

**A LEVEL 1 REPORT**

**ON THE FILLING**

**AT**

**HONOUR VILLAGE ESTATE**

**STAGE 6**

**CLYDE NORTH**

**2210348-98**

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TEST REPORTS & PLANS

**REPORT No** : 2210348-98

**CLIENT** : Todd Hyland  
Senior Development Manager  
[todd.hyland@frasersproperty.com.au](mailto:todd.hyland@frasersproperty.com.au)  
c/- Australand Residential No 156 Pty Ltd  
PO Box 3307  
Rhodes NSW 2138

**AUTHORIZED BY** : Mr Todd Hyland

**PROJECT LOCATION** : Honour Village Estate – Stage 6, CLYDE NORTH

**COMMISSION** : Carry out all appropriate inspections and testing at the site to ensure that the fill is placed in accordance with the project specifications. At the end of the works, compile a report – LEVEL ONE TYPE REPORT AS PER SECTION 8 OF AS3798 – setting out the findings of all inspections, instructions issued and test results, including any failure results and what action was taken to rectify any failure.

**1. SITE DESCRIPTION:**

Stripping and placement of compacted fill in Stage 6.

**2. PREVIOUS GEOTECHNICAL INVESTIGATIONS ON THE SITE:**

Not Supplied

**3. DOCUMENTS SUPPLIED:**

Reeds Consulting - Site Plan - Ref: 22344P, Version N

**4. SITE PREPARATION REQUIREMENTS:**

**4.1 Site Stripping Requirements**

Fill area to be stripped of vegetation and topsoil prior to filling.

**4.2 Subgrade Assessment Requirements**

Any soft, weak or unstable areas of subgrade exposed to be removed.

**5. REQUIREMENTS FOR THE PLACEMENT OF COMPACTED EARTH FILL:**

**5.1 Layer Thickness**

Fill shall be placed in 300mm compacted layers.

**5.2 Density Requirements**

95% Standard compaction

**5.3 Moisture Content Requirements**

No moisture requirements specified.

**5.4 Type of Tests Required**

Compaction (AS1289 5.7.1 & 2.1.1)

**5.5 Number of Test Required**

Compaction: Minimum of 1 test per 500m<sup>3</sup>.

**6. THE PERIOD OVER WHICH THE WORK WAS CARRIED OUT**

Inspections and testing of the project was carried out between 14/05/2019 to 24/10/2019.

**7. EQUIPMENT USED:**

Excavator  
Pad Foot Roller  
Compactor  
Dump Truck  
Water Cart

**8. EARTHWORKS SUMMARY:**

**8.1 Description of Earthworks Undertaken**

Fill area was backfilled and compacted with onsite Pad Foot Roller or Compactor in 300mm layers.

**8.2 Observation of Stripping and Site Preparation**

Fill areas observed were excavated to the naturally occurring silty CLAY prior to the placement of fill.

**8.3 Observation of Fill Materials**

The fill material was a site derived silty CLAY

**8.4 Tests Carried Out**

A total of 52 compaction tests (Hilf Rapid Method) were undertaken on the compacted earth fill of which 1 test failed to achieve the specified compaction requirements, this area was reworked and retested while the earthworks were being undertaken.

**8.5 Results of Testing**

The compaction results show that compacted fill was placed and compacted at a density between 95.5% and 102.5% of AS1289 5.7.1 Standard Compaction.

**9. CONCLUSION:**

Civiltest carried out supervision, inspections and testing on this project in a manner that would allow this level one type report to be completed as set out in Section 8 of AS3798 "Guidelines on earthworks for commercial and residential developments".

With the observations made during the works and the results of tests carried out, it has been concluded, as far as can be determined, that the contractor Bayport Civil Pty Ltd has met the requirements of the project.



**Phil Morgans**  
**CIVILTEST PTY LTD**

15 June 2022

**REF:** PM/ik

## **APPENDIX A**

### **TEST REPORTS & PLAN**

# Material Test Report

**Report Number:** 1190228-12  
**Issue Number:** 2 - This version supersedes all previous issues  
**Date Issued:** 22/05/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 3595  
**Date Sampled:** 14/05/2019 9:30  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Remarks:** Sites selected by Civiltest

Civiltest Pty Ltd  
 Mornington Laboratory  
 10 Latham Street Mornington Vic 3931  
 Phone: (03) 5975 6644  
 Fax: (03) 5975 9589  
 Email: scott.walsh@civilttest.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Scott Walsh  
 Lab Manager

NATA Accredited Laboratory Number: 1407

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	191-3595A	191-3595B	191-3595C	191-3595D
Date Tested	14/05/2019	14/05/2019	14/05/2019	14/05/2019
Time Tested	09:50	10:00	10:10	10:20
Test Request #/Location	See plan Re-Test 191-3584B	See plan	See plan	See plan
Chainage (m)	**	**	**	**
Location Offset (m)	**	**	**	**
Layer / Reduced Level	1.3m Below F.S	0.5m Below F.S	0.5m Below F.S	0.5m Below F.S
Thickness of Layer (mm)	300	300	300	300
Soil Description	CLAY silty	CLAY silty	CLAY silty	CLAY silty
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	2.00	1.99	2.02	2.01
Field Moisture Content %	21.2	21.8	21.7	23.0
Field Dry Density (FDD) t/m <sup>3</sup>	1.65	1.64	1.66	1.63
Peak Converted Wet Density t/m <sup>3</sup>	2.03	2.03	2.06	2.05
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	111.0	110.5	111.5	110.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	-2.0	-2.0	-2.0	-2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	<b>98.5</b>	<b>98.0</b>	<b>98.5</b>	<b>98.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

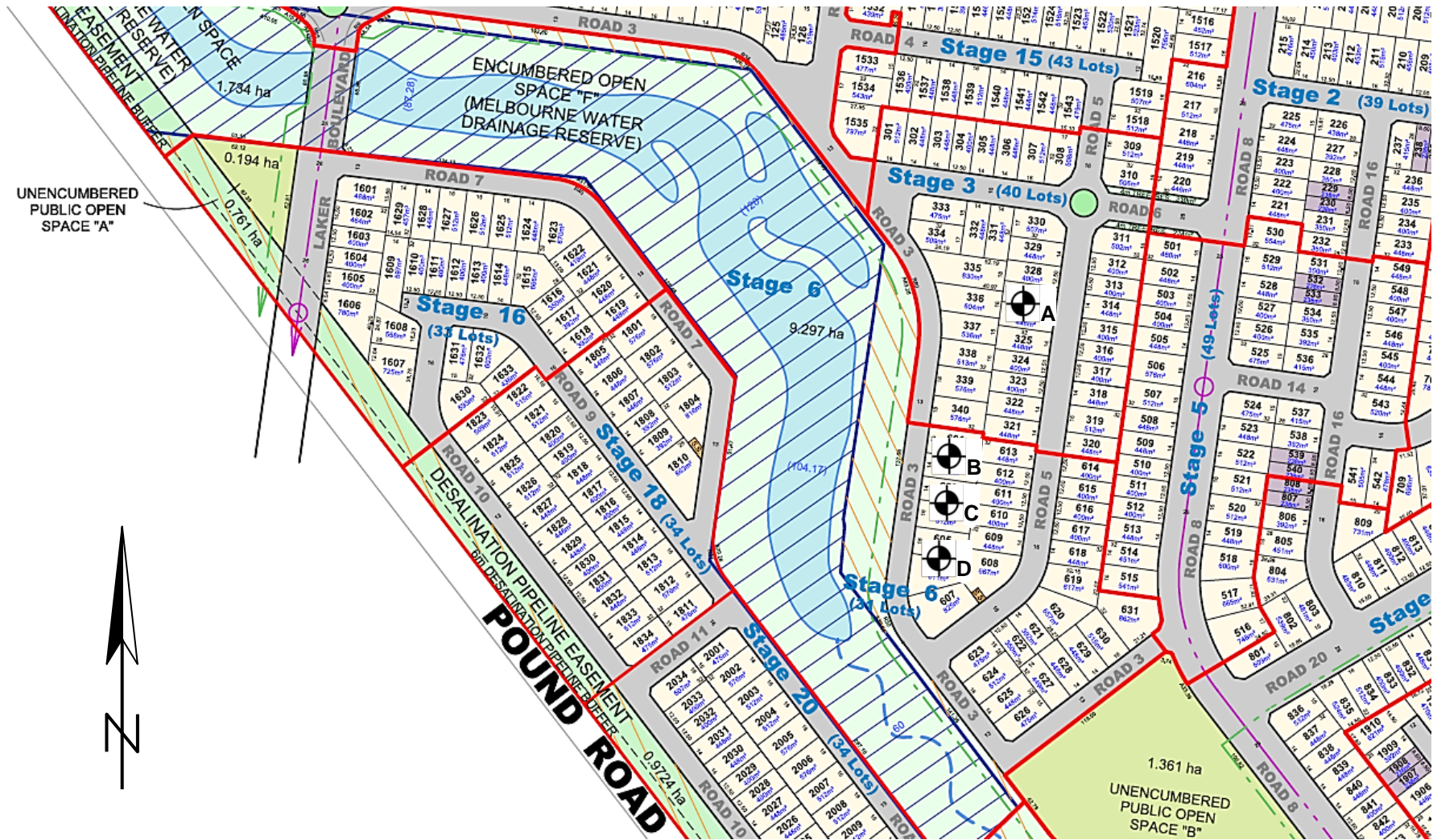
**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH

Report No: 1190228-12  
Plan 1 of 1



⊕ Denotes Test Locations

**NOT TO SCALE**

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

# Material Test Report

**Report Number:** 1190228-30  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** PLAN  
**Date Issued:** 22/07/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 4007  
**Date Sampled:** 16/07/2019 14:10  
**Dates Tested:** 16/07/2019 - 18/07/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Remarks:** Location information provided by client  
**Specification:** 95% Standard  
**Material Source:** Site derived

Civiltest Pty Ltd  
 Mornington Laboratory  
 10 Latham Street Mornington Vic 3931  
 Phone: (03) 5975 6644  
 Fax: (03) 5975 9589  
 Email: scott.walsh@civilttest.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Scott Walsh  
 Lab Manager

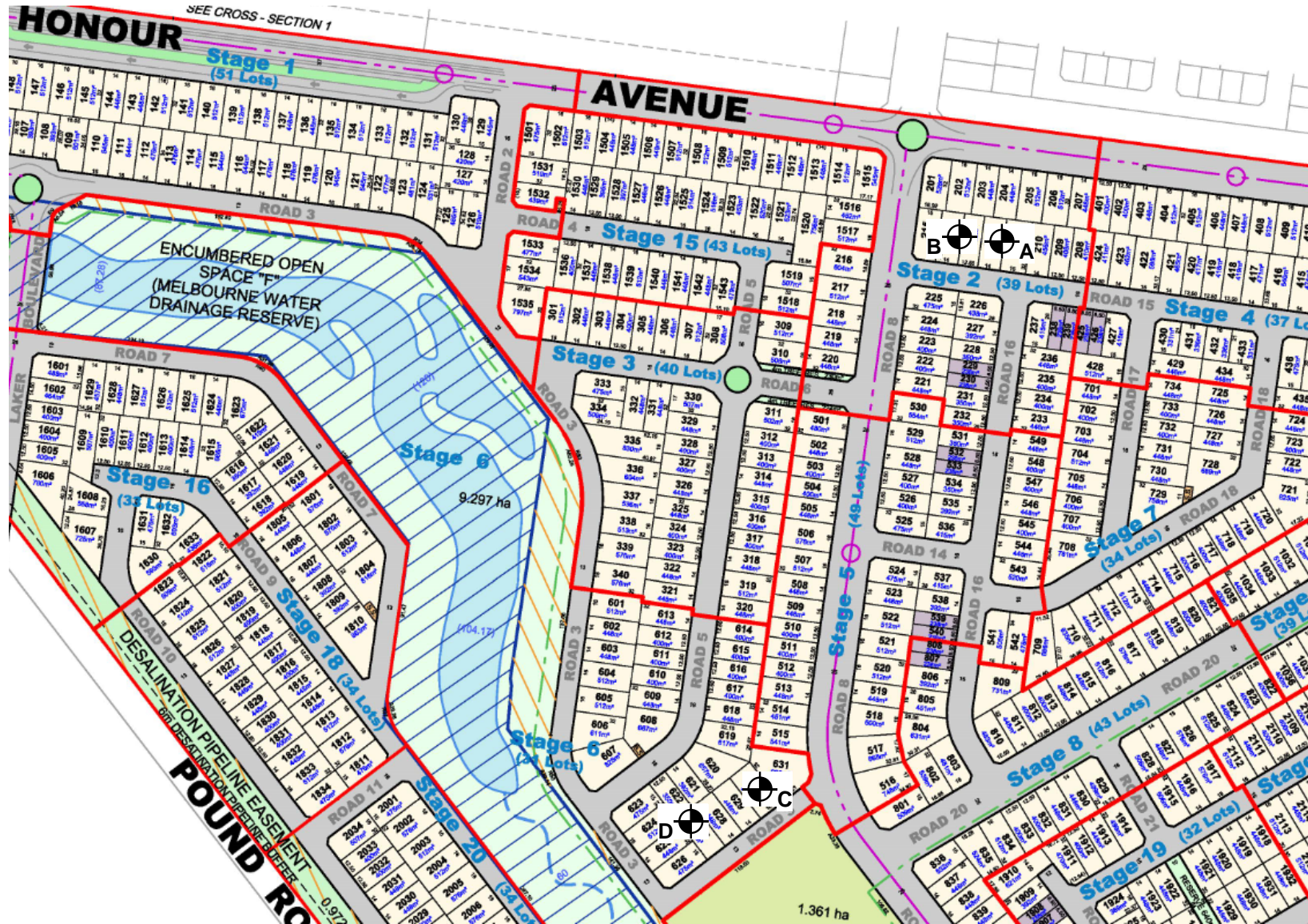
NATA Accredited Laboratory Number: 1407

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	191-4007A	191-4007B	191-4007C	191-4007D
Date Tested	16/07/2019	16/07/2019	16/07/2019	16/07/2019
Time Tested	14:30	14:35	14:47	14:54
Test Request #/Location	See Plan	See Plan	See Plan	See Plan
Chainage (m)	**	**	**	**
Location Offset (m)	**	**	**	**
Layer / Reduced Level	1.5m below F.S.	1.5m below F.S.	0.7m below F.S.	0.6m below F.S.
Thickness of Layer (mm)	300	300	300	300
Soil Description	CLAY silty	CLAY silty	CLAY silty	CLAY silty
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	1.97	1.97	1.96	2.01
Field Moisture Content %	28.5	28.0	28.8	26.8
Field Dry Density (FDD) t/m <sup>3</sup>	1.53	1.54	1.52	1.58
Peak Converted Wet Density t/m <sup>3</sup>	2.05	2.00	2.05	1.99
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	113.5	113.0	114.5	113.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	-3.0	-3.0	-3.5	-3.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	<b>96.0</b>	<b>98.5</b>	<b>96.0</b>	<b>101.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



