



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20035
Report No 20035/R001
Date Issued 31/01/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 30/01/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|------------------------|--------|--------------|----------|
| Feature | CAPPING | Layer thickness | 160 mm | Time: | 10:30:00 |
|----------------|----------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No | | 1 | 2 | 3 | | | |
|-------------------------------|------------------|----------------|---------|---------|--|--|--|
| Location | | St Arnaud Road | | | | | |
| | Chainage | 850 | 900 | 950 | | | |
| | Offset | 2.0 | 1.8 | 1.6 | | | |
| | | east | west | north | | | |
| | | of kerb | of kerb | of kerb | | | |
| Approximate depth from F.S.L. | m | | | | | | |
| Measurement depth | mm | 150 | 150 | 150 | | | |
| Field wet density | t/m ³ | 2.15 | 2.20 | 2.20 | | | |
| Field dry density | t/m ³ | 1.93 | 1.95 | 1.95 | | | |
| Field moisture content | % | 11.5 | 13.0 | 12.5 | | | |

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

| | | |
|------------------------------|------------------|----------------------------------|
| Date of assignment | | 15/01/2020 |
| Material source and location | | 40mm Capping - MVQ, Wyndham Vale |
| Compactive effort | | STANDARD |
| Maximum Dry Density | t/m ³ | 1.96 |
| Optimum Moisture Content | % | 14.5 |

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 ³ | - | - | - | | | |
| Adjusted Optimum Moisture Content | % | - | - | - | | | |

| | | | | | | | |
|---|--|-------------|-------------|-------------|--|--|--|
| Moisture Variation From Optimum Moisture Content | | 3.5% dry | 1.5% dry | 2.0% dry | | | |
|---|--|-------------|-------------|-------------|--|--|--|

| | | | | | | | |
|---|---|------|------|------|--|--|--|
| Moisture Ratio (R_m) | % | 77.5 | 90.5 | 85.5 | | | |
|---|---|------|------|------|--|--|--|

| | | | | | | | |
|--|---|------|------|-------|--|--|--|
| Density Ratio (R_D) | % | 98.5 | 99.5 | 100.0 | | | |
|--|---|------|------|-------|--|--|--|

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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20035
 Report No 20035/R002
 Date Issued 03/02/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 03/02/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|-----------------|--------|-------|----------|
| Feature | CAPPING | Layer thickness | 160 mm | Time: | 08:45:00 |
|----------------|----------------|-----------------|--------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 4 | 5 | 6 | | | |
|-------------------------------|------------------|---------|---------|------|--|--|
| Location | St Arnaud Loop | | | | | |
| Chainage | 970 | 1010 | 1050 | | | |
| Offset | 1.8 | 1.5 | 1.7 | | | |
| | west | east | west | | | |
| | of kerb | of kerb | of kerb | | | |
| Approximate depth from F.S.L. | m | | | | | |
| Measurement depth | mm | 150 | 150 | 150 | | |
| Field wet density | t/m ³ | 2.16 | 2.15 | 2.16 | | |
| Field dry density | t/m ³ | 1.94 | 1.94 | 1.93 | | |
| Field moisture content | % | 11.0 | 11.0 | 12.0 | | |

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

| | |
|------------------------------|----------------------------------|
| Date of assignment | 15/01/2020 |
| Material source and location | 40mm Capping - MVQ, Wyndham Vale |
| Compactive effort | STANDARD |
| Maximum Dry Density | t/m ³ 1.96 |
| Optimum Moisture Content | % 14.5 |

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 ³ | - | - | - | | | |
| Adjusted Optimum Moisture Content | % | - | - | - | | | |

| | | | | | | | |
|---|--|------|------|------|--|--|--|
| Moisture Variation From Optimum Moisture Content | | 3.5% | 3.5% | 2.5% | | | |
| | | dry | dry | dry | | | |

| | | | | | | | |
|---|---|------|------|------|--|--|--|
| Moisture Ratio (R_m) | % | 77.0 | 77.0 | 81.0 | | | |
|---|---|------|------|------|--|--|--|

| | | | | | | | |
|--|---|------|------|------|--|--|--|
| Density Ratio (R_D) | % | 99.0 | 99.0 | 99.0 | | | |
|--|---|------|------|------|--|--|--|

