GEOMORPHOLOGICAL INDEX

Monitoring Data Sheet

OBSER	RVER					DAT	E_					
RIVER MAP SI LATIT	HEET	ONGITUI	DE OF SI	TE								
	UDE (m)				GRADIE	NT (from	topo. ma	p)				
RIVER		<u> </u>			CHANNE							
FINAL Zone	RATING	G (bring so			n last pag Bank sta		Dogg	endation		A como dotio		٦
Zone		Clia	nnel type	;	Dank sta	ши	Degi	radation		Aggradatio)II	
		RING S		ndicate	differenc	es from t	he refer	ence phot	tograph)		
Show ke such as:	y features	;					Dov	vnstream				7
- channe	el mor	phology										
- flow di	rection											
- north												
- roads, i	footpaths	and neares	st acce	ess								
- bridges	s, crossing	gs										
- fences												
- gauges instrea	and ım barrier	·s										
- buildin	gs											
b. Pho	otograj	ohs										
		-				Fil	m No			S	Shot No	
(Overhead											
Ţ	Upstream									l		
	·	·		-	·		·	_ _				
2. 1	PHYSI	CAL C	CHAR	ACTE	RISTI	ICS						
		ne of sam										
Dry		Isolated	- U	Low		Med		High		Flood	T	
		Pool		Flow		Flow		Flow				

water turbidity

Clear cloudy opaque	
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3. BANK VEGETATION (ACTIVE CHANNEL)

Rate: none - 0; sparse - 1; patchy - 2 continuous - 3; dense (impenetrable) - 4

DENSITY	Reeds	Grasses	Shrubs & Trees
banks of active channel			

Rate: no impact - 0; limited impact - 2, extensive impact - 3; channel blocked - 4.

COARSE ALIEN WOODY DEBRIS (in	Amount (Rate 0 - 5)	Source: Local/Upstream
channel)		

4. CHANNEL MODIFICATIONS AND BANK IMPACTS

IN-CHANNEL MODIFICATIONS	BANK IMPACTS (at site)						
(Tick if present within 100 m of the								
study)	(Note level of impact)							
weir		none	limited	moderate	severe			
causeway	livestock							
bridge	wild animals							
fence across river	footpaths							
bulldozing/ gravel extraction	vegetation removal							
	invasive vegetation							
gabions	other							
canalisation								
other:								

5. CHANNEL CONDITION

GEOMORPHOLOGICAL II	NDICATO	DRS							
BANK CONDITION				BAR CON	DITION				
Tick if present				Bar types Tick relevant boxes	Tick bar mater relevant		width at widest point (% active channel)	vege (0 r	oaching station none 4 dense) veg type
				sand/ gravel	cobble	,		<i>C</i> 71	
				lee					
active/recent channel incision				point					
active-channel shifting				lateral					
macro-channel shifting (cut-offs a	nd avulsion	n)		mid-channel					
Tick appropriat	e column	LHB	RHB	tributary					
A. fluvial bank erosion (undercutting, slumping etc. caused by river action) Note % of bank length affected				BED COND	ITION				
	<10%			Bed material (tick the size class of the larger material)	silt/ clay	sand/ fine gravel	co.grave l/ pebble	cobb	
	10-33%								
	33-75%			Erosion indic		local (<10% area)	moderat e (10 - 50% area)		nsive % area)
	>75%			local bed scou	r		urcuy		
B. sub-aerial erosion (sheet wash,	rills, etc. on	banks no	ot caused			NA	NA		
by river action): <i>tick if present</i> well vegetated banks, no sign of each	rosion			clean gravel/c bedrock paver					
sparsely vegetated banks, limited rilling and or livestock tracks				Deposition in tick box if obs		local (<10% area)	moderat e (10 - 50% area)		nsive % area)
steep unvegetated banks, active ril gullying and/or extensive livestoc trampling				silt deposits ir (give maximu of silt)			urca)		
COMMENTS		_		silt drapes on margins/ over or boulders	cobbles				
				embedded cob		limited	moderat e	exter	nsive
				riffle, run, p	lane bed			<u> </u>	
				pools				<u> </u>	
				tendency towa bed of sand or gravel		mod-erate	defi	inite	

-				
	overbank deposition	minor	wide-spread	
	o versum deposition		ac spread	1
				1
				1 1

6. GENERAL ASSESSMENT (Circle appropriate rating)

Rating table for bank condition

Condition	rating
Stable : erosion resistant soils, no undermining, usually gentle slope, good vegetation cover, no significant damage to bank structure or vegetation, no exposed roots.	0
Limited erosion : good vegetation cover, some minor isolated erosion, no continuous damage to bank structure or vegetation, some exposed roots.	1
Moderate erosion: banks held by discontinuous vegetation, some obvious damage to bank structure and vegetation, generally stable toe, moderately exposed roots, erosion limited to one bank.	2
Extensive erosion: little effective vegetation, mostly unstable toe, large numbers of exposed roots	3
Extreme erosion: evidence of rapid unchecked erosion, no effective vegetation, unstable toe, very recent bank movement, erosion on both banks	4

Rating table for bed degradation

Condition	rating
Nil bed degradation: no evidence of degradation	0
Moderate bed degradation: absence of fine alluvial material, narrow low-flow course, evidence of recent minor deepening	2
Extreme bed degradation: evidence of recent severe deepening, possible erosion heads	4

Rating table for bed aggradation

Condition	rating
Nil bed aggradation: no evidence of aggradation	0
Moderate bed aggradation: accumulation of material at obstructions, bed tending to flat, same size material on bed and bars, evidence of minor overbank siltation, slight to moderately embedded cobbles, moderate silt in pools	2
Extreme bed aggradation: flat bed, channel largely blocked by sand or gravel bars, overbank siltation evident, severely embedded cobbles, extensive silt in pools	4

rating (bank/degradation/aggradation)			
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