 Denotes Test Locations

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NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-35  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** plan added  
**Date Issued:** 05/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 4044  
**Date Sampled:** 23/07/2019 12:10  
**Dates Tested:** 23/07/2019 - 01/08/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Remarks:** Location information provided by client

Civiltest Pty Ltd  
 Mornington Laboratory  
 10 Latham Street Mornington Vic 3931  
 Phone: (03) 5975 6644  
 Fax: (03) 5975 9589  
 Email: scott.walsh@civilttest.com.au

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Approved Signatory: Scott Walsh  
 Lab Manager

NATA Accredited Laboratory Number: 1407

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	191-4044A	191-4044B	191-4044C	191-4044D	191-4044E	191-4044F
Date Tested	23/07/2019	23/07/2019	23/07/2019	23/07/2019	23/07/2019	23/07/2019
Time Tested	12:10	12:20	12:30	12:40	12:50	13:00
Test Request #/Location	See Plan	See Plan	See Plan	See Plan	See Plan	See Plan
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	0.6m Below F.S	1.3m Below F.S	1.5m Below F.S	1.4m Below F.S	1.5m Below F.S	1.4m Below F.S
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	1.94	1.96	1.96	1.97	1.90	1.93
Field Moisture Content %	26.1	28.5	27.0	28.7	28.3	27.9
Field Dry Density (FDD) t/m <sup>3</sup>	1.54	1.53	1.54	1.53	1.48	1.51
Peak Converted Wet Density t/m <sup>3</sup>	2.01	1.98	1.97	1.98	1.94	1.96
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	114.0	114.0	112.5	113.5	112.0	114.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	-3.0	-3.0	-3.0	-3.0	-3.0	-3.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>96.5</b>	<b>99.0</b>	<b>99.0</b>	<b>99.5</b>	<b>98.0</b>	<b>98.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 1190228-35  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** plan added  
**Date Issued:** 05/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 4044  
**Date Sampled:** 23/07/2019 12:10  
**Dates Tested:** 23/07/2019 - 01/08/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Remarks:** Location information provided by client

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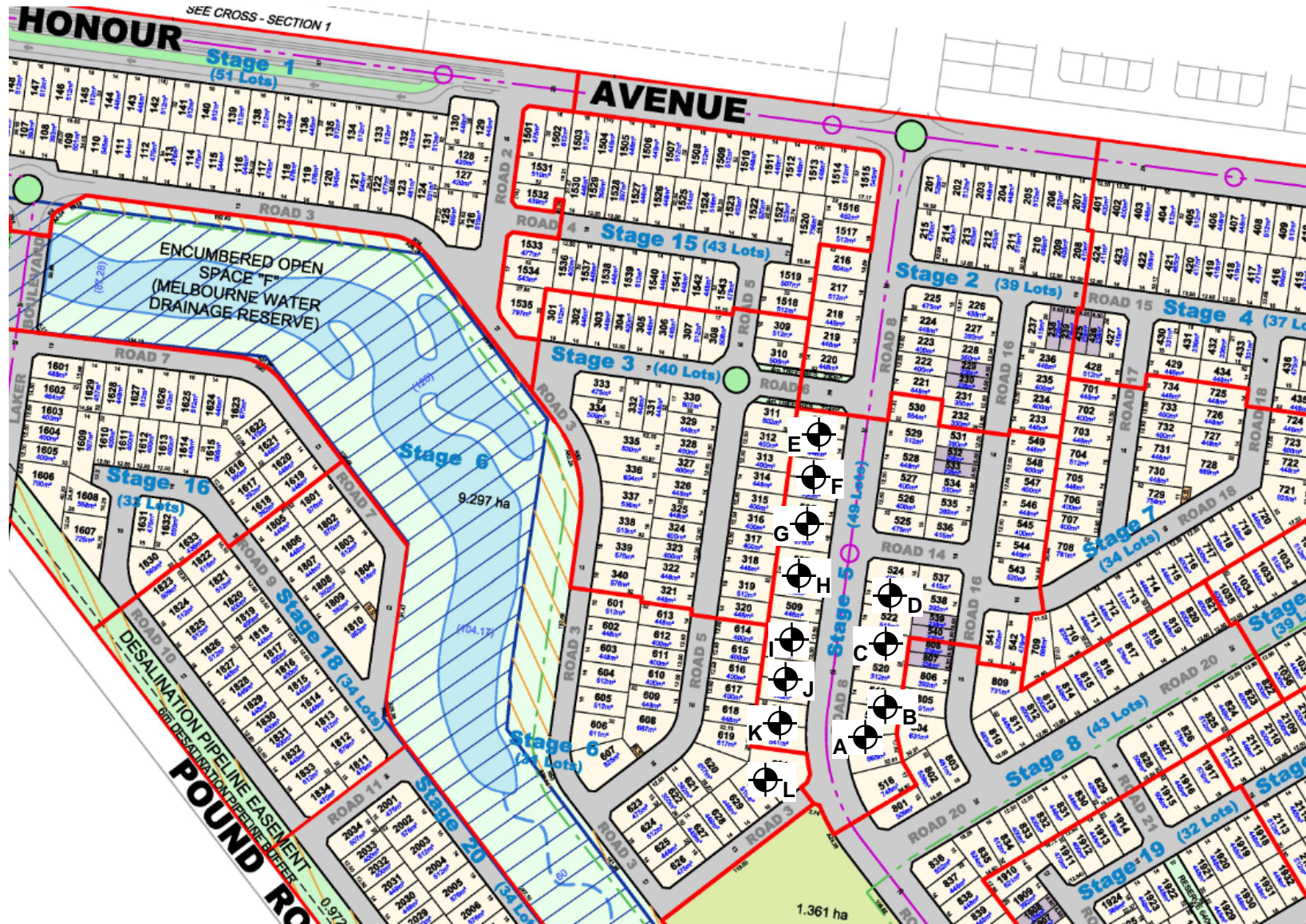
Approved Signatory: Scott Walsh  
 Lab Manager

NATA Accredited Laboratory Number: 1407

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	191-4044G	191-4044H	191-4044I	191-4044J	191-4044K	191-4044L
Date Tested	23/07/2019	23/07/2019	23/07/2019	23/07/2019	23/07/2019	23/07/2019
Time Tested	13:10	13:20	13:30	13:40	13:50	14:00
Test Request #/Location	See Plan	See Plan	See Plan	See Plan	See Plan	See Plan
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	1.4m Below F.S	1.3m Below F.S	1.0m Below F.S	0.9m Below F.S	0.9m Below F.S	1.1m Below F.S
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	1.93	1.92	1.90	1.95	1.92	1.93
Field Moisture Content %	27.1	31.2	29.0	28.4	27.3	26.9
Field Dry Density (FDD) t/m <sup>3</sup>	1.52	1.47	1.48	1.52	1.51	1.52
Peak Converted Wet Density t/m <sup>3</sup>	1.97	1.94	1.97	2.00	1.99	2.00
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	115.0	113.5	114.5	114.5	114.0	115.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	-3.5	-3.5	-3.5	-3.5	-3.0	-3.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>98.0</b>	<b>99.5</b>	<b>96.5</b>	<b>98.0</b>	<b>97.0</b>	<b>97.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



⊕ Denotes Test Locations

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NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-37  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** plan added  
**Date Issued:** 05/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 4061  
**Date Sampled:** 25/07/2019 14:00  
**Dates Tested:** 26/07/2019 - 29/07/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Remarks:** Location information provided by client

Civiltest Pty Ltd  
 Mornington Laboratory  
 10 Latham Street Mornington Vic 3931  
 Phone: (03) 5975 6644  
 Fax: (03) 5975 9589  
 Email: scott.walsh@civilttest.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Scott Walsh  
 Lab Manager

NATA Accredited Laboratory Number: 1407

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	191-4061A	191-4061B	191-4061C	191-4061D	191-4061E	191-4061F
Date Tested	25/07/2019	25/07/2019	25/07/2019	25/07/2019	25/07/2019	25/07/2019
Time Tested	14:00	14:10	14:20	14:30	14:40	14:50
Test Request #/Location	See Plan	See Plan	See Plan	See Plan	See Plan	See Plan
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	1.2m Below F.S	1.3m Below F.S	1.2m Below F.S	1.0m Below F.S	1.6m Below F.S	1.4m Below F.S
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	1.91	1.93	1.99	1.97	1.92	1.99
Field Moisture Content %	29.4	27.6	23.6	24.6	28.8	25.6
Field Dry Density (FDD) t/m <sup>3</sup>	1.47	1.51	1.61	1.58	1.49	1.58
Peak Converted Wet Density t/m <sup>3</sup>	1.96	2.02	1.99	2.01	1.98	2.01
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	116.5	114.5	115.5	116.5	113.5	114.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	-4.0	-3.0	-3.0	-3.5	-3.0	-3.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>97.0</b>	<b>96.0</b>	<b>100.0</b>	<b>98.0</b>	<b>97.0</b>	<b>99.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**  
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# Material Test Report

**Report Number:** 1190228-37  
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**Date Issued:** 05/08/2019  
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 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
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**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Remarks:** Location information provided by client

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Accredited for compliance with ISO/IEC 17025 - Testing



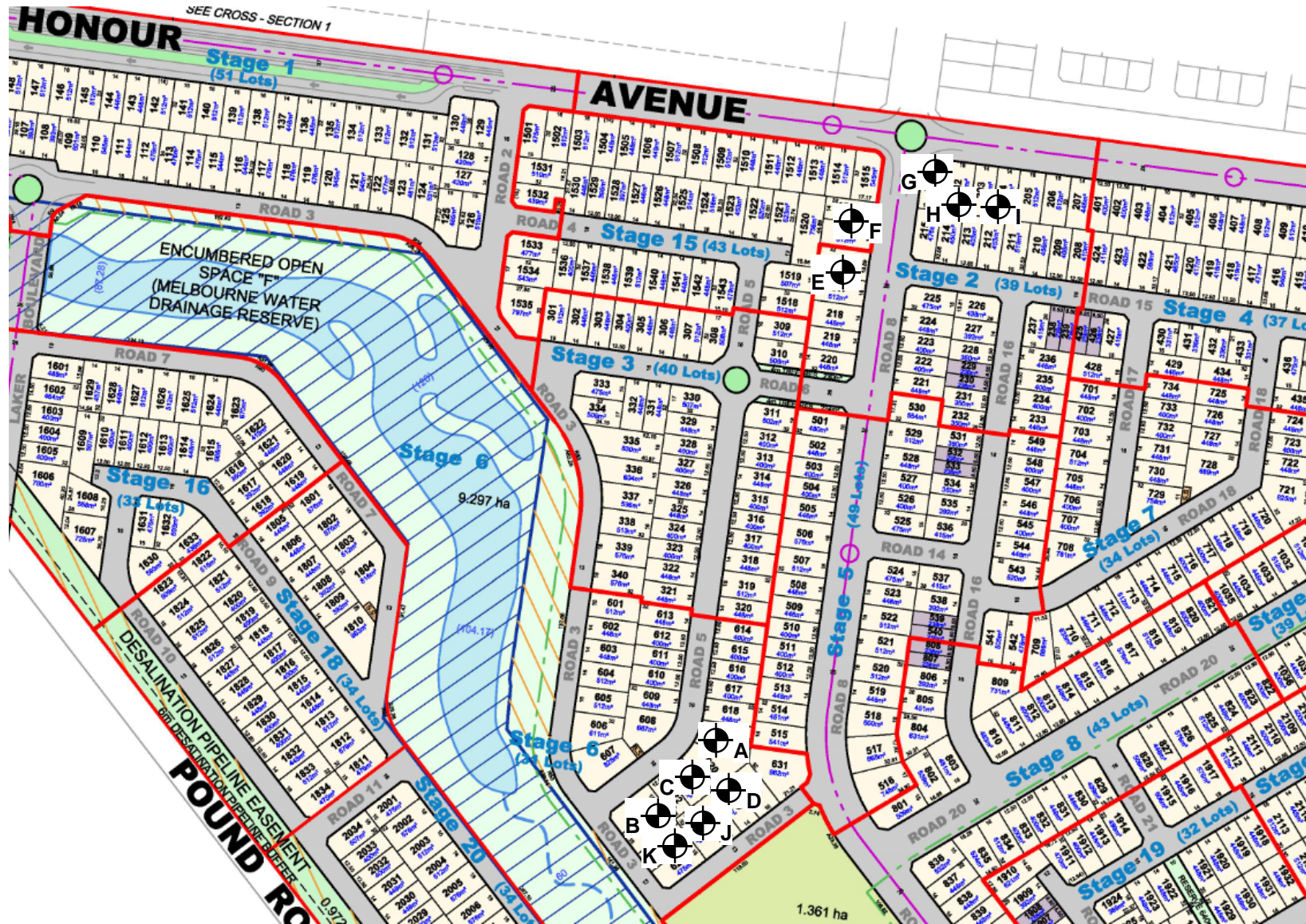
Approved Signatory: Scott Walsh  
 Lab Manager  
 NATA Accredited Laboratory Number: 1407