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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20035
 Report No 20035/R003
 Date Issued 03/02/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 03/02/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|-----------------|--------|-------|----------|
| Feature | CAPPING | Layer thickness | 150 mm | Time: | 08:45:00 |
|----------------|----------------|-----------------|--------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 7 | 8 | 9 | 10 | 11 | 12 |
|-------------------------------|------------------|---------|---------|----------------|---------|---------|
| Location | Wandin Way | | | Gruyere Street | | |
| Chainage | 130 | 80 | 30 | 270 | 210 | 150 |
| Offset | 1.3 | 1.5 | 1.6 | 1.4 | 1.8 | 2.0 |
| | north | south | east | east | west | east |
| | of kerb | of kerb | of kerb | of kerb | of kerb | of kerb |
| Approximate depth from F.S.L. | m | | | | | |
| Measurement depth | mm | 125 | 125 | 125 | 125 | 125 |
| Field wet density | t/m ³ | 2.19 | 2.20 | 2.24 | 2.20 | 2.21 |
| Field dry density | t/m ³ | 1.96 | 1.97 | 1.98 | 1.96 | 1.97 |
| Field moisture content | % | 12.0 | 12.0 | 13.0 | 12.0 | 12.5 |

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

| | |
|------------------------------|----------------------------------|
| Date of assignment | 15/01/2020 |
| Material source and location | 40mm Capping - MVQ, Wyndham Vale |
| Compactive effort | STANDARD |
| Maximum Dry Density | t/m ³ 1.96 |
| Optimum Moisture Content | % 14.5 |

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 ³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content | % | - | - | - | - | - | - |

| | | | | | | |
|---|------|------|------|------|------|------|
| Moisture Variation From Optimum Moisture Content | 2.5% | 2.5% | 1.5% | 2.5% | 2.5% | 2.0% |
| | dry | dry | dry | dry | dry | dry |

| | | | | | | | |
|-----------------------------------|---|------|------|------|------|------|------|
| Moisture Ratio (R _m) | % | 81.5 | 81.5 | 90.0 | 83.0 | 84.0 | 85.5 |
|-----------------------------------|---|------|------|------|------|------|------|

| | | | | | | | |
|----------------------------------|---|--------------|--------------|--------------|--------------|--------------|-------------|
| Density Ratio (R _D) | % | 100.5 | 100.5 | 101.5 | 100.5 | 100.5 | 98.5 |
|----------------------------------|---|--------------|--------------|--------------|--------------|--------------|-------------|

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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20035
 Report No 20035/R004
 Date Issued 03/02/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 03/02/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|-----------------|--------|-------|----------|
| Feature | CAPPING | Layer thickness | 150 mm | Time: | 08:45:00 |
|----------------|----------------|-----------------|--------|-------|----------|

