

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

21st September 2020

Our Reference: 20042:NB811

Montdami Pty Ltd 2b Kirkham Road DANDENONG SOUTH VIC 3175

Dear Sirs / Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING STONEFIELDS – STAGE 1 (WOLLERT)

Please find attached our Report No's 20042/R001 to 20042/R006 which relate to the field density testing that was conducted within the filled allotments of the above subdivision. The level 1 inspections and associated field density testing commenced in March 2020 and was completed in January 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 Montdami during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

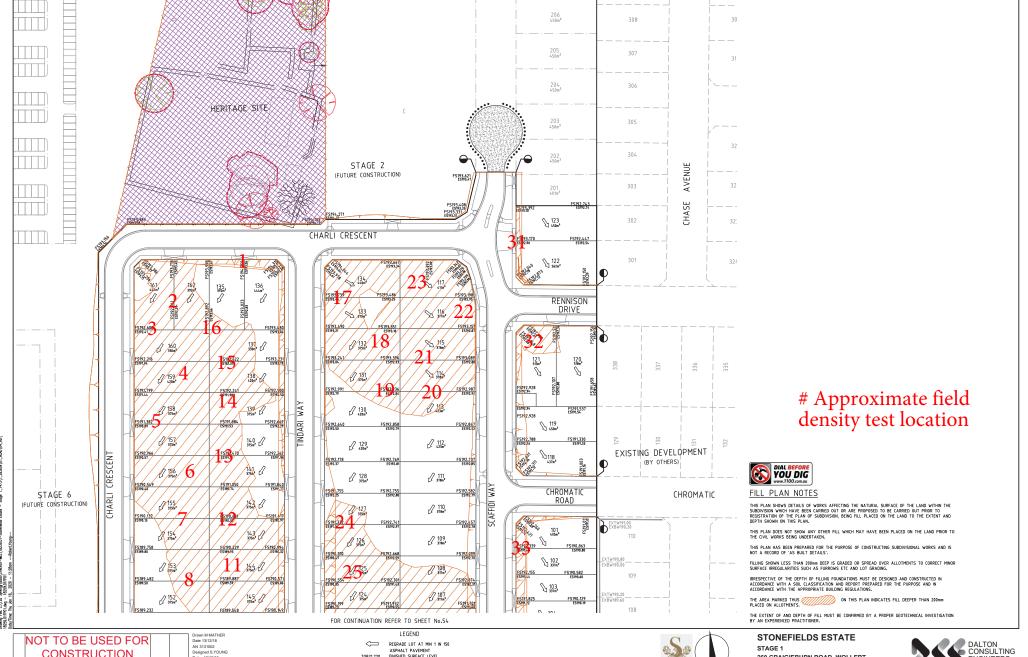
We are of the view that the bulk fill materials that have been placed across the reported allotments by Montdami during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1 (1 of 2)





Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site, Discrepancies to be brought to the attention of the Superintendent.

Designed S.YOUNG Date 10/12/18 AN 2651062 Verified R.MASON Date 15/03/19 AN 705203