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	191-4061G	191-4061H	191-4061I	191-4061J	191-4061K
Date Tested	25/07/2019	25/07/2019	25/07/2019	25/07/2019	25/07/2019
Time Tested	15:00	15:10	15:20	15:30	15:40
Test Request #/Location	See Plan	See Plan	See Plan	See Plan	See Plan
Chainage (m)	**	**	**	**	**
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	1.4m Below F.S	1.5m Below F.S	1.4m Below F.S	0.9m Below F.S	1.1m Below F.S
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	1.92	1.92	1.86	1.90	1.94
Field Moisture Content %	26.6	25.7	28.1	28.4	26.1
Field Dry Density (FDD) t/m <sup>3</sup>	1.51	1.52	1.45	1.48	1.54
Peak Converted Wet Density t/m <sup>3</sup>	1.90	1.94	1.87	2.01	2.02
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	101.0	102.0	102.0	112.5	115.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	-0.5	-3.0	-3.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	<b>101.0</b>	<b>98.5</b>	<b>99.0</b>	<b>94.5</b>	<b>96.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



⊕ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-38  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 05/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 3793  
**Date Sampled:** 01/08/2019 7:30  
**Dates Tested:** 01/08/2019 - 01/08/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

Civiltest Pty Ltd  
 Mitcham Laboratory  
 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
 Phone: (03) 9874 5844  
 Email: scott.flood@civiltest.com.au

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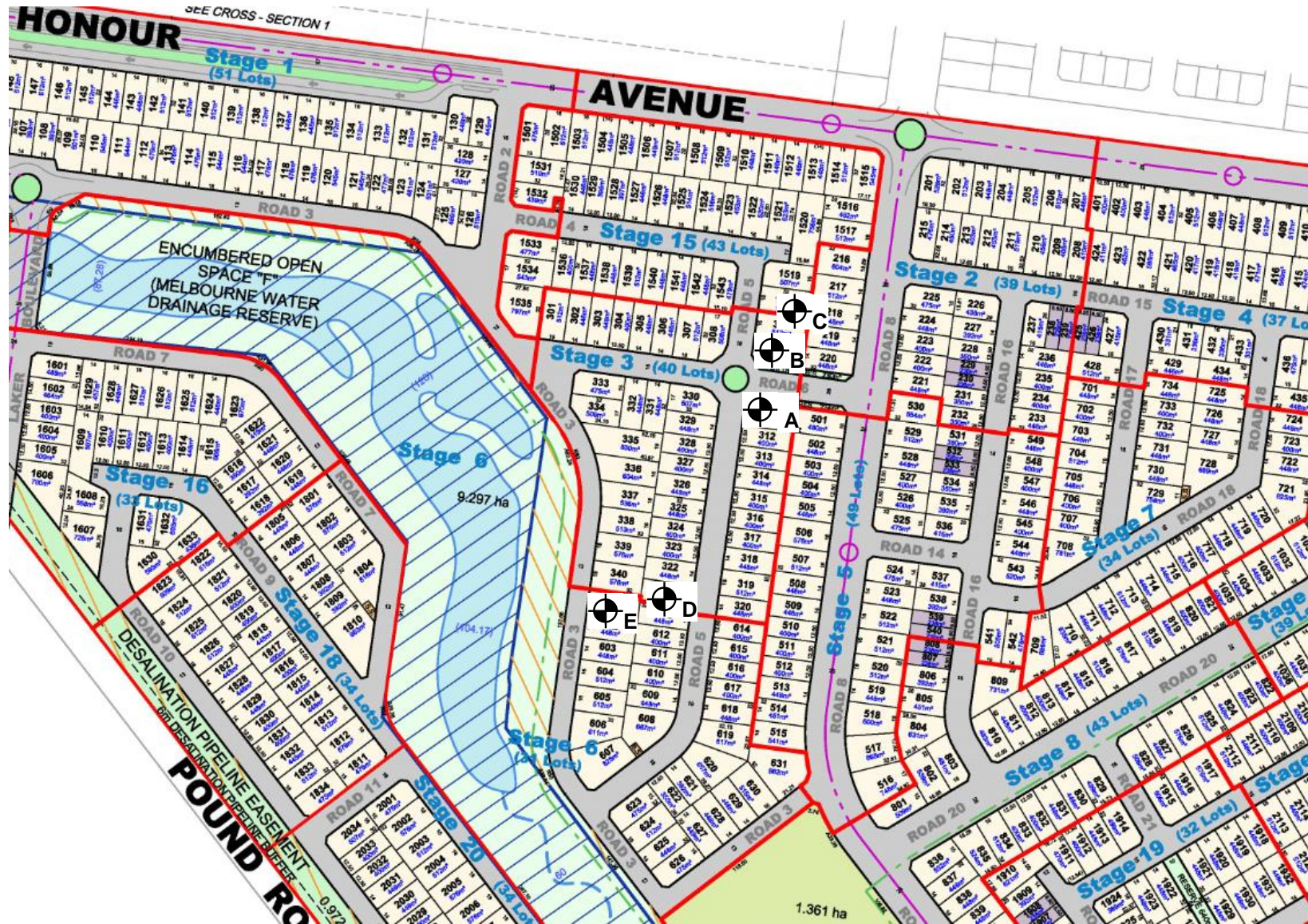
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	192-3793A	192-3793B	192-3793C	192-3793D	192-3793E
Date Tested	01/08/2019	01/08/2019	01/08/2019	01/08/2019	01/08/2019
Time Tested	07:50	08:00	08:10	08:15	08:20
Test Request #/Location	Lot 311	Lot 310	Lots 1518/309	Lots 321/613	Lot 601
Chainage (m)	**	**	**	**	**
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	1.5m Below F.S	1.9m Below F.S	1.9m Below F.S	0.8 m Below F.S	0.7 m Below F.S
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	CLAY silty	CLAY silty	CLAY silty	CLAY silty	CLAY silty
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.93	1.91	1.93	1.92	1.92
Field Moisture Content %	31.0	28.7	26.4	30.6	28.3
Field Dry Density (FDD) t/m <sup>3</sup>	1.47	1.48	1.53	1.47	1.50
Peak Converted Wet Density t/m <sup>3</sup>	1.88	1.91	1.92	1.94	1.95
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	106.0	100.0	108.0	100.5	107.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	-1.5	0.0	-2.0	0.0	-2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	<b>102.5</b>	<b>100.0</b>	<b>100.5</b>	<b>99.0</b>	<b>99.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



⊙ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-39  
**Issue Number:** 2 - *This version supersedes all previous issues*  
**Reissue Reason:** *Plan Added*  
**Date Issued:** 05/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 3775  
**Date Sampled:** 31/07/2019 8:00  
**Dates Tested:** 31/07/2019 - 01/08/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

Civiltest Pty Ltd  
 Mitcham Laboratory  
 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
 Phone: (03) 9874 5844  
 Email: scott.flood@civiltest.com.au

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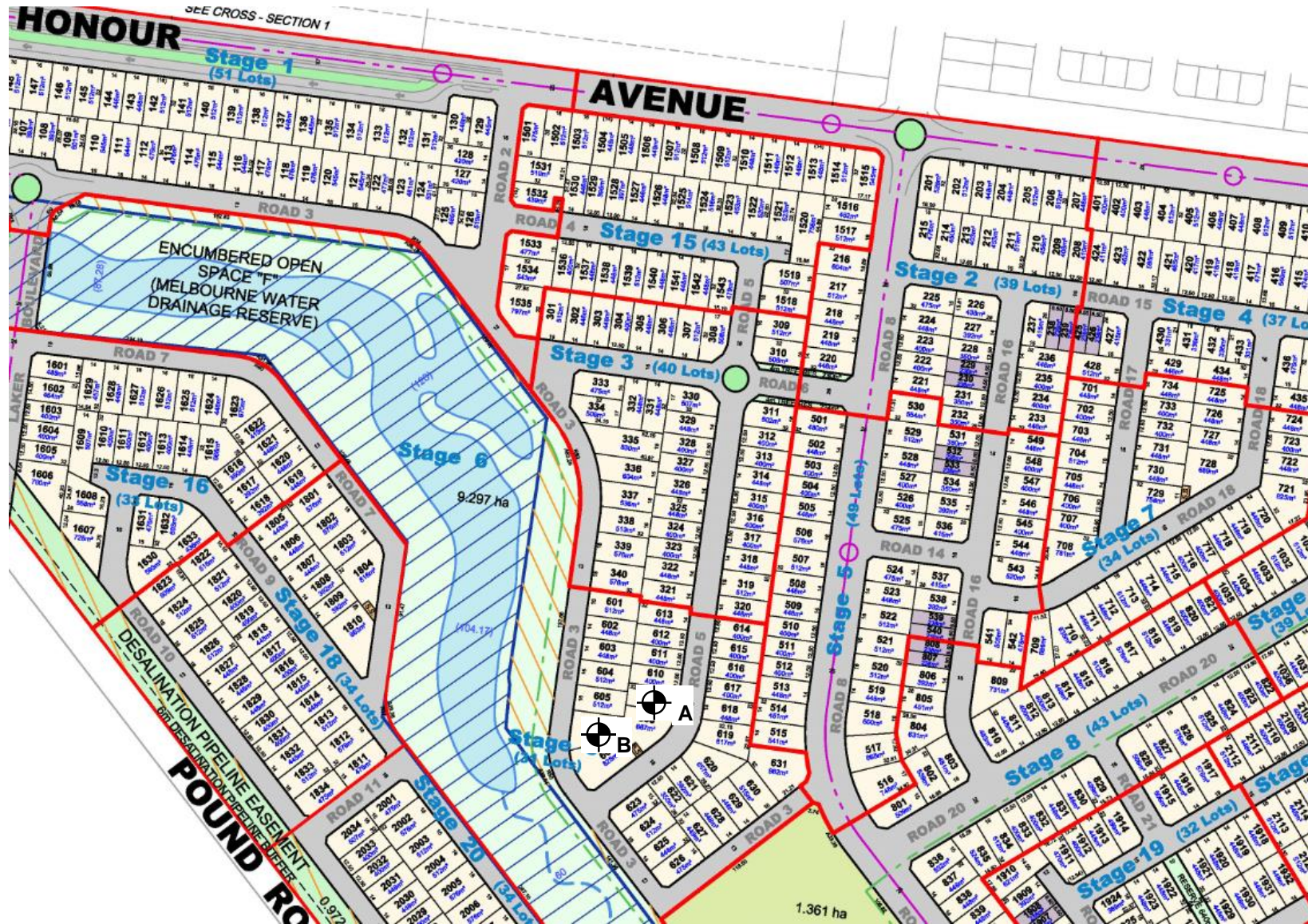


Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1		
Sample Number	192-3775A	192-3775B
Date Tested	31/07/2019	31/07/2019
Time Tested	08:20	08:50
Test Request #/Location	Lot 608-609	Lot 606-607
Chainage (m)	**	**
Location Offset (m)	**	**
Layer / Reduced Level	1.4 Below F.S	1.2 Below F.S
Thickness of Layer (mm)	300	300
Soil Description	CLAY silty	CLAY silty
Test Depth (mm)	275	275
Sieve used to determine oversize (mm)	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.91	1.92
Field Moisture Content %	29.9	31.2
Field Dry Density (FDD) t/m <sup>3</sup>	1.47	1.46
Peak Converted Wet Density t/m <sup>3</sup>	1.90	1.95
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**
Moisture Ratio % (AS 1289.5.4.1)	101.5	110.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**
Moisture Variation (Wv) %	-0.5	-2.5
Adjusted Moisture Variation %	**	**
Hilf Density Ratio (%)	<b>100.5</b>	<b>98.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



⊙ Denotes Test Locations

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NOT TO SCALE



# Material Test Report

**Report Number:** 1190228-40  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** plan added  
**Date Issued:** 06/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 4070  
**Date Sampled:** 29/07/2019 14:30  
**Dates Tested:** 29/07/2019 - 02/08/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard

Civiltest Pty Ltd  
 Mornington Laboratory  
 10 Latham Street Mornington Vic 3931  
 Phone: (03) 5975 6644  
 Fax: (03) 5975 9589  
 Email: scott.walsh@civilttest.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Scott Walsh  
 Lab Manager