| AS 12892.1.1 & 5.8.1 | | | | | | | |
|--|----------------------------------|---------------|----------------|---------------|-----------------|---------------|-------|
| Test No | 13 | 14 | 15 | 16 | 17 | 18 | |
| Location | Hazelmere Avenue | | Seville Avenue | | Belgrave Avenue | | |
| Chainage | 210 | 270 | 170 | 185 | 160 | 170 | |
| Offset | 1.2 | 1.4 | 1.6 | 1.5 | 1.7 | 1.9 | |
| | north of kerb | south of kerb | north of kerb | south of kerb | north of kerb | south of kerb | |
| Approximate depth from F.S.L. | m | | | | | | |
| Measurement depth | mm | | | | | | |
| Field wet density | t/m ³ | | | | | | |
| Field dry density | t/m ³ | | | | | | |
| Field moisture content | % | | | | | | |
| | 11.5 | 10.5 | 12.5 | 12.5 | 12.5 | 12.5 | |
| Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVCH) | | | | | | | |
| Date of assignment | 15/01/2020 | | | | | | |
| Material source and location | 40mm Capping - MVQ, Wyndham Vale | | | | | | |
| Compactive effort | STANDARD | | | | | | |
| Maximum Dry Density | t/m ³ | | | | | | |
| Optimum Moisture Content | % | | | | | | |
| | 1.96 | | | | | | |
| | 14.5 | | | | | | |
| Test procedure AS 1289.5.4.1 | | | | | | | |
| Oversize rock retained on sieve | mm | | | | | | |
| Percent of oversize material | wet | | | | | | |
| Percent of oversize material | dry | | | | | | |
| Adjusted Maximum Dry Density | t/m ³ | | | | | | |
| Adjusted Optimum Moisture Content | % | | | | | | |
| | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | |
| | - | - | - | - | - | - | |
| | - | - | - | - | - | - | |
| | - | - | - | - | - | - | |
| | - | - | - | - | - | - | |
| | - | - | - | - | - | - | |
| Moisture Variation From Optimum Moisture Content | 3.0% dry | 4.0% dry | 2.0% dry | 2.0% dry | 2.0% dry | 2.0% dry | |
| Moisture Ratio (R_m) | % | 79.0 | 73.0 | 86.5 | 84.5 | 87.5 | 85.0 |
| Density Ratio (R_D) | % | 98.0 | 98.0 | 99.5 | 99.0 | 100.5 | 100.0 |

A581ASSIGNED V1.13 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20035
 Report No 20035/R005
 Date Issued 30/04/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 01/04/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|-----------------|--------|-------|----------|
| Feature | CLASS 3 | Layer thickness | 160 mm | Time: | 12:30:00 |
|----------------|----------------|-----------------|--------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 19 | 20 | 21 | 22 | 23 | 24 |
|-------------------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|
| Location | Wandin Way | | | Gruyere Street | | |
| Chainage | 130 | 80 | 30 | 270 | 210 | 150 |
| Offset | 1.3 | 1.6 | 1.4 | 1.5 | 1.7 | 1.2 |
| | north of kerb | south of kerb | north of kerb | east of kerb | west of kerb | east of kerb |
| Approximate depth from F.S.L. | m | | | | | |
| Measurement depth | mm | | | | | |
| Field wet density | t/m ³ | | | | | |
| Field dry density | t/m ³ | | | | | |
| Field moisture content | % | | | | | |

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

| | |
|------------------------------|----------------------------------|
| Date of assignment | 31/03/2020 |
| Material source and location | 20mm Class 3 - MVQ, Wyndham Vale |
| Compactive effort | MODIFIED |
| Maximum Dry Density | t/m ³ 2.31 |
| Optimum Moisture Content | % |

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 ³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content | % | - | - | - | - | - | - |

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

| | | | | | | | |
|---------------------------------------|---|------|------|------|------|------|------|
| Moisture Ratio (R_m) | % | 66.0 | 64.5 | 65.5 | 69.0 | 68.5 | 67.5 |
|---------------------------------------|---|------|------|------|------|------|------|

| | | | | | | | |
|--------------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Density Ratio (R_D) | % | 98.0 | 98.0 | 98.5 | 98.0 | 99.0 | 99.0 |
|--------------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|

A581ASSIGNED V1.13 MAR 13



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20035
 Report No 20035/R006
 Date Issued 30/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 01/04/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|---------|---------|-----------------|--------------|-------|----------|
| Feature | CLASS 3 | Layer thickness | 150 / 160 mm | Time: | 12:30:00 |
|---------|---------|-----------------|--------------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 25 | 26 | 27 | 28 | 29 | 30 |
|-------------------------------|------------------|--------------|--------------|--------------|--------------|------------------|
| Location | St Arnaud Road | | | | | Hazelmere Avenue |
| Chainage | 850 | 900 | 950 | 1000 | 1050 | 220 |
| Offset | 1.4 | 1.7 | 1.2 | 1.5 | 1.6 | 1.3 |
| | east of kerb | west of kerb | east of kerb | west of kerb | east of kerb | north of kerb |
| Approximate depth from F.S.L. | m | | | | | |
| Measurement depth | mm | | | | | |
| Field wet density | t/m ³ | | | | | |
| Field dry density | t/m ³ | | | | | |
| Field moisture content | % | | | | | |