EXISTING SURFACE LEVEL FINISHED SURFACE LEVEL FILLING OVER 200mm





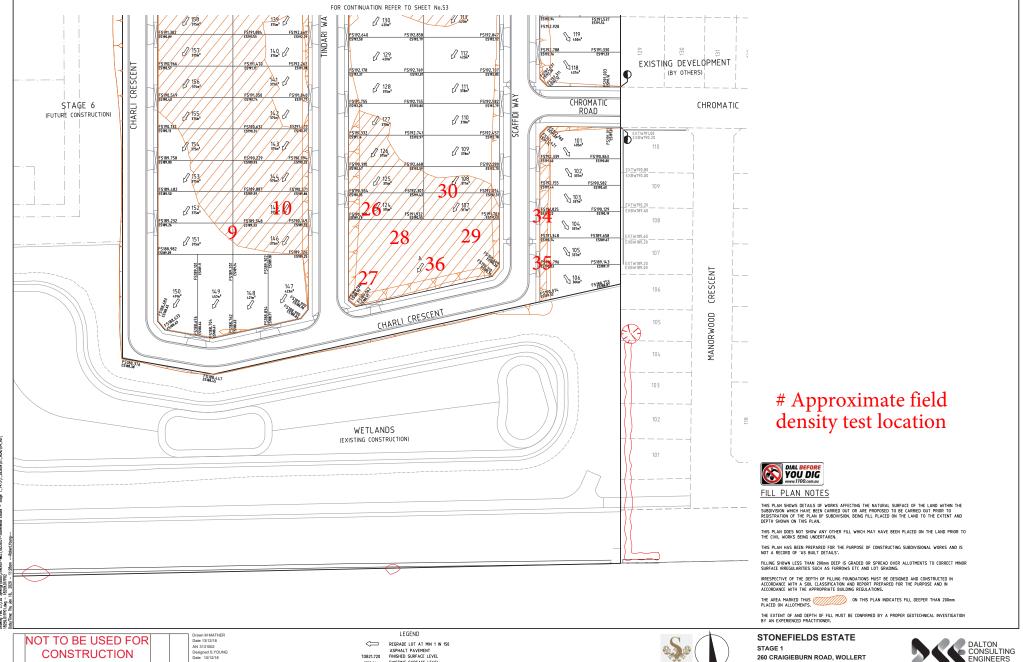
FILL PLAN SHEET 01 OF 02

Drawing No. 18259.01FP01 Rev D 30m Sheet No. 47 PRELIMINARY



ABN 78 429 221 049 QUEENSLAND T 61 7 3374 9000 E info@dceng.com.au

FIGURE 1 (2 of 2)





AMENDMENTS Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site, Discrepancies to be brought to the attention of the Superintendent.

Designed S.YOUNG Date 10/12/18 AN 2651062 Verified R.MASON Date 15/03/19 AN 705203

EXISTING SURFACE LEVEL FINISHED SURFACE LEVEL FILLING OVER 200mm BATTER



260 CRAIGIEBURN ROAD, WOLLERT FILL PLAN

SHEET 02 OF 02 Drawing No. 18259.01FP02 Rev D

30m Sheet No. 48 PRELIMINARY



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Job No 20042 CIVIL GEOTECHNICAL SERVICES Report No 20042/R001 Date Issued 20/05/2020 6 - 8 Rose Avenue, Croydon 3136 MONTDAMI PTY LTD (DANDENONG) Client Tested by AC Project STONEFIELDS - STAGE 1 Date tested 31/03/20 Location **WOLLERT** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:59

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	4	5	6
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	ТО	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.84	1.83	1.84	1.83	1.83	1.82
Field moisture content	%	25.9	27.2	26.4	26.1	26.4	25.5

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
Compactive effort				Stan	dard		
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	1.87	1.86	1.88	1.89	1.88	1.88
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	28.5	27.0	26.5	28.5	26.5	28.0

Moisture Variation From	2.5%	0.0%	0.0%	2.5%	0.0%	2.5%
Optimum Moisture Content	dry			dry		dry

Density Ratio (R _{HD}) %	98.5	98.5	98.0	97.0	97.5	97.0

Material description

No 1 - 6 Clay Fill

NATA do

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



 CIVIL GEOTECHNICAL SERVICES
 Job No
 20042

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 20042/R002

 Client
 MONTDAMI CONSTRUCTIONS PTY LTD (DANDENONG)
 Tested by
 AC

ProjectSTONEFIELDS - STAGE 1Date tested14/04/20LocationWOLLERTChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:08

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		7	8	9	10	11	12
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.82	1.87	1.81	1.81	1.82	1.82
Field moisture content	%	24.7	27.1	25.8	24.4	23.5	21.6

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	11	12
Compactive effort				Star	ndard		
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	1.89	1.94	1.87	1.85	1.89	1.83
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	26.5	27.0	28.5	27.0	24.0	24.0

Moisture Variation From	1.5%	0.0%	2.5%	2.5%	0.5%	2.5%
Optimum Moisture Content	dry		dry	dry	dry	dry

Density Ratio (R _{HD})	%	96.5	96.5	97.0	98.0	96.5	99.5

Material description

No 7 - 12 Clay Fill

NATA

AVRLOT HILF V1.10 MAR 13

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 CIVIL GEOTECHNICAL SERVICES
 Job No
 20042

