

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

2nd February 2024

Our Reference: 23639:NB1777

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING OFFICER CENTRAL – STAGE 7 (OFFICER)

Please find attached our Report No's 23639/R001 to 23639/R011 which relate to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density was performed in June 2023.

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





| | PTY LTD (C. | AMPBELLFIE | ELD) | Re De | b No eport No ate Issued ested by | 23639 23639/R00 24/08/23 SB |
|---------------------------|--------------------------|---|---|---|--|---|
| RAL - STAGE | • | |) | Da | ate tested hecked by | 14/08/23 JHF |
| | Lay | er thickness | 200 | mm | Time: | 12:00 |
| 1 & 5.8.1 | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 |
| | | | | | | |
| | | | | | | 175 |
| | | | | | | 1.95 26.5 |
| 1 | 1 | 2 | 3 Stan | 4 dard | 5 | 6 |
| mm | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| wet | 0 | 0 | 0 | 0 | 0 | 0 |
| 1101 | 1.99 | 2.01 | 1.92 | 1.93 | 1.96 | 1.96 |
| t/m³ | 1.33 | | | | 1100 | 1.30 |
| t/m³ Density t/m³ | - | - | - | - | - | - |
| t/m³ | - 28.0 | - 25.5 | - 26.5 | - 27.5 | - 31.0 | - 29.0 |
| t/m³ Density t/m³ % | - 28.0 2.5% | - 25.5 0.0% | - 26.5 2.0% | 2.0% | - 31.0 2.0% | - |
| t/m³ Density t/m³ % | - 28.0 2.5% dry | 0.0% | - 26.5 2.0% dry | 2.0% dry | - 31.0 2.0% dry | - 29.0 2.5% dry |
| | 1 & 5.8.1 | 1 & 5.8.1 1 & 5.8.1 REFER TO FIGURE 1 mm 175 t/m ³ 1.97 % 25.4 1 1 1 | 1 & 5.8.1 1 2 REFER REFER TO FIGURE 1 FIGURE 1 FIGURE 1 mm 175 175 t/m³ 1.97 1.98 % 25.4 25.1 1 2 1 2 | 1 & 5.8.1 1 2 3 REFER REFER REFER TO FIGURE 1 FIGURE 1 FIGURE 1 FIGURE 1 FIGURE 1 mm 175 175 t/m³ 1.97 1.98 % 25.4 25.1 1 2 3 1 2 3 | 1 & 5.8.1 1 2 3 4 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 mm 175 175 175 mm 175 175 175 ½ 25.4 25.1 24.3 25.3 1 2 3 4 Standard | 1 & 5.8.1 1 2 3 4 5 REFER TO FIGURE 1 mm 175 175 175 175 mm 175 175 175 175 1 2 3 4 5 1 2 3 4 5 |



Approved Signatory : Justin Fry



| 8 Rose Avenu Client Project Location | e, Croydon 3136 WINSLOW CONSTRUC OFFICER CENTRAL - S OFFICER | | • | AMPBELLFIE | Te De | ate Issued ested by ate tested necked by | 29/08/23 SB 14/08/23 JHF | |
|---|---|------------------|-------------------------|-------------------------|-------------------------|---|-----------------------------------|-------------------------|
| Feature | EARTHWORKS | | Lay | er thickness | 200 | mm | Time: | 12:30 |
| | lure AS 1289.2.1.1 & 5.8. | 1 | | | | | | |
| Test No | | | 7 | 8 | 9 | 10 | 11 | 12 |
| 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 | | | | | | | |
| Measuremen | t depth | тт | 175 | 175 | 175 | 175 | 175 | 175 |
| Field wet den | nsity | t∕m³ | 1.87 | 1.90 | 1.80 | 1.84 | 1.89 | 1.91 |
| Field moistur | e content | % | 25.4 | 27.5 | 26.6 | 25.5 | 26.8 | 27.2 |
| Test proced | lure AS 1289.5.7.1 | | | | | | | |
| Test No | | | 7 | 8 | 9 | 10 | 11 | 12 |
| Compactive e | effort | | | U | Stan | | | |
| | k retained on sieve | mm | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| | versize material | wet | 0 | 0 | 0 | 0 | 0 | 0 |
| | ted Wet Density | t/m ³ | 1.92 | 1.94 | 1.82 | 1.88 | 1.92 | 1.99 |
| | ak Converted Wet Density | t/m ³ | - | - | - | - | - | - |
| | isture Content | % | 28.0 | 25.5 | 29.0 | 28.0 | 29.0 | 29.0 |
| | | | | | | | | |
| Mois | ture Variation From | | 2.5% | 1.5% | 2.5% | 2.5% | 2.0% | 1.5% |
| Optim | um Moisture Content | | dry | wet | dry | dry | dry | dry |
| م م | and moisture ratio results | relate o | only to the so | il to the dept | h of test and | not to the ful | l depth of the | e layer |
| uensity | io(R _{HD}) | % | 97.5 | 98.0 | 99.0 | 98.0 | 98.5 | 96.0 |