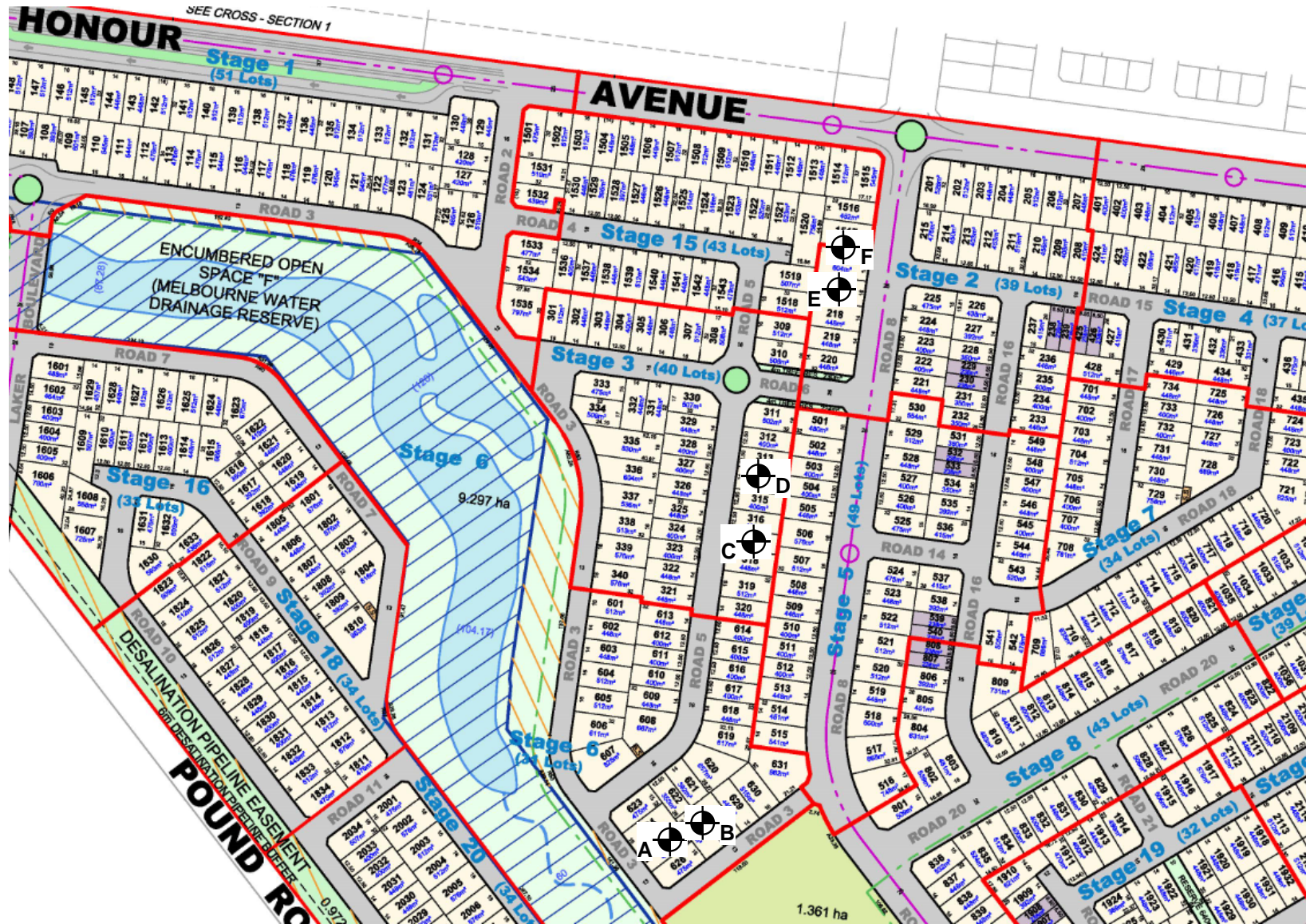
NATA Accredited Laboratory Number: 1407

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	191-4070A	191-4070B	191-4070C	191-4070D	191-4070E	191-4070F
Date Tested	29/07/2019	29/07/2019	29/07/2019	29/07/2019	29/07/2019	29/07/2019
Time Tested	14:30	14:40	14:50	15:00	15:10	15:20
Test Request #/Location	See plan lot 625	See plan lot 622 Retest 191-4061J	See plan lot 317	See plan lot 314	See plan lot 217	See plan lot border 1517 & 216
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	800mm below fsl	900mm below fsl	1400mm below fsl	1600mm below fsl	2000mm below fsl	1500mm below fsl
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	2.07	1.92	1.94	1.89	1.88	2.01
Field Moisture Content %	28.1	29.0	29.6	28.2	27.2	24.7
Field Dry Density (FDD) t/m <sup>3</sup>	1.61	1.49	1.50	1.47	1.47	1.61
Peak Converted Wet Density t/m <sup>3</sup>	1.90	1.96	1.99	1.98	1.95	1.95
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	107.5	109.0	110.0	112.5	113.5	99.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	-2.0	-2.5	-2.5	-3.0	-3.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>108.5</b>	<b>98.5</b>	<b>97.5</b>	<b>95.5</b>	<b>96.0</b>	<b>103.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



⊕ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-41  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 08/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 3783  
**Date Sampled:** 31/07/2019 2:00  
**Dates Tested:** 31/07/2019 - 05/08/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

Civiltest Pty Ltd  
 Mitcham Laboratory  
 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
 Phone: (03) 9874 5844  
 Email: scott.flood@civiltest.com.au  
 Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

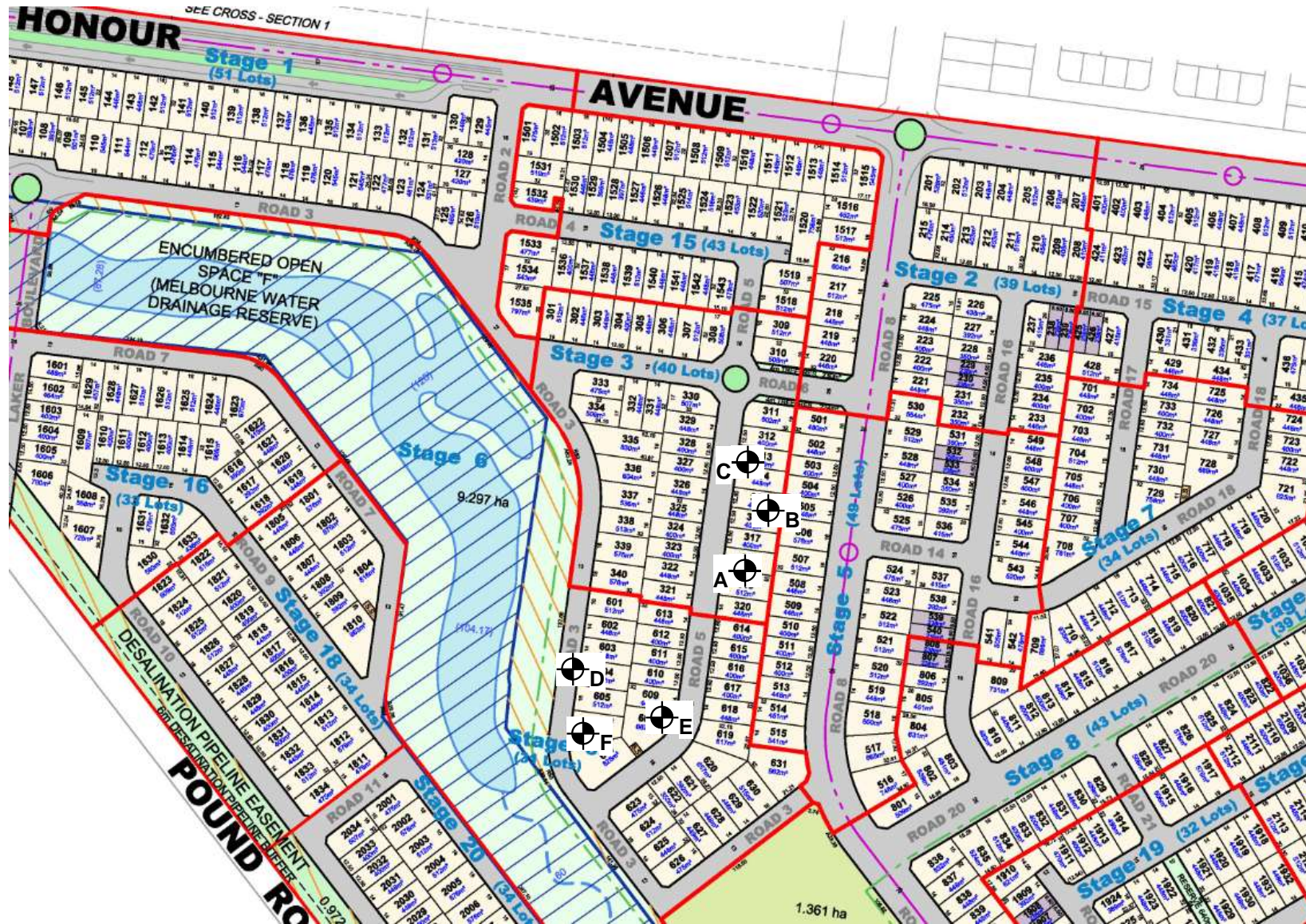
Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	192-3783A	192-3783B	192-3783C	192-3783D	192-3783E	192-3783F
Date Tested	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019	31/07/2019
Time Tested	02:15	02:25	02:35	03:00	03:15	03:45
Test Request #/Location	Lot 318-319	Lot 315-316	Lot 313-314	Lot 603-604	Lot 608-609	Lot 606
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	1.4m Below F.S	1.4m Below F.S	1.5m Below F.S	1.1m Below F.S	1.1m Below F.S	1m Below F.S
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Sandy Silty CLAY	Sandy Silty CLAY	Sandy Silty CLAY	Sandy Silty CLAY	Sandy Silty CLAY	Sandy Silty CLAY
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.92	1.91	1.92	1.92	1.92	1.93
Field Moisture Content %	24.6	24.3	26.1	29.2	27.4	30.1
Field Dry Density (FDD) t/m <sup>3</sup>	1.54	1.54	1.52	1.49	1.50	1.48
Peak Converted Wet Density t/m <sup>3</sup>	1.92	1.95	1.95	1.98	2.00	1.90
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	101.5	126.5	109.0	122.0	115.5	100.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	-5.0	-2.0	-5.0	-3.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>100.0</b>	<b>98.5</b>	<b>98.5</b>	<b>97.0</b>	<b>95.5</b>	<b>101.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



⊕ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-44  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 08/08/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE STAGE 3, CLYDE NORTH  
**Work Request:** 3799  
**Date Sampled:** 01/08/2019 1:15  
**Dates Tested:** 01/08/2019 - 07/08/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

Civiltest Pty Ltd  
 Mitcham Laboratory  
 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
 Phone: (03) 9874 5844  
 Email: scott.flood@civilttest.com.au  
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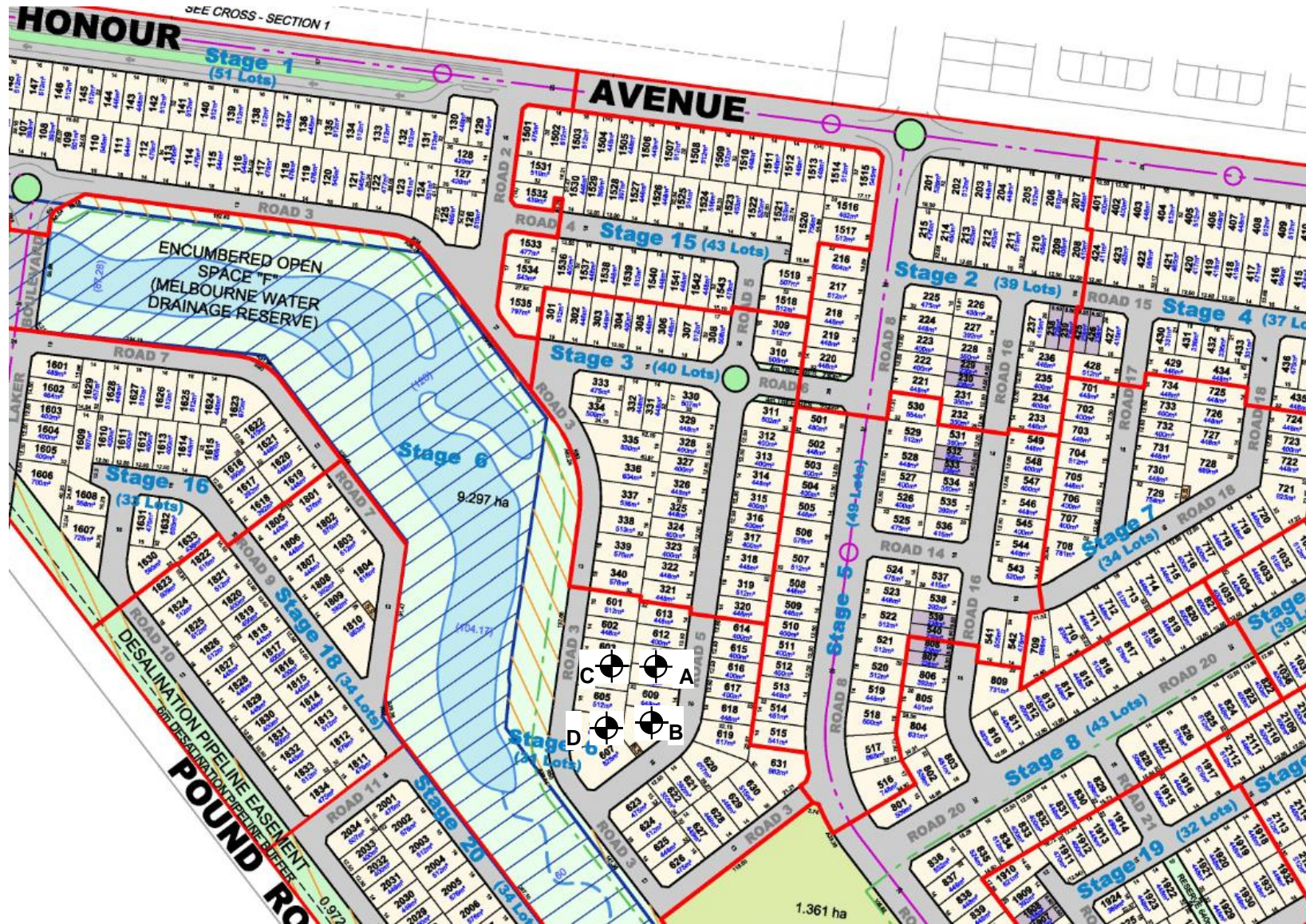
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	192-3799A	192-3799B	192-3799C	192-3799D
Date Tested	01/08/2019	01/08/2019	01/08/2019	01/08/2019
Time Tested	02:35	02:50	03:00	03:10
Test Request #/Location	Lot 611/610	Lot 608	Lot 604	Lot 606
Chainage (m)	**	**	**	**
Location Offset (m)	**	**	**	**
Layer / Reduced Level	850mm Above Finish	850mm Above Finish Level	800mm Above Finish Level	750mm Above Finish Level
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty CLAY	Silty CLAY	Silty CLAY	Silty CLAY
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.96	1.92	2.04	1.95
Field Moisture Content %	28.9	-10.3	26.1	29.0
Field Dry Density (FDD) t/m <sup>3</sup>	1.52	2.14	1.62	1.51
Peak Converted Wet Density t/m <sup>3</sup>	1.97	1.95	1.99	2.02
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	110.5	86.0	110.0	110.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	-2.5	-2.5	-2.5	-2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	<b>99.0</b>	<b>98.5</b>	<b>102.5</b>	<b>96.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 3, CLYDE NORTH