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 20042/R003

 Date Issued
 11/06/2020

ClientMONTDAMI PTY LTD (DANDENONG)Tested byACProjectSTONEFIELDS - STAGE 1Date tested15/04/20LocationWOLLERTChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:32

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		13	14	15	16	17	18
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.81	1.79	1.81	1.78	1.78	1.79
Field moisture content	%	30.3	27.7	28.0	29.9	29.4	27.6

Test procedure AS 1289.5.7.1

Test No		13	14	15	16	17	18
Compactive effort				Star	ndard		
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	1.89	1.87	1.89	1.86	1.87	1.88
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	30.5	30.5	30.5	30.0	31.5	30.0

Moisture Variation From	0.0%	2.5%	2.5%	0.0%	2.0%	2.5%
Optimum Moisture Content		dry	dry		dry	dry

Density Ratio (R _{HD})	%	95.5	95.5	95.5	96.0	95.5	95.5

Material description

No 13 - 18 Clay Fill

NATA

AVRLOT HILF V1.10 MAR 13

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Accreditation No 9909



 CIVIL GEOTECHNICAL SERVICES
 Job No
 20042

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 20042/R004

 Client
 MONTDAMI PTY LTD (DANDENONG)
 Tested by
 AC

ProjectSTONEFIELDS - STAGE 1Date tested05/05/20LocationWOLLERTChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:29

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		19	20	21	22	23	24
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.89	1.87	1.88	1.90	1.93	1.89
Field moisture content	%	30.3	35.3	34.9	32.6	35.2	32.9

Test procedure AS 1289.5.7.1

Test No		19	20	21	22	23	24
Compactive effort				Stan	ndard		
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	1.91	1.90	1.90	1.93	1.93	1.93
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	28.0	33.0	32.5	30.5	33.0	31.0

Moisture Variation From	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	99.0	98.0	99.0	98.5	100.0	98.0

Material description

No 19 - 24 Clay Fill

NATA

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 20042

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 20042/R005

 Date Issued
 22/06/2020

ClientMONTDAMI PTY LTD (DANDENONG)Tested byACProjectSTONEFIELDS - STAGE 1Date tested13/05/20LocationWOLLERTChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:28

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		25	26	27	28	29	30
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.82	1.81	1.81	1.81	1.77	1.80
Field moisture content	%	32.3	30.5	36.8	37.0	37.7	33.5

Test procedure AS 1289.5.7.1

Test No		25	26	27	28	29	30
Compactive effort				Star	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	4	0	4	5	5	3
Peak Converted Wet Density	t/m³	1.82	1.81	1.79	1.79	1.76	1.78
Adjusted Peak Converted Wet Density	t/m³	1.84	-	1.81	1.81	1.78	1.80
Optimum Moisture Content	%	30.0	28.5	35.5	35.0	36.0	31.5

Moisture Variation From	2.0%	2.0%	1.5%	2.0%	1.5%	2.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	99.5	100.0	100.5	100.0	99.0	100.0

Material description

No 25 - 30 Clay Fill

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 CIVIL GEOTECHNICAL SERVICES
 Job No
 20042

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 20042/R006

 Date Issued
 21/07/2020

ClientMONTDAMI CONSTRUCTIONS PTY LTD (DANDENONG)Tested byACProjectSTONEFIELDS - STAGE 1Date tested16/06/20LocationWOLLERTChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:02

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		31	32	33	34	35	36
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.99	1.99	2.01	1.98	1.91	1.88
Field moisture content	%	24.6	25.0	24.8	24.6	26.3	28.5

Test procedure AS 1289.5.7.1

Test No		31	32	33	34	35	36
Compactive effort				Stan	dard		
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	2.01	2.02	2.03	2.01	1.89	1.91
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	24.5	27.5	25.0	27.0	26.5	28.5

Moisture Variation From	0.0%	2.5%	0.0%	2.5%	0.0%	0.0%
Optimum Moisture Content		dry		dry		

	_						
Density Ratio (R _{HD}) %	ó	99.0	98.5	99.0	98.5	101.0	98.0

Material description

No 31 - 36 Clay Fill

NATA

AVRLOT HILF V1.10 MAR 13

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