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

| | |
|------------------------------|----------------------------------|
| Date of assignment | 31/03/2020 |
| Material source and location | 20mm Class 3 - MVQ, Wyndham Vale |
| Compactive effort | MODIFIED |
| Maximum Dry Density | t/m ³ 2.31 |
| Optimum Moisture Content | % 7.5 |

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 ³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content | % | - | - | - | - | - | - |

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

| | | | | | | | |
|----------------------------------|---|------|------|------|------|------|------|
| Moisture Ratio (R _m) | % | 68.0 | 67.0 | 66.0 | 64.5 | 68.0 | 65.5 |
|----------------------------------|---|------|------|------|------|------|------|

| | | | | | | | |
|---------------------------------|---|------|------|------|------|------|------|
| Density Ratio (R _D) | % | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
|---------------------------------|---|------|------|------|------|------|------|

A581ASSIGNED V1.13 MAR 13



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20035
 Report No 20035/R007
 Date Issued 30/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 01/04/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|---------|---------|-----------------|--------------|-------|----------|
| Feature | CLASS 3 | Layer thickness | 160 / 140 mm | Time: | 12:30:00 |
|---------|---------|-----------------|--------------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No | | 31 | 32 | 33 | | | |
|-------------------------------|------------------|------------------|----------------|---------------|--|--|--|
| Location | | Hazelmere Avenue | Seville Avenue | | | | |
| Chainage | | 270 | 180 | 165 | | | |
| Offset | | 1.4 | 1.6 | 1.3 | | | |
| | | south of kerb | north of kerb | south of kerb | | | |
| Approximate depth from F.S.L. | m | | | | | | |
| Measurement depth | mm | 125 | 125 | 125 | | | |
| Field wet density | t/m ³ | 2.38 | 2.38 | 2.39 | | | |
| Field dry density | t/m ³ | 2.27 | 2.26 | 2.27 | | | |
| Field moisture content | % | 5.0 | 5.0 | 5.0 | | | |

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

| | | | | | | | |
|------------------------------|------------------|----------------------------------|--|--|--|--|--|
| Date of assignment | | 31/03/2020 | | | | | |
| Material source and location | | 20mm Class 3 - MVQ, Wyndham Vale | | | | | |
| Compactive effort | | MODIFIED | | | | | |
| Maximum Dry Density | t/m ³ | 2.31 | | | | | |
| Optimum Moisture Content | % | 7.5 | | | | | |

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 ³ | - | - | - | | | |
| Adjusted Optimum Moisture Content | % | - | - | - | | | |

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

| | | | | | | | |
|----------------------------------|---|------|------|------|--|--|--|
| Moisture Ratio (R _m) | % | 65.5 | 67.0 | 65.5 | | | |
|----------------------------------|---|------|------|------|--|--|--|

| | | | | | | | |
|---------------------------------|---|------|------|------|--|--|--|
| Density Ratio (R _D) | % | 98.0 | 98.0 | 98.0 | | | |
|---------------------------------|---|------|------|------|--|--|--|

A581ASSIGNED V1.13 MAR 13



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
 Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20035
Report No 20035/R008
Date Issued 24/06/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 24/06/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|------------------------|--------|--------------|----------|
| Feature | CLASS 2 | Layer thickness | 120 mm | Time: | 07:30:00 |
|----------------|----------------|------------------------|--------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No | | 34 | 35 | 36 | 37 | 38 | 39 |
|-------------------------------|------------------|------------|---------|---------|----------------|---------|---------|
| Location | | Wandin Way | | | Gruyere Street | | |
| | Chainage | 130 | 80 | 30 | 270 | 210 | 150 |
| | Offset | 1.5 | 1.2 | 1.7 | 1.4 | 1.3 | 1.6 |
| | | north | south | north | east | west | east |
| | | of kerb | of kerb | of kerb | of kerb | of kerb | of kerb |
| Approximate depth from F.S.L. | m | | | | | | |
| Measurement depth | mm | 100 | 100 | 100 | 100 | 100 | 100 |
| Field wet density | t/m ³ | 2.47 | 2.45 | 2.45 | 2.48 | 2.48 | 2.48 |
| Field dry density | t/m ³ | 2.35 | 2.33 | 2.33 | 2.33 | 2.31 | 2.32 |
| Field moisture content | % | 5.0 | 5.0 | 5.0 | 6.5 | 7.0 | 7.0 |

