
	EXCAVATION, TRENCHING, & SHORING SOIL ANALYSIS INSPECTION CHECKLIST	Document No.:	HSE-BF-033
		Department:	Operations
		Revision Date:	25 AUG 2010
Release authorized by:	D. Slattery	Page	Page 1 of 2

Client				Date	
Project Name				Job Number	
Project Location				Weather	
Competent Person					
Where was the sample taken from					
Excavation length, depth and width			L:	D:	W:
VISUAL TEST					
Particle type	Fine Grained (Cohesive)		Granular (sand/silt or gravel)		Other:
Water Conditions		Wet	Dry	Seeping Water	Surface Water present
Notes		Submerged			
Yes	No	N/A	Description		
			Layered Soils Dipping Into excavation? If yes, describe:		
			Excavation exposed to vibrations? If yes, describe:		
			Previously disturbed soils?		
			Crack like openings or sprawlings observed?		
			Underground utilities? If yes, what type:		
			Layered soils? (Note: the least stable layer controls the soil type)		
MANUAL TEST					
Plasticity	Cohesive	Non-cohesive	Dry Strength	Cohesive (broken w/ difficulty)	Granular
Wet Shake	Water comes to surface (granular material)			Surface remains dry (clay material)	
THUMB TEST Note: Used to estimate unconfined compression strength of cohesive soil.					
Test Performed	Yes	No	N/A, Explain:		
Soil indented by thumb with very great effort?					Type A
Soil indent by thumb with some effort?					Type B
Soil easily penetrated several inches by thumb with little or no effort. NOTE: If soil is submerged, seeping water, subjected to surface water, runoff, exposed to wetting.					Type C
PENETROMETER or SHEARVANE TEST Note: Used to estimate unconfined compressive strength of cohesive soils.					
Test Performed	Yes	No	Device Used / Serial Number:		
Soil with unconfined compressive strength of 1.5 tsf or greater					Type A
Soil with unconfined compressive strength of greater than 0.5 tsf and less than 1.5 tsf.					Type B
Soil with unconfined compressive strength of 0.5 tsf or less. Note: if the soil is submerged, seeping water, subjected to surface water, runoff, exposed to wetting.					Type C

No soil is Type A if fissured, subject to vibration, previously disturbed, layered dipping into excavation on a slope of 4h:1v

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SOIL CLASSIFICATION			
Stable Rock	Type A	Type B	Type C
SELECTION OF PROTECTIVE SYSTEM (Refer to Appendix F of 29CFR1926)			
Sloping (Appendix B)	Timber Shoring	Trench Shield	Hydraulic Shoring
Specify angle:	(Appendix C)	Max depth in this soil:	(Appendix D)

Keep one copy of each Soil Analysis Checklist on site for project duration. Forward original to the TCM.