

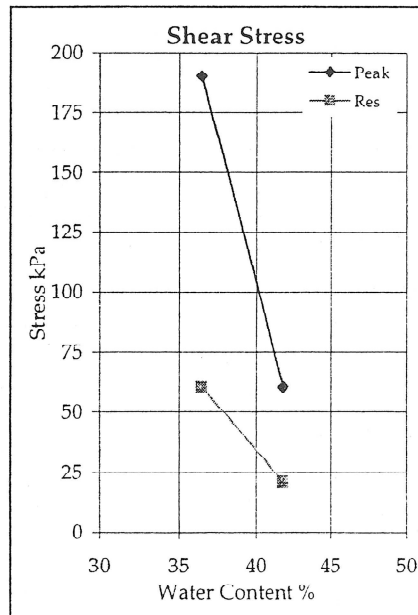
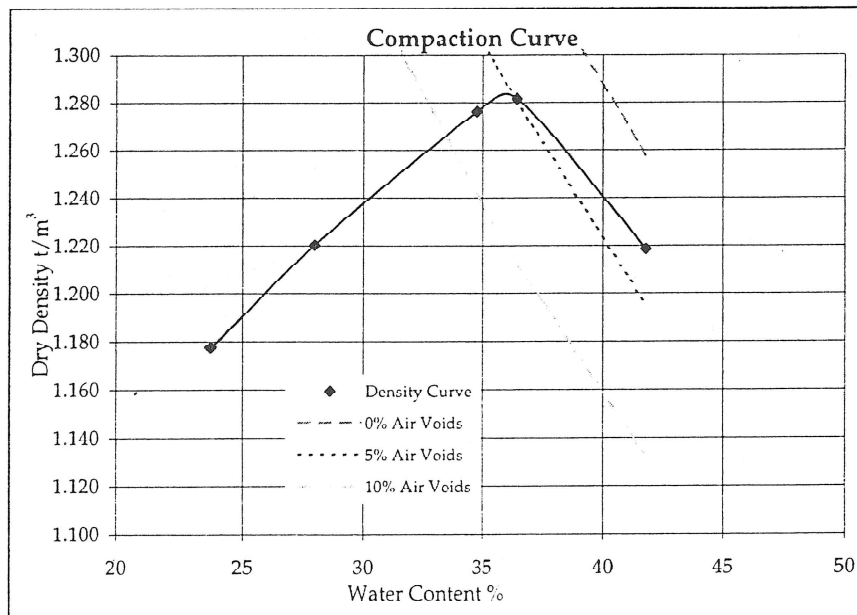
DRY DENSITY / WATER CONTENT RELATIONSHIP DYNAMIC COMPACTION

Project : Hakarimata Hills Subdivision
 Location : Ngaruawahia
 Client : Opus Hamilton
 Contractor : NA
 Sampled by : C Fairless
 Date sampled : 21/01/03
 Sampling method : Test Pit
 Sample description : Grey clay SILT
 Sample condition : Very moist
 Solid density : 2.65 (Assumed)
 Source : TP5



Project No : 2-67842.00
 Lab Ref No : 03/304/001
 Client Ref No :

Test Results							
Maximum dry density	1.28	t/m ³	Natural water content		41.8	%	
Optimum water content	36	%	Fraction tested		Whole		
Sample ID	-300	-240	-120	-60	Nat		
Bulk density t/m ³	1.457	1.561	1.719	1.749	1.728		
Water content %	23.8	28.0	34.7	36.5	41.8		
Dry density t/m ³	1.177	1.220	1.276	1.281	1.219		
Sample condition	Dry Hard	Dry moist Hard	Moist Firm	Moist Firm	V moist Soft firm		
Peak stress kPa	Ref	Ref	Ref	190	60		
Remoulded stre kPa	Ref	Ref	Ref	60	21		



Test Methods	Notes
Compaction NZS 4402 : 1986 Test 4.1.1 (Standard)	
Shear Strength using Pilcon Shear Vane, in house method HL SV 2-00.	

Date tested : 24/01/03
 Date reported : 28/01/03

Testing is covered by IANZ Accreditation
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IANZ Approved Signatory

Designation : Laboratory Manager
 Date : 28/01/03



All tests reported
 herein have been
 performed in accordance
 with the laboratory's
 scope of accreditation