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

| | | |
|------------------------------|------------------|----------------------------------|
| Date of assignment | | 28/05/2020 |
| Material source and location | | 20mm Class 2 - MVQ, Wyndham Vale |
| Compactive effort | | MODIFIED |
| Maximum Dry Density | t/m ³ | 2.31 |
| Optimum Moisture Content | % | 7.5 |

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 ³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content | % | - | - | - | - | - | - |

| | | | | | | | |
|---|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Moisture Variation From Optimum Moisture Content | | 2.5% dry | 2.5% dry | 2.5% dry | 1.0% dry | 0.5% dry | 0.5% dry |
|---|--|-------------|-------------|-------------|-------------|-------------|-------------|

| | | | | | | | |
|---------------------------------------|---|------|------|------|------|------|------|
| Moisture Ratio (R_m) | % | 66.0 | 69.0 | 68.5 | 87.0 | 94.5 | 92.5 |
|---------------------------------------|---|------|------|------|------|------|------|

| | | | | | | | |
|--------------------------------------|---|-------|-------|-------|-------|-------|-------|
| Density Ratio (R_D) | % | 101.5 | 100.5 | 101.0 | 100.5 | 100.0 | 100.5 |
|--------------------------------------|---|-------|-------|-------|-------|-------|-------|

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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20035
 Report No 20035/R009
 Date Issued 24/06/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A2 | Date tested | 24/06/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|------------------------|--------------|--------------|----------|
| Feature | CLASS 2 | Layer thickness | 140 / 120 mm | Time: | 07:30:00 |
|----------------|----------------|------------------------|--------------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 40 | 41 | 42 | 43 | 44 | 45 |
|-------------------------------|------------------|---------------|----------------|---------------|-----------------|---------------|
| Location | Hazelmere Avenue | | Seville Avenue | | Belgrave Avenue | |
| Chainage | 220 | 270 | 180 | 165 | 155 | 165 |
| Offset | 1.5 | 1.2 | 1.6 | 1.4 | 1.7 | 1.3 |
| | north of kerb | south of kerb | north of kerb | south of kerb | north of kerb | south of kerb |
| Approximate depth from F.S.L. | m | | | | | |
| Measurement depth | mm | | | | | |
| Field wet density | t/m ³ | | | | | |
| Field dry density | t/m ³ | | | | | |
| Field moisture content | % | | | | | |

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

| | | | | | | |
|------------------------------|----------------------------------|--|--|--|--|--|
| Date of assignment | 28/05/2020 | | | | | |
| Material source and location | 20mm Class 2 - MVQ, Wyndham Vale | | | | | |
| Compactive effort | MODIFIED | | | | | |
| Maximum Dry Density | t/m ³ | | | | | |
| Optimum Moisture Content | % | | | | | |

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 ³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content | % | - | - | - | - | - | - |

| | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| Moisture Variation From Optimum Moisture Content | 2.5% dry | 2.0% dry | 2.0% dry | 1.5% dry | 2.0% dry | 2.0% dry |
|---|----------|----------|----------|----------|----------|----------|

| | | | | | | | |
|---|---|------|------|------|------|------|------|
| Moisture Ratio (R_m) | % | 69.5 | 74.0 | 72.0 | 77.0 | 75.5 | 72.5 |
|---|---|------|------|------|------|------|------|

| | | | | | | | |
|--|---|--------------|--------------|--------------|--------------|--------------|--------------|
| Density Ratio (R_D) | % | 100.5 | 101.0 | 100.5 | 100.0 | 100.5 | 101.0 |
|--|---|--------------|--------------|--------------|--------------|--------------|--------------|

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