

6177

26 July 2021

Graeme Scott
18 Rockview Place
Mt Pleasant
Christchurch



Re: 18 Rockview Place Extension – Geotechnical Investigation Report

1.0 Introduction

You have asked us to carry out a localised geotechnical investigation near the existing front entranceway to the house at 18 Rockview Place. This area will be the site of a small extension to the house (approximately ten square metres in plan area). We have visited the site and attempted two hand auger boreholes in the vicinity of the proposed extension – much of the existing area is covered in concrete paving, so investigations were limited to adjacent garden and lawn areas.

2.0 Subsurface Conditions

This neighbourhood is characterised by the presence of very shallow volcanic rock under a mantle of Port Hills loess. Both boreholes (which were also extended as much as possible using excavation by spade), terminated at shallow depth. The first was impeded by the presence of gravel and concrete fill in the area immediately adjacent to the existing house. The second borehole, located a few metres away, encountered 0.2m of topsoil, overlying silt with minor gravel (decomposed volcanic rock) and then was impeded at a depth of 0.5m by volcanic rock fragments. Rock is very likely to immediately underlie this.

3.0 Foundations

The location and size of the sub-site is such that it is not practical to excavate further to confirm ground conditions prior to construction. Foundations will likely find 'good ground' as defined by NZS 3604 within a few hundred millimetres of the base of the existing concrete and fill on the site. We note that the design drawings of the proposed show foundations of similar depth but slightly wider than the existing, which we concur with. We recommend that excavations are taken to 200mm below any fill and topsoil, subject to inspection, and that gravel hardfill is then compacted in place to the underside of the proposed floor slab.

Yours faithfully,

Geotech Consulting Ltd per:

A handwritten signature in blue ink, appearing to read 'N Traylen'.

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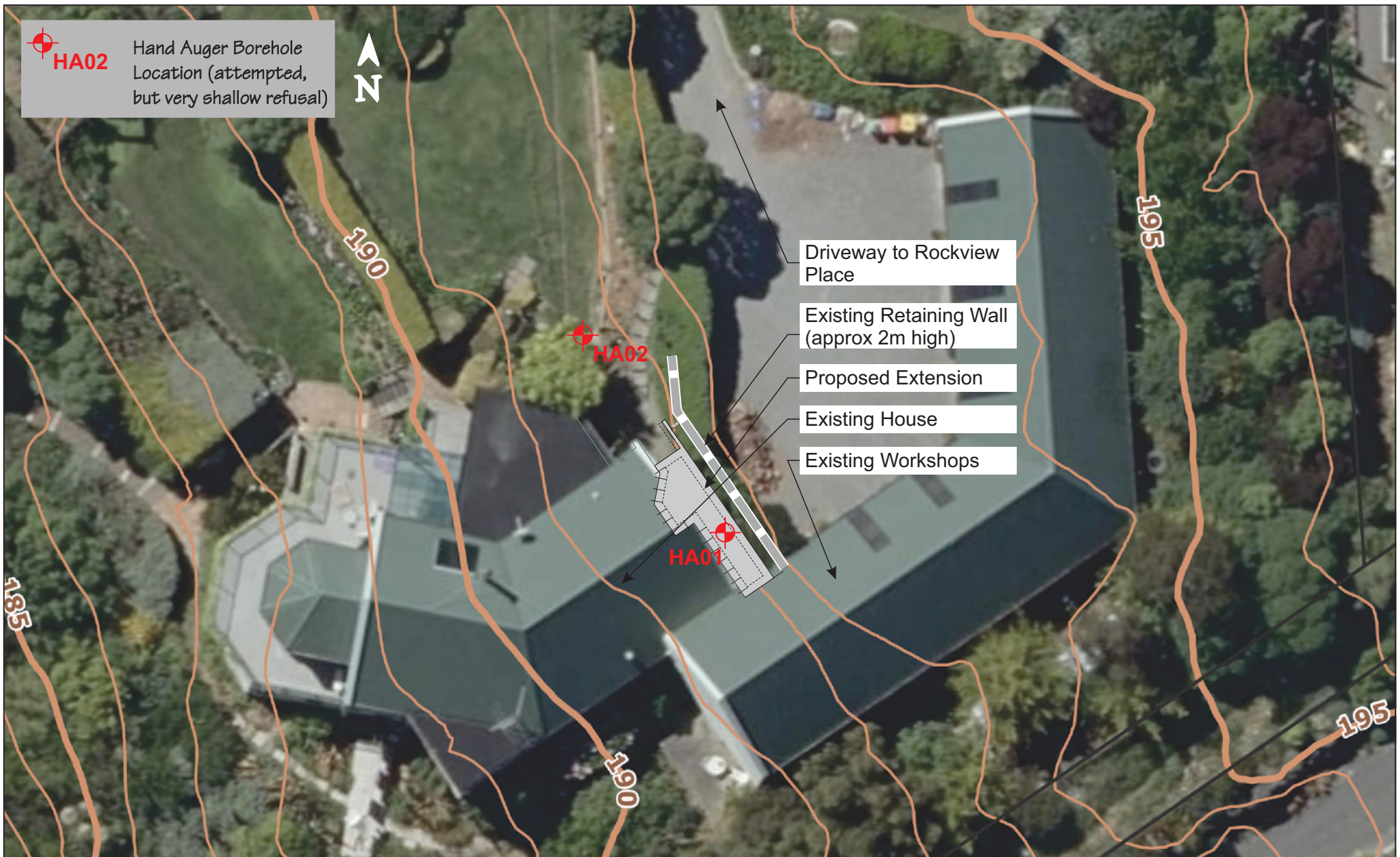
Standard Limitations

