

Brisbane Office
Job Number: DL18/334
Ref No: 15249
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 670
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 670 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 670 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 670 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15250
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 671
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 671 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 671 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 671 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15251
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 672
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 672 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 672 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 672 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15252
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 673
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 673 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 673 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 673 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a long horizontal flourish extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15253
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 674
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 674 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 674 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 674 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly, D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15254
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 675
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 675 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 675 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 675 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15255
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 676
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 676 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 676 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 676 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly, D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15256
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 677
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 677 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 677 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 677 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15257
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 678
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 678 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 678 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 678 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in grey ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15258
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 679
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 679 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 679 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 679 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15259
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 680
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 680 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 680 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 680 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15260
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 681
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 681 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 681 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 681 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a long horizontal flourish extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly, D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15261
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 682
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 682 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 682 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 682 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15262
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 683
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 683 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 683 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 683 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15263
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 684
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 684 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 684 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 684 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15264
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 685
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 685 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 685 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 685 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15265
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 740
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 740 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 740 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 740 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15266
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 741
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 741 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 741 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 741 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15267
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 742
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 742 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 742 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 742 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15268
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 743
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 743 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 743 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 743 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15269
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 744
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 744 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 744 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 744 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15270
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 745
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 745 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 745 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 745 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15271
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 746
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 746 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 746 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 746 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15272
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 747
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 747 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 747 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 747 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15273
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 748
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 748 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 748 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 748 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15274
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 749
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 749 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 749 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 749 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15275
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 750
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 750 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 750 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 750 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15276
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 751
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 751 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 751 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 751 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15277
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 752
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 752 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 752 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 752 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a long horizontal flourish extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15278
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 753
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 753 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 753 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 753 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15279
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 754
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 754 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 754 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 754 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15280
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 755
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 755 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 755 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 755 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15281
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 756
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 756 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 756 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 756 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15282
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 757
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 757 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 757 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 757 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15283
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 758
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 758 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 758 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 758 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15284
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 759
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 759 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report "15293 – DL18/334 Shadforths – Level One Compliance Report – Eden's Crossing Stage 14" Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – "Guidelines on Earthworks for Commercial and Residential Developments";
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden's Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 759 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 759 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a horizontal line extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15285
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 760
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 760 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 760 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 760 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,



R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly, D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▼ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▼ RL 95.00 - 104.99
- ▼ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTH'S | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |

Brisbane Office
Job Number: DL18/334
Ref No: 15286
Author: R.Mitchell

30th August 2019

Shadforths Civil Pty Ltd
99 Sandalwood Lane
Forest Glen 4556

ATTENTION: MR CAMPBELL THOMPSON
Email: Campbell.Thompson@shadcivil.com.au

Dear Sir,

**RE: LOT 761
LEVEL ONE COMPLIANCE REPORT FOR
EARTHWORKS FILL CONSTRUCTION
EDENS CROSSING STAGE 14**

Earthworks filling operations were carried out on Lot 761 at the above Development to form a working platform to support a future residential building.

Earthworks were constructed by Shadforths Civil (The Client) between November 2018 and July 2019.

This report should be read in conjunction with Morrison Geotechnic Report “15293 – DL18/334 Shadforths – Level One Compliance Report – Eden’s Crossing Stage 14” Dated 28th August 2019.

The Brief from the Client for was limited to:

- Level One Inspection of the placement and compaction of fill materials in accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”;
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.
- Ipswich City Council Specifications.
- Notes on ETS Civil Drawings.

Level One Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials. Field and laboratory testing included proof roll testing of the stripped surface, field density testing using the nuclear soil moisture density gauge and standard Compactions.

Compaction testing at the Eden’s Crossing Stage 14 Development was carried out at a frequency of 1 test per 500m³ of placed and compacted fill as defined in AS3798 Table 8.1. Test locations were selected using Random Stratified methods. Compaction testing was carried out at frequencies representative of the fill volume as a mass. On this basis, compaction testing was not required on each individual Lot.

A marked-up site plan shown the location of compaction testing is attached.

Fill constructed on Lot 761 has been observed to be placed and compacted in accordance with the Brief. The fill on Lot 761 can be termed as "Controlled Fill" in accordance with AS 2870-2011 "Residential Slabs and Footings".

This statement does not include any top soil, which may have been placed for use as Lot dressing or any other subsequent earthworks after July 2019.

If there are any queries concerning the above please do not hesitate to contact this office, or alternatively send to my email at rmitchell@morrisongeo.com.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Mitchell', with a long horizontal flourish extending to the right.

R. MITCHELL

For and on Behalf of

MORRISON GEOTECHNIC PTY LIMITED

Encl: Marked Up Site Plan



MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 1/ 35 Limestone St, Darra 4076 Ph: 3279 0900
 Email: brisbanelab@morrisongeo.com.au Fax: 3279 0955

Engineers: J. Daly,
 D. Dragun, & J. Greentree
 Geologists: L. Bexley & R. Howchin
 Laboratory: M. Morrison, L. McDowall

LEGEND

- ▼ RL - 65.00 - 74.99
- ▲ RL - 75.00 - 84.99
- ▼ RL - 85.00 - 94.99
- ▲ RL 95.00 - 104.99
- ▲ 0.00 - 0.99m Below Final Level
- Final Level

| | | | |
|-------------------|--|--------------|--------------|
| Map Description : | EARTHWORKS FIELD DENSITY TESTING - Level 1 Inspection | | |
| Client : | SHADFORTHS | | |
| Project : | EDENS CROSSING STAGES 12 - 14 | | |
| Project No : | DL18/334 | Drawing No : | DL18/334-01 |
| | | Scale : | Not to Scale |