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 ?
Height of source (m)	Water Quality Class	

B FIELD SURVEY DETAILS

Reference network site number:

Mid-site grid reference of network site if different from designated location:

Grid Reference: River:

Date ..../..../1996 Time: ..... Surveyor name .....

Accredited Surveyor? No ☐ Yes ☐ *If yes, state number* .....

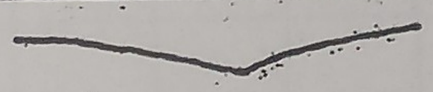
Adverse conditions affecting survey? No ☐ Yes ☐ *If yes, state* .....

Bed of river visible? No ☐ partially ☐ entirely ☐ *(tick one box)*

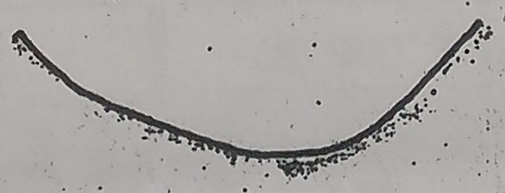
Duplicate photographs: general character? No ☐ Yes ☐ *(tick one box)*

Site surveyed from: left bank ☐ right bank ☐ channel ☐ *(tick as appropriate)*

C PREDOMINANT VALLEY FORM *(tick one box only)*

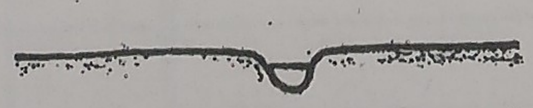


☐ shallow vee

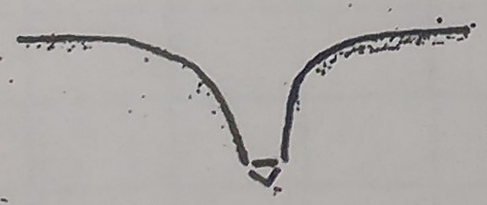


☐ concave/bowl
(If U-shaped glacial valley - add "U")

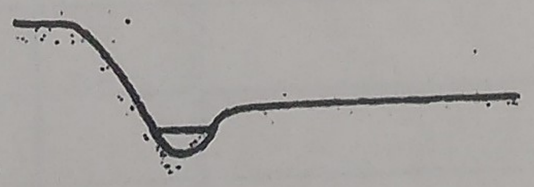
☐ deep vee



☐ symmetrical floodplain



☐ gorge



☐ asymmetrical floodplain

Terraced valley floor? No ☐ Yes ☐

D NUMBER OF RIFFLES, POOLS AND POINT BARS *(indicate total number)*

Riffles	Unvegetated point bars
Pools	Vegetated point bars

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

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

F PHYSICAL ATTRIBUTES *(to be assessed across channel within a 1m wide transect)*

[1] = one entry only	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Material [1] *NV,BE,BO,CO,GS,EA,PE,CL,CC,SP,WP,GA,BR,RR,BW*										
Bank modification(s) *NK,NO,RS,RI,PC,BM,EM*										
Bank feature(s) *NV,NO,EC,SC,PB,VP,SB,VS*										
CHANNEL										
Channel substrate [1] *NV,BE,BO,CO,GP,SA,SI,CL,PE,AR*										
Flow type [1] *FF,CH,BW,UW,CF,RP,UP,SM,NP,NO*										
Channel modification(s) *NK,NO,CV,RS,RI,DA,FO*										
Channel feature(s) *NV,NO,RO,MB,VB,MI,TR*										
RIGHT BANK										
Material [1] *NV,BE,BO,CO,GS,EA,PE,CL,CC,SP,SW,GA,BR,RR,BW*										
Bank modification(s) *NK,NO,RS,RI,PC,BM,EM*										
Bank feature(s) *NV,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, OR, MH, SC, TH, RP, IG, TL, WL, OW, 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 *(assessed over a 10m wide transect: use E (≥ 33% area) or ✓ (present)*

NONE											
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											

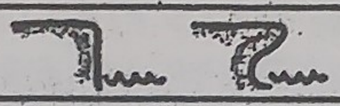
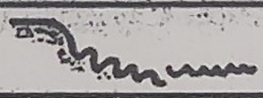
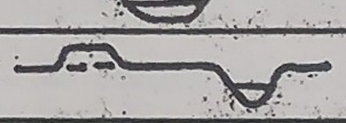
Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or ✓) ↑

SITE NO.	1996 RIVER HABITAT SURVEY: 500m SWEEP-UP	Page 3 of

H LAND USE WITHIN 50m OF BANKTOP *Use E (≥ 33% banklength) or ✓ if present*

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

I BANK PROFILES *Use E (≥ 33% banklength) or ✓ (present)*

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut 			Resectioned 		
Vertical + toe 			Reinforced - whole bank 		
Steep (>45°) 			Reinforced - top only 		
Gentle 			Reinforced - toe only 		
Composite 			Artificial two-stage 		
			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)*