This report has been prepared for the benefit of and under specific instruction from Graeme Scott as our client with respect to the brief. The reliance by other parties on the information or opinions contained in the report shall be at such parties' sole risk.

Recommendations and opinions (not to be construed as guarantees) in this report are based on a discrete number of shallow boreholes, and data derived from other sources. The nature and continuity of subsoil conditions away from the test locations are inferred and it must be appreciated that actual conditions could vary from the assumed model.

During excavation and construction, the site should be examined by an Engineer or Engineering Geologist competent to judge whether the exposed subsoils are compatible with the inferred conditions on which the report has been based. It is possible that the nature of the exposed subsoils may require further investigation, and the subsequent modification of design work.

It is important that Geotech Consulting (NZ) Ltd is contacted if there is any variation in subsoil conditions from those described in this report as it may alter our recommendations.



GEOTECH
consulting ltd

PROJECT:

18 Rockview Place
Mt Pleasant
Christchurch

DRAWING:

Investigation Site Plan

ISSUE	DATE	AMENDMENT DETAILS	CHKD

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SCALES:	DESIGNED	ARH	07/21
1:200 @ A4 (approx)	DRAWN	EBW	07/21
	CHECKED	NJT	07/21
PROJECT No.	SHEET No.	ISSUE	
6177	01	A	



GEOTECH

SHALLOW BOREHOLE LOG GEOTECH CONSULTING LTD

Hole No:	HA01
Job No:	6177
Logged by:	AH
Date drilled:	13/07/2021
Checked by:	RBW
Date checked:	20/07/2021
Max depth:	

Project:	18 Rockview Place
Client:	Greame Scott
Hole location:	Refer Site Plan
Contractor:	LFP
Equipment:	HA + Shovel
R.L.:	

Driller: AH
Notes:

STRATA DESCRIPTION		USCS	Graphic Log	Water Table	SCALA (blows/100mm)					Samples	SCALA PENETROMETER (mm/blow)					
0.0					0	5	10	15	20	30	100	50	34	0.0		
	organic SILT, trace fill, dark brown, moist, non plastic; organics, roots, rootlets and tree roots; fill, concrete	OL	x x x													
0.5	E.O.H, No further progress due to continuous interference from concrete													0.5		
1.0														1.0		
1.5														1.5		
2.0														2.0		
2.5														2.5		
3.0														3.0		
3.5														3.5		
4.0														4.0		
4.5														4.5		
5.0														5.0		



GEOTECH

SHALLOW BOREHOLE LOG GEOTECH CONSULTING LTD

Hole No:	HA02
Job No:	6177
Logged by:	AH
Date drilled:	13/07/2021
Checked by:	RBW
Date checked:	20/07/2021
Max depth:	

Project:	18 Rockview Place
Client:	Greame Scott
Hole location:	Refer Site Plan
Contractor:	LFP
Equipment:	HA + Shovel
R.L.:	

Driller: AH

Notes:

0.0	STRATA DESCRIPTION	USCS	Graphic Log	Water Table	SCALA (blows/100mm)					Samples	SCALA PENETROMETER (mm/blow)				0.0
					5	10	15	20	25		100	50	34	0	
	organic SILT, trace fill, trace gravel, dark brown/black, moist to wet, non plastic; fill, metal; gravel, fine to coarse, sub rounded to rounded	OL	X												
	SILT, minor gravel, dark brown/purplish, yellowish/light brown blebs, orange mottle, moist, slightly plastic; gravel, fine to very coarse and cobbles, angular to sub angular, volcanic rock fragments	ML	X	X											
0.5	E.O.H, No further progress due to continuous interference from GRAVEL [Volcanic rock fragments]														0.5
1.0															1.0
1.5															1.5
2.0															2.0
2.5															2.5
3.0															3.0
3.5															3.5
4.0															4.0
4.5															4.5
5.0															5.0