

Structerre reference number: S683553

15 April 2014

23 copy

The Manager  
SHARYL MARSH  
14 Trinity Rise  
COLLEGE GROVE WA 6230

Attn: Sharyl Marsh

Dear Sharyl

**EMBEDMENT CHECKING AND COMPACTION TEST  
AT  
#14 TRINITY RISE COLLEGE GROVE**

In response to your recent request, a representative from this Office visited the above-mentioned site on 11 April 2014.

**1. PURPOSE**

The purpose of the visit was to inspect and comment upon removal of sand in front of retaining wall and check compaction.

**2. OBSERVATIONS**

Upon digging in front of the retaining wall in a number of places, the embedment was found to be a minimum of 300mm.

A number of compaction tests were carried out using a Perth Sand Penetrometer in random locations in front of the retaining wall. Results are as follows 7/7/7, 4/4/6, 4/5/4, 13 refusal and 8/11/10.

**3. COMMENTS & RECOMMENDATIONS**

Based on the observations on site, the embedment depth was found to be within minimum requirements, hence the previous reduction in embedment will not have structural implications on the retaining wall.

Based on the results from the compaction test and Structerre's minimum requirements of 6 blows per 300mm, compaction in front of the retaining wall will need to be brought up so that it meets the minimum requirements.

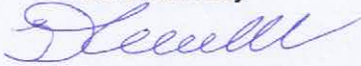
#### 4. CONCLUSION

It is considered once the remedial actions described in this letter have been completed with due diligence, the structure will be structurally sound and suitable for the use as described within this Report.

This report is at the request of the client who has the technical knowledge and expertise to interpret it. It is not intended for a third party or for court purposes. If a report of this nature is required please refer back to this Office.

Thank you for the opportunity to assist you in this matter. If this Office can be of further assistance, please do not hesitate to contact us again 9721 1733.

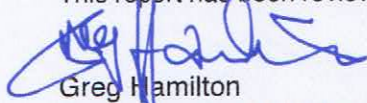
Yours faithfully



Daniel Goodall  
Engineer's Assistant

#### Authorisation

This report has been reviewed and authorised for release



Greg Hamilton  
South West Manger Bunbury

#### Disclaimer:

*This report is at the request of the addressee for submission to Council and no liability is accepted by Structerre Consulting Engineers to any other person reading or relying upon the report, notwithstanding any rule of law and/or equity to the contrary, and that this report is strictly confidential and intended to be read and relied upon only by the addressee, and the Council.*

Job #	Revision	Authored	Checked	Authorised
S683553	0	DG	GR	GRH



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HEAD OFFICE:  
1 ERINDALE ROAD, BALCATTIA, W.A. 6021  
P.O. BOX 792, BALCATTIA, W.A. 6914  
TELEPHONE: (08) 9205 4500  
FAX NO: (08) 9205 4501

PERTH • BUNBURY • GERALDTON  
ALBANY • BRISBANE • GOLD COAST

TELEPHONE: (08) 9205 4500  
FAX NO: (08) 9205 4501

SHARYL MARSH  
14 TRINITY RISE  
COLLEGE GROVE WA 6230

## TAX INVOICE

Invoice No.: 931300  
Invoice Date: 22/4/14  
Account No.: MARSH70

Reference	Job Details	Qty	Unit Price	Extended	GST
S683553	#14 TRINITY RISE COLLEGE GROVE PROFESSIONAL ADVICE - BUNBURY	1	\$450.00	\$450.00	\$45.00

Order No:  
Your Job No:  
Cert/Fab No: 11/04/2014  
Client Contact: Sharyl Marsh Mob: 0428 216 820

Net: \$450.00  
GST: \$45.00  
Total: \$495.00

Payment of this invoice can be made in the following ways:

1. Cash or Eftpos (Eftpos at Balcatta Office only)
2. Credit card - in person or phone (08) 9205 4500  
1.5% surcharge for credit card payments
3. Cheques - made payable to "Structerre Consulting Engineers".
4. Direct Deposit

AC Name: Zemla Pty Ltd  
BSB: 086 420  
Account Number: 04890 6610  
Reference: marsh70/Inv:931300

Payment details should be faxed to (08) 9205 4551, emailed to waaccountsrec@structerre.com.au or mailed.

Please note that this invoice will be deemed to be accepted if no written response is received within 14 days of date printed.

"Please note - this is an invoice for professional services and is due upon presentation. Except as otherwise provided by written agreement, a charge of 1.5% per month, or 18% per year will be added after 30 days."