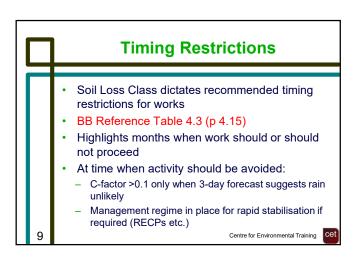




С	Soil Loss Class - examples
	 Northern Tablelands/Southern Highlands Stable soils on basalt Gentle slopes, 2% Class 1 Blue Mountains/Upper Hunter Erodible and dispersible soils Steeper slopes, 12% Class 3
7	 Far North Coast/South Coast Erodible, silty soils Steep slopes, over 25% Class 7 Centre for Environmental Training

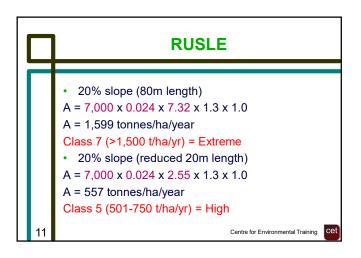
			V V			
			Timing measures	required?	~	
	Yes	Blue Book Ref	erence Table 4.3 (p	4.15) and Figure 4.9 (p 4.1)	5) No	
						<u> </u>
	Include tin	ning restrictions or		Batter limit	ations required?	
	plan alternative	es (limit slope leng	ngths) Blue Book Reference Figures 4.7, 4.8 (p 4.11, 4.12)		.11, 4.12)	
		1	Sediment bas	in test		
			Book Reference Sec			
<200t no bas	sin required	Run R	USLE. Multiply by to	tal disturbed area	>200t	basin(s) required
				Determine	e sediment type; E), C or F
				Blue Book Referen		
					y +% Silt/2) x Disp	
				Type C if: Not Typ		
					e D and >33% fine	
				Blue Book Re	ference Section 6	.3.3 (p 6.9)
	V.				¥	
			Prepa	re SWMP		
	Erosion o				nance notes	
	Site office and pa					
Acce		Ref Table 4.1 (p 4.2)	Inspection regime and Check Sheets BB Ref Section 8 Cleaning and repair of all measures BB Ref Section 8		
	Barrier fencing/ Staging of			cleaning and repair or a	ill measures BB Re	r section a
	lean and dirty w			Stabilizatio	n requirements	
	Jean and dirty w	ater unversions	Tr	osoil handling and replace		tion 4 3 (n 4 3)
	Sediment	ontrols			of diversion drains	
	Sediment	fencing		C-factors required during		
	Sediment basins		C-fa	ctors required post const		
1	Stabilised					
	Waste st	orage		Standa	rd drawings	
		-		Blue Book Referen	ce Sections 4, 5, 6	and 7
		. In	nclude drawings and	l commentary		
		Model Plans Blue E	Book Reference Sec	ion 9.3 and 9.4 (p 9.10 and	19.19)	







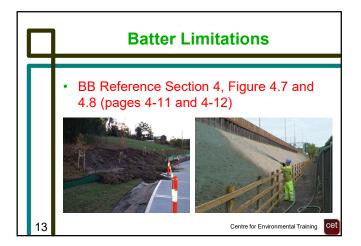
	Soil Loss Class - exercise
	 Calculate the Soil Loss Class for a 2.0ha subdivision site on the Dorrigo (do) Soil Landscape (Rainfall Zone 2) with a slope gradient of 20%?
	How would soil loss change if the default slope length could be reduced to 20m?
	 Which are the optimum months to work on this site?
10	What would be the requirements outside of this window? Centre for Environmental Training Cet

