STANDARD DESCRIPTIONS USED IN SOIL PROFILING

1. MOISTURE CONDITION			2. COLOUR			
Term		Description		- JOEGIA		
Dry			The Predominant colours or colour combinations			
Slightly	Requires	addition of water to reach optimum	are described including secondary coloration			
moist	moisture o	content for compaction		described as banded, streaked, blotched,		
Moist	Near optin	num content	mottled, speckled or stained.			
Very Moist	Requires	drying to attain optimum content				
Wet		ated and generally below water table	1			
		3. CON	SISTENCY			
	3,1	Non-Cohesive Soils		3.2 Cohesive Solls		
Term		Description		Description		
Very Loose	geological	3'	Very soft			
Loose	geological		Soft	Pick head can easily be pushed into the shaft of handle. Moulded by fingers with some pressure.		
Medium Dense	end of geo	ble resistance to penetration by sharp logical pick	Firm	Indented by thumb with effort. Sharp end of pick can be pushed in up to 10mm. Can just be penetrated with an ordinary spade.		
	geological pick for ex		Stiff	Penetrated by thumbnail. Slight Indentation produced by pushing pick point into soil. Cannot be moulded by fingers. Requires hand pick for excavation.		
Very Dense	High resistance to repeated blows of geological pick. Requires power tools for excavation		Very Stiff	Indented by thumbnail. Slight indentation produced by blow of pick point. Requires power tools for excavation.		
	4. STRUCTURE			5. SOIL TYPE		
				5.1 Particle Size		
Term		Description	Term	Size (mm)		
Intact	Absence of fissures or joints		Boulder	>200		
Fissured	Presence of closed joints		Pebbles	60 – 200		
Shattered	Presence of closely spaced air filled joints giving cubical fragments		Gravel	60 – 2		
Micro- shattered	Small scale shattering with shattered fragments the size of sand grains		Sand	2 – 0,06		
Slickensided	Polished planar surfaces representing shear movement in soil		Silt	0,06 - 0,002		
Bedded Folitated	Many residual soils show structures of parent rock.		Clay	<0,002		
6. ORIGIN			5.2 Soll Classification			
	6,1	Transported Solls				
Term		Agency of Transportation				
Colluvium		Gravity deposits		⁰ / ₁₀₀		
Talus		Scree or coarse colluvium	SAND SAND SAND SANDY SLICHTLY S			
Hillwash		Fine colluvium				
Alluvial		River deposits				
Aeolian		Wind deposits				
Litoral		Beach deposits				
Estuarine		Tidal – river deposits				
Lacustine		Lake deposits				
		2 Residual soils	gn 4	CLAY BANDY BELTY CLAY		
These are	products of described	in-situ weathering of rocks and are as e.g. Residual Shale	100 Still St	CLAYEY SAND		
Form	THE PERSON NAMED IN COLUMN 2 I	3 Pedocretes ported and residual soils etc.		all T		
		manganocrete and ferricrete.				

SUMMARY OF DESCRIPTIONS USED IN ROCK CORE LOGGING

		1.	WEATHERING		
Term	Symbol		Diag	nostic Features	
Residual Soil	W5 Rock is discoloured ar		nd completely changed to a soil in which original rock fabric is completely large change in volume.		
Completely Weathered	W5 Rock is discoloured at occasional small core		nd changed to a soil but original fabric is mainly preserved. There may be stones.		
Highly Weathered	W4 Rock is discoloured, d fabric of the rock near but corestones are stil		discontinuities may be open and have discoloured surfaces, and the original r the discontinuities may be altered; alternation penetrates deeply inwards, ill present.		
Moderately Weathered	W3	Rock is discoloured, d	iscontinuities may be	e open and will have discolo act rock is noticeably weak	oured surfaces with er than the fresh rock.
Slightly Weathered	W2	Rock may be slightly o	discoloured, particula	rly adjacent to discontinuiti Intact rock is not noticeably	es, which may be open an
Unweathered	W1	Parent rock showing no discolouration, loss of strength or any other weathering effects.			
	2,	HARDNESS		Annual Control of the	COLOUR
Classification	Fi	eld Test	Compressive Strength Range MPa		
Extremely Soft Rock	Easily peeled with a knife		<1		
Very Soft Rock		rith a knife. Material firm blows with the eological pick.	1 to 3	The predominant colours or colour combination are described including secondary colouration described as banded, streaked, blotched, mottled, speckled or stained.	
Soft Rock	Can be scraped indentation of 2 to blows of the pick	with a knife, o 4 mm with firm	3 to 10		
Medium Hard Rock	Cannot be scraped or peeled with a knife. Hand held specimen breaks with firm blows of the pick.		10 to 25		
Hard Rock		nust be carried out in sh between these	25 - 70	*	
Very Hard Rock	These results ma uniaxial compres selected samples	sive strength tests on	70 - 200		
Extremely Hard Rock			>200		
			4. FABRIC		
4.1	Grain Size		4.2	Discontinuity Spacing	
Term	Size (mm)		Bedding, foliation, nations	Spacing (mm)	Descriptions for joints, faults, etc.
Very Coarse	>2,0	Very Thickly Bedded		> 2000	Very Widely
Coarse	0,6 - 2,0	Thickly Bedded		600 - 2000	Widely
Medium	0,2 - 0,6		n Bedded	200 - 600	Medium
Fine	0,06 - 0,2		Bedded	60 - 200	Closely
Very Fine	< 0,06		inated	<60	Very closely
			aminated	<3	
	5. F	ROCK NAME		6, STRATIGR	APHIC HORIZON
	Classified	in terms of origin:			
IGNEOUS	Granite, Diorite, Gabbro, Syenite, Di Trachyte, Andesite, Bas				
METAMORPHIC	Slate, Quartzite, Gneiss, Schert, Sandstone			horizons.	
SEDIMENTARY		Shale, Mudstone, Siltstone, Sandstone, Dolomíte, Conglomerate, Tillíte, Quartzite, Linestone.			