	None	Present	E (≥33%)
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		None	Present	E (≥33%)
Waterfall(s)	☐	☐	☐	Marginal deadwater	☐	☐	☐
Cascades(s)	☐	☐	☐	Exposed bedrock	☐	☐	☐
Rapid(s)	☐	☐	☐	Exposed boulders	☐	☐	☐
Riffle(s)	☐	☐	☐	Unvegetated mid-channel bar(s)	☐	☐	☐
Run(s)	☐	☐	☐	Vegetated mid-channel bar(s)	☐	☐	☐
Boil(s)	☐	☐	☐	Mature island(s)	☐	☐	☐
Glide(s)	☐	☐	☐	Unvegetated side bar(s)	☐	☐	☐
Pool(s)	☐	☐	☐	Vegetated side bar(s)	☐	☐	☐

Indicate predominant flow sequence (*select up to three features*):

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)*

M ARTIFICIAL FEATURES *(indicate total number or tick appropriate box)*

None ☐ Number of Culverts= Weirs= Outfalls= Fords =

Footbridges = Roadbridges = Other=

Is water impounded by weir/dam? No ☐ Yes, <33% of site ☐ >33% of site ☐

N EVIDENCE OF RECENT MANAGEMENT *(tick appropriate box(es))*

None ☐ Dredging ☐ Mowing ☐ Weed-cutting ☐

Enhancement ☐ Other ? State .....

O FEATURES OF SPECIAL INTEREST *(tick appropriate box(es))*

None	☐						
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 (≥ 33% banklength)*

None ☐ Giant Hogweed ☐ Himalayan Balsam ☐ Japanese Knotweed ☐ Other? State .....

R OVERALL CHARACTERISTICS *(Circle appropriate words, add others as necessary)*

Major impacts: landfill - tipping - litter - sewage - pollution - drought - abstraction - mill - dam - road - rail -industry -housing mining - quarrying - overdeepening - afforestation - fisheries management - silting

Land Management: set-aside - buffer strip - headland - abandoned land - parkland - MoD

Animals: otter - mink - water vole - kingfisher - dipper - grey wagtail - sand martin - heron - dragonflies/damselflies

Other significant observations:

S ALDERS *(tick appropriate box(es))*

Alders? None ☐ Present ☐ Extensive ☐ Diseased Alders? None ☐ Present ☐ Extensive ☐

PHYSICAL ATTRIBUTES (SECTION E)

BANKS

Predominant bank material

NV = not visible

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

NK = not known
NO = none

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

Bank features

NV = not visible (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
PE = peat
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
NO = none

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

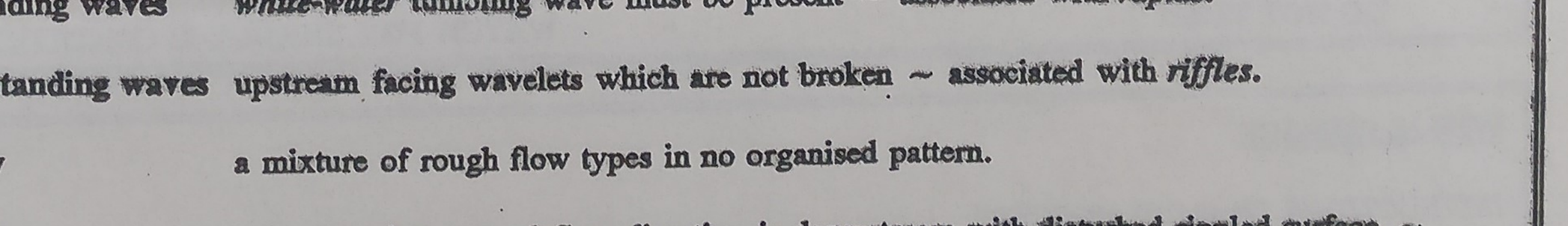
Channel features

NV = not visible
NO = none

RO = exposed bedrock/boulders
MB = unvegetated mid-channel bar
VB = vegetated mid-channel bar
MI = mature island

TR = urban debris (trash)

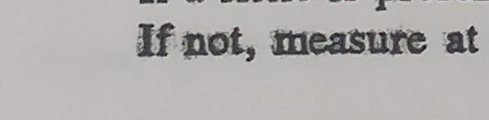
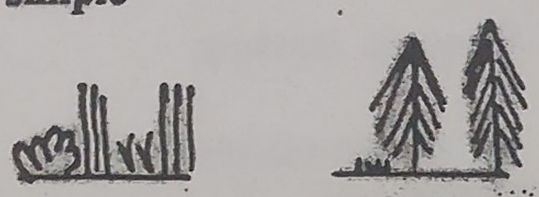
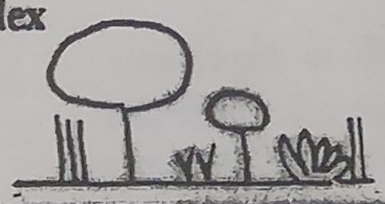
FLOW TYPES	ASSOCIATED CHANNEL FEATURES
FF: Free fall	clearly separates from backwall of vertical feature ~ associated with *waterfalls*.
CH: Chute	low curving fall in contact with substrate ~ associated with *step* of *step-pool cascade*.
BW: Broken standing waves	*white-water* tumbling wave must be 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*.



LAND USE WITHIN 5m OF BANKTOP (SECTION F)

BL =	Broadleaf/mixed woodland	SC =	Scrub	TL =	Tilled land
CP =	Coniferous/plantation	TH =	Tall herbs	WL =	Wetland
OR =	Orchard	RP =	Rough pasture	OW =	Open water
MH =	Moorland/heath	IG =	Improved grass	SU =	Suburban/urban

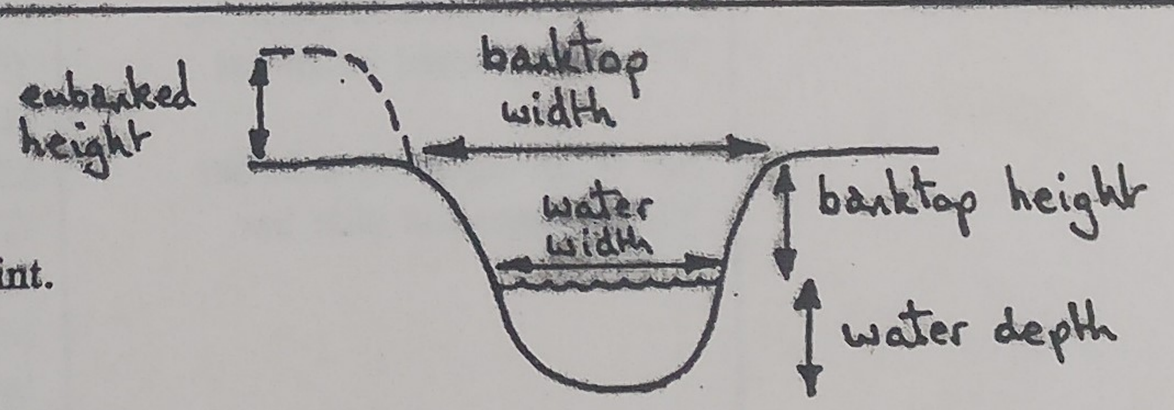
BANKTOP AND BANKFACE VEGETATION STRUCTURE To be assessed within a 10m wide transect (SECTION F)

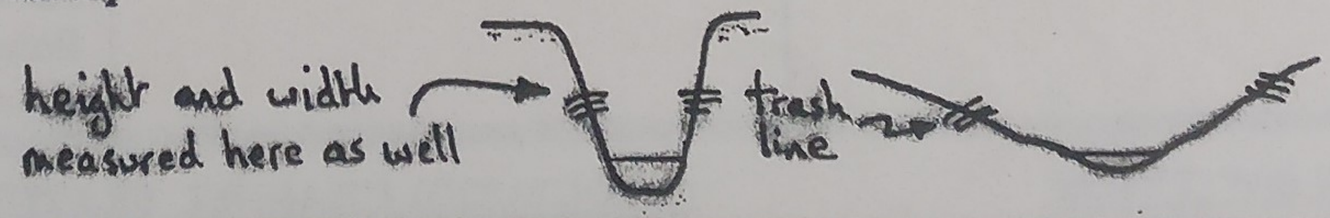
bare	B	bare earth/rock etc	Vegetation types
uniform 	U	predominantly one type (no scrub or trees)	bryophytes short herbs/ creeping grasses tall herbs/ grasses scrub/brambles etc saplings and trees
simple 	S	two or three vegetation types	
complex 	C	four or more types	

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

WEIL'S DISEASE

INSTRUCTIONS TO CARD HOLDERS

1. 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.
2. Avoid rubbing your eyes, nose and mouth during work.
3. Clean protective clothing, footwear and equipment etc, after use.
4. After work and particularly before taking food or drink wash hands thoroughly.
5. Report all accidents and/or injuries however slight.
6. Keep your card with you at all times.

ENVIRONMENT AGENCY EMERGENCY HOTLINE

0800 80 70 60
24-hour free emergency telephone line.