.0% wet	0.5% dry	0.5% dry	-	-
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Density Ratio (R _{HD})	%	100.0	100.0	101.5	101.0	-	-
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Material description

No 1 - 4 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 16306
 Report No 16306/R002
 Date Issued 14/12/16

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	CORNERSTONE - STAGE 1	Date tested	06/12/16
Location	WYNDHAM VALE	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 10:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	5	6	7	8	9	10
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	1.84	1.82	1.86	1.82	1.81	1.88
Field moisture content %	19.4	13.4	13.2	16.2	9.6	16.5

Test procedure AS 1289.5.7.1

Test No	5	6	7	8	9	10
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/m ³	1.80	1.83	1.83	1.82	1.82	1.83
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	20.5	15.5	14.5	18.0	11.0	18.0

Moisture Variation From Optimum Moisture Content	1.0% dry	2.5% dry	1.5% dry	2.0% dry	2.0% dry	1.5% dry
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Density Ratio (R _{HD})	%	102.0	100.0	101.5	100.0	99.5	102.5
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Material description

No 5 - 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 16306
 Report No 16306/R003
 Date Issued 22/12/16

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	CORNERSTONE - STAGE 1	Date tested	06/12/16
Location	WYNDHAM VALE	Checked by	JHF

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	11	12	13	14	-	-
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	1.84	1.81	1.86	1.82	-	-
Field moisture content %	12.0	11.8	19.8	15.2	-	-

Test procedure AS 1289.5.7.1

Test No	11	12	13	14	-	-
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	1.83	1.85	1.85	1.80	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	13.0	12.5	20.5	16.5	-	-

Moisture Variation From Optimum Moisture Content	1.0% dry	0.5% dry	0.5% dry	1.5% dry	-	-
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Density Ratio (R _{HD})	%	100.5	98.0	100.5	101.5	-	-
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Material description

No 11 - 14 Clay Fill



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