⊕ Denotes Test Locations

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NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-94  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 08/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4344  
**Date Sampled:** 04/10/2019 7:00  
**Dates Tested:** 04/10/2019 - 05/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

Civiltest Pty Ltd  
 Mitcham Laboratory  
 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
 Phone: (03) 9874 5844  
 Email: scott.flood@civilttest.com.au

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Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	192-4344A	192-4344B	192-4344C	192-4344D	192-4344E	192-4344F
Date Tested	04/10/2019	04/10/2019	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Time Tested	08:00	08:10	08:20	08:30	13:20	13:23
Test Request #/Location	Lots 513/514	Lots 509/510	Lots 614/615	Lots 617/618	Lots 523/524	Lots 538/539
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	700mm Below F.S	700mm Below F.S	700mm Below F.S	700mm Below F.S	F.S	F.S
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	2.00	1.96	1.98	2.03	2.02	1.99
Field Moisture Content %	23.4	23.3	23.3	22.5	22.4	23.0
Field Dry Density (FDD) t/m <sup>3</sup>	1.62	1.59	1.61	1.65	1.65	1.62
Peak Converted Wet Density t/m <sup>3</sup>	2.06	2.01	2.01	2.06	2.03	2.01
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	97.5	96.0	96.0	98.5	97.5	97.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	1.0	1.0	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>97.0</b>	<b>98.0</b>	<b>98.5</b>	<b>98.0</b>	<b>99.0</b>	<b>99.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 1190228-94  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 08/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4344  
**Date Sampled:** 04/10/2019 7:00  
**Dates Tested:** 04/10/2019 - 05/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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 Email: scott.flood@civilttest.com.au  
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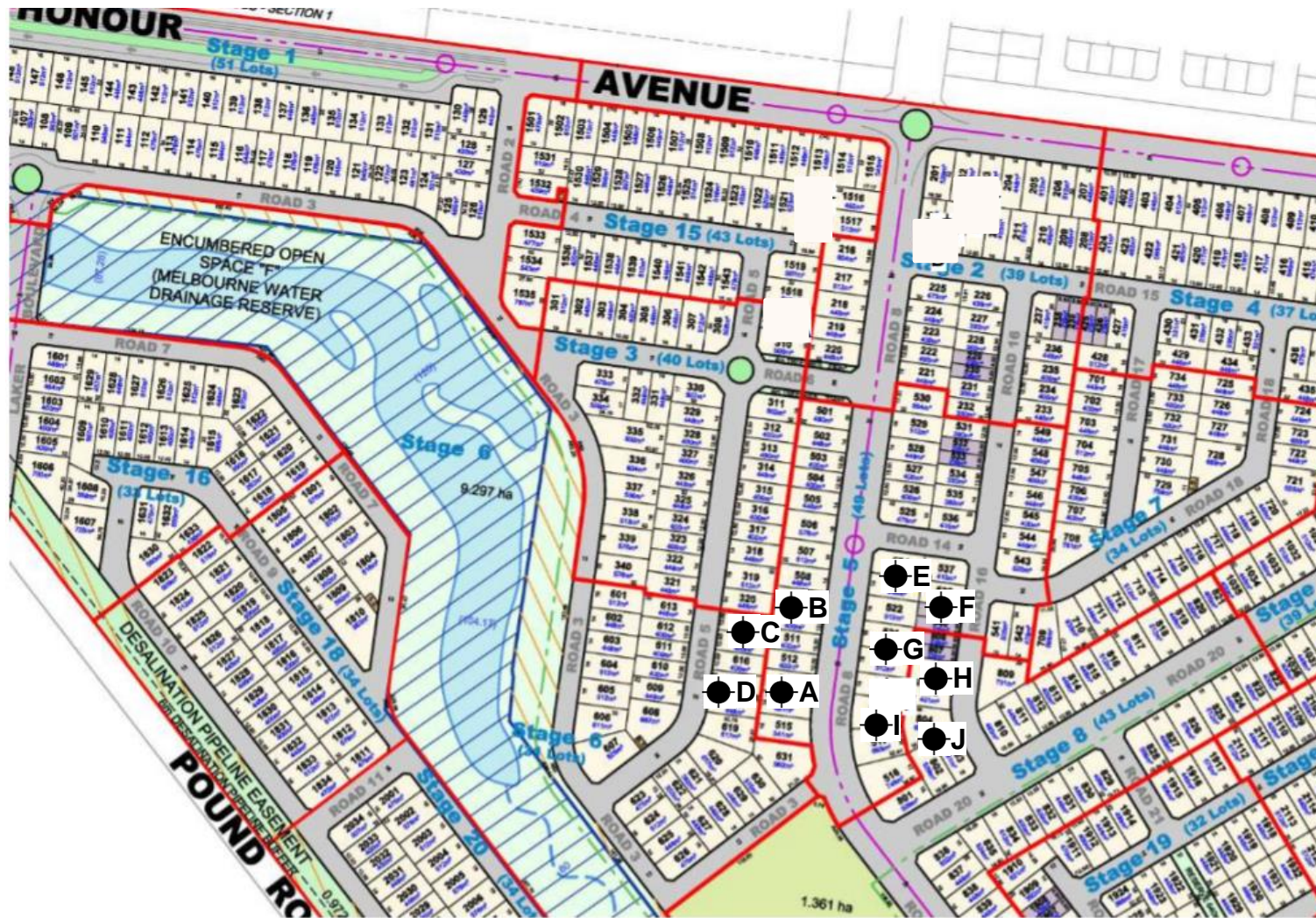


Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	192-4344G	192-4344H	192-4344I	192-4344J
Date Tested	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Time Tested	13:27	13:29	13:30	13:33
Test Request #/Location	Lots 520/521	Lots 805/806	Lots 517/518	Lots 803/804
Chainage (m)	**	**	**	**
Location Offset (m)	**	**	**	**
Layer / Reduced Level	F.S	F.S	F.S	F.S
Thickness of Layer (mm)	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.98	2.00	2.01	2.00
Field Moisture Content %	21.9	21.4	23.4	22.7
Field Dry Density (FDD) t/m <sup>3</sup>	1.63	1.65	1.63	1.63
Peak Converted Wet Density t/m <sup>3</sup>	2.01	2.02	2.03	2.02
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	96.5	97.0	97.5	96.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	<b>99.0</b>	<b>99.0</b>	<b>99.0</b>	<b>99.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

**PLAN – LOCATION OF TEST SITES: Honour Village Wetlands Stage 2 CLYDE NORTH**



● Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

**NOT TO SCALE**

# Material Test Report

**Report Number:** 1190228-97  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 14/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4363  
**Date Sampled:** 07/10/2019 7:30  
**Dates Tested:** 07/10/2019 - 08/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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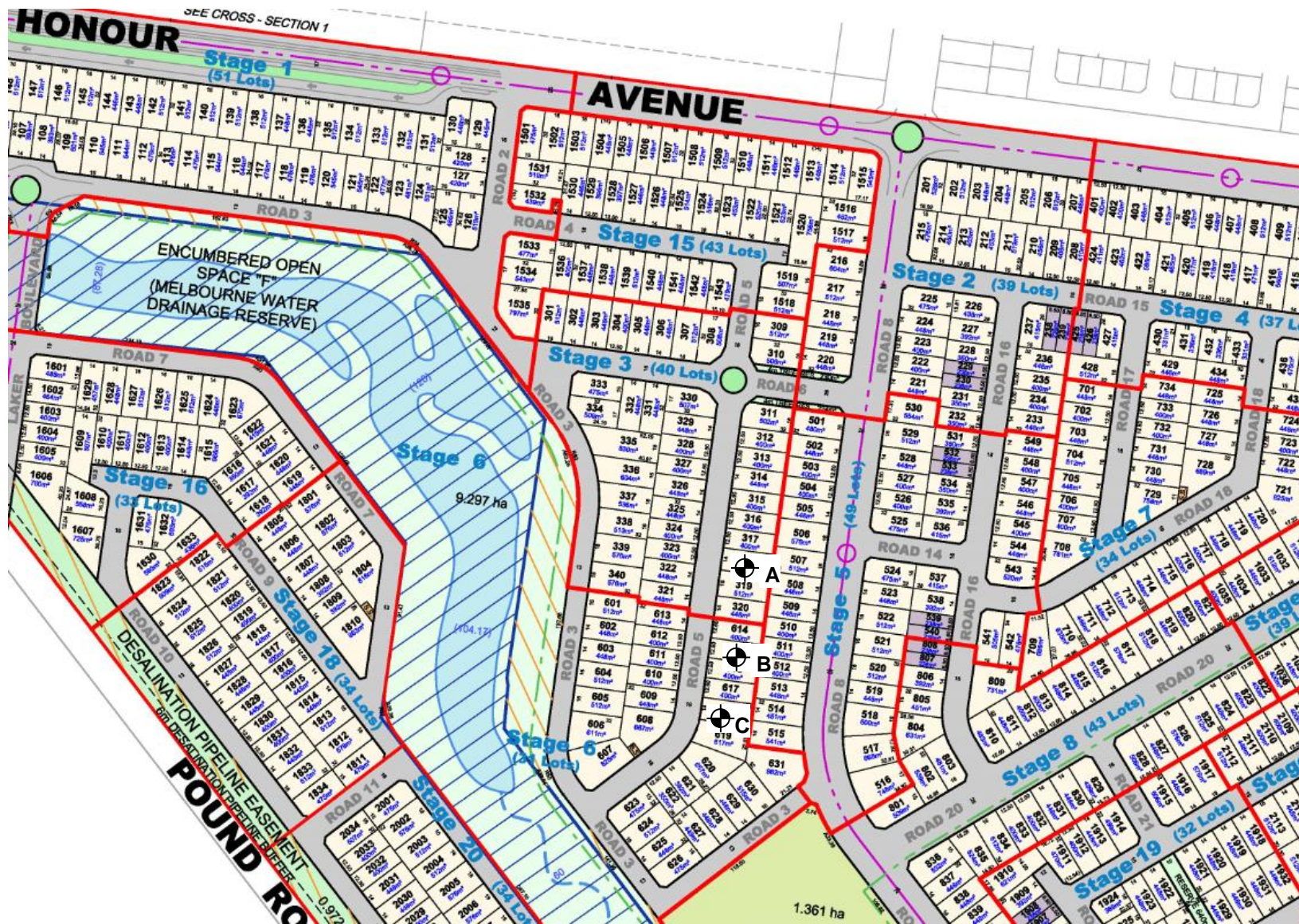
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	192-4363A	192-4363B	192-4363C
Date Tested	07/10/2019	07/10/2019	07/10/2019
Time Tested	02:00	02:05	02:10
Test Request #/Location	Lots 318/319	Lots 315/316	Lots 618/619
Chainage (m)	**	**	**
Location Offset (m)	**	**	**
Layer / Reduced Level	400mm Below F.S	400mm Below F.S	400mm Below F.S
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	2.00	1.98	1.99
Field Moisture Content %	26.5	28.0	25.4
Field Dry Density (FDD) t/m <sup>3</sup>	1.58	1.55	1.59
Peak Converted Wet Density t/m <sup>3</sup>	2.00	2.00	2.01
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	98.0	96.5	97.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.5	1.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	99.0	99.5
Compaction Method	Standard	Standard	Standard