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



| 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUC Project OFFICER CENTRAL - S ⁻ Location OFFICER | | | AMPBELLFIE | Te Da | ate Issued ested by ate tested necked by | 29/08/23 SB 21/08/23 JHF | |
|---|---------|-------------------------|-------------------------|-------------------------|---|-----------------------------------|-------------------------|
| Feature EARTHWORKS | | Lay | er thickness | 200 | mm | Time: | 13:30 |
| Test procedure AS 1289.2.1.1 & 5.8. | 1 | _ | | | | _ | - |
| Test No | | 13 | 14 | 15 | 16 | 17 | 18 |
| Location | | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 |
| Approximate depth below FSL | | | | | | | |
| Measurement depth | mm | 175 | 175 | 175 | 175 | 175 | 175 |
| Field wet density | t/m³ | 1.85 | 1.86 | 1.98 | 1.95 | 1.96 | 1.97 |
| Field moisture content | % | 28.7 | 30.4 | 29.7 | 30.7 | 27.1 | 27.8 |
| Test procedure AS 1289.5.7.1 | | | | | | | |
| Test No | | 13 | 14 | 15 | 16 | 17 | 18 |
| Compactive effort | | | | Stan | dard | | |
| Oversize rock retained on sieve | тт | 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 | 1.88 | 1.99 | 1.99 | 1.98 | 1.99 |
| Adjusted Peak Converted Wet Density | t∕m³ | - | - | - | - | - | - |
| Optimum Moisture Content | % | 31.0 | 33.0 | 32.0 | 32.5 | 29.5 | 29.5 |
| Moisture Variation From | | 2.0% | 2.5% | 2.0% | 1.5% | 2.0% | 1.5% |
| Optimum Moisture Content | | dry | dry | dry | dry | dry | dry |
| density and moisture ratio results r | elato (| | | | | | |
| | | - | - | | | - | - |
| Density Ratio(R _{HD}) | % | 99.0 | 99.0 | 99.5 | 97.5 | 98.5 | 99.0 |
| <i>Material description</i> No 13 - 18 Clay Fill | | | | | | | |



