

A BACKGROUND MAP-BASED INFORMATION

Altitude(m)

Slope (m/km)

Flow category (1-10)

Solid geology code

Drift geology code

Planform category

Distance from source(km)

Significant tributary ?

Navigation ?

B FIELD SURVEY DETAILS*Reference network site number:**Mid-section grid reference of network site if different from designated location:*

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference:

River:

Date / / 1995

Time:

Surveyor name

Adverse conditions affecting survey?

No ☐Yes ☐

If yes, state

Bed of river visible?

No ☐partially ☐ entirely ☐ (tick one box)Duplicate photographs: general character? No ☐ Yes ☐ (tick one box)Site surveyed from: left bank ☐ right bank ☐ channel ☐ (tick as appropriate)**C PREDOMINANT VALLEY FORM (tick one box only)**☐

shallow vee

☐

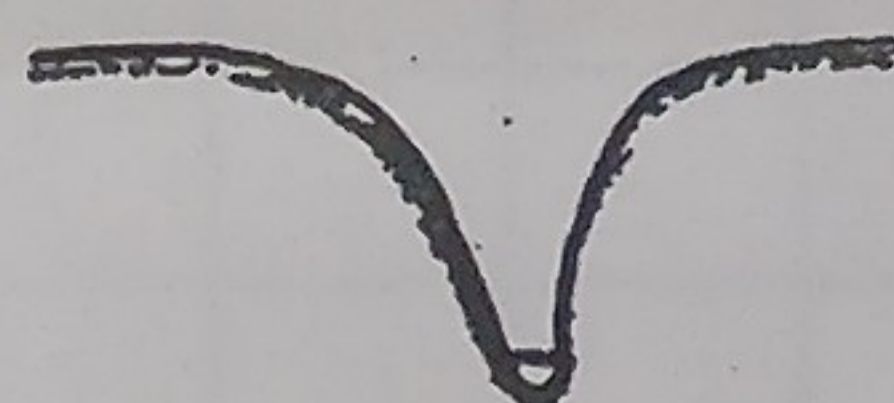
terraced valley floor

☐

deep vee

☐

symmetrical floodplain

☐

gorge

☐

asymmetrical floodplain

☐

concave/bowl

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use ||| then indicate total number)

Riffles

Unvegetated point bars

Pools

Vegetated point bars

National Rivers Authority

Spot check 1 is at: upstream end ☐ downstream end ☐ of site (Tick one box)

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone)

Mat. = Material ' = one entry only	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Mat. ' BE,BO,CO,GS,EA,PE,CL,CC,SP,WP,GA,BR,RR,BW										
Bank modification(s) NO,RS,RI,PC,BM,EM										
Bank feature(s) NK,NO,EC,SC,PB,VP,SB,VS										
CHANNEL										
Channel substrate ' NV,BE,BO,CO,GP,SA,SI,CL,AR										
Flow type ' FF,CH,BW,UW,CF,RP,UP,SM,NP,NO										
Channel modification(s) NK,NO,CV,RS,RI,DA,FO										
Channel feature(s) NO,RO,MB,VB,MI,TR										
RIGHT BANK										
Mat. ' BE,BO,CO,GS,EA,PE,CL,CC,SP,SW,GA,BR,RR,BW										
Bank modification(s) NO,RS,RI,PC,BM,EM										
Bank feature(s) NK,NO,EC,SC,PB,VP,SB,VS										

F BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide transect)

Land use: choose one from BL, CP, MH, SC, RP, WL, OW, IG, TL, SU

LAND USE WITHIN 5m OF BANKTOP (L)										
LEFT BANK-TOP (structure within 1m) B/U/S/C										
LEFT BANK FACE (structure) B/U/S/C										
RIGHT BANK FACE (structure) B/U/S/C										
RIGHT BANK-TOP (structure within 1m) B/U/S/C										
LAND USE WITHIN 5m OF BANK TOP (R)										

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry: use E (≥ 33% area) or ✓ (present))

NONE (tick as appropriate)										
Liverworts/mosses/lichens										
Emergent broad-leaved herbs										
Emergent reeds/sedges/rushes										
Floating-leaved (rooted)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine/linear-leaved										
Filamentous algae										

Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or ✓)

SITE NO.

