



CIVIL GEOTECHNICAL SERVICES
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3rd May 2019

Our Reference: 19220:NB466

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
OLIVINE – STAGE 3 (DONNYBROOK)

Please find attached our Report No 19220/R001 which relates to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing was performed in April 2019.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

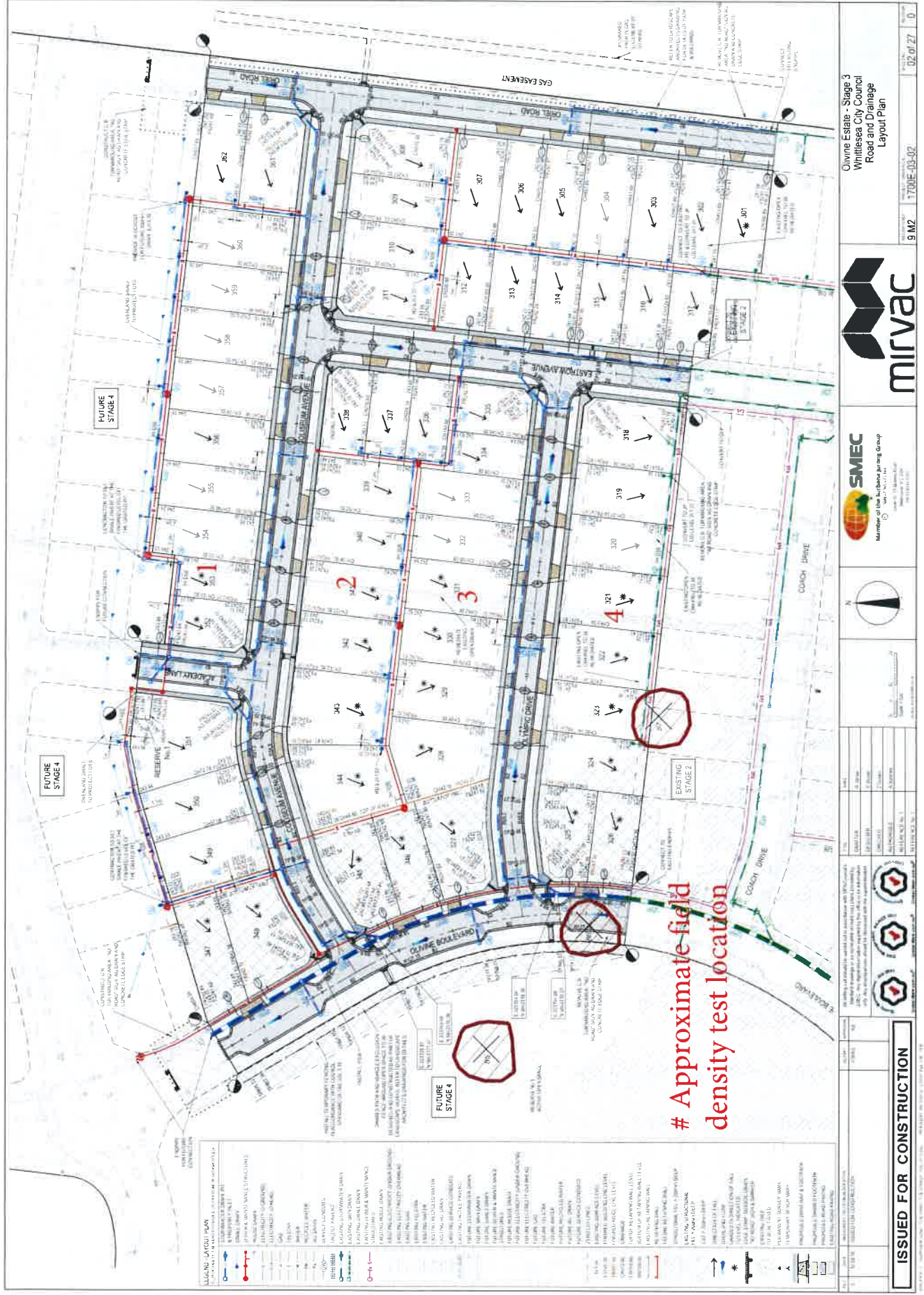
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 19220
Report No 19220/R001
Date Issued 03/05/2019

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
Project OLIVINE - STAGE 3
Location DONNYBROOK

Tested by AC
Date tested 24/04/19
Checked by JHF

Feature EARTHWORKS

Layer thickness 200 mm

Time: 12:06

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 | 1.89 | 1.89 | 1.88 | 1.88 | - | - |
| Field moisture content % | 32.2 | 29.5 | 32.2 | 29.1 | - | - |

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 | 1.92 | 1.90 | 1.89 | 1.91 | - | - |
| Adjusted Peak Converted Wet Density t/m ³ | - | - | - | - | - | - |
| Optimum Moisture Content % | 29.5 | 27.0 | 29.5 | 26.5 | - | - |

| | | | | | | |
|---|-------------|-------------|-------------|-------------|---|---|
| Moisture Variation From Optimum Moisture Content | 2.5% wet | 2.5% wet | 2.5% wet | 2.5% wet | - | - |
|---|-------------|-------------|-------------|-------------|---|---|

| | | | | | | | |
|----------------------------|---|------|------|------|------|---|---|
| Density Ratio (R_{HD}) | % | 98.5 | 99.0 | 99.5 | 98.5 | - | - |
|----------------------------|---|------|------|------|------|---|---|

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

AVRLOT HILF V1.10 MAR 13