Approved Signatory : Justin Fry



| | | AMPBELLFIE | ELD) | Τe | • | 25/09/23 CV 15/09/23 |
|----------|---|---|---|---|--|--|
| IAGE | | | | | | JHF |
| | Lay | er thickness | 200 | mm | Time: | 12:13 |
| 1 | | | | | | |
| | 19 | 20 | 21 | 22 | 23 | 24 |
| | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 |
| | 175 | 175 | 175 | 175 | 175 | 175 |
| | | | | | | 1.79 |
| | | | | | | 26.6 |
| | 19 | 20 | 21 | 22 | 23 | 24 |
| | | | Stan | dard | | |
| тт | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| wet | 0 | 0 | 0 | 0 | 0 | 0 |
| t∕m³ | 1.88 | 1.87 | 1.82 | 1.81 | 1.84 | 1.84 |
| | - | - | - | - | - | - |
| % | 28.5 | 26.0 | 27.0 | 28.5 | 29.5 | 29.0 |
| | 2.0% dry | 0.0% | 0.0% | 2.0% dry | 2.0% dry | 2.5% dry |
| relate c | only to the so | il to the dept | h of test and | not to the fu | II depth of the | e layer |
| % | 99.0 | 95.0 | 98.5 | 97.0 | 99.0 | 97.5 |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 Lay 1 19 REFER TO TO FIGURE 1 mm 175 t/m³ 1.86 % 26.6 mm 19 mm 19.0 wet 0 t/m³ 1.88 t/m³ - % 28.5 | TAGE 7 Layer thickness 1 20 1 20 REFER REFER TO FIGURE 1 Imm 175 175 1/m³ 1.86 1.77 % 26.6 26.0 mm 19.0 9.0 mm 19.0 19.0 mm 19.0 19.0 mm 19.0 19.0 mm 19.0 19.0 mm 19.0 20 20 0.0 0 19 20 0 20 0 0 20 0 0 20 0 0 188 1.87 1.87 1/m³ - - % 28.5 26.0 | Layer thickness 200 1 19 20 21 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 mm 175 175 175 mm 175 175 175 1/m³ 1.86 1.77 1.79 % 26.6 26.0 27.2 19 20 21 mm 19.0 19.0 19.0 wet 0 0 0 1.88 1.87 1.82 t/m³ - - % 28.5 26.0 27.0 | TORS PTY LTD (CAMPBELLFIELD) Te TAGE 7 Data Layer thickness 200 mm Layer thickness 200 mm 1 20 21 22 REFER REFER REFER TO TO FIGURE 1 FIGURE 1 FIGURE 1 REFER TO mm 175 175 175 175 t/m³ 1.86 1.77 1.79 1.76 % 26.6 26.0 27.2 26.1 19 20 21 22 Standard mm 19.0 19.0 19.0 19.0 wet 0 0 0 0 t/m³ 1.88 1.87 1.82 1.81 t/m³ - - - - % 28.5 26.0 27.0 28.5 2.0% 0.0% 0.0% 2.0% dry | Tested by Date tested Checked by Tested by Date tested Checked by Layer thickness 200 mm Time: 1 20 21 22 23 REFER REFER REFER REFER REFER TO TO FIGURE 1 FIGURE 1 FIGURE 1 REFER TO FIGURE 1 mm 175 175 175 175 175 175 tm^3 1.86 1.77 1.79 1.76 1.82 % 26.6 26.0 27.2 26.1 27.4 19 20 21 22 23 Mm 19.0 19.0 19.0 19.0 19.0 tm^3 1.87 1.82 1.81 1.84 tm^3 28.5 26.0 27.0 28.5 29.5 % 28.5 26.0 27.0 28.5 29.5 |



Approved Signatory : Justin Fry



| Test procedure AS Test No | | | Lay | er thickness | 200 | | necked by Time: | 12.14 |
|-------------------------------------|-----------------------|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Test procedure AS Test No | | | Lay | er thickness | 200 | mm | Time: | 12.14 |
| Test No | | | | | | | | |
| | 5 1289.2.1.1 & 5.8 | . 1 | | | | | | |
| Location | | | 25 | 26 | 27 | 28 | 29 | 30 |
| | | | REFER TO FIGURE 1 |
| Approximate depth l | elow FSL | | | | | | | |
| Measurement depth | | mm | 175 | 175 | 175 | 175 | 175 | 175 |
| Field wet density | | t∕m³ | 1.81 | 1.78 | 1.81 | 1.77 | 1.85 | 1.79 |
| Field moisture conte | nt | % | 24.8 | 28.2 | 26.2 | 22.7 | 21.7 | 20.8 |
| Test procedure AS | 1289 5 7 1 | | | | | | | |
| Test No | 1200.0.1.1 | | 25 | 26 | 27 | 28 | 29 | 30 |
| Compactive effort | | | 20 | | Stan | | 20 | 00 |
| Oversize rock retain | ed on sieve | mm | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percent of oversize | | wet | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Converted We | | t/m³ | 1.84 | 1.84 | 1.84 | 1.82 | 1.84 | 1.80 |
| Adjusted Peak Conv | , | t∕m³ | - | - | - | - | - | - |
| Optimum Moisture C | , | % | 27.5 | 31.0 | 29.0 | 25.0 | 24.0 | 23.0 |
| | | | | | | | | |
| Moisture Va | riation From | | 2.5% | 2.5% | 2.5% | 2.5% | 2.0% | 2.5% |
| | sture Content | | dry | dry | dry | dry | dry | dry |
| • | oisture ratio results | relate c | | | ž – | | | |
| - | | | - | - | | | - | - |
| Density Ratio (R _H | <i>р</i>) | % | 98.5 | 97.0 | 98.5 | 97.5 | 100.5 | 99.0 |



