Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 7

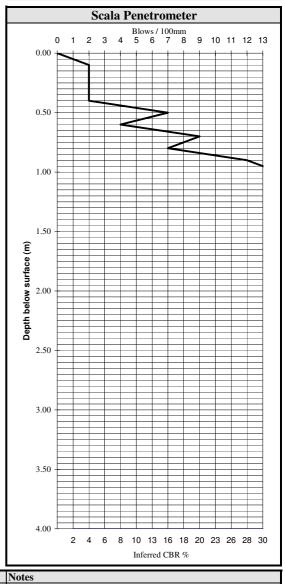


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

D41	Cl
Depth (mm)	Geological Description
0-200	Sandy silty Topsoil; Dark brown.
0 200	Sandy Siny Toposin, 2 am Storm
200-	Coarse GRAVEL; grey. Loosely packed; bedding; rounded,
1800	mostly 20mm in size.
	,
1800-	Medium GRAVEL; grey. Loosely packed; clasts up to 200mm.
2850	
	End of test pit
	No groundwater observed, hole damp
Comple =	proported at t
_	ecovered at : which scala penetrometer started : 0 metres
Depui at	which scala penetrometer started : 0 metres



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 7

Project No : 6CWM03.46 006DD Lab Ref No : 0PU.D6/14

Client Ref No:





Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full

Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 8

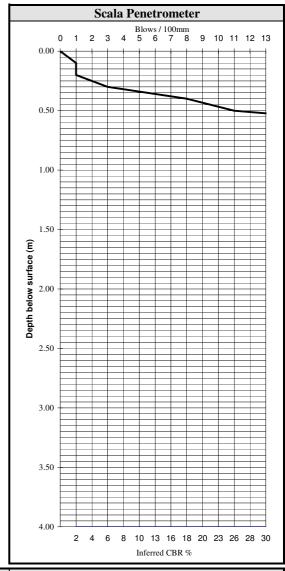


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth (mm)	Geological Description
	Sandy topsoil; dark brown.
150- 700	Coarse to medium GRAVEL; grey. Loosely packed; with some large rounded to sub-rounded boulders 500-100mm across. Some schist slabs up to 200mm.
700- 3100	Coarse GRAVEL; grey. Moderately packed; sub-rounded up to 200mm in size
	End of test pit No groundwater observed, hole damp
Sample r	ecovered at :
	which scala penetrometer started: 0 metres



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

Notes
IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 8

Project No : 6CWM03.46 006DD Lab Ref No : 0PU.D6/14

Lab Ref No : Client Ref No :





Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full

Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 9

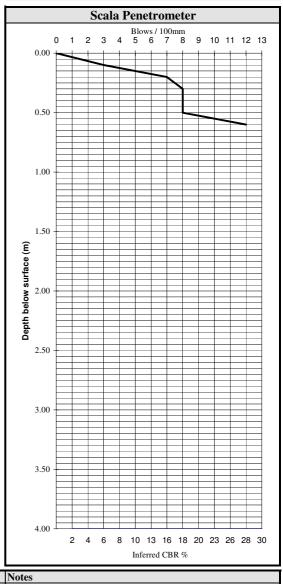


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth	Geological Description		
(mm)	Top as it has a market		
0-500	Topsoil; brown/grey		
500- 1000	Medium to coarse GRAVEL; grey. Moderately to densely packed; well-sorted; rounded to sub-rounded schist gravel.		
1000- 2750	Medium to coarse GRAVEL; grey. Well packed; well sorted, with sub-rounded schist boulders up to 400mm in size, more commonly 100-200mm.		
	End of test pit - hole fretting No groundwater observed, hole damp		
_	Sample recovered at:		
Depth at	which scala penetrometer started: 0 metres		



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 9

Project No: 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:





Date tested: 12/10/06 Date reported: 14/11/06

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Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 10

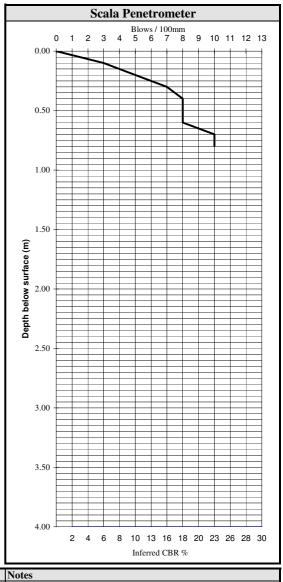


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth	Geological Description
(mm)	Tanaaili dadi burun
0-100	Topsoil; dark brown.
100	Very coarse SAND; yellow/white. Bedding, wavy, 2-5mm thick.
100- 600	Coarse GRAVEL with some brown silt. Densely packed; rounded to sub-rounded schist gravels.
600- 1200	Fine to medium GRAVEL; grey. Moderately packed; rounded to sub-rounded schist gravels.
1200- 2100	Medium to coarse GRAVEL, grey. Moderately packed; sub- rounded to angular schist gravels with some 300mm sub- rounded to angular schist.
2100	fine to medium SILT; grey; with some medium, rounded to subrounded gravel.
	end of test pit No groundwater observed, hole damp
	ecovered at :
Deptn at	which scala penetrometer started : 0 metres



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

Date tested: 12/10/06 Date reported: 14/11/06 IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

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**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 10

Project No : 6CWM03.46 006DD Lab Ref No : 0PU.D6/14

Lab Ref No : Client Ref No :





Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full

Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 11

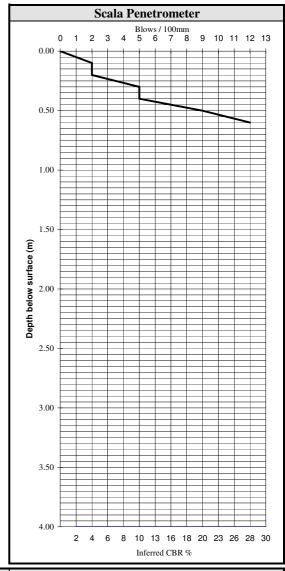


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth (mm)	Geological Description
0-200	Sandy, silty topsoil; dark brown with some schist derived gravel
200- 700	Sandy coarse GRAVEL; grey. Moderately packed; rounded
700- 2800	Fine to coarse GRAVEL; grey. Moderately packed, rounded with some 200-300mm sub-rounded schist boulders, some up to 800mm
	End of test pit - hole collapsing No groundwater observed, hole damp



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

0 metres

Notes
IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

Depth at which scala penetrometer started :

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

**Client: Mitchell Partnerships Contractor: Nichols Landscaping** 

Mark Darcy and Kim Martelli Sampled by:

**Date Sampled:** 12/10/06 **Test Pit 11** Pit number:

6CWM03.46 006DD Project No: OPU.D6/14

Lab Ref No:

Client Ref No:





12/10/06 Date tested: 14/11/06 Date reported:

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