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



⊕ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE



# Material Test Report

**Report Number:** 1190228-98  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 11/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4382  
**Date Sampled:** 08/10/2019 7:30  
**Dates Tested:** 08/10/2019 - 09/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	192-4382A	192-4382B	192-4382C	192-4382D	192-4382E	192-4382F
Date Tested	08/10/2019	08/10/2019	08/10/2019	08/10/2019	08/10/2019	08/10/2019
Time Tested	02:00	02:05	02:10	02:15	02:20	02:25
Test Request #/Location	Lots 625/626	Lots 621/622	Lot 628	Lots 629/630	Lots 508/509	Lot 511
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	400mm Below F.S	400mm Below F.S	600mm Below F.S	600mm Below F.S	F.S	F.S
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.98	2.00	1.97	1.99	2.00	1.97
Field Moisture Content %	28.0	26.7	28.5	26.8	26.6	29.9
Field Dry Density (FDD) t/m <sup>3</sup>	1.55	1.58	1.54	1.57	1.58	1.52
Peak Converted Wet Density t/m <sup>3</sup>	2.00	2.03	2.00	2.02	2.02	2.01
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	96.5	97.0	98.5	97.0	97.0	97.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	1.0	0.5	0.5	1.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>99.0</b>	<b>98.5</b>	<b>99.0</b>	<b>98.5</b>	<b>99.0</b>	<b>98.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** 1190228-98  
**Issue Number:** 2 - *This version supersedes all previous issues*  
**Reissue Reason:** *Plan Added*  
**Date Issued:** 11/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4382  
**Date Sampled:** 08/10/2019 7:30  
**Dates Tested:** 08/10/2019 - 09/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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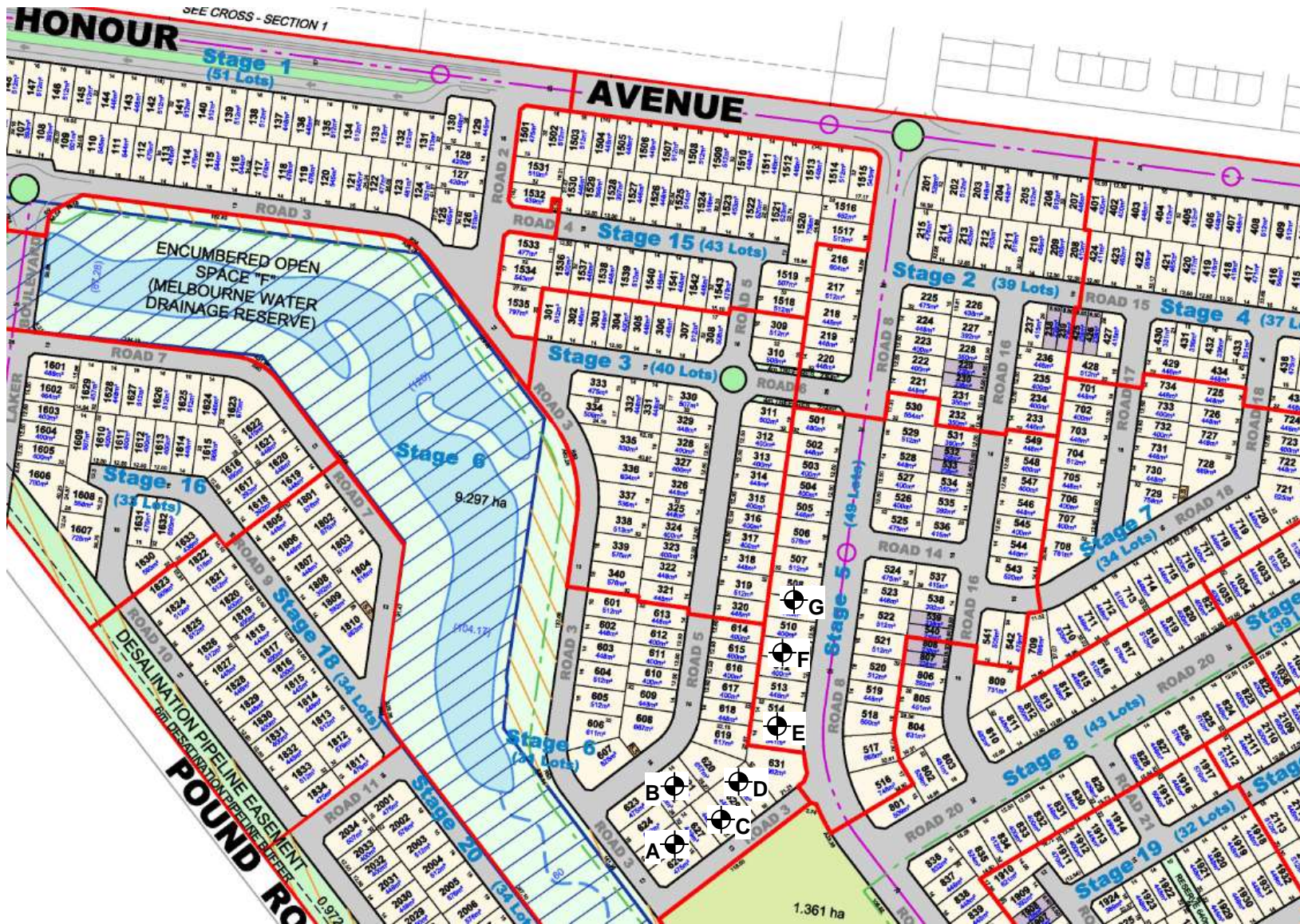


Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	192-4382G
Date Tested	08/10/2019
Time Tested	02:30
Test Request #/Location	Lots 514/515
Chainage (m)	**
Location Offset (m)	**
Layer / Reduced Level	F.S
Thickness of Layer (mm)	300
Soil Description	CLAY sandy silty
Test Depth (mm)	275
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.97
Field Moisture Content %	28.8
Field Dry Density (FDD) t/m <sup>3</sup>	1.53
Peak Converted Wet Density t/m <sup>3</sup>	2.00
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**
Moisture Ratio % (AS 1289.5.4.1)	97.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**
Moisture Variation (Wv) %	0.5
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	<b>98.5</b>
Compaction Method	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



⊕ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-99  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 16/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4394  
**Date Sampled:** 10/10/2019 7:30  
**Dates Tested:** 10/10/2019 - 11/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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 Email: scott.flood@civilttest.com.au

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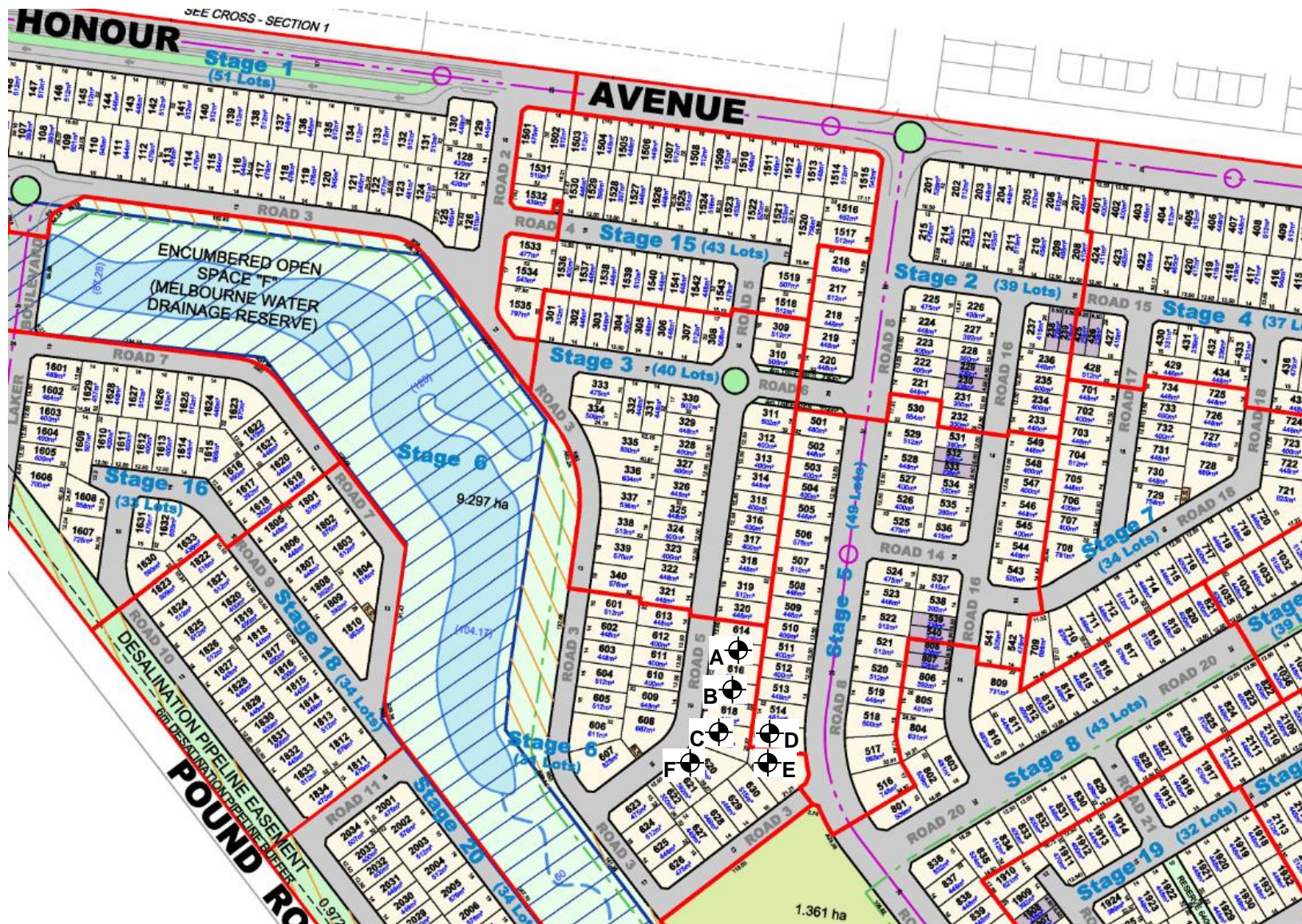
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	192-4394A	192-4394B	192-4394C	192-4394D	192-4394E	192-4394F
Date Tested	10/10/2019	10/10/2019	10/10/2019	10/10/2019	10/10/2019	10/10/2019
Time Tested	13:19	13:29	13:56	14:14	14:15	14:18
Test Request #/Location	Lot 615	Lot 617	Lot 619	Lot 515	Lot 631	Lot 620
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	F.L	F.L	F.L	F.L	400mm Below F.S	400mm Below F.S
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.99	1.97	1.98	1.99	2.02	1.97
Field Moisture Content %	29.0	27.3	25.7	31.3	25.1	30.6
Field Dry Density (FDD) t/m <sup>3</sup>	1.54	1.55	1.58	1.51	1.61	1.51
Peak Converted Wet Density t/m <sup>3</sup>	2.01	2.01	2.01	2.01	2.02	2.01
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	97.5	97.0	97.5	97.5	98.0	98.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	1.0	0.5	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>99.0</b>	<b>98.0</b>	<b>99.0</b>	<b>99.0</b>	<b>100.0</b>	<b>98.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



⊕ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-101  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 16/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4401  
**Date Sampled:** 11/10/2019 7:30  
**Dates Tested:** 11/10/2019 - 15/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
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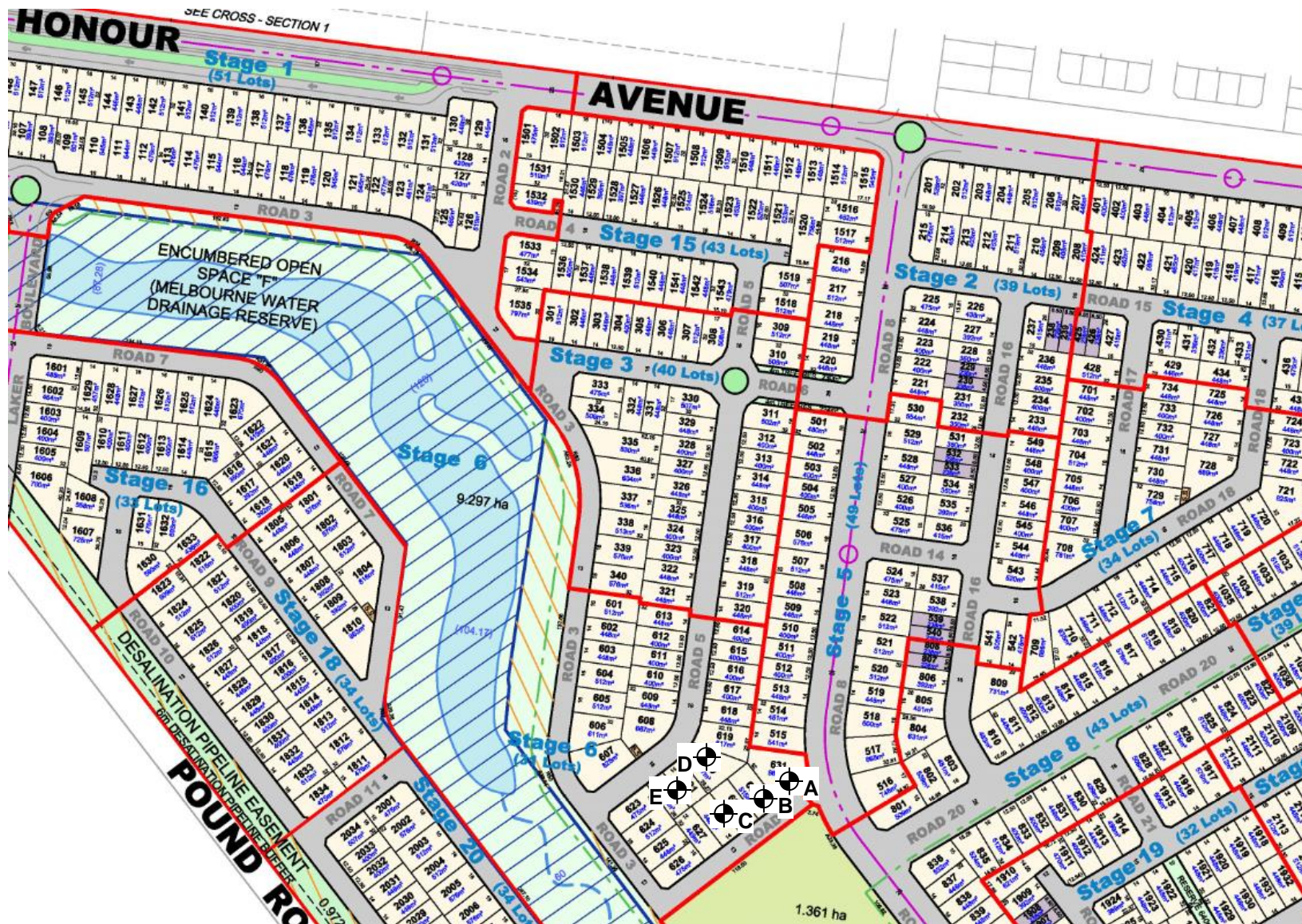


Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	192-4401A	192-4401B	192-4401C	192-4401D	192-4401E
Date Tested	11/10/2019	11/10/2019	11/10/2019	11/10/2019	11/10/2019
Time Tested	02:00	02:05	02:10	02:35	02:45
Test Request #/Location	Lot 631	Lot 630	Lots 628/629	Lot 620	Lots 621/622
Chainage (m)	**	**	**	**	**
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	F.S	F.S	F.S	F.S	F.S
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.95	1.97	1.96	1.97	1.96
Field Moisture Content %	35.3	32.0	31.9	31.8	30.0
Field Dry Density (FDD) t/m <sup>3</sup>	1.44	1.49	1.48	1.49	1.51
Peak Converted Wet Density t/m <sup>3</sup>	2.01	2.01	2.01	2.01	2.01
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	106.5	108.0	108.0	106.5	106.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	-2.0	-2.0	-2.0	-2.0	-1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	<b>97.0</b>	<b>98.0</b>	<b>97.5</b>	<b>98.0</b>	<b>97.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