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP

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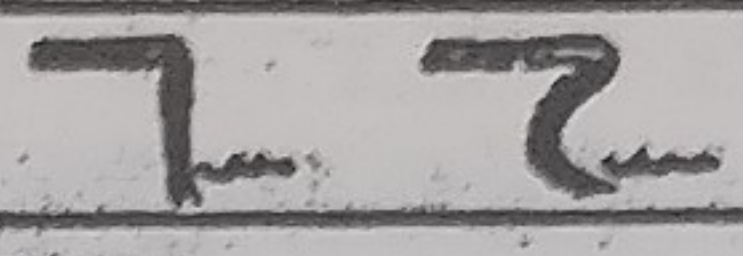
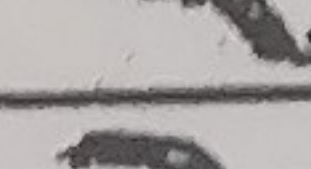
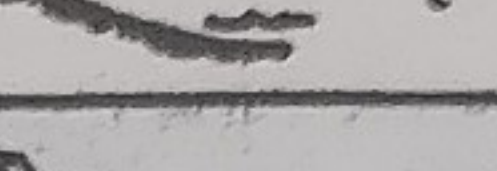
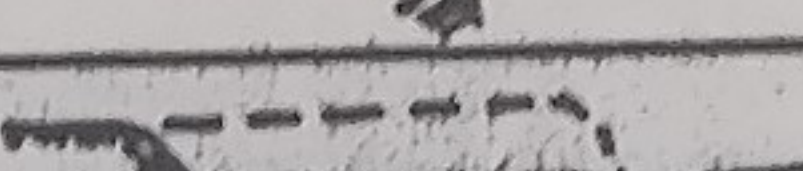
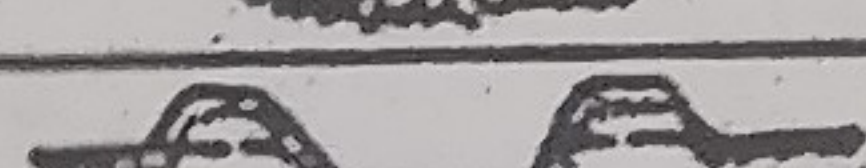
H

LAND USE WITHIN 50m OF BANKTOP Use E ($\geq 33\%$ banklength) or $\checkmark$ if present

	L	R		L	R
Broadleaf/mixed woodland (BL)			Wetland (eg bog, marsh, fen) (WL)		
Coniferous plantation (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/semi-improved grass (IG)		
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I

BANK PROFILES Use E ($\geq 33\%$ banklength) or $\checkmark$ if present

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut 			Resectioned 		
Vertical + toe 			Reinforced - whole bank 		
Steep ($>45^\circ$) 			Reinforced - top only 		
Little 			Reinforced - toe only 		
Composite 			Artificial two-stage 		
Use this space to draw profile if different from above, after ticking predetermined box			Poached 		
			Embanked 		
			Set-back embankments 		

J

EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per bank)

Left Right

None

☐☐

Isolated/scattered

☐☐

Regularly spaced, single

☐☐

Occasional clumps

☐☐

Semi-continuous

☐☐

Continuous

☐☐

ASSOCIATED FEATURES (Tick one box per feature)

E $\geq 33\%$

None

Present

E

Shading of channel

☐☐☐

Overhanging boughs

☐☐☐

Exposed bankside roots

☐☐☐

Underwater tree roots

☐☐☐

Fallen trees

☐☐☐

Coarse woody debris

☐☐☐

K EXTENT OF CHANNEL FEATURES (Tick one box per feature)

None

Present

E

Waterfall(s) ~free-fall

☐☐☐

Cascades(s) ~chute

☐☐☐

Step/pool sequence

☐☐☐

Rapid(s) ~whitewater

☐☐☐

Riffle-pool sequence

☐☐☐

Run(s) ~disturbed, rippled

☐☐☐

Boil(s) ~upwellings

☐☐☐

Glide(s) ~smooth, no eddies

☐☐☐

Marginal deadwater ~slack

None

Present

E

☐☐☐

Exposed bedrock

☐☐☐

Exposed boulders

☐☐☐

Unvegetated mid-channel bars

☐☐☐

Vegetated mid-channel bars

☐☐☐

Mature island(s)

☐☐☐

Unvegetated side bars

☐☐☐

Vegetated side bars

☐☐☐

L CHANNEL DIMENSIONS to be measured at one site on a straight uniform section, preferably across a riffle

LEFT BANK		Banktop width (m)		RIGHT BANK	
Banktop height (m)		Water width (m)		Banktop height (m)	
Embanked height (m)		Water depth (m)		Embanked height (m)	

If trashline lower than banktop break in slope, indicate: height (m) width(m)

Bed material at site is: consolidated (compact) ☐ unconsolidated (loose) ☐ unknown ☐

Location of measurement is: riffle ☐ run or glide ☐ other ☐ (tick one box) Slope (IFE only)

M ARTIFICIAL FEATURES (Use ☒ Indicate total number, tick "none" where appropriate)

None ☐ Number of Culverts= Weirs= Outfalls= Fords =
Footbridges = Roadbridges = Other=
Is water level controlled by weir/dam downstream? No ☐ Part of site ☐ Most/whole of site ☐

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging ☐ mowing ☐ Other ? State
weed-cutting ☐ enhancement ☐

O FEATURES OF SPECIAL INTEREST (Tick appropriate box(es))

CHANNEL	FLOODPLAIN (50m corridor)		
Waterfalls > 5m high ☐	Artificial open water ☐	Bog ☐	Other (state)
Braided/side channels ☐	Natural open water ☐	Carr ☐	
Debris dams ☐	Water meadow ☐	Marsh ☐	
Leafy debris ☐	Fen ☐	Flush ☐	

P CHOKED CHANNEL (Tick one box)

Is 33% or more of the channel choked with vegetation? NO ☐ YES ☐

Q NOTABLE NUISANCE PLANT SPECIES Use ☒ or E

Giant Hogweed ☐ Himalayan Balsam ☐ Japanese Knotweed ☐ Other ? State

R BRIEF DESCRIPTION (Use prompts and key words as appropriate)

Descriptive sentence:

Plants of note:

Major conservation features:

Major impacts:

Incidental observations (animals etc):

S DISEASED ALDERS (Tick one box)

None ☐ Present ☐ Extensive ☐ Other diseased trees? State

END COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKE, WAREHAM, BH20 6B.

PHYSICAL ATTRIBUTES (SECTION E)

BANKS

Predominant bank material

BE = bedrock
BO = boulder
CO = cobble
GS = gravel/sand
EA = earth (crumbly)
PE = peat
CL = sticky clay

CC = concrete
SP = sheet piling
WP = wood piling
GA = gabion
BR = brick/laid stone
RR = rip-rap
BW = builders' waste

Bank modifications

NO = none

RS = resectioned
RI = reinforced
PC = poached
BM = berm
EM = embanked

Bank features

NK = not known (eg far bank)
NO = none

EC = eroding earth cliff
SC = stable earth cliff

PB = unvegetated point bar
VP = vegetated point bar

SB = unvegetated side bar
VS = vegetated side bar

CHANNEL

Predominant substrate

NV = not visible

BE = bedrock
BO = boulder
CO = cobble
GP = gravel/pebble
SA = sand
SI = silt/mud
CL = clay
AR = artificial

Predominant flow
(see below)

FF = freefall
CH = chute
BW = broken standing waves (white-water)
UW = unbroken standing wave
CF = chaotic flow
RP = rippled
UP = upwelling
SM = smooth boundary
turbulent
NP = no perceptible flow
NO = None (dry)

Channel modifications

NK = not known (not visible)
NO = none

CV = culverted
RS = resectioned
RI = reinforced
DA = dam/weir
FO = ford (man-made)

Channel features

NO = none

RO = exposed bedrock/boulders
MB = unvegetated mid-channel bar
VB = vegetated mid-channel bar
MI = mature island
TR = urban debris (trash)

FLOW TYPES

ASSOCIATED CHANNEL FEATURES

FF: Free fall

clearly separates from backwall of vertical feature ~ associated with waterfalls.

CH: Chute

low curving fall in contact with substrate ~ associated with step of step-pool cascade.

BW: Broken standing waves

White-water tumbling wave must be present ~ associated with rapids.

UW: Unbroken standing waves

upstream facing wavelets which are not broken ~ associated with riffles.

CF: Chaotic flow

a mixture of rough flow types in no-organised pattern.

RP: Rippled

no waves, but general flow direction is downstream with disturbed rippled surface ~ associated with runs.

UP: Upwelling

heaving water as upwellings break the surface ~ associated with boils.

SM: Smooth boundary
turbulent

perceptible downstream movement is smooth (no eddies) ~ associated with glides.

NP: No perceptible flow

no net downstream flow ~ associated with pools and deadwater.

NO: No flow

dry.

— Coarse sand
— Gravel

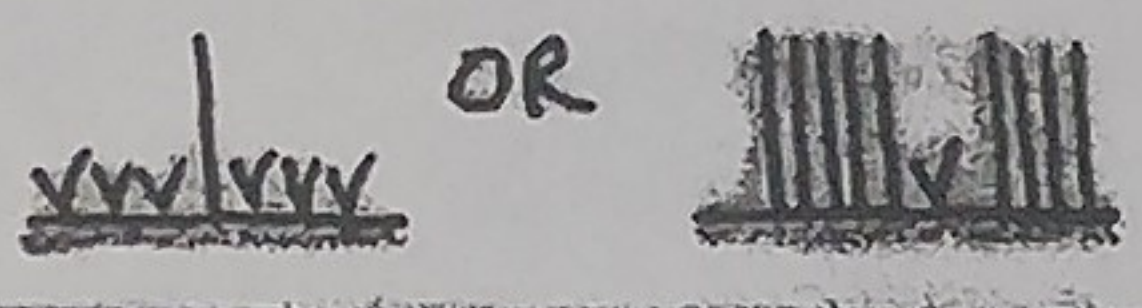
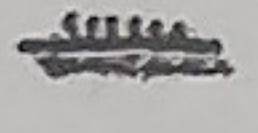
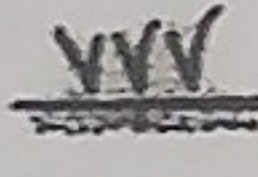
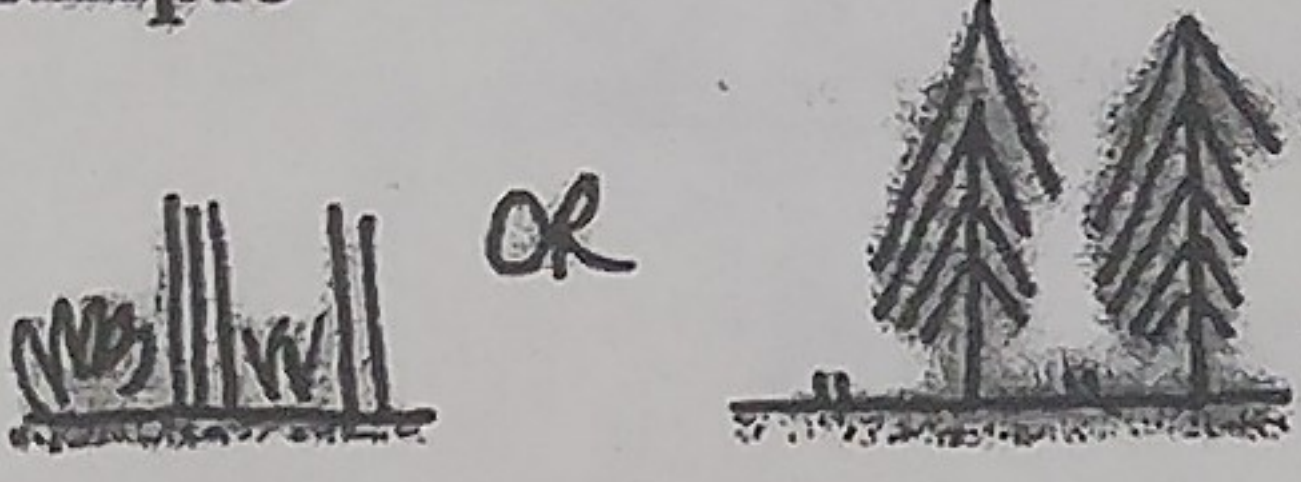
— Pebble

Cobble (to size of A4 page)

LAND USE WITHIN 5m OF BANKTOP (SECTION F)

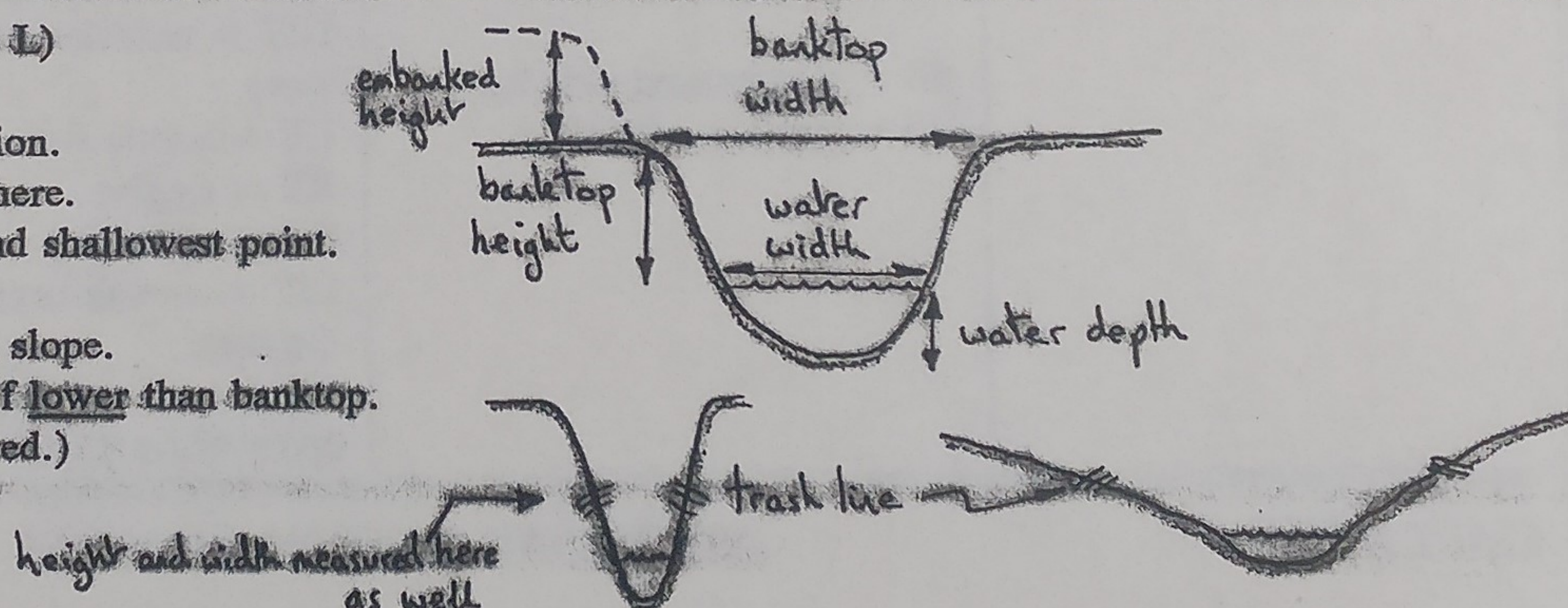
BL =	Broadleaf/mixed woodland	RP =	rough pasture	IG =	improved grass
CP =	Coniferous/plantation	WL =	wetland	TL =	tilled land
MH =	Moorland/heath	OW =	open water	SU =	suburban/urban
SC =	Scrub				

BANKTOP AND BANKFACE VEGETATION STRUCTURE To be assessed within a 10m wide transect (SECTION F)

bare	B	bare earth/rock etc	Vegetation types
uniform 	U	predominantly one type (no scrub or trees)	 bryophytes  short herbs/creeping grasses
simple 	S	two or three vegetation types	 tall herbs/grasses  scrub/brambles etc
complex 	C	four or more types	 saplings and trees

Channel dimensions guidance (Section L)

- Select location on uniform section.
- If a riffle is present, measure there.
If not, measure at straightest and shallowest point.
- Banktop = first major break in slope.
- Trashline level to be recorded if lower than banktop.
(Height and width to be measured.)


WORKING ALONE: CHECKLIST

- | | |
|------------------------------------|---------------------------------|
| • PREPARATION | • NEVER ENTER CONFINED SPACES |
| • IMPLEMENT REPORTING-IN PROCEDURE | • OBSERVE HYGIENE RULES |
| • WEAR PROTECTIVE CLOTHING | • REPORT IN AS AGREED |
| • DO NOT RUSH | • WATCH FOR CHANGING CONDITIONS |

WEIL'S DISEASE
INSTRUCTIONS TO CARD HOLDERS

- As infection may enter through breaks in the skin ensure that any cut, scratch or abrasion is thoroughly cleansed and covered with a waterproof plaster.
- Avoid rubbing your eyes, nose and mouth during work.
- Clean protective clothing, footwear and equipment etc, after use.
- After work and particularly before taking food or drink wash hands thoroughly.
- Report all accidents and/or injuries however slight.
- Keep your card with you at all times.

NRA EMERGENCY HOTLINE

0800 80 70 60

24-hour free emergency telephone line.