

**Project:**  
Bottle Lake Forest Bulldozer Shed  
Qualitative Engineering Evaluation

**Reference:** 228586  
**Prepared for:** Christchurch City Council  
**Date:** 10 October 2013  
**Revision:** 3

Functional Location ID: PRK\_0158\_BLDG\_007

Address: 70 Waitikiri Drive

## Executive Summary

This is a summary of the Qualitative Report for the Bottle Lake Forest Bulldozer Shed building structure and is based on the Detailed Engineering Evaluation Procedure document issued by the Structural Advisory Group on 19 July 2011, visual inspections, available structural documentation and summary calculations as appropriate.

<b>Building Details</b>	<b>Name</b>	Bottle Lake Forest Bulldozer Shed	<b>Building Location ID:</b>	PRK 0158 BLDG 007	
<b>Building Address</b>	70 Waitikiri Drive, Christchurch				
<b>Foot Print (approx. m<sup>2</sup>)</b>	50	<b>Storeys above ground</b>	1	<b>Storeys below ground</b>	0
<b>Approximate Year Built</b>	1960s	<b>Building Age Years</b>	Approx. 50	<b>Number of res. units</b>	0
<b>Building Current Use</b>	Vehicle Shed				
<b>Type of Construction</b>	Light timber frame, steel truss mono-pitched roof with timber purlins, vertical board and batten exterior cladding, compacted fill floor				



### Qualitative L4 Report Results Summary

<b>Building Occupied</b>	Y	Currently used as vehicle shed.
<b>Suitable for Continued Occupancy</b>	Y	Suitable for continued use.
<b>Critical Structural Weaknesses</b>	N	No critical structural weaknesses were found.
<b>Building %NBS From Specific Analysis</b>	Approx. 100%	Based on a specific analysis using assumed approximate material strengths.
<b>Key Damage Summary</b>	Y	Refer to summary of building damage section 4.1 report body.

### Qualitative L4 Report Recommendations

<b>Levels Survey Required</b>	N	Compacted fill floor, minimal damage to structure
<b>Geotechnical Survey Required</b>	N	Uncategorised, Technical Category 2 by extrapolation
<b>Multiple Structure Site</b>	Y	Multiple Structures on Bottle Lake Forrest Park
<b>Proceed Directly To L5 Quantitative DEE</b>	N	A quantitative DEE is not required for this structure.

### Approval

<b>Author Signature</b>		<b>Approver Signature</b>	
<b>Name</b>	Christopher Bong	<b>Name</b>	Luis Castillo
<b>Title</b>	Structural Engineer	<b>Title</b>	Senior Structural Engineer



**Aurecon New Zealand Limited**

**Level 2, 518 Colombo Street  
Christchurch 8011**

PO Box 1061  
Christchurch 8140  
New Zealand

**T** +64 3 375 0761

**F** +64 3 379 6955

**E** [christchurch@aurecongroup.com](mailto:christchurch@aurecongroup.com)

**W** [aurecongroup.com](http://aurecongroup.com)

Aurecon offices are located in:  
Angola, Australia, Botswana, China,  
Ethiopia, Hong Kong, Indonesia,  
Lesotho, Libya, Malawi, Mozambique,  
Namibia, New Zealand, Nigeria,  
Philippines, Singapore, South Africa,  
Swaziland, Tanzania, Thailand, Uganda,  
United Arab Emirates, Vietnam.