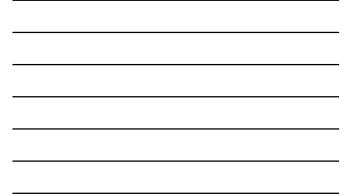


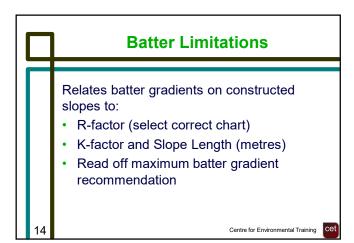
		Timing measures required?					
Yes	Blue Book Ref	erence Tabl	e 4.3 (p 4.1	5) and Figure 4.9 (p 4	1.16) No		
					V		
Include tir	ning restrictions or		Batter limitations required?				
plan alternativ	es (limit slope leng	ths)	1	Blue Book Reference	e Figures 4.7, 4.8 (p 4.11, 4.1)	2)	
	~	Sedir	nent basin	test			
	Blue	Book Refere	nce Sectio	n 6.3.2(d) (p 6.8)			
<200t no basin required Run RUSLE. N		RUSLE. Multi	ply by tota	l disturbed area	>200t basin(s)	required	
			Determ	ine sediment type; D, C or F			
			Blue Book Refer	rence Appendix C or Lab test	t results		
				Type D if: (% (Clay + % Silt/2) x Dispersion	% >10	
				Type C if: Not T	ype D and <33% finer than 0	.02mm	
				Type F if: Not T	ype D and >33% finer than 0	.02mm	
				Blue Book	Reference Section 6.3.3 (p 6	(9)	
					V		
			Prepare SWMP				
Erosion o	ontrols			Main	tenance notes		
Site office and pa				Flocculation of Typ	e D basins BB Ref Appendix I	E	
Access limitations BB)			d Check Sheets BB Ref S ectio		
Barrier fencing	/no-go zones			Cleaning and repair o	of all measures BB Ref Sectio	n 8	
Staging o	f works						
Clean and dirty w	ater diversions				tion requirements		
			Top		lacement BB Ref Section 4.3	(p 4.3)	
Sediment					n of diversion drains		
Sediment					ng works BB Ref Table 7.1 (p		
Sediment basin			C-fact	ors required post con	struction BB Ref Section 7.1	.2 (p 7.2)	
Stabiliser	l access						
Waste s	torage				dard drawings		
				Blue Book Refer	ence Sections 4, 5, 6 and 7		
		nclude drav				_	
	Book Refere	nce Sectio	n 9.3 and 9.4 (p 9.10 a	and 9.19)			

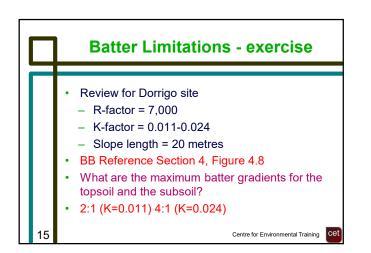




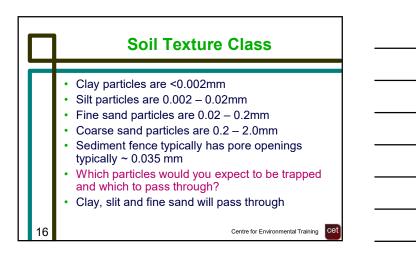


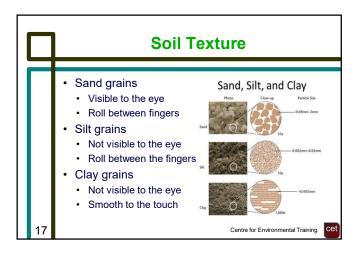


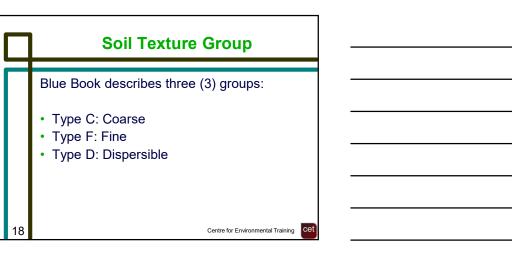






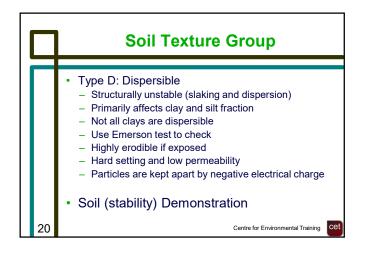


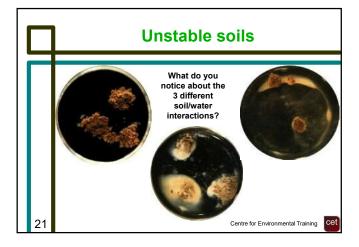






	Soil Texture Group									
	 Type C: Coarse Easier to capture or settle out <33% clay and silt Sediment basin not likely required or design relatively simple Type F: Fine Harder to capture Require longer time to settle out >33% clay and silt Require "total storm capture" sediment basins Higher emphasis on erosion control 									
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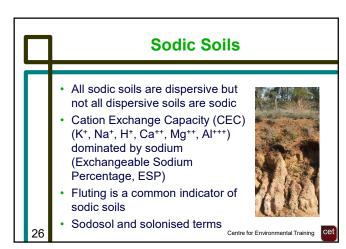
	Dispersible Soil
	 Severe rilling of exposed (vertical) surfaces Dispersive soils subject to gully and tunnel erosion High risk of tunnel erosion or piping when used for earthworks Generates turbid runoff. May remain turbid for a long time, or never clear Negatively charged clay particles leaving a site can transport positively charged contaminants including heavy metals and nutrients
22	Centre for Environmental Training

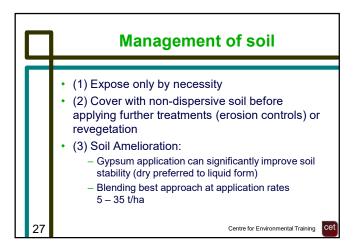






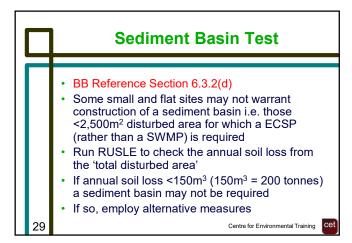


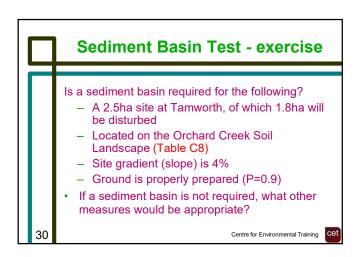




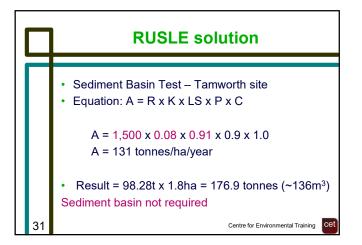


	Timing	measures required?				
Yes		ble 4.3 (p 4.15) and Figure 4.9 (p 4.1	6) No			
Include timing	restrictions or	Batter limitations required?				
plan alternatives (I	imit slope lengths)	Blue Book Reference	Figures 4.7, 4.8 (p 4.11, 4.12)			
		iment basin test				
		rence Section 6.3.2(d) (p 6.8)				
<200t no basin required	Run RUSLE, Mul	tiply by total disturbed area	>200t basin(s) required			
			e sediment type; D, C or F			
			nce Appendix C or Lab test results			
			ay + % Silt/2) x Dispersion % >10			
			pe D and <33% finer than 0.02mm			
			pe D and >33% finer than 0.02mm			
		Blue Book Re	eference Section 6.3.3 (p 6.9)			
×		Prepare SWMP	¥			
Frosion contr	ale		nance notes			
Site office and parkin			D basins BB Ref Appendix E			
Access limitations BB Ref			Check Sheets BB Ref Section 8			
Barrier fencing/no-			all measures BB Ref Section 8			
Staging of wo						
Clean and dirty water	diversions	Stabilisatio	on requirements			
		Topsoil handling and repla	cement BB Ref Section 4.3 (p 4.3)			
Sediment cont	rols		of diversion drains			
Sediment fen			g works BB Ref Table 7.1 (p 7.3)			
Sediment basins (if		C-factors required post const	truction BB Ref Section 7.1.2 (p 7.2)			
Stabilised acc						
Waste stora	ţe.		ard drawings			
		Blue Book Referer	nce Sections 4, 5, 6 and 7			
	Include dra	wings and commentary				



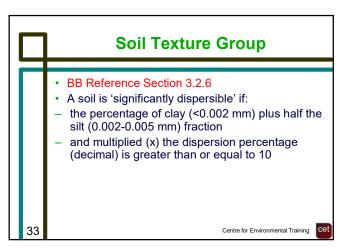


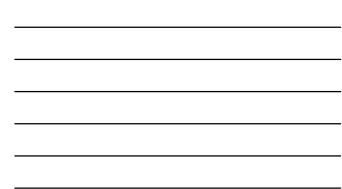




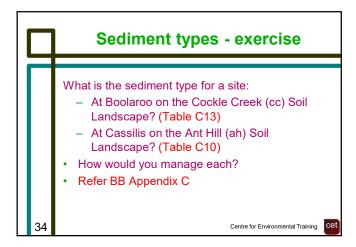
			¥				
		Timin	ig measures r	equired?			
<u>`</u>	les Bl	ue Book Reference 1	Table 4.3 (p 4	15) and Figure 4.9 (p 4.16	5) No		
			_			<u> </u>	
	lude timing re			Batter limitations required?			
plan alt	ernatives (limi	t slope lengths)		Blue Book Reference Figures 4.7, 4.8 (p 4.11, 4.12)			
		~				/	
			ediment basi				
				on 6.3.2(d) (p 6.8)			
<200t no basin require	ed	Run RUSLE. M	fultiply by to	al disturbed area	>200t	basin(s) required	
					¥		
					e sediment type; D		
	_			Blue Book Referen			
					y +% Silt/2) x Disp		
				Type C if: Not Typ			
			_	Type F if: Not Typ			
				Blue Book Re	ference Section 6	.3.3 (p 6.9)	
	ų.				¥		
			Prepar	e SWMP			
	osion controls			Maintenance notes			
	and parking lo			Flocculation of Type D basins BB Ref Appendix E			
		ef Table 4.1 (p 4.2)		Inspection regime and Check Sheets BB Ref Section 8 Cleaning and repair of all measures BB Ref Section 8			
	encing/no-go aging of works	zones		cleaning and repair of a	ii measures BB Re	r section a	
	dirty water div		_	Charle III and a	n requirements		
Clean and	dirty water div	rensions	Ter	scabilisatio		tion 4 3 (n 4 3)	
Sau	timent control		10		of diversion drains		
	diment fencing	•		-factors required during			
	t basins (if req			tors required post constr			
	abilised access		C ID				
	Vaste storage			Standa	rd drawings		
				Blue Book Referen		and 7	
		Include d	drawings and	commentary			
	Model	Plans Blue Book Ret	ference Secti	on 9.3 and 9.4 (p 9.10 and	9 19)		











	Sediment types - exercise											
	 For each of the following soils described by Particle Size Analysis and Dispersion Percentage (DP), determine the sediment type, C, F or D (use BB design spreadsheet) 											
	Clay	Silt	Fine Sand	Coarse sand	Gravel	DP	Sed type					
	26%	20%	15%	35%	4%	25%	F (9.0)					
	5% 20% 62% 10% 3% 55% C (8.25)											
	52% 14% 20% 13% 1% 23% D (13.57)											
35	5 Centre for Environmental Training											

