

u120460

well 10373

 Wellington Office PO Box 12-003 Wellington, NZ Tel: +64 4 471 7000 Fax: +64 4 471 1291 www.opus.co.nz		BOREHOLE LOG						HOLE NO. BH204													
PROJECT				CO-ORD.		R.L.		SHEET													
Blenheim Urban Growth Study - Stage 2				1676850 E 5404519 N		11 m		1 of 1													
LOCATION				REF. GRID		DATUM		HOLE LENGTH													
Off Middle Renwick Road				NZ Transverse Mercator		MSL		10.355 m													
GEOLOGY/UNIT	MAIN DESCRIPTION	R.L. (m)	DEPTH (m)	GRAPHIC LOG	TESTS			ROCK STRENGTH	ROCK WEATHERING	DEFECT SPACING	DIP	DETAILED DESCRIPTION	CORE			DRILLING			PIEZOMETER DETAILS	OTHER INSTRUMENTATION	
					SPT 'N' VALUE	SPT BLOW COUNTS OR SHEAR VALUE							RQD (%)	TOTAL CORE RECOVERY (%)	SAMPLE TYPE	DRILLING METHOD	DRILLING FLUID LOSS	CASING			BASE OF HOLE & WATER LEVEL
Rapaura Formation	SILT with some clay; brown, soft, dry.	10	1									Rootlets.				Hand Dug					
	Silty SAND with minor clay; dark brown, medium dense, moist.	8	2		16	11/11/15/5/5						Sand is fine to medium grained.				SPT					
		3	3		39	5/10/9/10/10/10										DHH					
		4	4		50	5/9/10/14/16/10	= 40mm						Gravel is well graded up to 4cm, subrounded. Sand is fine to medium grained.				SPT				
		5	5		50	8/22/23/27										DHH					
		6	6		50	7/12/16/26/8	= 45mm									SPT					
	GRAVEL with minor sand; greyish brown, dense, wet.	4	7		32	4/3/5/6/7/14						Gravel is well graded to 3cm, subrounded.				DHH					
		8	8		50	3/7/11/10/11/19	= 35mm						Gravel is well graded to 2cm, subrounded. Sand is coarse grained.				SPT				
	Sandy silty GRAVEL; brown, dense to very dense, wet.	2	9		39	2/6/9/14/7/9										DHH					
		0	10		50	12/26/16/13/11/10	= 55mm									SPT					
		0	11																		
		0	12																		
		-2	13																		
		0	14																		
		-4	15																		
		0	16																		
		-6	17																		
		0	18																		
		-8	19																		
		-10	20																		
		-12	21																		
		-14	22																		
		-12	23																		
		0	24																		
		-14	25																		

NOTES		STARTED	FINISHED
Groundwater level at end of drilling 3.0 m		17/12/2012	17/12/2012
HD: Hand Dug		DRILLER	DRILLING CO.
BS: Bulk Sample		Barclay Moir	CW Drilling & Exploration Ltd
PT: Push Tube Sample		INCLINATION/	DRILLING RIG
DHH: Down Hole Hammer		AZIMUTH	MP100
SPT: Standard Penetration Test		LOGGED	CHECKED
		Allannah Morpeth	Doug Mason
LOGGED IN ACCORDANCE WITH NZ GEOTECHNICAL SOCIETY (2005) GUIDELINES		CLIENT	JOB NO.
SEE ATTACHED KEY SHEET FOR EXPLANATION OF SYMBOLS		Marlborough District Council	5C2128.01
			BH204

CLIENT Opus International Consultants

PROJECT NAME Blenheim Urban Growth Study

PROJECT NUMBER BH#204

PROJECT LOCATION In vineyard, adjacent to Middle Remwick Road

DATE STARTED 17/12/12

COMPLETED 17/12/12

GROUND ELEVATION

HOLE SIZE 125

DRILLING CONTRACTOR CW Drilling

GROUND WATER LEVELS:

DRILLING METHOD Concentric

AT TIME OF DRILLING

LOGGED BY Barclay Mott

CHECKED BY James Chapman

▼ AT END OF DRILLING 3.00 m

NOTES Geotech Bore

AFTER DRILLING

DEPTH (m)	SAMPLE TYPE NUMBER	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
		Bore abandoned, hole backfilled upon completion		Brown silt/topsoil
2		SPT@2.0m, 1, 1, 1, 5, 5		Brown silty clay
4		SPT@3.0m, 5, 10, 9, 10, 10, 10		Well sorted sandy Gravels
		SPT@4.0m 5, 9, 10, 14, 16, 10 for 40mm		
		SPT@5.0m, 8, 22, 23, 27		
6		SPT@6.0m, 7, 12, 16, 26, 8 for 25mm		
		SPT@7.0m, 4, 3, 5, 6, 7, 14		
8		SPT@8.0m, 3, 7, 10, 10, 11, 19 for 45mm		Poorly sorted Gravels, some sands silts
		SPT@9.0m, 2, 6, 9, 14, 7, 9		
10		SPT@10m 12, 26, 16, 13, 11, 10 for 55mm		Bottom of hole at 10.00 m