⊕ Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-104  
**Issue Number:** 2 - *This version supersedes all previous issues*  
**Reissue Reason:** *Plan Added*  
**Date Issued:** 21/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4419  
**Date Sampled:** 14/10/2019 7:30  
**Dates Tested:** 14/10/2019 - 16/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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 Phone: (03) 9874 5844  
 Email: scott.flood@civilttest.com.au

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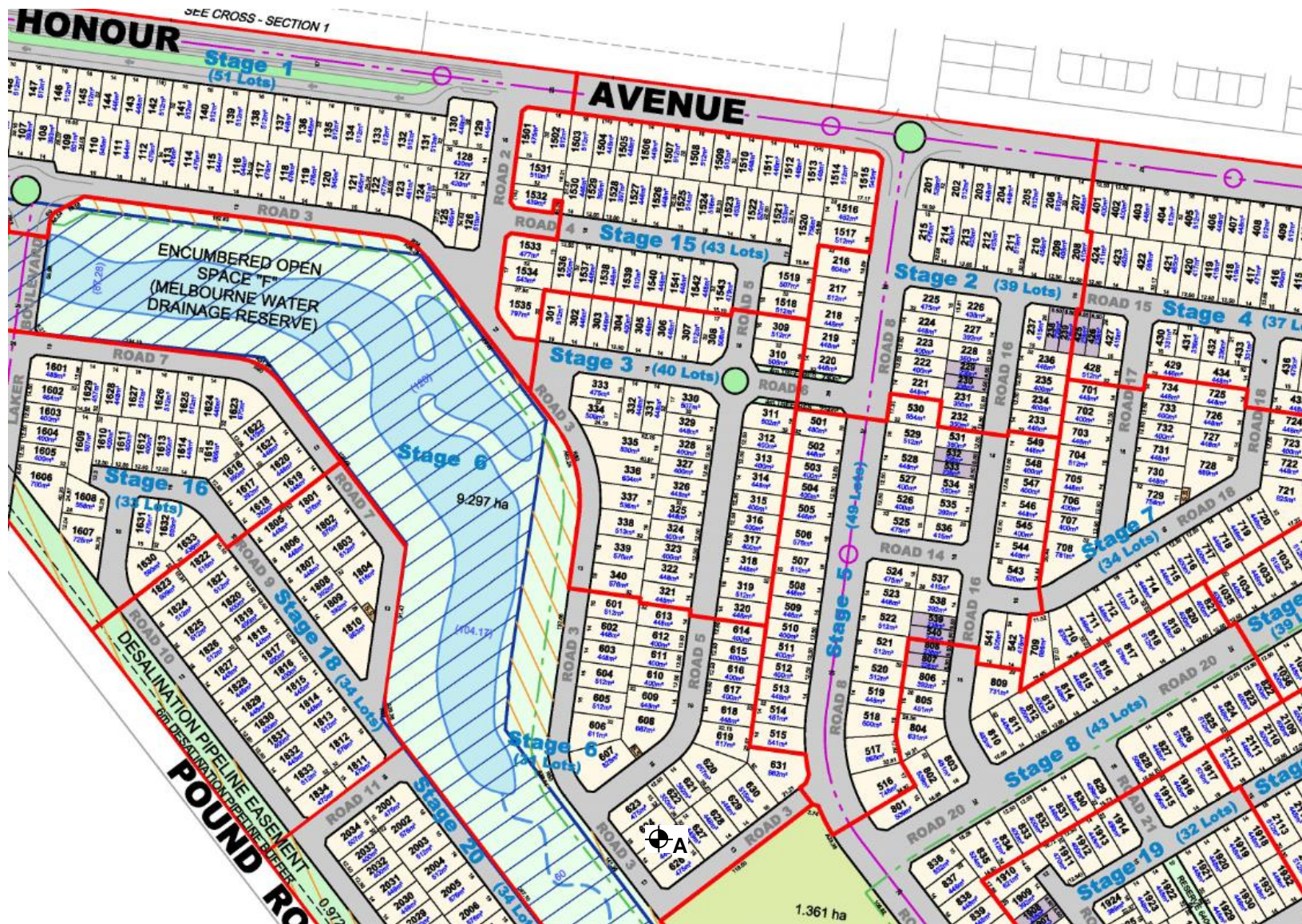
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	192-4419A
Date Tested	14/10/2019
Time Tested	14:07
Test Request #/Location	Lots 624/625
Chainage (m)	**
Location Offset (m)	**
Layer / Reduced Level	F.S
Thickness of Layer (mm)	300
Soil Description	CLAY sandy silty
Test Depth (mm)	275
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.99
Field Moisture Content %	26.8
Field Dry Density (FDD) t/m <sup>3</sup>	1.57
Peak Converted Wet Density t/m <sup>3</sup>	2.02
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**
Moisture Ratio % (AS 1289.5.4.1)	97.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**
Moisture Variation (Wv) %	0.5
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	<b>99.0</b>
Compaction Method	<b>Standard</b>

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



 Denotes Test Locations

THIS SKETCH IS NOT INTENDED TO BE AN ACCURATE DEPICTION OF THE NUMBER, SIZE OR LOCATION OF TREES AND/OR SHRUBS

NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-106  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 24/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4517  
**Date Sampled:** 22/10/2019 7:30  
**Dates Tested:** 22/10/2019 - 23/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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 Mitcham Laboratory  
 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
 Phone: (03) 9874 5844  
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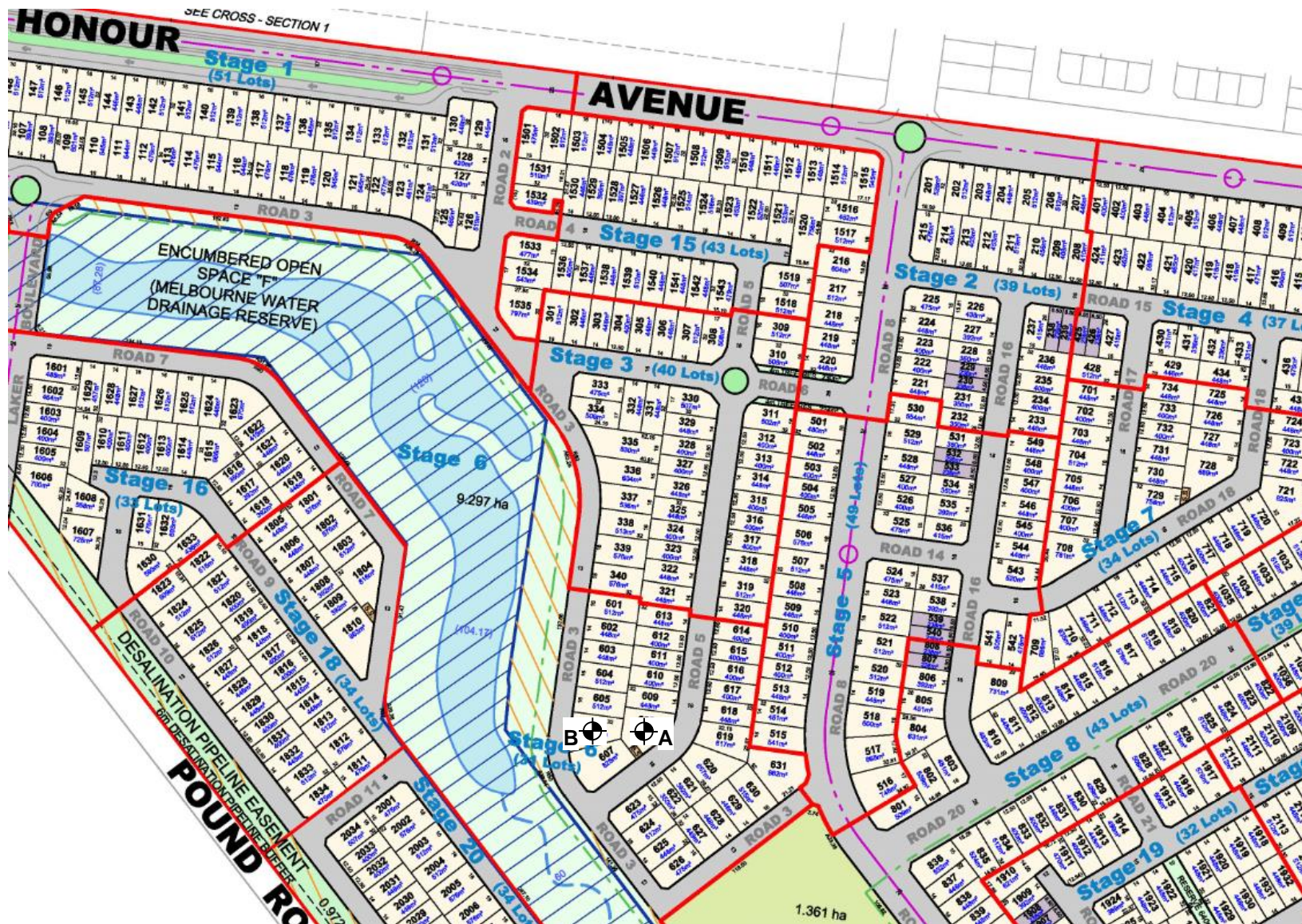
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1		
Sample Number	192-4517A	192-4517B
Date Tested	22/10/2019	22/10/2019
Time Tested	14:33	**
Test Request #/Location	Lot 608	Lot 606
Chainage (m)	**	**
Location Offset (m)	**	**
Layer / Reduced Level	450mm Below F.S	450mm Below F.S
Thickness of Layer (mm)	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275
Sieve used to determine oversize (mm)	37.5	37.5
Percentage of Wet Oversize (%)	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	2.01	2.02
Field Moisture Content %	26.2	25.6
Field Dry Density (FDD) t/m <sup>3</sup>	1.59	1.60
Peak Converted Wet Density t/m <sup>3</sup>	2.03	2.04
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**
Moisture Ratio % (AS 1289.5.4.1)	97.5	98.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**
Moisture Variation (Wv) %	0.5	0.5
Adjusted Moisture Variation %	**	**
Hilf Density Ratio (%)	<b>99.0</b>	<b>98.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



⊕ Denotes Test Locations

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NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-107  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 24/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4486  
**Date Sampled:** 21/10/2019 7:30  
**Dates Tested:** 21/10/2019 - 23/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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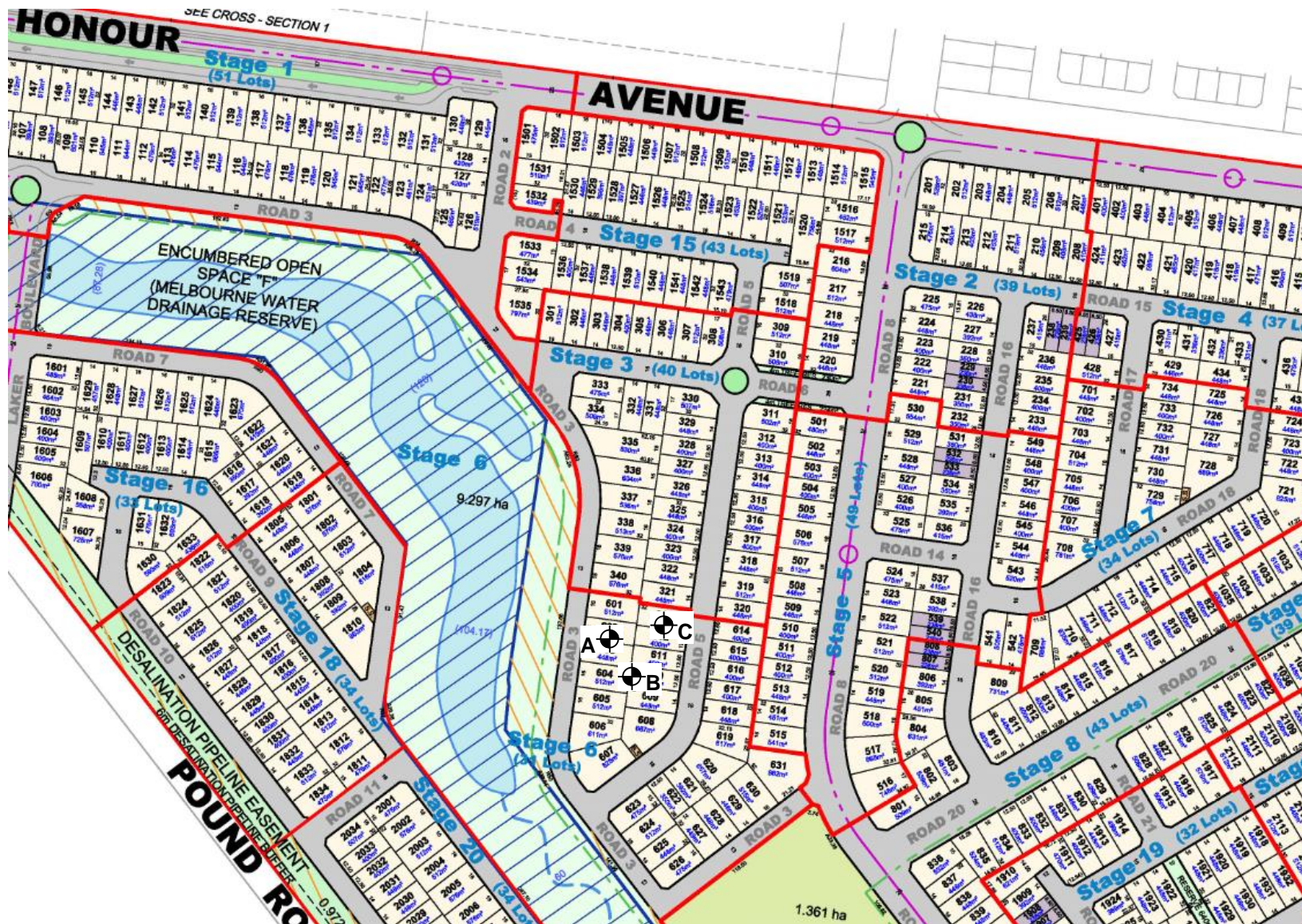
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	192-4486A	192-4486B	192-4486C
Date Tested	21/10/2019	21/10/2019	21/10/2019
Time Tested	02:05	02:10	02:15
Test Request #/Location	Lots 602/603	Lots 604/610	Lots 612/613
Chainage (m)	**	**	**
Location Offset (m)	**	**	**
Layer / Reduced Level	450mm Below F.S	450mm Below F.S	450mm Below F.S
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	37.5	37.5	37.5
Percentage of Wet Oversize (%)	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.99	1.99	1.99
Field Moisture Content %	27.9	28.0	28.1
Field Dry Density (FDD) t/m <sup>3</sup>	1.55	1.56	1.56
Peak Converted Wet Density t/m <sup>3</sup>	2.00	2.01	2.03
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	97.5	97.5	97.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	<b>99.0</b>	<b>99.0</b>	<b>98.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