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



| 8 Rose Avenue, Croydon 3136ClientWINSLOW CONProjectOFFICER CENTLocationOFFICER | | • | AMPBELLFIE | Te Da | ate Issued ested by ate tested hecked by | 25/09/23 CV 21/09/23 JHF | |
|--|------------------|-------------------------|-------------------------|-------------------------|---|-----------------------------------|-------------------------|
| Feature EARTHWORKS | | Lay | er thickness | 200 | mm | Time: | 10:51 |
| Test procedure AS 1289.2.1. | 1 & 5.8.1 | | | | | | |
| Test No | | 31 | 32 | 33 | 34 | 35 | 36 |
| Location | | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 |
| Approximate depth below FSL | | | | | | | |
| Measurement depth | mm | 175 | 175 | 175 | 175 | 175 | 175 |
| Field wet density | t/m³ | 1.92 | 1.97 | 1.90 | 1.85 | 1.97 | 1.98 |
| Field moisture content | % | 24.2 | 22.5 | 28.7 | 28.5 | 22.4 | 24.3 |
| Toot procedure AS 1200 5 7 | 1 | | | | | | |
| Test procedure AS 1289.5.7. Test No | 1 | 31 | 32 | 33 | 34 | 35 | 36 |
| Compactive effort | | 31 | 32 | S Stan | | | - 30 |
| 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 | 1.91 | 1.98 | 1.89 | 1.85 | 2.00 | 1.99 |
| Adjusted Peak Converted Wet D | | - | - | - | - | 2.00 | 1.55 |
| Optimum Moisture Content | % | 27.0 | 24.5 | 31.0 | 31.0 | 24.5 | 27.0 |
| | ,,, | | | 0.1.0 | 0.10 | | |
| Moisture Variation From | • | 2.5% | 2.0% | 2.0% | 2.0% | 2.0% | 2.5% |
| Optimum Moisture Conte | | dry | dry | dry | dry | dry | dry |
| I | | | | | | | |
| | | 100.5 | 99.5 | 100.5 | 100.0 | - | - |
| density and moisture ratio | % | | 33.0 | . 100.D | 1 100.0 | 98.5 | 99.5 |



Approved Signatory : Justin Fry



| Project C | VICAL SERVICES Croydon 3136 WINSLOW CONSTRUC DFFICER CENTRAL - S | | | AMPBELLFIE | ELD) | Da Te Da | eport No ate Issued ested by ate tested | 23639/R00 20/10/23 CV 12/10/23 |
|------------------|--|----------|-------------------------|-------------------------|-------------------------|-------------------------|--|---|
| Location (| OFFICER | | | | | CI | necked by | JHF |
| Feature E | EARTHWORKS | | Lay | er thickness | 200 | mm | Time: | 09:02 |
| | e AS 1289.2.1.1 & 5.8. | 1 | | | | | | |
| Test No | | | 37 | 38 | 39 | 40 | 41 | 42 |
| Location | | | REFER TO FIGURE 1 | REFER TO FIGURE 1 |
| Approximate de | pth below FSL | | | | | | | |
| Measurement de | epth | тт | 175 | 175 | 175 | 175 | 175 | 175 |
| Field wet densit | У | t∕m³ | 1.92 | 2.08 | 1.86 | 1.85 | 2.06 | 2.07 |
| Field moisture c | ontent | % | 23.5 | 25.2 | 22.4 | 23.4 | 24.9 | 24.6 |
| Test procedure | e AS 1289.5.7.1 | | | | | | | |
| Test No | | | 37 | 38 | 39 | 40 | 41 | 42 |
| Compactive effo | ort | | | | Star | dard | | |
| Oversize rock re | etained on sieve | тт | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percent of overs | size material | wet | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Converted | l Wet Density | t∕m³ | 1.96 | 2.10 | 1.89 | 1.86 | 2.10 | 2.10 |
| Adjusted Peak (| Converted Wet Density | t∕m³ | - | - | - | - | - | - |
| Optimum Moistu | Ire Content | % | 25.5 | 26.5 | 22.0 | 26.0 | 27.5 | 25.5 |
| Moisture | e Variation From | | 2.0% | 1.0% | 0.5% | 2.5% | 2.0% | 1.0% |
| 0 | Moisture Content | | dry | dry | wet | dry | dry | dry |
| Optimum | nd moisture ratio results | relate c | only to the so | il to the dept | h of test and | not to the fu | I depth of the | e layer |
| | | % | 98.0 | 98.5 | 98.5 | 99.5 | 98.5 | 98.5 |



NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



| IWORKS | 3.1 | Lay 43 REFER TO | er thickness 44 REFER | 200 45 | mm 46 | Time: 47 | |
|------------------|--|--|--|--|---|---|--|
| 1289.2.1.1 & 5.8 | 3.1 | REFER | | 45 | 46 | 47 | 49 |
| | | REFER | | 45 | 46 | 47 | 40 |
| | | | REFER | | | | 48 |
| | | FIGURE 1 | TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 |
| low FSL | | | | | | | |
| | mm | 175 | 175 | 175 | 175 | 175 | 175 |
| | t/m³ | 2.07 | 2.07 | 1.84 | 1.99 | 1.97 | 1.98 |
| 4 | % | 23.5 | 28.2 | 28.4 | 24.5 | 22.5 | 30.3 |
| 1289.5.7.1 | | 42 | 44 | 45 | 46 | 47 | 48 |
| | | 43 | 44 | | | 41 | 40 |
| l on sieve | mm | 19.0 | 19.0 | | | 19.0 | 19.0 |
| | | | | | | | 0 |
| | | | | | | | 1.98 |
| | | - | - | - | - | - | - |
| , | % | 23.5 | 31.0 | 30.0 | 27.0 | 25.0 | 33.0 |
| | | | | | | | |
| tion From | | 0.0% | 2.5% | 1 5% | 2.0% | 2.5% | 2.0% |
| | | 0.070 | | | | | dry |
| | relate o | nly to the so | · · · · · · · · · · · · · · · · · · · | | | | |
| | | - | | | | • | 100.0 |
|) | 70 | 90.0 | 100.0 | 30.0 | 33.0 | 33.0 | 100.0 |
| | t 1289.5.7.1 d on sieve aterial Density rted Wet Density ntent ation From ture Content sture ratio results) | t % 1289.5.7.1 d on sieve mm aterial wet Density t/m ³ rted Wet Density t/m ³ ntent % ation From ture Content sture ratio results relate of | % 23.5 1289.5.7.1 43 d on sieve mm 19.0 aterial wet 0 0 Density t/m³ 2.10 rted Wet Density t/m³ ntent % 23.5 | t % 23.5 28.2 1289.5.7.1 43 44 d on sieve mm 19.0 19.0 aterial wet 0 0 Density t/m³ 2.10 2.07 rted Wet Density t/m³ - - ntent % 23.5 31.0 ation From 0.0% 2.5% dry sture Content vel to the soil to the dept - | t % 23.5 28.2 28.4 1289.5.7.1 43 44 45 1289.5.7.1 43 44 45 d on sieve mm 19.0 19.0 aterial wet 0 0 0 Density t/m³ 2.10 2.07 1.87 rted Wet Density t/m³ - - - ntent % 23.5 31.0 30.0 ation From 0.0% 2.5% 1.5% dry sture Content 0 0 0 y dry ation From 0.0% 2.5% 1.5% dry dry | t % 23.5 28.2 28.4 24.5 1289.5.7.1 43 44 45 46 Standard d on sieve mm 19.0 19.0 19.0 aterial wet 0 0 0 0 Density t/m³ 2.10 2.07 1.87 2.00 rted Wet Density t/m³ - - - - ntent % 23.5 31.0 30.0 27.0 ation From 0.0% 2.5% 1.5% 2.0% ation From 0.0% 2.5% 1.5% 2.0% sture Content vire Content dry dry dry sture ratio results relate only to the soil to the depth of test and not to the full - - | % 23.5 28.2 28.4 24.5 22.5 $1289.5.7.1$ 43 44 45 46 47 43 44 45 46 47 $51000000000000000000000000000000000000$ |



Approved Signatory : Justin Fry



| 8 Rose Avenue, Client Project Location | INICAL SERVICES Croydon 3136 WINSLOW CONSTRUC OFFICER CENTRAL - S OFFICER | | | AMPBELLFI | Da Te Da | eport No ate Issued ested by ate tested hecked by | 23639/R00 09/11/23 CV 31/10/23 JHF | |
|---|---|----------|-------------------------|-------------------------|-------------------------|---|--|-------------------------|
| Feature | EARTHWORKS | | Lay | er thickness | 200 | mm | Time: | 08:20 |
| | re AS 1289.2.1.1 & 5.8. | 1 | 40 | 50 | 54 | 50 | L 50 | 54 |
| Test No | | | 49 | 50 | 51 | 52 | 53 | 54 |
| 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 d | lepth below FSL | | | | | | | |
| Measurement | | mm | 175 | 175 | 175 | 175 | 175 | 175 |
| Field wet dens | | t∕m³ | 1.88 | 1.91 | 2.03 | 2.01 | 1.88 | 2.03 |
| Field moisture | content | % | 22.9 | 20.7 | 23.7 | 21.5 | 22.4 | 22.8 |
| Test procedu | re AS 1289.5.7.1 | | | | | | | |
| Test No | 10/10/1200.0.7.1 | | 49 | 50 | 51 | 52 | 53 | 54 |
| Compactive eff | fort | | | | Stan | | | • |
| | retained on sieve | mm | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percent of ove | rsize material | wet | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Converte | ed Wet Density | t∕m³ | 1.91 | 1.96 | 2.05 | 2.01 | 1.95 | 2.04 |
| | Converted Wet Density | t∕m³ | - | - | - | - | - | - |
| Optimum Mois | ture Content | % | 23.0 | 21.5 | 24.5 | 22.0 | 23.0 | 23.5 |
| | | | | 1 | | | T | |
| | re Variation From | | 0.0% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% |
| Optimui | m Moisture Content | | | dry | dry | dry | dry | dry |
| - | and moisture ratio results | relate o | | - | | | | - |
| - | (R _{HD}) | % | 98.0 | 97.5 | 99.5 | 100.0 | 96.5 | 99.5 |



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



| CIVIL GEOTE | CHNICAL SERVICES | Job No Report No | 23639 23639/R010 |
|-----------------|--|---------------------|---------------------|
| 6 - 8 Rose Aven | ue, Croydon 3136 | Date Issued | 09/11/23 |
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | CV |
| Project | OFFICER CENTRAL - STAGE 7 | Date tested | 01/11/23 |
| Location | OFFICER | Checked by | JHF |

Feature EARTHWORKS

Layer thickness

200 mm

Time: 08:26

Test procedure AS 1289.2.1.1 & 5.8.1

| Test No | | 55 | 56 | 57 | - | - | - |
|-----------------------------|------|-------------------------|-------------------------|-------------------------|---|---|---|
| Location | | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | | | |
| Approximate depth below FSL | | | | | | | |
| Measurement depth | тт | 175 | 175 | 175 | - | - | - |
| Field wet density | t∕m³ | 1.93 | 1.97 | 1.98 | - | - | - |
| Field moisture content | % | 21.8 | 24.3 | 23.2 | - | - | - |

Test procedure AS 1289.5.7.1

| Test No | | 55 | 56 | 57 | - | - | - | |
|-------------------------------------|------|----------|------|------|---|---|---|--|
| Compactive effort | | Standard | | | | | | |
| Oversize rock retained on sieve | mm | 19.0 | 19.0 | 19.0 | - | - | - | |
| Percent of oversize material | wet | 0 | 0 | 0 | - | - | - | |
| Peak Converted Wet Density | t∕m³ | 1.96 | 2.00 | 2.02 | - | - | - | |
| Adjusted Peak Converted Wet Density | t∕m³ | - | - | - | - | - | - | |
| Optimum Moisture Content | % | 22.0 | 24.5 | 23.5 | - | - | - | |

| density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer Density Ratio (R _{HD}) % 98.0 98.5 98.5 - - - - | | | | | | | |
|---|-----|------|------|------|---|-----------------|---|
| Optimum Moisture Content | 1-1 | | | | | Laborath of the | |
| Moisture Variation From | | 0.0% | 0.0% | 0.0% | - | - | - |

Material description

No 55 - 57 Clay Fill



NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



| CIVIL GEOTECH | NICAL SERVICES | Job No Report No | 23639 23639/R011 |
|--------------------|--|---------------------|---------------------|
| 6 - 8 Rose Avenue, | Croydon 3136 | Date Issued | 29/11/23 |
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | CV |
| Project | OFFICER CENTRAL - STAGE 7 | Date tested | 23/11/23 |
| Location | OFFICER | Checked by | JHF |

Feature EARTHWORKS

Layer thickness

200 mm

Time: 08:14

Test procedure AS 1289.2.1.1 & 5.8.1

| Test No | | 58 | 59 | 60 | - | - | - |
|-----------------------------|------|-------------------------|-------------------------|-------------------------|---|---|---|
| Location | | REFER TO FIGURE 1 | REFER TO FIGURE 1 | REFER TO FIGURE 1 | | | |
| Approximate depth below FSL | | | | | | | |
| Measurement depth | тт | 175 | 175 | 175 | - | - | - |
| Field wet density | t∕m³ | 1.87 | 1.93 | 2.05 | - | - | - |
| Field moisture content | % | 21.3 | 21.4 | 23.2 | - | - | - |

Test procedure AS 1289.5.7.1

| Test No | | 58 | 59 | 60 | - | - | - |
|-------------------------------------|------|----------|------|------|---|---|---|
| Compactive effort | | Standard | | | | | |
| Oversize rock retained on sieve | mm | 19.0 | 19.0 | 19.0 | - | - | - |
| Percent of oversize material | wet | 0 | 0 | 0 | - | - | - |
| Peak Converted Wet Density | t∕m³ | 1.89 | 1.96 | 2.11 | - | - | - |
| Adjusted Peak Converted Wet Density | t∕m³ | - | - | - | - | - | - |
| Optimum Moisture Content | % | 23.0 | 23.5 | 25.0 | - | - | - |

| Density Ratio(R _{HD}) | % | 99.0 | 98.5 | 97.5 | - | - | - | |
|--|---|------|------|------|---|---|---|--|
| density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer | | | | | | | | |
| Optimum Moisture Content | | dry | dry | dry | | | | |
| Moisture Variation From | | 2.0% | 2.0% | 2.0% | - | - | - | |

Material description

No 58 - 60 Clay Fill



NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry