



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R001  
Date Issued 20/02/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 20/02/24 |
| Location | MELTON SOUTH                                 | Checked by  | JHF      |

|                |                           |                        |        |              |          |
|----------------|---------------------------|------------------------|--------|--------------|----------|
| <b>Feature</b> | <b>CONSTRUCTION LAYER</b> | <b>Layer thickness</b> | 150 mm | <b>Time:</b> | 08:52:33 |
|----------------|---------------------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       |                  | 1                  | 2             | 3             | 4             | 5             | 6                |
|-------------------------------|------------------|--------------------|---------------|---------------|---------------|---------------|------------------|
| Location                      |                  | Shelterbelt Avenue |               |               |               | Cadastral Way | Councillor Drive |
| Chainage                      |                  | 1300               | 1350          | 1400          | 1450          | 25            | 190              |
| Offset                        |                  | 1.8                | 1.9           | 1.8           | 1.8           | 1.8           | 1.8              |
|                               |                  | north of kerb      | south of kerb | north of kerb | south of kerb | east of kerb  | west of kerb     |
| Approximate depth from F.S.L. | m                |                    |               |               |               |               |                  |
| Measurement depth             | mm               | 125                | 125           | 125           | 125           | 125           | 125              |
| Field wet density             | t/m <sup>3</sup> | 2.21               | 2.20          | 2.21          | 2.21          | 2.23          | 2.21             |
| Field dry density             | t/m <sup>3</sup> | 2.01               | 2.02          | 2.02          | 2.01          | 2.03          | 2.01             |
| Field moisture content        | %                | 10.0               | 9.0           | 9.0           | 10.0          | 9.5           | 10.0             |

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVEA)

|                              |                  |                                  |
|------------------------------|------------------|----------------------------------|
| Date of assignment           |                  | 24/01/2024                       |
| Material source and location |                  | 40mm Capping - MVQ, Wyndham Vale |
| Compactive effort            |                  | STANDARD                         |
| Maximum Dry Density          | t/m <sup>3</sup> | 2.01                             |
| Optimum Moisture Content     | %                | 11.5                             |

Test procedure AS 1289.5.4.1

|                                   |                  |      |      |      |      |      |      |
|-----------------------------------|------------------|------|------|------|------|------|------|
| Oversize rock retained on sieve   | mm               | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 |
| Percent of oversize material      | wet              | -    | -    | -    | -    | -    | -    |
| Percent of oversize material      | dry              | -    | -    | -    | -    | -    | -    |
| Adjusted Maximum Dry Density      | t/m <sup>3</sup> | -    | -    | -    | -    | -    | -    |
| Adjusted Optimum Moisture Content | %                | -    | -    | -    | -    | -    | -    |

|                                                         |  |             |             |             |             |             |             |
|---------------------------------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Moisture Variation From Optimum Moisture Content</b> |  | 1.5%<br>dry | 2.0%<br>dry | 2.0%<br>dry | 1.5%<br>dry | 1.5%<br>dry | 1.5%<br>dry |
|---------------------------------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|

|                                       |   |      |      |      |      |      |      |
|---------------------------------------|---|------|------|------|------|------|------|
| <b>Moisture Ratio (R<sub>m</sub>)</b> | % | 86.5 | 81.5 | 80.5 | 88.0 | 85.5 | 88.5 |
|---------------------------------------|---|------|------|------|------|------|------|

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

|                                      |   |       |       |       |       |       |       |
|--------------------------------------|---|-------|-------|-------|-------|-------|-------|
| <b>Density Ratio (R<sub>D</sub>)</b> | % | 100.0 | 100.0 | 100.5 | 100.0 | 101.0 | 100.0 |
|--------------------------------------|---|-------|-------|-------|-------|-------|-------|

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# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R002  
Date Issued 20/02/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 20/02/24 |
| Location | MELTON SOUTH                                 | Checked by  | JHF      |

|                |                           |                        |        |              |          |
|----------------|---------------------------|------------------------|--------|--------------|----------|
| <b>Feature</b> | <b>CONSTRUCTION LAYER</b> | <i>Layer thickness</i> | 150 mm | <i>Time:</i> | 08:54:31 |
|----------------|---------------------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       |                        | 7                | 8       | 9       |  |  |  |
|-------------------------------|------------------------|------------------|---------|---------|--|--|--|
| Location                      |                        | Uplands Crescent |         |         |  |  |  |
|                               | <i>Chainage</i>        | 170              | 190     | 210     |  |  |  |
|                               | <i>Offset</i>          | 1.8              | 1.8     | 1.8     |  |  |  |
|                               |                        | east             | west    | east    |  |  |  |
|                               |                        | of kerb          | of kerb | of kerb |  |  |  |
| Approximate depth from F.S.L. | <i>m</i>               |                  |         |         |  |  |  |
| Measurement depth             | <i>mm</i>              | 125              | 125     | 125     |  |  |  |
| Field wet density             | <i>t/m<sup>3</sup></i> | 2.21             | 2.22    | 2.21    |  |  |  |
| Field dry density             | <i>t/m<sup>3</sup></i> | 2.01             | 2.01    | 2.02    |  |  |  |
| Field moisture content        | <i>%</i>               | 10.0             | 10.5    | 9.5     |  |  |  |

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVEA)

|                              |                        |                                  |  |  |  |  |  |
|------------------------------|------------------------|----------------------------------|--|--|--|--|--|
| Date of assignment           |                        | 24/01/2024                       |  |  |  |  |  |
| Material source and location |                        | 40mm Capping - MVQ, Wyndham Vale |  |  |  |  |  |
| Compactive effort            |                        | STANDARD                         |  |  |  |  |  |
| Maximum Dry Density          | <i>t/m<sup>3</sup></i> | 2.01                             |  |  |  |  |  |
| Optimum Moisture Content     | <i>%</i>               | 11.5                             |  |  |  |  |  |

Test procedure AS 1289.5.4.1

|                                   |                        |      |      |      |  |  |  |
|-----------------------------------|------------------------|------|------|------|--|--|--|
| Oversize rock retained on sieve   | <i>mm</i>              | 37.5 | 37.5 | 37.5 |  |  |  |
| Percent of oversize material      | <i>wet</i>             | -    | -    | -    |  |  |  |
| Percent of oversize material      | <i>dry</i>             | -    | -    | -    |  |  |  |
| Adjusted Maximum Dry Density      | <i>t/m<sup>3</sup></i> | -    | -    | -    |  |  |  |
| Adjusted Optimum Moisture Content | <i>%</i>               | -    | -    | -    |  |  |  |

|                                                         |  |      |      |      |  |  |  |
|---------------------------------------------------------|--|------|------|------|--|--|--|
| <b>Moisture Variation From Optimum Moisture Content</b> |  | 1.0% | 1.0% | 1.5% |  |  |  |
|                                                         |  | dry  | dry  | dry  |  |  |  |

|                                       |          |      |      |      |  |  |  |
|---------------------------------------|----------|------|------|------|--|--|--|
| <b>Moisture Ratio (R<sub>m</sub>)</b> | <i>%</i> | 89.0 | 91.0 | 85.0 |  |  |  |
|---------------------------------------|----------|------|------|------|--|--|--|

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

|                                      |          |       |       |       |  |  |  |
|--------------------------------------|----------|-------|-------|-------|--|--|--|
| <b>Density Ratio (R<sub>D</sub>)</b> | <i>%</i> | 100.0 | 100.0 | 100.0 |  |  |  |
|--------------------------------------|----------|-------|-------|-------|--|--|--|

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# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R003  
Date Issued 26/02/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 26/02/24 |
| Location | MELTON SOUTH                                 | Checked by  | JHF      |

|                |                |                        |        |              |          |
|----------------|----------------|------------------------|--------|--------------|----------|
| <b>Feature</b> | <b>CAPPING</b> | <b>Layer thickness</b> | 150 mm | <b>Time:</b> | 08:24:04 |
|----------------|----------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       |                  | 10                 | 11            | 12            | 13            | 14            | 15               |
|-------------------------------|------------------|--------------------|---------------|---------------|---------------|---------------|------------------|
| Location                      |                  | Shelterbelt Avenue |               |               |               | Cadastral Way | Councillor Drive |
| Chainage                      |                  | 1300               | 1350          | 1400          | 1450          | 25            | 190              |
| Offset                        |                  | 1.8                | 1.7           | 1.8           | 1.8           | 1.8           | 1.8              |
|                               |                  | north of kerb      | south of kerb | north of kerb | south of kerb | east of kerb  | west of kerb     |
| Approximate depth from F.S.L. | m                |                    |               |               |               |               |                  |
| Measurement depth             | mm               | 125                | 125           | 125           | 125           | 125           | 125              |
| Field wet density             | t/m <sup>3</sup> | 2.24               | 2.24          | 2.26          | 2.25          | 2.23          | 2.26             |
| Field dry density             | t/m <sup>3</sup> | 2.02               | 2.02          | 2.04          | 2.03          | 2.03          | 2.03             |
| Field moisture content        | %                | 11.0               | 11.0          | 11.0          | 11.0          | 10.0          | 11.5             |

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVEA)

|                              |                  |                                  |
|------------------------------|------------------|----------------------------------|
| Date of assignment           |                  | 24/01/2024                       |
| Material source and location |                  | 40mm Capping - MVQ, Wyndham Vale |
| Compactive effort            |                  | STANDARD                         |
| Maximum Dry Density          | t/m <sup>3</sup> | 2.01                             |
| Optimum Moisture Content     | %                | 11.5                             |

Test procedure AS 1289.5.4.1

|                                   |                  |      |      |      |      |      |      |
|-----------------------------------|------------------|------|------|------|------|------|------|
| Oversize rock retained on sieve   | mm               | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 |
| Percent of oversize material      | wet              | -    | -    | -    | -    | -    | -    |
| Percent of oversize material      | dry              | -    | -    | -    | -    | -    | -    |
| Adjusted Maximum Dry Density      | t/m <sup>3</sup> | -    | -    | -    | -    | -    | -    |
| Adjusted Optimum Moisture Content | %                | -    | -    | -    | -    | -    | -    |

|                                                         |  |          |          |          |          |          |          |
|---------------------------------------------------------|--|----------|----------|----------|----------|----------|----------|
| <b>Moisture Variation From Optimum Moisture Content</b> |  | 0.5% dry | 0.5% dry | 0.5% dry | 0.5% dry | 1.5% dry | 0.0% dry |
|---------------------------------------------------------|--|----------|----------|----------|----------|----------|----------|

|                                         |   |      |      |      |      |      |       |
|-----------------------------------------|---|------|------|------|------|------|-------|
| <b>Moisture Ratio ( R<sub>m</sub> )</b> | % | 98.0 | 98.0 | 96.5 | 96.5 | 87.0 | 100.0 |
|-----------------------------------------|---|------|------|------|------|------|-------|

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

|                                        |   |       |       |       |       |       |       |
|----------------------------------------|---|-------|-------|-------|-------|-------|-------|
| <b>Density Ratio ( R<sub>D</sub> )</b> | % | 100.5 | 100.5 | 101.0 | 100.5 | 101.0 | 101.0 |
|----------------------------------------|---|-------|-------|-------|-------|-------|-------|

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# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R004  
Date Issued 26/02/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 26/02/24 |
| Location | MELTON SOUTH                                 | Checked by  | JHF      |

|                |                |                        |        |              |          |
|----------------|----------------|------------------------|--------|--------------|----------|
| <b>Feature</b> | <b>CAPPING</b> | <b>Layer thickness</b> | 150 mm | <b>Time:</b> | 08:28:41 |
|----------------|----------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       |                  | 16               | 17      | 18      |  |  |  |
|-------------------------------|------------------|------------------|---------|---------|--|--|--|
| Location                      |                  | Uplands Crescent |         |         |  |  |  |
|                               | Chainage         | 170              | 190     | 210     |  |  |  |
|                               | Offset           | 1.8              | 1.8     | 1.7     |  |  |  |
|                               |                  | east             | west    | east    |  |  |  |
|                               |                  | of kerb          | of kerb | of kerb |  |  |  |
| Approximate depth from F.S.L. | m                |                  |         |         |  |  |  |
| Measurement depth             | mm               | 125              | 125     | 125     |  |  |  |
| Field wet density             | t/m <sup>3</sup> | 2.24             | 2.25    | 2.22    |  |  |  |
| Field dry density             | t/m <sup>3</sup> | 2.03             | 2.02    | 2.02    |  |  |  |
| Field moisture content        | %                | 10.5             | 11.5    | 10.0    |  |  |  |

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVEA)

|                              |                  |                                  |  |  |  |  |  |
|------------------------------|------------------|----------------------------------|--|--|--|--|--|
| Date of assignment           |                  | 24/01/2024                       |  |  |  |  |  |
| Material source and location |                  | 40mm Capping - MVQ, Wyndham Vale |  |  |  |  |  |
| Compactive effort            |                  | STANDARD                         |  |  |  |  |  |
| Maximum Dry Density          | t/m <sup>3</sup> | 2.01                             |  |  |  |  |  |
| Optimum Moisture Content     | %                | 11.5                             |  |  |  |  |  |

Test procedure AS 1289.5.4.1

|                                   |                  |      |      |      |  |  |  |
|-----------------------------------|------------------|------|------|------|--|--|--|
| Oversize rock retained on sieve   | mm               | 37.5 | 37.5 | 37.5 |  |  |  |
| Percent of oversize material      | wet              | -    | -    | -    |  |  |  |
| Percent of oversize material      | dry              | -    | -    | -    |  |  |  |
| Adjusted Maximum Dry Density      | t/m <sup>3</sup> | -    | -    | -    |  |  |  |
| Adjusted Optimum Moisture Content | %                | -    | -    | -    |  |  |  |

|                                                         |  |             |             |             |  |  |  |
|---------------------------------------------------------|--|-------------|-------------|-------------|--|--|--|
| <b>Moisture Variation From Optimum Moisture Content</b> |  | 0.5%<br>dry | 0.0%<br>wet | 1.0%<br>dry |  |  |  |
|---------------------------------------------------------|--|-------------|-------------|-------------|--|--|--|

|                                         |   |      |       |      |  |  |  |
|-----------------------------------------|---|------|-------|------|--|--|--|
| <b>Moisture Ratio ( R<sub>m</sub> )</b> | % | 94.0 | 100.0 | 89.0 |  |  |  |
|-----------------------------------------|---|------|-------|------|--|--|--|

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

|                                        |   |       |       |       |  |  |  |
|----------------------------------------|---|-------|-------|-------|--|--|--|
| <b>Density Ratio ( R<sub>D</sub> )</b> | % | 100.5 | 100.5 | 100.5 |  |  |  |
|----------------------------------------|---|-------|-------|-------|--|--|--|

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# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R005  
Date Issued 28/02/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 28/02/24 |
| Location | MELTON                                       | Checked by  | JHF      |

|                |                |                        |        |              |          |
|----------------|----------------|------------------------|--------|--------------|----------|
| <b>Feature</b> | <b>CLASS 3</b> | <b>Layer thickness</b> | 120 mm | <b>Time:</b> | 11:55:50 |
|----------------|----------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       |                  | 19                 | 20            | 21            | 22            | 23            | 24               |
|-------------------------------|------------------|--------------------|---------------|---------------|---------------|---------------|------------------|
| Location                      |                  | Shelterbelt Avenue |               |               |               | Cadastral Way | Councillor Drive |
| Chainage                      |                  | 1300               | 1350          | 1400          | 1450          | 25            | 190              |
| Offset                        |                  | 1.8                | 1.8           | 1.8           | 1.8           | 1.8           | 1.8              |
|                               |                  | north of kerb      | south of kerb | north of kerb | south of kerb | east of kerb  | west of kerb     |
| Approximate depth from F.S.L. | m                |                    |               |               |               |               |                  |
| Measurement depth             | mm               | 100                | 100           | 100           | 100           | 100           | 100              |
| Field wet density             | t/m <sup>3</sup> | 2.39               | 2.42          | 2.45          | 2.42          | 2.41          | 2.43             |
| Field dry density             | t/m <sup>3</sup> | 2.24               | 2.25          | 2.29          | 2.25          | 2.24          | 2.26             |
| Field moisture content        | %                | 6.5                | 7.5           | 7.0           | 7.0           | 7.5           | 7.5              |

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVJP)

|                              |                  |                                  |
|------------------------------|------------------|----------------------------------|
| Date of assignment           |                  | 19/01/2024                       |
| Material source and location |                  | 20mm Class 3 - MVQ, Wyndham Vale |
| Compactive effort            |                  | MODIFIED                         |
| Maximum Dry Density          | t/m <sup>3</sup> | 2.28                             |
| Optimum Moisture Content     | %                | 8.0                              |

Test procedure AS 1289.5.4.1

|                                   |                  |      |      |      |      |      |      |
|-----------------------------------|------------------|------|------|------|------|------|------|
| Oversize rock retained on sieve   | mm               | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percent of oversize material      | wet              | -    | -    | -    | -    | -    | -    |
| Percent of oversize material      | dry              | -    | -    | -    | -    | -    | -    |
| Adjusted Maximum Dry Density      | t/m <sup>3</sup> | -    | -    | -    | -    | -    | -    |
| Adjusted Optimum Moisture Content | %                | -    | -    | -    | -    | -    | -    |

|                                                         |  |          |          |          |          |          |          |
|---------------------------------------------------------|--|----------|----------|----------|----------|----------|----------|
| <b>Moisture Variation From Optimum Moisture Content</b> |  | 1.0% dry | 0.5% dry | 0.5% dry | 0.5% dry | 0.0% dry | 0.0% dry |
|---------------------------------------------------------|--|----------|----------|----------|----------|----------|----------|

|                                       |   |      |      |      |      |      |      |
|---------------------------------------|---|------|------|------|------|------|------|
| <b>Moisture Ratio (R<sub>m</sub>)</b> | % | 84.5 | 95.0 | 93.0 | 93.0 | 97.0 | 97.0 |
|---------------------------------------|---|------|------|------|------|------|------|

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

|                                      |   |      |      |       |      |      |      |
|--------------------------------------|---|------|------|-------|------|------|------|
| <b>Density Ratio (R<sub>D</sub>)</b> | % | 98.0 | 98.5 | 100.0 | 98.5 | 98.0 | 99.0 |
|--------------------------------------|---|------|------|-------|------|------|------|

A581ASSIGNED V1.13 MAR 13



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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R006  
Date Issued 28/02/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 28/02/24 |
| Location | MELTON SOUTH                                 | Checked by  | JHF      |

|         |         |                 |        |       |          |
|---------|---------|-----------------|--------|-------|----------|
| Feature | CLASS 3 | Layer thickness | 120 mm | Time: | 11:59:25 |
|---------|---------|-----------------|--------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       |                  | 25               | 26      | 27      |  |  |  |
|-------------------------------|------------------|------------------|---------|---------|--|--|--|
| Location                      |                  | Uplands Crescent |         |         |  |  |  |
|                               | Chainage         | 170              | 190     | 210     |  |  |  |
|                               | Offset           | 1.8              | 1.8     | 1.8     |  |  |  |
|                               |                  | east             | west    | east    |  |  |  |
|                               |                  | of kerb          | of kerb | of kerb |  |  |  |
| Approximate depth from F.S.L. | m                |                  |         |         |  |  |  |
| Measurement depth             | mm               | 100              | 100     | 100     |  |  |  |
| Field wet density             | t/m <sup>3</sup> | 2.41             | 2.45    | 2.40    |  |  |  |
| Field dry density             | t/m <sup>3</sup> | 2.26             | 2.30    | 2.25    |  |  |  |
| Field moisture content        | %                | 6.5              | 6.5     | 6.5     |  |  |  |

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVJP)

|                              |                  |                                  |  |  |  |  |  |
|------------------------------|------------------|----------------------------------|--|--|--|--|--|
| Date of assignment           |                  | 19/01/2024                       |  |  |  |  |  |
| Material source and location |                  | 20mm Class 3 - MVQ, Wyndham Vale |  |  |  |  |  |
| Compactive effort            |                  | MODIFIED                         |  |  |  |  |  |
| Maximum Dry Density          | t/m <sup>3</sup> | 2.28                             |  |  |  |  |  |
| Optimum Moisture Content     | %                | 8.0                              |  |  |  |  |  |

Test procedure AS 1289.5.4.1

|                                   |                  |      |      |      |  |  |  |
|-----------------------------------|------------------|------|------|------|--|--|--|
| Oversize rock retained on sieve   | mm               | 19.0 | 19.0 | 19.0 |  |  |  |
| Percent of oversize material      | wet              | -    | -    | -    |  |  |  |
| Percent of oversize material      | dry              | -    | -    | -    |  |  |  |
| Adjusted Maximum Dry Density      | t/m <sup>3</sup> | -    | -    | -    |  |  |  |
| Adjusted Optimum Moisture Content | %                | -    | -    | -    |  |  |  |

|                                                  |  |             |             |             |  |  |  |
|--------------------------------------------------|--|-------------|-------------|-------------|--|--|--|
| Moisture Variation From Optimum Moisture Content |  | 1.0%<br>dry | 1.0%<br>dry | 1.0%<br>dry |  |  |  |
|--------------------------------------------------|--|-------------|-------------|-------------|--|--|--|

|                                  |   |      |      |      |  |  |  |
|----------------------------------|---|------|------|------|--|--|--|
| Moisture Ratio (R <sub>m</sub> ) | % | 84.0 | 85.0 | 85.5 |  |  |  |
|----------------------------------|---|------|------|------|--|--|--|

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 <sub>D</sub> ) | % | 99.0 | 101.0 | 98.5 |  |  |  |
|---------------------------------|---|------|-------|------|--|--|--|

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# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R007  
Date Issued 06/03/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 06/03/24 |
| Location | MELTON SOUTH                                 | Checked by  | JHF      |

|                |                |                        |        |              |          |
|----------------|----------------|------------------------|--------|--------------|----------|
| <b>Feature</b> | <b>CLASS 2</b> | <b>Layer thickness</b> | 130 mm | <b>Time:</b> | 13:36:37 |
|----------------|----------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       | 28                 | 29            | 30            | 31            | 32            | 33               |
|-------------------------------|--------------------|---------------|---------------|---------------|---------------|------------------|
| Location                      | Shelterbelt Avenue |               |               |               | Cadastral Way | Councillor Drive |
| Chainage                      | 1300               | 1350          | 1400          | 1450          | 25            | 190              |
| Offset                        | 1.8                | 1.8           | 1.8           | 1.8           | 1.8           | 1.8              |
|                               | north of kerb      | south of kerb | north of kerb | south of kerb | east of kerb  | west of kerb     |
| Approximate depth from F.S.L. | m                  |               |               |               |               |                  |
| Measurement depth             | mm                 | 125           | 125           | 125           | 125           | 125              |
| Field wet density             | t/m <sup>3</sup>   | 2.43          | 2.44          | 2.44          | 2.43          | 2.44             |
| Field dry density             | t/m <sup>3</sup>   | 2.31          | 2.32          | 2.32          | 2.30          | 2.32             |
| Field moisture content        | %                  | 5.0           | 5.0           | 5.5           | 5.5           | 5.5              |

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MWVIU)

|                              |                                  |
|------------------------------|----------------------------------|
| Date of assignment           | 07/02/2024                       |
| Material source and location | 20mm Class 2 - MVQ, Wyndham Vale |
| Compactive effort            | MODIFIED                         |
| Maximum Dry Density          | t/m <sup>3</sup> 2.31            |
| Optimum Moisture Content     | % 7.0                            |

Test procedure AS 1289.5.4.1

|                                   |                  |      |      |      |      |      |      |
|-----------------------------------|------------------|------|------|------|------|------|------|
| Oversize rock retained on sieve   | mm               | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percent of oversize material      | wet              | -    | -    | -    | -    | -    | -    |
| Percent of oversize material      | dry              | -    | -    | -    | -    | -    | -    |
| Adjusted Maximum Dry Density      | t/m <sup>3</sup> | -    | -    | -    | -    | -    | -    |
| Adjusted Optimum Moisture Content | %                | -    | -    | -    | -    | -    | -    |

|                                                         |          |          |          |          |          |          |
|---------------------------------------------------------|----------|----------|----------|----------|----------|----------|
| <b>Moisture Variation From Optimum Moisture Content</b> | 2.0% dry | 2.0% dry | 2.0% dry | 1.5% dry | 2.0% dry | 1.5% dry |
|---------------------------------------------------------|----------|----------|----------|----------|----------|----------|

|                                       |   |      |      |      |      |      |      |
|---------------------------------------|---|------|------|------|------|------|------|
| <b>Moisture Ratio (R<sub>m</sub>)</b> | % | 73.5 | 74.0 | 74.5 | 78.0 | 72.0 | 78.5 |
|---------------------------------------|---|------|------|------|------|------|------|

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

|                                      |   |       |       |       |       |       |       |
|--------------------------------------|---|-------|-------|-------|-------|-------|-------|
| <b>Density Ratio (R<sub>D</sub>)</b> | % | 100.0 | 100.5 | 100.5 | 100.0 | 100.5 | 100.5 |
|--------------------------------------|---|-------|-------|-------|-------|-------|-------|

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# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 24111  
Report No 24111/R008  
Date Issued 06/03/2024

|          |                                              |             |          |
|----------|----------------------------------------------|-------------|----------|
| Client   | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by   | AM       |
| Project  | SEVENTH BEND - STAGE 19                      | Date tested | 06/03/24 |
| Location | MELTON SOUTH                                 | Checked by  | JHF      |

|         |         |                 |        |       |          |
|---------|---------|-----------------|--------|-------|----------|
| Feature | CLASS 2 | Layer thickness | 130 mm | Time: | 13:38:41 |
|---------|---------|-----------------|--------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No                       |                  | 34               | 35      | 36      |  |  |  |
|-------------------------------|------------------|------------------|---------|---------|--|--|--|
| Location                      |                  | Uplands Crescent |         |         |  |  |  |
|                               | Chainage         | 170              | 190     | 210     |  |  |  |
|                               | Offset           | 1.8              | 1.8     | 1.8     |  |  |  |
|                               |                  | east             | west    | east    |  |  |  |
|                               |                  | of kerb          | of kerb | of kerb |  |  |  |
| Approximate depth from F.S.L. | m                |                  |         |         |  |  |  |
| Measurement depth             | mm               | 125              | 125     | 125     |  |  |  |
| Field wet density             | t/m <sup>3</sup> | 2.43             | 2.45    | 2.43    |  |  |  |
| Field dry density             | t/m <sup>3</sup> | 2.31             | 2.31    | 2.30    |  |  |  |
| Field moisture content        | %                | 5.0              | 5.5     | 5.5     |  |  |  |

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MWVIU)

|                              |                  |                                  |  |  |  |  |  |
|------------------------------|------------------|----------------------------------|--|--|--|--|--|
| Date of assignment           |                  | 07/02/2024                       |  |  |  |  |  |
| Material source and location |                  | 20mm Class 2 - MVQ, Wyndham Vale |  |  |  |  |  |
| Compactive effort            |                  | MODIFIED                         |  |  |  |  |  |
| Maximum Dry Density          | t/m <sup>3</sup> | 2.31                             |  |  |  |  |  |
| Optimum Moisture Content     | %                | 7.0                              |  |  |  |  |  |

Test procedure AS 1289.5.4.1

|                                   |                  |      |      |      |  |  |  |
|-----------------------------------|------------------|------|------|------|--|--|--|
| Oversize rock retained on sieve   | mm               | 19.0 | 19.0 | 19.0 |  |  |  |
| Percent of oversize material      | wet              | -    | -    | -    |  |  |  |
| Percent of oversize material      | dry              | -    | -    | -    |  |  |  |
| Adjusted Maximum Dry Density      | t/m <sup>3</sup> | -    | -    | -    |  |  |  |
| Adjusted Optimum Moisture Content | %                | -    | -    | -    |  |  |  |

|                                                  |  |             |             |             |  |  |  |
|--------------------------------------------------|--|-------------|-------------|-------------|--|--|--|
| Moisture Variation From Optimum Moisture Content |  | 2.0%<br>dry | 1.5%<br>dry | 1.5%<br>dry |  |  |  |
|--------------------------------------------------|--|-------------|-------------|-------------|--|--|--|

|                                  |   |      |      |      |  |  |  |
|----------------------------------|---|------|------|------|--|--|--|
| Moisture Ratio (R <sub>m</sub> ) | % | 72.0 | 81.0 | 79.0 |  |  |  |
|----------------------------------|---|------|------|------|--|--|--|

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 <sub>D</sub> ) | % | 100.0 | 100.5 | 100.0 |  |  |  |
|---------------------------------|---|-------|-------|-------|--|--|--|

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