⊕ Denotes Test Locations

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NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-110  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 29/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4521  
**Date Sampled:** 23/10/2019 7:30  
**Dates Tested:** 23/10/2019 - 25/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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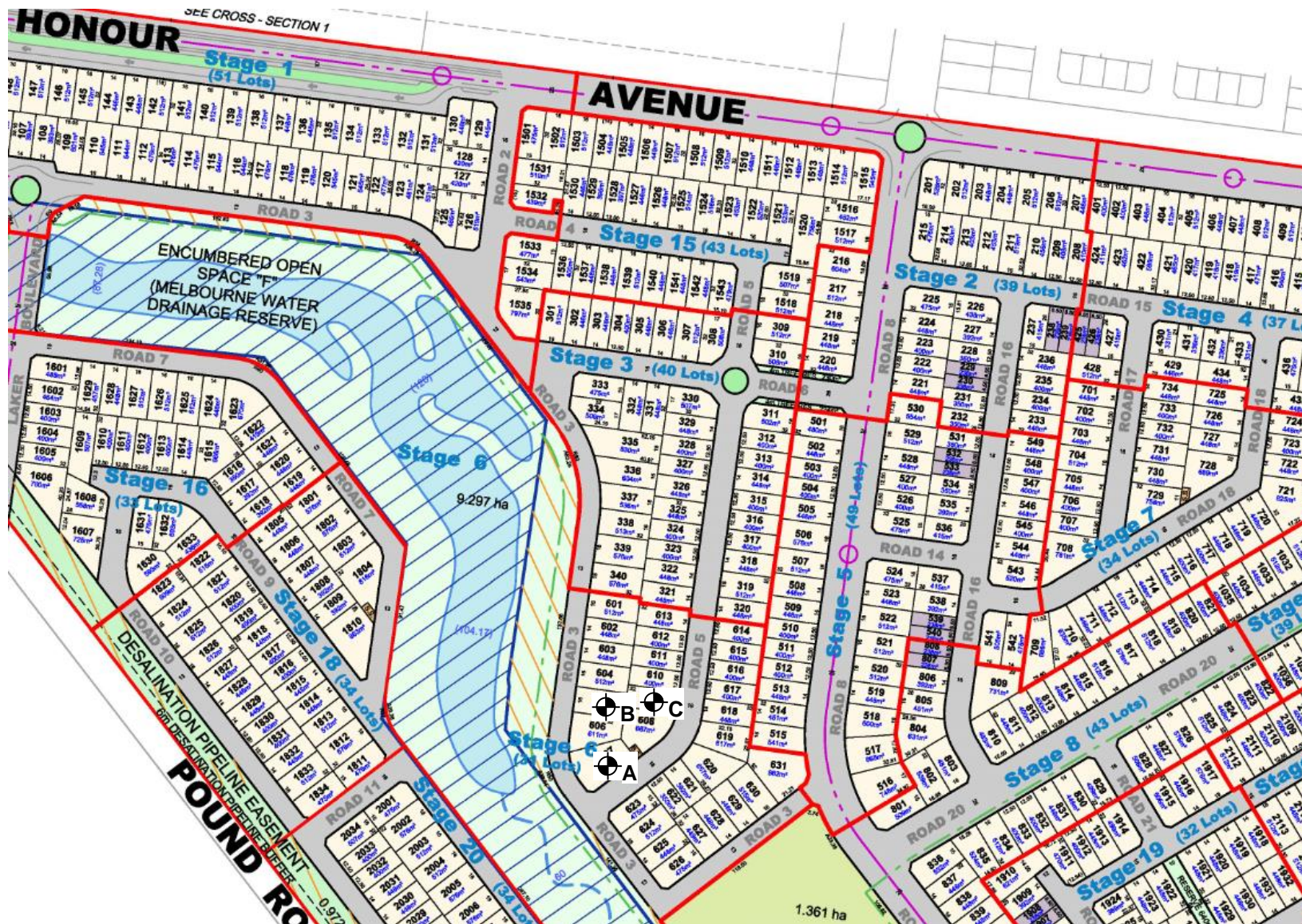
Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	192-4521A	192-4521B	192-4521C
Date Tested	23/10/2019	23/10/2019	23/10/2019
Time Tested	01:40	01:50	02:00
Test Request #/Location	Lot 607	Lot 605	Lot 609
Chainage (m)	**	**	**
Location Offset (m)	**	**	**
Layer / Reduced Level	F/L	F/L	F/L
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	37.5	37.5
Percentage of Wet Oversize (%)	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	2.01	2.00	1.99
Field Moisture Content %	26.0	26.6	25.9
Field Dry Density (FDD) t/m <sup>3</sup>	1.59	1.58	1.58
Peak Converted Wet Density t/m <sup>3</sup>	2.00	2.00	2.00
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	99.0	98.5	98.0
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	<b>100.0</b>	<b>100.0</b>	<b>99.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



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NOT TO SCALE

# Material Test Report

**Report Number:** 1190228-111  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:** Plan Added  
**Date Issued:** 29/10/2019  
**Client:** Australand Residential No 156 Pty Ltd  
 Level 9, 484 St Kilda Road, MELBOURNE, VIC 3004,  
**Project Number:** 1190228  
**Project Name:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Project Location:** HONOUR VILLAGE WETLANDS STAGE 2, CLYDE NORTH  
**Work Request:** 4537  
**Date Sampled:** 24/10/2019 7:30  
**Dates Tested:** 24/10/2019 - 28/10/2019  
**Sampling Method:** AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction

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Approved Signatory: Scott Flood  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 790

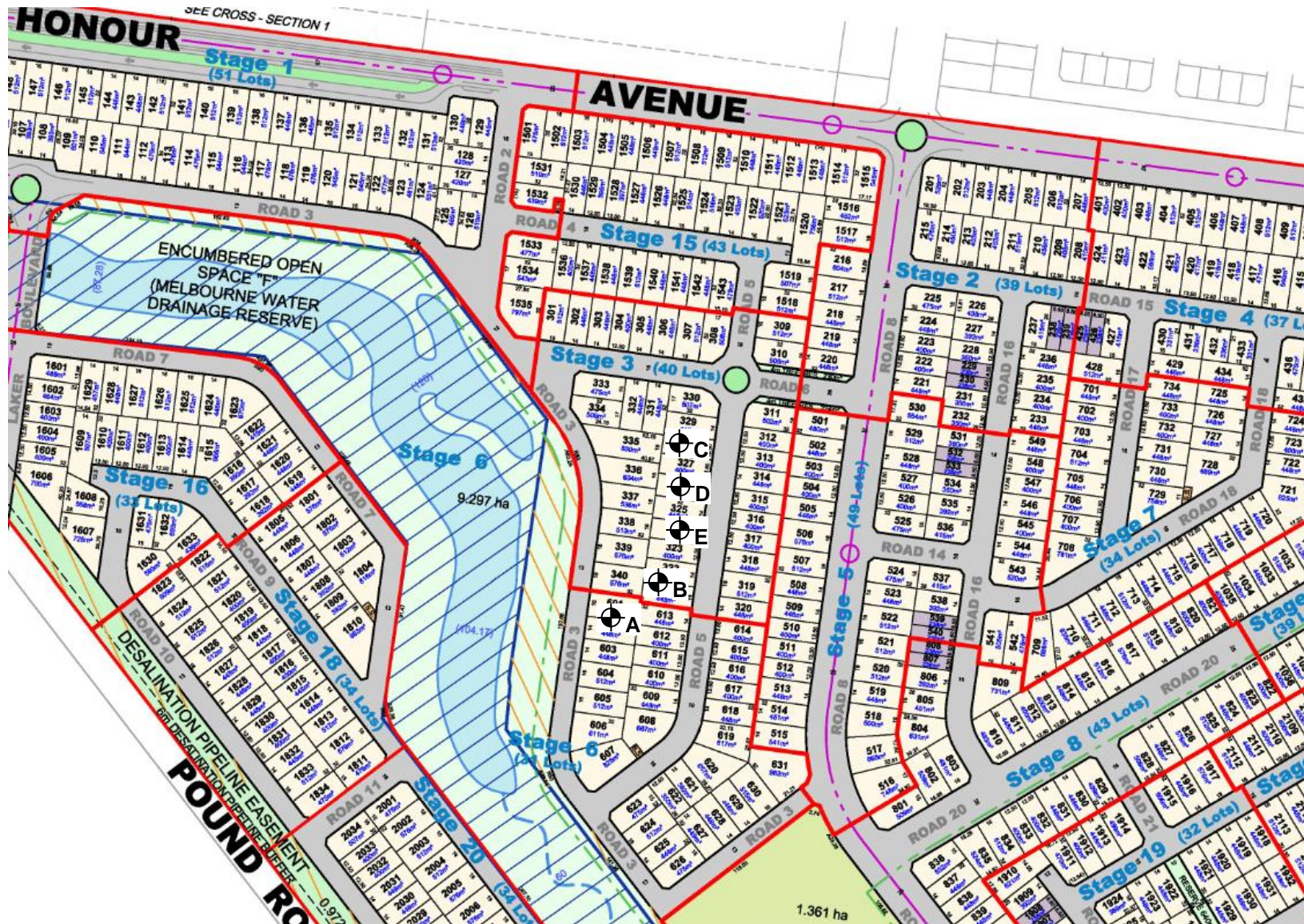
Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	192-4537A	192-4537B	192-4537C	192-4537D	192-4537E
Date Tested	24/10/2019	24/10/2019	24/10/2019	24/10/2019	24/10/2019
Time Tested	01:30	01:40	02:00	02:10	02:15
Test Request #/Location	Lots 601/602	Lots 321/322	Lot 328	Lot 326	Lot 324
Chainage (m)	**	**	**	**	**
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	F/L	F/L	800mm Below F.S	800mm Below F.S	800mm Below F.S
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m <sup>3</sup>	1.98	1.98	2.00	2.00	1.98
Field Moisture Content %	24.1	24.1	29.3	27.7	27.8
Field Dry Density (FDD) t/m <sup>3</sup>	1.60	1.60	1.55	1.56	1.55
Peak Converted Wet Density t/m <sup>3</sup>	2.00	2.01	2.04	2.02	2.01
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**
Moisture Ratio % (AS 1289.5.4.1)	101.5	99.0	106.5	99.5	108.5
Adjusted Moisture Ratio % (AS 1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	0.5	-1.5	0.0	-2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	<b>99.0</b>	<b>98.5</b>	<b>98.0</b>	<b>99.0</b>	<b>98.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# LOCATION OF TEST SITES: HONOUR VILLAGE STAGE 2, CLYDE NORTH



⊕ Denotes Test Locations

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NOT TO SCALE

# Material Test Report

**Report Number:** 2210348-48  
**Issue Number:** 1  
**Date Issued:** 14/02/2022  
**Client:** Bayport Civil Pty Ltd  
 55 Colemans Road, CARRUM DOWNS VIC 3201  
**Contact:** Drew  
**Project Number:** 2210348  
**Project Name:** Honour Village Estate, CLYDE NORTH  
**Project Location:** Honour Village Estate, CLYDE NORTH  
**Work Request:** 12417  
**Date Sampled:** 10/02/2022 8:00  
**Dates Tested:** 10/02/2022 - 12/02/2022  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** Minimum 95% Standard Compaction  
**Site Selection:** Selected by Client  
**Location:** Honour Village Estate, CLYDE NORTH  
**Material:** CLAY sandy silty  
**Material Source:** Site Derived



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 Mitcham Laboratory  
 Unit 7/38 Thornton Crescent Mitcham Vic 3132  
 Phone: (03) 9874 5844  
 Email: Phil.morgans@civilttest.com.au

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Approved Signatory: Phil Morgans  
 Branch Manager

NATA Accredited Laboratory Number: 790

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	222-12417A	222-12417B	222-12417C	222-12417D	222-12417E	222-12417F
Date Tested	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Time Tested	**	**	**	**	**	**
Test Request #/Location	Lot 1632	Lot 1610	Lot 1602	Lot 1627	Lot 1705	Lot 1709
Chainage (m)	**	**	**	**	**	**
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	2.1m below fs	2.1m below fs	1.7m below fs	1.8m below fs	1.6m below fs	1.5m below fs
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty	CLAY sandy silty
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m <sup>3</sup>	1.96	2.05	2.03	1.98	2.01	2.05
Field Moisture Content %	10.0	18.6	21.0	15.4	15.3	20.3
Field Dry Density (FDD) t/m <sup>3</sup>	1.78	1.73	1.68	1.71	1.75	1.71
Peak Converted Wet Density t/m <sup>3</sup>	1.99	2.07	2.02	2.02	2.06	2.03
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**	**
Moisture Variation (Wv) %	2.0	0.0	-0.5	2.0	1.0	0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	<b>98.5</b>	<b>99.0</b>	<b>100.5</b>	<b>98.0</b>	<b>97.5</b>	<b>101.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>
Report Remarks	**	**	**	**	**	**

## Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC