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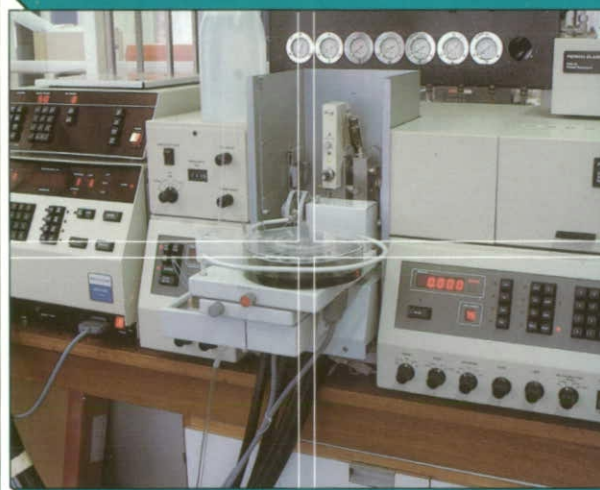
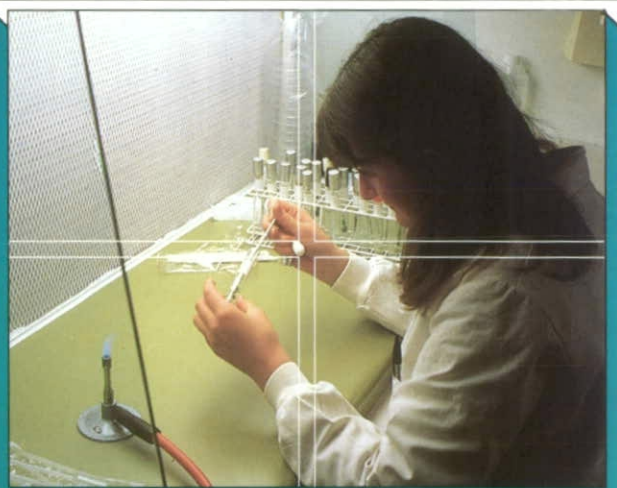
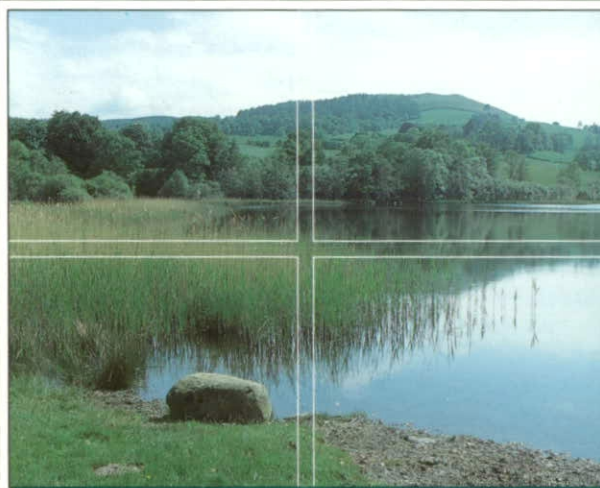


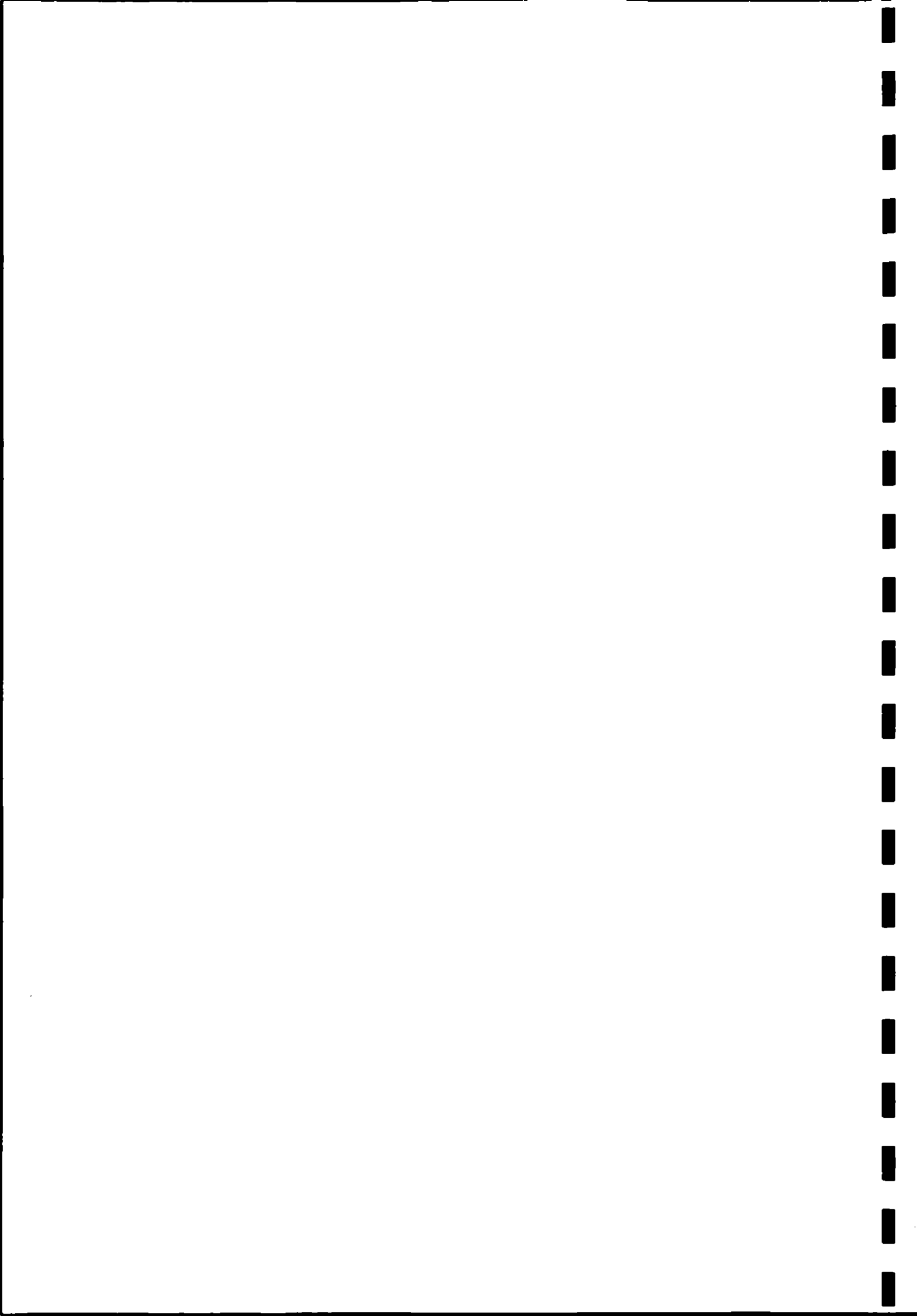
**Institute of
Freshwater
Ecology**

NRA RIVER HABITAT SURVEY 1995 QUALITY ASSURANCE SURVEY SHEETS ENGLAND AND WALES

F H Dawson PhD C Biol; N J Grieve BSc; M D Lane BSc

Report To: National Rivers Authority, Bristol
CEH Project No: T04073H4
IFE Report Ref.No: RL/T04073H4/5







**Institute of
Freshwater
Ecology**

River Laboratory
East Stoke
Wareham
Dorset BH20 6BB

**NRA RIVER HABITAT SURVEYS 1995
QUALITY ASSURANCE SURVEY SHEETS
ENGLAND AND WALES**

F H Dawson PhD CBiol; N J Grieve BSc; M D Lane BSc

Project Leader: F H Dawson
Report Date: July 1995
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3236 NY	WHARFE	27 WHARFE	SE072523	7
3237 NY	CAPELSTHAW BECK	27 WHARFE	SE123585	1
3238 NY	NIDD	27 NIDD	SE254592	5
3239 NY		27 NIDD	SE336549	1
3258 NY	STURDY BECK	27 WHARFE	SE317419	1
3294 NY	RED BECK	27 CALDER	SE105265	1
3295 NY	ALVERTHORPE BECK	27 CALDER	SE295221	1
3337 NY	DEARNE	27 DEARNE	SE445022	5
3338 NY	DOM	27 DON	SE543018	7
3408 NW	CROW BROOK	68 WEAVER	SJ707733	1
3409 NW	PEOVER EYE	68 WEAVER	SJ807735	1
3423 AN	WARING	29 WITHAM	TF268714	1
3536 ST	BAILEY BROOK	54 TERN	SJ576334	1
3567 ST	TANAT	54 TANAT	SJ245213	6
3569 ST	RODEN	54 TERN	SJ493283	2
3741 AN	ALCONBERRY BROOK	33 GREAT OUSE	TL088847	1
3742 AN		33 GREAT OUSE	TL195825	1
3884 W	IRFON	55 IRFON	SN858493	4
3956 AN	PANT	37 COLNE	TL585360	1
3959 AN	BELCHAMP BROOK	36 STOUR	TL816396	1
3991 TH	CHERWELL	39 CHERWELL	SP491204	5
4036 TH	DANES BROOK	39 THAME	SP598106	1
4079 TH		39 THAME	SP626012	1
4096 W	AFAN	58 AFAN	SS793933	5
4131 W	ELY	57 ELY	ST048807	5
4137 SW	FROME	53 AVON	ST662807	3
4163 SW	LAND YEO	52 LAND YEO	ST452717	1
4291 SW	QUARME	45 EXE	SS916363	2
4292 SW	WASHFORD	51 WASHFORD	ST028381	2
4304 SO	WALLOP BROOK	42 TEST	SU286382	2
4305 SO	TEST	42 TEST	SU344325	5
4333 SW	BROUGHTON BROOK	52 PARRETT	ST239202	1
4341 SW	EBBLE	43 AVON	SU077264	3
4372 SW	FIVEHEAD	52 PARRETT	ST298195	1
4381 SW	HUCKLES BROOK	43 AVON	SU176123	1
4407 SW	CULM	45 CULM	ST025078	4
4408 SW	WICK	45 OTTER	ST168035	1
4423 SO	HERMITAGE STREAM	42	SU693092	1
4443 SW	TALE	45 OTTER	SY084985	2

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m)	Slope (m/km)	Flew category (1-10)
Solid geology code	Drift geology code	Flanform category
Distance from source (km)	Significant tributary?	Navigation?

B. FIELD SURVEY DETAILS

Reference network site number: 2236

Mid-section grid reference of network site (if different from designated location)

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River Wlarfe

Date 11.5.1995 Time: Surveyor name: P.O.

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)

<input type="checkbox"/> shallow vee	<input checked="" type="checkbox"/> inverted valley floor
<input type="checkbox"/> deep vee	<input type="checkbox"/> symmetrical floodplain
<input type="checkbox"/> gorge	<input type="checkbox"/> asymmetrical floodplain
<input type="checkbox"/> concave-bowl	

D. NUMBER OF RIFLES, POOLS AND POINT BARS (Use 1/2 if their distance total number)

Rifles: ||| ① Unvegetated point bars

Pools: | ① Vegetated point bars

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NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 4 of 4

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide transect)

Site = historical = one only only

	1	2	3	4	5	6	7	8	9	10
--	---	---	---	---	---	---	---	---	---	----

LEFT BANK:

Site #	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995
Bank modifications	CA	EA	CA	CA	CA	EA	EA	EA	EA	EA
Bank features	CS	RS	NS	NS	NS	NS	NS	NS	NS	NS

CHANNEL:

Channel width (m)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Flow type	VA	RP	RP	RP	RP	RP	RP	RP	RP	RP
Channel modifications	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Channel features	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

RIGHT BANK:

Site #	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995	11.5.1995
Bank modifications	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank features	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

F. BANK OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 20m wide transect)

Land use classes from RL, CL, ML, SL, PL, NP, PL, PL, PL	SL	SL	FL	FL	SL	SL	SL	SL	SL	SL
LAND USE WITHIN 5m OF BANKTOP (L)	SL	SL	FL	FL	SL	SL	SL	SL	SL	SL
LEFT BANK TOP (structure within 2m)	SL	SL	FL	FL	SL	SL	SL	SL	SL	SL
LEFT BANK FACE (structure)	SL	SL	FL	FL	SL	SL	SL	SL	SL	SL
RIGHT BANK FACE (structure)	SL	SL	FL	FL	SL	SL	SL	SL	SL	SL
RIGHT BANK TOP (structure within 2m)	SL	SL	FL	FL	SL	SL	SL	SL	SL	SL
LAND USE WITHIN 5m OF BANK TOP (R)	SL	SL	FL	FL	SL	SL	SL	SL	SL	SL

G. CHANNEL VEGETATION TYPES (to be assessed across with one only: use E (2.15) only if appropriate)

NONE (tick as appropriate)										
Unvegetated bank										
Emergent broad-leaved herbs										
Emergent reed/sedge/herb										
Floating-leaved (macro)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Phanerogam algae										

The end "checkbox" column for type not occurring in spot checks as well as overall assessment over 500m (see E or F)

10/5

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 5m OF BANKTOP (Use E (2.15) for banktop) (if appropriate)

	L	R		L	R
Broad-leaved woodland (BL)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland (by bog, marsh, etc) (W)		
Crestline plantation (CP)			Open water (OW)		
1st/2nd/3rd (PH)			Improved/improved grass (IG)		
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I. BANK PROFILES (Use E (2.15) for banktop) (if appropriate)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical bank	<input type="checkbox"/>	<input type="checkbox"/>	Relieved - vertical bank	<input type="checkbox"/>	<input type="checkbox"/>
Vertical + toe	<input type="checkbox"/>	<input type="checkbox"/>	Relieved - by edge	<input type="checkbox"/>	<input type="checkbox"/>
Fluy (>45°)	<input type="checkbox"/>	<input type="checkbox"/>	Relieved - toe only	<input type="checkbox"/>	<input type="checkbox"/>
Gentle	<input type="checkbox"/>	<input type="checkbox"/>	Artificial toe-edge	<input type="checkbox"/>	<input type="checkbox"/>
Grasshopper	<input type="checkbox"/>	<input type="checkbox"/>	Feetbank	<input type="checkbox"/>	<input type="checkbox"/>
On site open to the public or distance from shore, tick to by professional use			Embankment	<input type="checkbox"/>	<input type="checkbox"/>
			Sea-bank embankment	<input type="checkbox"/>	<input type="checkbox"/>

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES	Left	Right	ASSOCIATED FEATURES	None	Present
None	<input type="checkbox"/>	<input type="checkbox"/>	Stag of channel	<input type="checkbox"/>	<input type="checkbox"/>
Broad-leaved	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging banks	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>
Small clumps	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Course woody debris	<input type="checkbox"/>	<input type="checkbox"/>

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present		None	Present
Vertical (V) - straight	<input type="checkbox"/>	<input type="checkbox"/>	Vertical bankside - silt	<input type="checkbox"/>	<input type="checkbox"/>
Concave (C) - silt	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Scalloped (S)	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Regular (R) - uniform	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bar	<input type="checkbox"/>	<input type="checkbox"/>
Irregular (I) - irregular	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bar	<input type="checkbox"/>	<input type="checkbox"/>
Point (P) - straight	<input type="checkbox"/>	<input type="checkbox"/>	Stream island	<input type="checkbox"/>	<input type="checkbox"/>
Point (P) - curved, irregular	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bar	<input type="checkbox"/>	<input type="checkbox"/>
Bank (B) - straight	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bar	<input type="checkbox"/>	<input type="checkbox"/>
Channel (Ch) - normal, no silt	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	2.9 m	RIGHT BANK		
Banktop height (m)	7.1	Water width (m)	2.2 m	Banktop height (m)	7.0
Embedded height (m)		Water depth (m)	1.5 m	Embedded height (m)	

If shallow less than banking bank in slope, indicate height (m) width

Bed material at site is: unconsolidated (recent) unconsolidated (fossil) volcanic

Location of measurement is: riffle run or glide eddy (tick one box) Slope (SEE only)

M. ARTIFICIAL FEATURES (tick appropriate box, tick "none" where appropriate)

None Number of Culverts = Weirs = Ditches =
 Foot-bridges = Embankments = Obstructions =
 Is water level controlled by weirs/dams/structures? No Part of site Mouth of site

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

ending mowing Other? Site

woodland enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate box)

CHANNEL	FLOODPLAIN (50m corridor)
Vertical > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Bankside channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Ditch dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>
Leafy debris <input type="checkbox"/>	Fox <input type="checkbox"/>
	log <input type="checkbox"/>
	Cur <input type="checkbox"/>
	Mark <input type="checkbox"/>
	Fluk <input type="checkbox"/>

P. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE INVASIVE PLANT SPECIES (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Site

R. BRIEF DESCRIPTION (Use pencil and leg words as appropriate)

Diagnostic features: Field bank steep woods of Woodpecker, left bank reaching ground level, deep pool on bank, lots of silt.

Major invasive species: woodland (broadleaf, two long willows)

Major invasive species: willow trees

Incidental observations (animal site):

T.C.H.

S. DISEASED ALIENS (tick one box)

None Present Extensive Other (specify) Site

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOLE, WARHAM, NORFOLK

NRA RIVER HABITAT SURVEY 1995

BACKGROUNDMAP-BASED INFORMATION

Slope (m/km) Flow category (1-10)

Drift geology code Platform category

Distance from source (km) Significant tributary? Navigation?

FIELD SURVEY DETAILS

Reference network site number: 3237

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

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River: *Capelskaw Beck*

Date: *2.11.1995* Time: *12:45* Surveyor name: *HO*

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)

PREDOMINANT VALLEY FORM (tick one box only)

shallow vee terraced valley floor symmetrical floodplain

deep vee gorge asymmetrical floodplain

concave/bowl

NUMBER OF RIFFLES, POOLS AND POINT BARS (use 1-11 then indicate total number)

Riffles *11* Unvegetated point bars

Pools *17* Vegetated point bars

National Rivers Authority

1403.1L 10/5

NRA RIVER HABITAT SURVEY 1995

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

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

Mt. = Material	1	2	3	4	5	6	7	8	9	10
LEFT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Mt. #	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
Flow type	SM	RP	UP	CH	CH	RP	NP	CH	SW	NP
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Mt. #	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from RL, CF, MH, SC, RP, VL, CW, IG, TL, SU

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

CHANNEL VEGETATION TYPES (all to refer to boxes with one entry; use E (2-3% area) or G (green))

NONE (tick as appropriate)										
Liverworts/mosses/lichens										
Emergent broad-leaved herbs										
Emergent reeds/bulrushes <i>Sunc-5</i>										
Flowering-leaved (rooted)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fan-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 G)

1403.1L

NRA RIVER HABITAT SURVEY 1995: 500m SWEELUP

SITE NO. 3237

LAND USE WITHIN 5m OF BANKTOP (use E (2-3% area) or G (green))

Broadleaf/deciduous woodland (BU)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Montane/heath (MH)			Improved/semi-improved grass (IG)		
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

BANK PROFILES (use E (2-3% area) or G (green))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut			Revetment		
Vertical + toe			Revetment - whole bank		
Steep (> 45°)			Revetment - top only		
Gentle			Revetment - toe only		
Composite			Artificial two-stage		
Use this space to draw profile if different from above, after taking predominant base					
	Flooded				
	Embankment				
	Set-back embankments				

EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None			Shading of channel		
Isolated/scattered			Overhanging boughs		
Regularly spaced, single			Exposed bankside roots		
Occasional clumps			Underwater tree roots		
Small-continuous			Fallen trees		
Continuous			Coarse woody debris		

LISTING OF CHANNEL FEATURES (tick one box per feature)

Waterfall(s) - free-fall			Marginal deadwater - slack		
Cascade(s) - chute			Exposed bedrock		
Step/pool sequence			Exposed boulders		
Rapids(s) - submergent			Unvegetated mid-channel bars		
Riffle-pool sequence			Vegetated mid-channel bars		
Ram(s) - distributed, rippled			Mature island(s)		
Bed(s) - spreading			Unvegetated side bars		
Slide(s) - smooth, no debris			Vegetated side bars		

1403.1L

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 1 of 4

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

LEFT BANK	Banktop width (m)	2.75	RIGHT BANK
Banktop height (m)	1.00	Water width (m)	0.75
Embankment height (m)	Water depth (m)	0.17	Embankment height (m)

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

Bed material at site is: consolidated (temp) unconsolidated (non) unknown

Location of measurement is: riffle run or glide other (tick one box) Slope (1/5 only)

ARTIFICIAL FEATURES (use 1-11 indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Dams = Fords =

In water level controlled by weir/dam downstream? No Part of site Mouth of site

EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dredging moving Other? Site

wood-cutting enhancement

FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	Waterfalls > 5m high <input type="checkbox"/>	FLOODPLAIN (50m corridor)	Artificial open water <input type="checkbox"/>	Bog <input checked="" type="checkbox"/>	Other (state)
Bank/side channels	Natural open water <input type="checkbox"/>	Debris dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>	Carr <input type="checkbox"/>	
Leafy debris <input type="checkbox"/>				Marsh <input type="checkbox"/>	
				Flint <input type="checkbox"/>	

CHOKED CHANNEL (tick one box)

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

NOTABLE NUISANCE PLANT SPECIES (use E or G)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Site

BRIEF DESCRIPTION (Use prompt and key words as appropriate)

Descriptive sentence: The reach could be characterised as two parts, the upper 1/3 being step-pool, the lower part has a lead flow step, although still above the pool sequences.

Major conservation features: Upper part seems semi natural (bordered by upland stream)

Major impacts: Boulders.

Incidental observations (animals etc): enormous rabbit warren

DISEASED ALDERS (tick one box)

None Present Extensive Other (name tree)? Site

SEND COMPLETED FORM TO BUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, DT20 8BB

1403.1L

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (n/100) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? Navigation?

FIELD SURVEY DETAILS

Reference network site number: 3237 AA
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: SE 123565 River: CAPELISHAN BECK
 Date: 6/2/1995 Time: 3:45 Surveyor name: G. G. WATSON (NG) FID: 78, 74, PH, 16, AK, 78, 06
 Adverse conditions affecting survey? No Yes If yes, state:
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) (see Note on Form)
 Site surveyed from: left bank right bank channel (tick as appropriate)

PREDOMINANT VALLEY FORM (tick one box only)

<input type="checkbox"/> shallow vee	<input type="checkbox"/> terraced valley floor
<input checked="" type="checkbox"/> deep vee	<input type="checkbox"/> symmetrical floodplain
<input type="checkbox"/> gorge	<input type="checkbox"/> asymmetrical floodplain
<input type="checkbox"/> concave/bowl	+ NUTS/POLES

NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1 if they indicate total number)

Riffles: Unvegetated point bars: 40
 Pools: Vegetated point bars:

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles Pools Unvegetated point bars Vegetated point bars

PHYSICAL ATTRIBUTES (to be assessed across channel within 6 m wide zone) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)

Spot check 1 is at upstream end of site (1) of site (2) of site (3) of site (4) of site (5) of site (6) of site (7) of site (8) of site (9) of site (10) of site (11) of site

Bank material (m)	PE	CO	PE	BO	CO	CO	EA	EA	EA	EA
Bank modification(s)										
Bank feature(s)										
Channel substrate (m)	CO	CO	CO	BO	SP	CO	CO	CO	CO	CO
Flow type (m)	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Channel modification(s)										
Channel feature(s)										
RIGHT BANK (m) (in cross-section)	PE	CO	PE	BO	CO	CO	EA	EA	EA	EA
Bank material (m)										
Bank modification(s)										
Bank feature(s)										

BANK OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 15m wide transect)

Land use: choose one from PL, CR, ROR, SC, LP, VE, OR, IO, TR, SW

LAND USE WITHIN 5m OF BANKTOP (L)	U11	U14	U14	U14	U14	U14	U14	U14	U14	U14
LEFT BANK TOP (structure within 2m)	U	U	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure)	U	B	B	B	U	U	B	S	S	U
RIGHT BANK FACE (structure)	U	B	U	B	U	B	U	U	S	S
RIGHT BANK TOP (structure within 2m)	U	U	U	U	U	U	U	U	U	U
LAND USE WITHIN 5m OF BANKTOP (R)	U11	U14	U14	U14	U14	U14	U14	U14	U14	U14

CHANNEL VEGETATION TYPES (tick one box) with one entry per 1.0m section (if present)

NONE (tick)	Mentha (patent)										
Invasive											
Emergent broad leaved herbs											
Emergent narrow leaved herbs											
Emergent sedges											
Emergent grasses											
Emergent forbs											
Emergent algae											
Free-floating											
Amphibious											
Submerged - broad leaved											
Submerged - narrow leaved											
Submerged - algae											
Filamentous algae											

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

PLANTS - Use 4 to 10 of Census of Plant Vegetation & species if possible of beta peak & 10 minimum per cent

DATES: record
 named
 indicated
 labels
 checks

NRA RIVER HABITAT SURVEY 1995: 500M SWEEP-UP Page 3 of 4

SITE NO. 3237 NRA RIVER HABITAT SURVEY 1995: 500M SWEEP-UP

LAND USE WITHIN 5m OF BANKTOP (Use 1 if present)

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

BANK PROFILES (Use 1 if present)

Natural/unmodified	L	R	Artificially modified	L	R
Vertical/undercut			Retained		
Vertical + toe			Reinforced - toe only		
Step (>45°)			Reinforced - toe only		
Grass			Reinforced - toe only		
Composite			Artificial structures		
Use 0-4 open to show profile if shown from above, after digging perpendicular line			Perched		
			Embedded		
			Subsoil embankments		

CONTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	ASSOCIATED FEATURES (tick one box per feature)
None	None Present
Isolated/scattered	Shedding of channel
Regularly spaced, single	Overhanging boughs
Occasional clumps	Exposed bankside roots
Semi-continuous	Underwater tree roots
Continuous	Fallen trees
	Causes woody debris

EXTENT OF CHANNEL FEATURES (tick one box per feature)

Waterfalls - freefall	None Present	Marginal deadwater - sleek	None Present
Cascades (freefall)		Exposed bedrock	
Step-pool sequences		Exposed boulders	
Rapids (whitewater)		Unvegetated mid-channel bars	
Riffle-pool sequences		Vegetated mid-channel bars	
Roads - disturbed, rippled		Marsh island(s)	
Bollis - spillways		Unvegetated side bars	
Gills - smooth, no adices		Vegetated side bars	

Have you completed your enquiry form this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	4.0	RIGHT BANK		
Banktop height (m)	0.5	Water width (m)	2.0	Banktop height (m)	0.8
Embedded height (m)		Water depth (m)	0.05	Embedded height (m)	

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

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

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

ARTIFICIAL FEATURES (Use 1 if present)

None Number of Culverts = Weirs = Overfalls = Fords =
 Footbridges = Roadbridges = Other =
 Is water level controlled by weirs/dams downstream? No Part of site Mouth of site

EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dredging moving Other? Site
 weed-cutting enhancement

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

CHANNEL: Waterfalls > 2m high Artificial open water
 Bridge/divide channels Natural open water Bog Other (tick)
 Debris dams Water meadow Marsh
 Leafy debris Fen Flurb

CHOKED CHANNEL (tick one box)

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

NOTABLE SUSANCAE PLANT SPECIES (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Site

BRIEF DESCRIPTION (Use prompts and 10 words to describe)

Descriptive sentence: Upland stream BO/CO & step-pool sequence
 Place of note: (see list) Top 2/3 is more UH & open
 Major conservation features: lower 1/3 = RP & trees lining stream
 Major impacts: Very stained water.

Incidental observations (animals etc):

IF checked also by the PWD (tick)

DISSEMINATED ALDERS (tick one box)

None Present Extensive Other (tick) Site

SEND COMPLETED FORM TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Embryos supplied! Post completed form for processing - labels supplied on site

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) _____ Slope (m/km) _____ Flow category (1-10) _____
 Solid geology code _____ Drift geology code _____ Platform category _____
 Distance from source(km) _____ Significant tributary? _____ Navigation? _____

B FIELD SURVEY DETAILS

Reference network site number: 7238
 Mid-section grid reference of network site (if different from designated location): _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SE 254592 River: N1DD
 Date: 18.1.1995 Time: 11:35 Surveyor name: LEACH/KIRKA

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)
with site number and date

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 + NOTES / EXTRA DIAGRAM _____

D NUMBER OF RIFLES, POOLS AND POINT BARS (Use 1-11, then indicate total number)

Rifles 1111 (4) Unvegetated point bars 0
 Pools 0 Vegetated point bars 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

Spot check 1 is at upstream and downstream and at site (tick one box)

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone)

Min. = Material = one entry only

	1	2	3	4	5	6	7	8	9	10	11	12
LEFT BANK												
Min. #	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
Bank feature(s)	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
CHANNEL VEGETATION												
Channel substrate	CD	CD	CD	CD	CD	CD	CD	CD	CD	CD	CD	CD
Flow type	UV	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
Channel modification(s)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Channel feature(s)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RIGHT BANK												
Min. #	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
Bank feature(s)	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB

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

Land use: choose one from ML, CP, AM, SC, RP, VL, OV, NS, TL, SU

LAND USE WITHIN 5m OF BANKTOP (L)	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G
LEFT BANK-TOP (structure within 5m)	UA	UA	S	UA	UA	S	UA	UA	UA	UA
LEFT BANK FACE (structure)	UA	UA	S	UA	UA	S	UA	UA	UA	UA
RIGHT BANK FACE (structure)	UA	UA	UA	UA	UA	UA	UA	UA	UA	UA
RIGHT BANK-TOP (structure within 5m)	UA	UA	UA	UA	UA	UA	UA	UA	UA	UA
LAND USE WITHIN 5m OF BANK TOP (R)	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G

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

NONE (tick as appropriate)	FLA	GENERA	S	✓	✓	✓						
Liverwort/mosses/lichens												
Emergent broad-leaved herbs												
Emergent reeds/straw/reeds	PHILA											
Flowering-leaved (rooted)												
Free-floating												
Ambulious												
Submerged broad-leaved												
Submerged fine-leaved-leaved												
Filamentous algae												

The end 'catchall' column for types not occurring in spot checks as well as overall assessment over 500m (use E or V) †

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

IF LAND USE WITHIN 50m OF BANKTOP (Use E (≥ 33% banktop) or V (present))

	L	R		L	R
Broadleaved woodland (BL)			Wetland (eg bog, marsh, fen) (W)		
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 (≥ 33% banktop) or V (present))

Natural/unmodified	L	R	Artificial/unmodified	L	R
Vertical/undercut			Reinforced		
Vertical + toe			Reinforced - whole bank		
Slope (> 45°)			Reinforced - top only		
Gravel			Reinforced - toe only		
Composite			Artificial top-edge		
			Poached		
			Embanked		
			Set-back embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per bank)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present E	Present V
None			Shading of channel			
Isolated/unshaded			Overhanging boughs			
Regularly spaced, single			Exposed bankside roots			
Occasional clumps			Underwater tree roots			
Scal-coniferous			Fallen trees			
Coniferous			Course woody debris			

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

Waterfalls - free-fall	None	Present E	None	Present E	Present V
Cascades - close			Marginal deadwater - silt		
Step-pool sequences			Exposed bankrock		
Rapids - submergent			Exposed boulders		
Little pool/sequence			Unvegetated mid-channel bars		
Runs - disturbed, rippled			Vegetated mid-channel bars		
Wells - spawning			Mature islands		
Sides - smooth, no silt			Unvegetated side bars		
			Vegetated side bars		

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	19	RIGHT BANK	
	Banktop height (m)	0.75		Banktop height (m)
	Embarked height (m)			Embarked height (m)
	Water width (m)	18		Water depth (m)
	Water depth (m)	0.5		

If unstable lower than banktop break in slope, indicate height (m) with (m)

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

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

M ARTIFICIAL FEATURES (Use 1-11 indicate total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____
 Footbridges = _____ Roadbridges = _____
 Outfalls = _____ Fords = _____
 Other = _____

Is water level controlled by weir/dam downstream? No Part of site Mouth/whole of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

ending moving Other? State _____
 wind-cutting enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	Waterfalls > 5m high	FLOODPLAIN (50m corridor)	Bog	Other (state)
	Brick/side channels	Artificial open water	Curt	
	Debris dams	Natural open water	Marsh	
	Leafy debris	Water shadow	Flank	
		Fan		

P CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE RARENESS PLANT SPECIES (Use 1-11 indicate total number, tick 'none' where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State _____

R BRIEF DESCRIPTION (Use prompt and key words as appropriate) THE SENTENCE(S)

Descriptive sentence: _____
 Plants of note: _____
 Major conservation features: _____
 Major impacts: _____
 Incidental observations (animals etc): _____

S CHANNEL BANKS (tick one box)

None Present Extensive Other (describe bank) State _____

T DISEASED ALDERS (tick one box)

None Present Extensive Other (describe bank) State _____

SEND COMPLETED FORM TO HUGH DANSON, IFE, RIVER LABORATORY, EAST STOKK, WAVERHAM, BISH 43B

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

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: **3238 2A**
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **SE 254592** River: **NIDD**
 Date: **7.17.1995** Time: **09:15** Supervisor name: **TC MAF WS NE PD**
 Adverse conditions affecting survey? No Yes If yes, state **50% bc 10-1**

Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) **with 10m grid**
 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/box

D. NUMBER OF RIFLES, POOLS AND POINT BARS: (Use 1-11, then indicate total number)

Rifles **3** Unvegetated point bars **1**
 Pools **1** Vegetated point bars **1**
 (If none, see survey notes)

National Rivers Authority

DATES: record named initials higher checks

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E. PHYSICAL ATTRIBUTES: (to be assessed across channel within a 5m wide zone) (if multiple sections, feature (1))

Spot check 1 is at: upstream end of site mid section (tick one)

LEFT BANK	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel substrate (fine)	GP	FP	CP	OP	GP	FP	CP	OP	GP	FP
Flow type (one)	NP	SU	BW	UN	SU	UN	SU	UN	SU	UN
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	VB	VB	FO	RO	NO	NO	RO	RO
RIGHT BANK	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from PL, CL, MN, SC, L2, PL, CP, 10, 11, 12

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

G. CHANNEL VEGETATION TYPES: (tick in relevant boxes with eye entry; use R (R 33%) area if present)

NONE (tick)	Plant green (tick one)									
Emergent broad-leaved herbs										
Emergent reedy leafed herbs										
Floating-leaved (rooted)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Filamentous algae										

Use end 'each all' return for types not occurring in spot checks as well as overall assessment over 500m (use E or R)

PLANTS - Use tick boxes of canopy or plants to vegetation + species if possible of note post a photograph reference

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP: (Use E (E 33% banktop) or V if present)

Brookside/wooded (BL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantations (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/semi-improved grass (IG)		
Straw (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I. BANK PROFILES: (Use E (E 33% banktop) or V if present)

Natural/unmodified			Artificial/unmodified		
Vertical/undrained			Reinforced - whole bank		
Vertical + toe			Reinforced - top only		
Slope (>45°)			Reinforced - toe only		
Gentle			Artificial two-stage		
Composite			Freebed		
Use site open to show profile if distance from above, also sketch profile below			Embankment		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES:

TREES (Tick one box per feature)	None	Left	Right	Notes	None	Present	Notes
Isolated/stattered							
Regularly spaced, single							
Occasional clumps							
Scal-contiguous							
Continuous							
ASSOCIATED FEATURES (Tick one box per feature)	None	Present	Notes				
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)

Waterfall(s) - free fall			Marginal deadwater - slack		
Cascade(s) - chute			Exposed bedrock		
Step/pool sequence			Exposed boulders		
Rapid(s) - white-water			Unvegetated mid-channel bars		
Riffle-pool sequence			Vegetated mid-channel bars		
Run(s) - disturbed, rippled			Natural island(s)		
Boil(s) - upwellings			Unvegetated side bars		
Glide(s) - smooth, no eddies			Vegetated side bars		

Have you completed your request for this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	42.0	RIGHT BANK
Banktop height (m)	2.5	Water width (m)	29.0
Banktop height (m)	2.5	Banktop height (m)	2.5
Embankment height (m)	0.1	Water depth (m)	0.1
Embankment height (m)	0.1	Embankment height (m)	0.1

If bankline 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 1-11, then indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Outfalls = Fords =
 Footbridges = Other = Part of site Part of site Part of site

N. EVIDENCE OF RECENT MANAGEMENT: (Tick appropriate box)

drudging mowing Other ? State
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST: (Tick appropriate boxes)

CHANNEL	Watersfalls > 5m high	FLOODPLAIN (50m corridor)	Artificial open water	Bog	Other (state)
Bankside/ridge channels		Natural open water		Curt	
Debris dams		Water meadow		Marsh	
Large debris		Fan		Flank	

P. CHOKED CHANNEL: (Tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES: (Use 1-11, then indicate total number, tick 'none' where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State

R. BRIEF DESCRIPTION: (Use prompts and key words of appropriate)

Descriptive sentence: **Tree-lined channel (sinuous) GP substrate; + CO**
 Plants of note (see 1-11): **High banks - scrubby SARTW.**
 Major conservation features: **Open fields on both banks.**
 Major impacts:
 Incidental observations (animals etc): **Dippers.**

IFE 2 ticks - eddies by left bank riffle

S. DISEASED ALDERS: (Tick one box)

None Present Extensive Other diseased trees? State

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WARRIHAN, B110 6BB
 Envelopes supplied! Post completed files for processing. Labels supplied on site

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

BACKGROUND MAP-BASED INFORMATION

Altitude(m) _____ Slope (m/km) _____ Flow category (1-10) _____

Solid geology code _____ Drift geology code _____ Platform category _____

Distance from source(km) _____ Significant tributary _____ Navigation _____

FIELD SURVEY DETAILS

Reference survey site number: 7279

Mid-section grid reference of network site (if different from designated location): _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SE 726 SW River: W. Fork

Date: 11/1/95 Time: 11:15 Surveyor name: LEACH/KARIVA

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)

PREDOMINANT VALLEY FORM (tick one box only)

shallow vee terraced valley floor

deep vee symmetrical floodplain

gorge asymmetrical floodplain

concave/bowl NOTED / EXTRA DIAGRAM

NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-11, then indicate total number)

Riffles Pools Unvegetated point bars Vegetated point bars

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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

PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (mark location of riffle)

Mat. = Material	1	2	3	4	5	6	7	8	9	10	OTHER
LEFT BANK											
Mat. = <u>CL, CO, CS, SL, PL, CL, CC, SP, SF, GL, BR, BR, SW</u>	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s) <input checked="" type="checkbox"/> <u>NO, JS, JF, PC, M, EN</u>	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank feature(s) <input checked="" type="checkbox"/> <u>NR, MO, SC, CP, SP, ST, ST, ST</u>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHANNEL											
Channel substrate <input checked="" type="checkbox"/> <u>NR, MO, SC, CP, SP, ST, ST, ST</u>	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS
Flow type <input checked="" type="checkbox"/> <u>FF, CH, SW, UV, CP, SP, ST, ST, ST</u>	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
Channel modification(s) <input checked="" type="checkbox"/> <u>NR, MO, SC, CP, SP, ST, ST, ST</u>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Channel feature(s) <input checked="" type="checkbox"/> <u>NR, MO, SC, CP, SP, ST, ST, ST</u>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RIGHT BANK											
Mat. = <u>CL, CO, CS, SL, PL, CL, CC, SP, SF, GL, BR, BR, SW</u>	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s) <input checked="" type="checkbox"/> <u>NO, JS, JF, PC, M, EN</u>	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank feature(s) <input checked="" type="checkbox"/> <u>NR, MO, SC, CP, SP, ST, ST, ST</u>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Land use: choose one from ML, CL, WC, IC, RP, WL, CP, R, TL, SU

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

CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry; use E (≥ 33% area) or F (greening))

NONE (tick as appropriate) PLANT LETTERS S

Upriver/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 'tick-off' column for types not occurring in spot checks as well as overall assessment over 200m (use E or F)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE NO. 7279 LAND USE WITHIN 50m OF BANKTOP (Use E (≥ 33% banklength) or F (greening))

	L	R		L	R
Broadleaved wooded (BL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/improved grass (IG)	E	E
Scrub (SC)			Tilled land (TL) <u>ACTUALLY, SET-ASIDE</u>	E	E
Rough pasture (RP)			Suburban/urban development (SU)		

BANK PROFILES (Use E (≥ 33% banklength) or F (greening))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut			Reinforced		
Vertical + toe			Reinforced - whole bank		
Slope (> 45°)			Reinforced - top only		
Grates			Reinforced - toe only		
Composite			Artificial two-stage		
			Paraded		
			Embanked		
			Set-back embankments		

EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	None	LA	Right	ASSOCIATED FEATURES	None	Present	Dist
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E 2-33%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bankside roots	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Course woody debris	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EXTENT OF CHANNEL FEATURES (Tick one box per feature)

Waterfall(s) - freefall	None	Present	Dist	Marginal deadwater - silt	None	Present	Dist
Cascade(s) - chute	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Step/pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rapid(s) - waterfall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flow(s) - laminar, rippled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marsh islands	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boil(s) - swirling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Silt(s) - smooth, no eddies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>0.75</u>	RIGHT BANK
Banktop height (m)	<u>0.1</u>	Water width (m)	<u>0.75</u> Banktop height (m) <u>0.2</u>
Embanked height (m)		Water depth (m)	<u>0.65</u> Embankment height (m) <u>---</u>

If unstable 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) _____

ARTIFICIAL FEATURES (Use 1-11, then indicate total number, and 'name' where appropriate)

None Number of Culverts = 0 Weirs = 0 Outfalls = 0 Piers = 0

Number of Footbridges = 0 Roadbridges = 0 Other = FROM TRUCK BRIDGE

In water level controlled by weirs/dams/downstream? No Part of site Mouth of site

EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dragging mowing Other? Slope

widening enhancement

FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL

Waterfalls > 5m high Artificial open water Bog Other (state) _____

Bankside channels Natural open water Carr

Debris dams Water meadow Marsh

Leafy debris Foa Flush

CHOKED CHANNEL (Tick one box)

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

NOTABLE NUISANCE PLANT SPECIES (Use 1-11, then indicate total number, and 'name' where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State

BRIEF DESCRIPTION (Use prompt and key words as appropriate - THE SENTENCE(S))

Descriptive sentence: THE FLOW HAS (SD 0-2) ALL OF A STRAIGHT "TRENCH" WITH SET-ASIDE LAND ON EITHER SIDE (UNVEGETATED WITH GRASS). THE SLOPE HAS IS A VERY TERTIARY WETLAND CHANNEL INCLUDING THE OLD

Major conservation features: FAST-FLOW

Major impacts: _____

Incidental observations (animals etc): _____

SEE CHEMICAL SAMPLES TAKEN ENTERED

DISEASED ALDERS (Tick one box)

None Present Extensive Other (describe tree) State

SEND COMPLETED FORM TO HUGH DAWSON, IFR, RIVER LABORATORY, EAST STOK, WAREHAM, BH20 6BB

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope(m/m) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source(m) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS

Reference network site number: **3239** *QA*
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: **SE 336549** River: **UN-NAMED TRIB OF NIDS**
 Date: **7.7.1995** Time: **(11:30)** Surveyor name: **79, 74, 74, 16, 2, 76, 49**
 Adverse conditions affecting survey? No Yes If yes, state:
 Bed of river visible? No partially entirely (tick one box)
 Photographs (general characters) No Yes (tick one box) with site name!
 Site surveyed from: left bank right bank channel (tick as appropriate)

C. FREQUENT VALLEY FORM (tick one box only)

shallow vee terraced valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 concave/bowl + NIDS/mh stream

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10, then indicate total number)

Riffles: _____ Unvegetated point bars: _____
 Pools: _____ Vegetated point bars: _____

National Rivers Authority

Notes: head ground middle tail end

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (Mm. 1 = 1m, 2 = 2m, etc.) factor (1-4)

Spot check 1 is an upstream end of site decision (tick one)

Bank material (m)	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features(s)	SC	NO	NO	SC	SE	NO	NO	NO	NO
Channel substrate (m)	FP	FP	FP	FP	FP	FP	FP	FP	FP
Flow type (m)	RP	SM	NP	SM	EP	NP	SM	RP	SM
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features(s)	RO	NO	NO	RO	NO	NO	NO	NO	NO
RIGHT BANK features	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank material (m)	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from NL, GP, ML, SC, 12, WL, OW, HL, TL, SP

LAND USE WITHIN 5m OF BANKTOP (S)	TL	TL	TL	TL	TL	TL	TL	TL	TL
LEFT BANK TOP structure within 1m	B	B	B	B	B	B	B	B	B
LEFT BANK FACE structure	S	S	S	S	S	S	S	S	S
RIGHT BANK FACE structure	S	S	S	S	S	S	S	S	S
RIGHT BANK TOP structure within 1m	C	C	C	C	C	C	C	C	C
LAND USE WITHIN 5m OF BANK TOP (S)	TL	TL	TL	TL	TL	TL	TL	TL	TL

G. CHANNEL VEGETATION TYPES (tick in relevant boxes with one (100%), two (25-100%) or 2 (overcast))

NONE (tick)									
Layered overhanging									
Emergent reed									
Emergent sedge									
Emergent grass									
Emergent herb									
Emergent sedge									
Emergent grass									
Emergent herb									
Emergent sedge									
Emergent grass									
Emergent herb									
Emergent sedge									
Emergent grass									
Emergent herb									
Emergent sedge									
Emergent grass									
Emergent herb									

Use and 'tick' all column for types not occurring in spot checks as well as overall assessment over 500m (use E or 1)

Notes: Use and 'tick' all column for types not occurring in spot checks as well as overall assessment over 500m (use E or 1)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use 1-10, then indicate total number)

Broadleaf/woodland (BL)	L	R	L	R
Coniferous plantation (CP)				
Meadow/scrub (MS)			E	E
Scrub (SC)	V	V	E	E
Rough pasture (RP)				

I. BANK PROFILES (Use 1-10, then indicate total number)

Natural/unmodified	L	R	L	R
Vertical/cutbank	T	Z	E	F
Vertical + toe				
Steep (> 45°)				
Grass				
Composite				

J. EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per tree)	None		Present		ASSOCIATED FEATURES (Tick one box per feature)	None		Present	
	L	R	L	R		L	R	L	R
None					Shading of channel				
Isolated/scattered					Overhanging banks				
Regularly spaced, slight					Exposed bankside roots				
Occasional clumps					Underwater tree roots				
Semi-coalescent					Folks trees				
Coalescent					Coarse woody debris				

K. EXTENT OF CHANNEL FEATURES

None	Present		None	Present	
	L	R		L	R
Whirl(s) - freefall			Marginal dead-water - slight		
Concave(s) - clear			Exposed bankcut		
Step/pool sequences			Exposed boulder		
Rapid(s) - whitewater			Unvegetated mid-channel bars		
Riffle(s) sequences			Vegetated mid-channel bars		
Flow(s) - disturbed, rippled			Marsh island(s)		
Bank(s) - overhanging			Unvegetated side bar		
Glide(s) - smooth, no eddies			Vegetated side bar		

Have you completed your copies from this week? (send to RND for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	1.25	RIGHT BANK	
Banktop height (m)	Water width (m)	1.0	Banktop height (m)	0.6
Embankment height (m)	Water depth (m)	0.1	Embankment height (m)	

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

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

Location of measurement is: riffle run or glide other (tick one box) Slope (1/100)

M. ARTIFICIAL FEATURES (Use 1-10, then indicate total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____
 Footbridges = _____ Roadbridges = _____ Outfalls = _____ Fords = _____
 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 moving Other? State: _____
 weed-cutting enhancement

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

CHANNEL: Waterfalls > 5m high Artificial open water Bog Other (state) _____
 Braided/side channels Natural open water Carr
 Debris dams Water meadow Marsh
 Loose debris Fen Flush

P. CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE SUBSTRATE PLANT SPECIES (Use 1-10, then indicate total number)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: _____

R. BRIEF DESCRIPTION (Use prompt and 10 words at appropriate)

Descriptive sentence: **Agricultural ditch - modified top 1/2**
 Plants of note (see list): **natural meandering bottom 1/2**
 Major conservation features: **Heath RB top 1/2**
 Major impacts: **RS + straight channel - top 1/2 (poaching bottom)**
 Incidental observations (animals etc): **Extensive filamentous algae.**

S. DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased tree? State: _____

SEND COMPLETED FORM TO: HUGH DANSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB
 Envelopes supplied! Post completed files for posting labels supplied separately

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope(m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source(m) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS

Reference network site number: 3258 QA?
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SE 317419 River: STURDY BECK
 Date: 7.17.1995 Time: 14:00 78.74 PM 14 AK 70m
 Surveyor name (Last, first, middle initials) GC MAF WD UB PND
 Adverse conditions affecting survey? No Yes If yes, state _____

Bed of river visible? No partially entirely (tick one box)
 Photograph: general character? No Yes (tick one box) with 10m scale
 Site surveyed from: left bank right bank channel (tick as appropriate)

C. PREDOMINANT VALLEY FORMS (tick one box only)

shallow vee terraced valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 concave/bowl + NILES/mk 70m

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-11, then indicate total number)

Riffles 15 Unvegetated point bars 3
 Pools 19 Vegetated point bars 1

Natural Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

PHYSICAL ATTRIBUTES (to be assessed across channel within 2m wide zone) (Tick one box for each of 10 spots)

Spot check 1 to 10 (specify position and direction of flow)

Spot	1	2	3	4	5	6	7	8	9	10
LEFT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	CB	SC	SC	SC	SC	NO	NO
CHANNEL NOTE	USA, 30m bank, 100m channel, 100m of pool									
Channel substrate (fine)	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP
Flow type (four)	SA	RP	UN	NP	SM	UN	SM	RP	UN	SM
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

E. BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide section)

Land use choose one from EL, CP, BU, SC, SA, WE, GV, NO, IL, SP

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK-TOP (structure within 1m)	R	L	R	L	R	L	R	L	R	L	R
LEFT BANK FACE (structure)	S	U	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U	U
RIGHT BANK-TOP (structure within 1m)	S	C	S	S	C	S	S	C	S	S	U

LAND USE WITHIN 5m OF BANK TOP (R)

R	L	R	L	R	L	R	L	R	L	R	L
SC	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry; use E (to 33% cover) or / (greater))

None (tick)	Plant cover (tick one)														
	Emergent broad-leaved herbs														
	Emergent narrow-leaved herbs														
	Emergent sedge														
	Emergent grass														
	Free-floating														
	Amphibious														
	Submerged - broad-leaved														
	Submerged fine-leaved														
	Filamentous algae														

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

PLANTS - Use the 4-digit codes to indicate presence of plants in the survey area + species of plants if plants present

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 3 of 4

LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or / if present)

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

BANK PROFILES (Use E (to 11% banklength) or / if present)

	L	R		L	R
Natural/modified			Reinforced		
Vertical/oblique	E	E	Reinforced - whole bank		
Vertical + toe			Reinforced - top only		
Step (> 45°)	E	E	Reinforced - toe only		
Graze			Artificial two-stage		
Composite			Fringed		
			Embanked		
			Setback embankment		

EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per bank)	Left	Right	WYES	FRINGS	None	Present E	NO TREES
None							
Isolated/scattered							
Regularly spaced, single							
Occasional clumps							
Scrub-continuous							
Continuous							
Associated features							
Banking of channel							
Overhanging boughs							
Exposed bankside roots							
Underwater tree roots							
Fallen trees							
Carried woody debris							

EXTENT OF CHANNEL FEATURES (Tick one box per feature)

	None	Present E	None	Present E	None	Present E	NO TREES
Whirl(ed) - freefall			Marginal deadwater - slack				
Causes(s) - dense			Exposed bedrock				
Step-pool sequence			Exposed boulders				
Rapid(s) - white-water			Unvegetated mid-channel bars				
Riffle-pool sequence			Vegetated mid-channel bars				
Rove(s) - disturbed, rippled			Mature islands				
Bait(s) - spillways			Unvegetated side bars				
Glide(s) - smooth, no eddies			Vegetated side bars				

Have you completed your entries for this week? (send to PND for receipt)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	2.0	RIGHT BANK
Banktop height (m)	0.5	Water width (m)	2.0
Embanked height (m)		Water depth (m)	0.5
		Banktop height (m)	
		Embanked height (m)	

If banktop 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)

ARTIFICIAL FEATURES (Use 1-11 to indicate total number, tick 'none' if none present)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____ Fords = _____
 Footbridges = _____ Part of site Part of site Part of site

EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

digging mowing Other? State _____
 weed-cutting enhancement

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

CHANNEL
 Waterfalls > 1m high
 Braided/side channels
 Debris dams
 Lumpy debris

FLOODPLAIN (50m corridor)
 Artificial open water
 Natural open water
 Water meadow
 Fen

Bog
 Carr
 Marsh
 Fluck

CHOKED CHANNEL (Tick one box)
 Is 33% or more of the channel choked with vegetation? NO YES

NOTABLE NUISANCE PLANT SPECIES (Use 1-11 to indicate total number, tick 'none' if none present)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State Nightshade

BRIEF DESCRIPTION (Use prompts and key words as appropriate)

Descriptive sentence: Small meandering stream, AP/CO substrate in
 Plants of note (to 11): mixed woodland
 Major conservation features: Extensive debris dams
 Major impacts: Trash
 Incidental observations (animals etc):

IF EXCESSIVE ALDERS (Tick one box)
 None Present Extensive Other diseased trees? State _____

SEND COMPLETED FORM TO HUGH DANSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Envelopes supplied! Post completed files for printing. Labels supplied on site.

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Spot check 1 is at: upstream and downstream and at site (tick one box)

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	ER	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL	GP	CO	CO	GP	GP	GP	CO	CO	GP	GP
Channel substrate	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Flow type	UW	RP	RP	RP	CF	SM	CF	SM	CF	NO
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	ER	EA	EA	EA	EA	EA	EA	EA	EA	EA
Mat. = Material	ER	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use choose one from BL, CL, ML, SL, PL, OL, PL, OL, PL, OL, PL, OL, PL, OL

LAND USE WITHIN 5m OF BANKTOP (L)	BL	CL	SL	PL	OL	PL	OL	PL	OL	PL
LEFT BANK-TOP (structure within 1m) %BISC	S	S	C	C	C	S	C	C	C	C
LEFT BANK FACE (structure) %BISC	U	S	C	S	C	U	S	B	S	B
RIGHT BANK-TOP (structure within 1m) %BISC	S	C	S	S	S	U	U	S	C	C
LAND USE WITHIN 5m OF BANK TOP (R)	BL	CL	SL	PL	OL	PL	OL	PL	OL	PL

CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry; use E (to 33% area) or F (percent))

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

Use end 'batch-all' returns for types not occurring in spot checks as well as overall assessment over 500m (see E or F)

NRA RIVER HABITAT SURVEY 1995: 500m SWEET-UP Page 3 of 4

LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or F (percent))

	L	R		L	R
Broadleaved woodland (BL)					
Coniferous plantation (CP)					
Moorland/heath (MH)					
Scrub (SC)					
Rough pasture (RP)					
Natural/unmodified					
Vertical/undercut					
Vertical + toe					
Step (> 45°)					
Gentle					
Composite					

EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	None	Present	None	Present
Isolated/scattered				
Regularly spaced, single				
Occasional clumps				
Semi-continuous				
Continuous				
ASSOCIATED FEATURES	None	Present	None	Present
Shading of channel				
Overhanging branches				
Exposed bankside roots				
Underwater tree roots				
Fallen trees				
Coarse woody debris				

EXTENT OF CHANNEL FEATURES (Tick one box per feature)

Waterfalls (> 5m high)	None	Present	None	Present
Cascades (> 5m)				
Step-pool sequences				
Rapids (> 1m)				
Riffle-pool sequences				
Runs (> 1m)				
Beds (> 1m)				
Gullies (> 1m)				
Marginal deadwater - silted				
Exposed bedrock				
Exposed boulders				
Unvegetated mid-channel bars				
Vegetated mid-channel bars				
Minor islands				
Unvegetated side bars				
Vegetated side bars				

195

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	4.50	RIGHT BANK	
Banktop height (m)	Water width (m)	2.30	Banktop height (m)	1.80
Embankment height (m)	Water depth (m)	0.12	Embankment height (m)	

If bankline lower than banktop level, 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)

ARTIFICIAL FEATURES (Use E (to 33% banklength) or F (percent))

None Number of Culverts = 1 Weirs = 0 Outfalls = 11 Ponds = 0

Is water level controlled by weirs/dams downstream? No Part of site Most/whole of site

EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging moving Other? State

weed-cutting enhancement

FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL: Waterfalls > 5m high Artificial open water Bog Other (state)

Eroded/side channels Natural open water Carr

Debris dams Water meadow Marsh

Leafy debris Fen Flush

CHOKED CHANNEL (Tick one box)

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

NOTABLE NUISANCE PLANT SPECIES (Use E or F)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State

BRIEF DESCRIPTION (Use prompt and key words as appropriate)

Descriptive sentence: Windy stream, high left bank, top section over heavily managed & banked probably all unconsolidated ground.

Plants of note: very little channel vegetation, very many small, slightly milky water

Major conservation features: woodland

Major impacts: steep high left bank & hillside

Incidental observations (animals etc):

DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, B206 6RB

NRA RIVER HABITAT SURVEY 1995: 75M SPOT CHECKS Page 3 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/Lm) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: **3294 QA**
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: **SE 105265** River: **RED BECK**
 Date: **5/1/1995** Time: **11:20** Survey name (use grid): **75M 75M PH 10AK 75M**
 Adverse conditions affecting survey? No Yes If yes, state:
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) Site No. **10AK 75M**
 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 + notes/other dimension

D NUMBER OF RIPPLES, POOLS AND POINT BARS (Use 1-10, then indicate total number)

Ripples **17** Unvegetated point bars
 Pools **4** Vegetated point bars **2**

IFE - m. 1 - 500m (use 1-3)

National Rivers Authority

DATES: head ground width below

NRA RIVER HABITAT SURVEY 1995: 75M SPOT CHECKS Page 2 of 4

Riffles Pools Unvegetated point bars Vegetated point bars

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 10m wide zone) (4) (5) (6) (7) (8) (9) (10)

Spot check 1 is an upstream end of site of site (tick one)

LEFT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank material (m)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel substrate (m)	CO	CO	GP	EO	CO	GP	GP	GP	EO
Flow type (m)	BN	BN	UN	RP	UN	UN	UN	UN	UN
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank material (m)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from BL, CL, PL, SL, TL, UL, VL, WL, XL, YL, ZL

LAND USE WITHIN 2m OF BANKTOP (L)	BL	BL	BL	BL	BL	BL	BL	BL	BL
LEFT BANK-TOP (structure within 2m)	C	S	S	C	S	S	S	S	S
LEFT BANK FACE (structure)	C	S	S	S	S	S	S	S	S
RIGHT BANK FACE (structure)	C	S	S	B	S	S	C	S	B
RIGHT BANK-TOP (structure within 2m)	S	S	U	U	U	U	U	U	S
LAND USE WITHIN 5m OF BANK TOP (R)	RP	IG	IG	S	IG	IG	IG	IG	SL

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one, none, or 2)

NONE (tick)	None	None	None	None	None	None	None	None	None
Emergent macrophytes									
Emergent macrophytes (grasses)									
Free-floating									
Amphibious									
Submerged - broad-leaved									
Submerged fine-leaved									
Flamboyant algae									

Use and 'catch-all' column for types not occurring in spot checks as well as overall assessment over 200m (use F or V)

NOTES - Use tick to indicate presence of plants, algae, vegetation & species if possible, or tick just a photograph reference only

NRA RIVER HABITAT SURVEY 1995: 100M SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use 1-10, then indicate total number)

Broadleaf/mixed woodland (BL)	L	R	Wetland (eg bog, marsh, fen) (W)	L	R
Coniferous plantations (CP)	E		Open water (O)		
Moorland/heath (M)			Improved/maintained grass (IG)		E
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use 1-10, then indicate total number)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undisturbed	L	E	Reinforced		
Vertical + toe	L	E	Reinforced - whole bank		V
Step (> 45°)	L	E	Reinforced - step only		
Grills	L	E	Reinforced - toe only		
Composites			Artificial toe-wings		
Use 100m sweep profile			Preload		
Use 100m sweep profile			Embankment		
Use 100m sweep profile			Set-back embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per tree)	None	Present	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None	<input type="checkbox"/>	<input type="checkbox"/>	Sluffing of channel	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/heathland	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Small-clusters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Vertical(s) - free fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marginal dead-water - slack	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Canals(s) - close	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Step/pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rapid(s) - sub-water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Riffle/pool sequence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flow(s) - disturbed, rippled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Strom island(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bank(s) - spilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Grills(s) - smooth, no eddies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Have you completed your expenses from this week? (send to PWD for signature)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	4.0	RIGHT BANK
Banktop height (m)	0.75	Water width (m)	3.5
Embankment height (m)		Water depth (m)	0.1
Embankment height (m)		Embankment height (m)	

If tree line lower than banktop break in slope, indicate height (m) width (m)

Bed material at site: consolidated (temporarily) unconsolidated (poorly) unknown

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

M ARTIFICIAL FEATURES (tick appropriate boxes)

None Number of Culverts = Weirs = Outfalls = Fords =
 Roadbridges = Other =
 Is water level controlled by weirs/dam/structure? No Part of site Most of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate boxes)

dragging mowing Other? State:
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	Waterfalls > 5m high <input type="checkbox"/>	FLOODPLAIN (50m corridor)	Artificial open water <input type="checkbox"/>	Bog <input type="checkbox"/>	Other (state)
Recessed/hidden channels	<input type="checkbox"/>	Natural open water <input type="checkbox"/>	Wet meadow <input type="checkbox"/>	Marsh <input type="checkbox"/>	
Leafy debris	<input checked="" type="checkbox"/>	Fen <input type="checkbox"/>	Flask <input type="checkbox"/>		

P CHOKED CHANNEL (tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State:

R BRIEF DESCRIPTION (Use 1-10, then indicate total number)

Descriptive sentence: **Fast flowing stream: BE + pools at top end**
 Plants of note (see IFE): **long riffles, GP, CO substrate, remaining**
 Major conservation features: **BL woodland**
 Major impacts: **Poor quality water / Murky!! (old stn upstream)**
 Incidental observations (animals etc): **Jay > RS/RI banks at end of survey reach.**

S DISEASED ALDERS (tick one box)

None Present Extensive Other diseased trees? State:

FORWARDED TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STAKE, WAREHAM, BH20 6BB
 copies supplied! Best completed file for planning - check supplied steps

NRA RIVER HABITAT SURVEY 1995: Page 3 of 4

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: 3295
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River: Alverthorpe Beck
 Date 9.5.1995 Time: 9.35 Surveyor name HD
 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. NO. OF RIFFLES, POOLS AND POINT BARS (Use 1-11 then indicate total number)

Riffles 11 Unvegetated point bars 1
 Pools 0 Vegetated point bars

National Rivers Authority

14/02/95

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Spot check 1 is at: upstream end downstream end (tick one box)

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone)

Substrate = Material * = one entry only

	1	2	3	4	5	6	7	8	9	10
LEFT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	SB	NO	SB	NO	NO	NO	NO	NO	NO
CHANNEL	SI	KT	GT	GP	GT	GP	NV	EP	NV	EP
Channel substrate *	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Flow type *	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from BL, CL, HL, SL, PL, CR, GR, TL, SU

LAND USE WITHIN 5m OF BANKTOP (L)	IG	BL	TL	CL	SL	PL	CR	GR	TL	SU
LEFT BANK-TOP (structure within 1m)	R	C	C	C	C	C	C	C	C	C
LEFT BANK FACE (structure)	R	C	C	C	C	C	C	C	C	C
RIGHT BANK FACE (structure)	R	C	C	C	C	C	C	C	C	C
RIGHT BANK-TOP (structure within 1m)	R	C	C	C	C	C	C	C	C	C
LAND USE WITHIN 5m OF BANK TOP (R)	IG	BL	TL	CL	SL	PL	CR	GR	TL	SU

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry: use E (to 33% area) or A (percent))

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

Use end 'catchall' column for types not occurring in spot checks as well as overall assessment over 100m (use E or A)

14/02/95

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE No. 3295

H. LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or A (percent))

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

I. BANK PROFILES (Use E (to 33% banklength) or A (percent))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/handcut			Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial two-stage		
Use this space to draw profile of different from above, after taking predetermined base			Poached		
			Embanked		
			Set-back embankment		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	Left	Right	ASSOCIATED FEATURES	None	Present
None			E ≥ 33%		
Isolated/scattered			Shading of channel		
Regularly spaced, single			Overhanging boughs		
Occasional clumps			Exposed bankside roots		
Scrub-coniferous			Underwater tree roots		
Coniferous			Fallen trees		
			Coarse woody debris		

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

Waterfall(s) - freefall	None	Present	None	Present
Cascade(s) - chute			Marginal deadwater - silt	
Step-pool sequence			Exposed bedrock	
Rapid(s) - whitewater			Exposed boulders	
Riffle-pool sequence			Unvegetated mid-channel bars	
Rune(s) - flumbed, rippled			Vegetated mid-channel bars	
Bank(s) - gravelly			Mature island(s)	
Gravel(s) - smooth, no eddies			Unvegetated side bars	
			Vegetated side bars	

14/02/95

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	6.9	RIGHT BANK	
Banktop height (m)	Water width (m)	3.1	Banktop height (m)	1.5
Embanked height (m)	Water depth (m)	0.73	Embanked height (m)	

If waterline 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 1-11 indicate total number, tick 'none' where appropriate)

None Number of Culverts = 1 Weirs = 1 Roadbridges = 1 Outfalls = 1 Ponds = 0

Is water level controlled by weir/dam downstream? Part of site Merit-hole of site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging moving Other? Silt
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate feature)

CHANNEL	FLOODPLAIN (50m corridor)		
Waterfalls > 5m high	Artificial open water	Bog	Other (state)
Bankside 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 1-11)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Silt

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

Descriptive sentence: steep-sided stream, probably resected in fact, though
 gravel bank some meander.
 Plants of note: no channel vegetation except algae + moss.
 Major conservation features:
 Major impact:
 Incidental observations (animals etc):

S. DISEASED ALBERS (Tick one box)

None Present Extensive Other diseased trout? Silt

SEND COMPLETED FORM TO RICH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, BH20 6BB

14/02/95

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 1 of 4

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: 3295 QA
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SE 295221 River: ALVERTON RIVER BECK
 Date: 3/2/1995 Time: 14:00 Surveyer name: GC
 Adverse conditions affecting survey? No Yes If yes, state: None
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) 50m
 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 + notes/other diagrams

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use: U for unvegetated, V for vegetated):

Riffles: 17 Unvegetated point bars: 0
 Pools: 10 Vegetated point bars: 0

National Rivers Authority

PHOS. heard ground nitrite little
 20/3/95

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles: U Pools: U Unvegetated point bars: 0 Vegetated point bars: 0

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone):

Spot check 1 is at: upstream end of site mid section downstream end

Spot check 1 is at:	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	EA	ER	EA	EA	EA	EA	EA	EA	EA
Bank material (coarse)	NO	NO	RI	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel substrate (fine)	SP	CO	CO	FA	SA	EP	CO	FA	SP	SP
Channel substrate (coarse)	SM	RP	SM	UN	NP	UN	UN	SM	RP	SM
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	TR	NO	NO	RO	NO	RO	NO	NO	NO	NO
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank material (coarse)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from PL, CR, PM, SC, SP, SL, SW, TL, TU

LAND USE WITHIN 5m OF BANKTOP (L)	BL	SL	TL	TL	TL	TL	TL	TL	TL	TL
LEFT BANK-TOP (structure within 1m)	S	C	S	S	S	S	S	S	S	S
LEFT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S
RIGHT BANK FACE (structure)	C	S	S	S	S	C	S	S	S	S
RIGHT BANK-TOP (structure within 1m)	S	U	S	S	S	S	S	S	S	S
LAND USE WITHIN 5m OF BANK TOP (R)	T	T	R	T	T	T	T	T	T	T

G. CHANNEL VEGETATION TYPES (fill in percent based with one entry, use E (in 33% area) or 4 (percent)):

NONE (tick)	Plant species (tick one)									
Emergent broad-leaved herbs										
Emergent reeds/sedges/rushes										
Emergent grasses										
Free-floating										
Amphibious										
Submerged free-leaved										
Submerged fine-leaved										
Filamentous algae										

Use the 'tick-all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or 4)

PLANT S - Use tick in both of columns 1 & 2 if vegetation is present in both left & right bank

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E (in 33% banktop) or 4 (percent))

Deciduous woodland (DL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CF)			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 (in 33% banktop) or 4 (percent))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/steep	2	2	Retained		
Vertical + low	2	2	Retained - whole bank	2	2
Steep (> 45°)	2	2	Retained - top only		
Gentle	2	2	Retained - toe only		
Composite			Artificial toe-steps		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	None	Low	Right	Left	None	Present	None	Present
Isolated/scattered					Shading of channel			
Regularly spaced, single					Overhanging branches			
Occasional clumps					Exposed bankside roots			
Small-continuous					Underwater tree roots			
Continuous					Fallen trees			
					Coarse woody debris			

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

Waterfalls - free fall	None	Present	None	Present	None	Present
Overfalls - above					Marginal shrubs - silt	
Step-pool sequences					Exposed bedrock	
Rapid(s) - submergent					Exposed boulders	
Riffle-pool sequences					Unvegetated mid-channel bars	
Ran(s) - channel, rippled					Vegetated mid-channel bars	
Run(s) - spilling					Native island(s)	
Glide(s) - smooth, no eddies					Vegetated side bars	
					Vegetated side bars	

Have you completed your responses from this week? (Send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	9.0	RIGHT BANK		
Banktop height (m)	2.25	Water width (m)	11.0	Banktop height (m)	2.0
Embedded height (m)		Water depth (m)	0.05	Embedded height (m)	
If bankline lower than banktop break in slope, indicate: height (m)	0.25	width (m)	5.0		

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 0 (in 33% banktop) or 4 (percent))

None Number of Culverts = 1 Weirs = 0 Outfalls = 0 Fords = 0
 Footbridges = 1 Roadbridges = 0 Part of site Other = 0 (tick one box)
 Is water level controlled by weir/dam downstream? No Yes

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dredging mowing Other? None
 weed-killing enhancement

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

CHANNEL	Waterfalls > 5m high	Artificial open water	Bog	Other (state)
Bankside/side channels	Natural open water	Water meadow	Cliff	
Debris dams	Water meadow	Marsh		
Leafy debris	Fen	Flask		

P. CHOKED CHANNEL (tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES (Use 0 (in 33% banktop) or 4 (percent))

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? None

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

Descriptive sentence: Little tree channel - steep tree-lined banks
 Plants of note: (see list)
 Major conservation features: old conc. 2nd river bed - now cutting down!
 Major impacts:
 Unusual observations (animals etc):
 IFE channel can be taken & filtered

S. DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? None

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 4BB

Envelopes supplied! Part completed form for forwarding. Labels supplied & stamped

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 3337
 Mid-section grid reference of network site if different from designated location: _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: _____ River: 200 R6
 Date: 14.5.1995 Time: 10.40 Surveyor name: JD

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 left right

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-11 then indicate total number)

Riffles: 1 Unvegetated point bars: _____
 Pools: _____ Vegetated point bars: _____

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Spot check 1 is at upstream end downstream end of site (tick one box) R 1

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone)

Mat. = Material	1	2	3	4	5	6	7	8	9	10
LEFT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Mat. # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	10	10	10	10	10	10	10	10	10	10
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL	10	10	10	10	10	10	10	10	10	10
Channel substrate # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	10	10	10	10	10	10	10	10	10	10
Flow type # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	10	10	10	10	10	10	10	10	10	10
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Mat. # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	10	10	10	10	10	10	10	10	10	10
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

F BANK OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide measure)

Land use: choose one from PL, CP, TH, SC, AT, NL, CW, AG, TL, TU

LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 2m) # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	1	1	1	1	1	1	1	1	1	1
LEFT BANK FACE (structure) # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	1	1	1	1	1	1	1	1	1	1
RIGHT BANK FACE (structure) # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	1	1	1	1	1	1	1	1	1	1
RIGHT BANK TOP (structure within 2m) # 1-10: CA, EA, FA, GA, HA, IA, JA, KA, LA, MA, NA, OA, PA, QA, RA, SA, TA, UA, VA, WA, XA, YA, ZA	1	1	1	1	1	1	1	1	1	1
LAND USE WITHIN 5m OF BANK TOP (R)	1	1	1	1	1	1	1	1	1	1

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry per E (in 20% area) or if present)

NONE (tick as appropriate)	1	2	3	4	5	6	7	8	9	10
Liverwort-moss-silken										
Emergent broad-leaved herbs										
Emergent reeds/bulrushes										
Flowering-leaved (terrestrial)										
Tree-flowering										
Amphibious										
Submerged broad-leaved										
Submerged fine-linear-leaved										
Filamentous algae										

The end "catch-all" column for types not occurring in spot checks as well as overall assessment over 100m (use E or 1)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (in 30% banklength) or if present)

	L	R		L	R
Freehold/leased woodland (FL)			Woodland (eg bog, marsh, fen) (W)		
Ceafiferous plantation (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/unimproved grass (IG)		
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use E (in 30% banklength) or if present)

Natural/Unmodified	L	R	Artificial/Modified	L	R
Vertical/steep			Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial two-stage		
Use this space to draw profile if different from above, after taking predominant box			Preached		
			Embarked		
			Set-back embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	Left	Right	ASSOCIATED FEATURES	None	Present
None			E & JFS		
Ireland's scattered			Flowing of channel		
Regularly spaced, single			Overhanging boughs		
Occasional clumps			Exposed bankside roots		
Semi-continuous			Underwater tree roots		
Continuous			Fallen trees		
			Coarse woody debris		

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

None	Present	None	Present
Waterfall(s) - free-fall		Marginal bankwater - slack	
Canal(s) - clear		Exposed bedrock	
Drop/pool sequence		Exposed boulders	
Rapid(s) - white-water		Unvegetated mid-channel bars	
Riffle-pool sequence		Vegetated mid-channel bars	
Roofs(s) - slanted, rippled		Station island(s)	
Bells(s) - upwellings		Unvegetated side bars	
Glides(s) - smooth, no eddies		Vegetated side bars	

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	15.75	RIGHT BANK	
Banktop height (m)	2.25		Banktop height (m)	2.25
Banktop height (m)			Banktop height (m)	
Banktop height (m)			Banktop height (m)	
Banktop height (m)			Banktop height (m)	

M ARTIFICIAL FEATURES (Use 1-11 indicate total number, tick "none" where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____
 Footbridges = _____ Raftbridges = _____
 Is water level controlled by weir/dam downstream? No Part of site Mouth hole of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

ending moving Other ? State: _____
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m corridor)
Waterfall > 1m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Braided/wide channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Debris dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>
Leafy debris <input type="checkbox"/>	Fra <input type="checkbox"/>

P CHOKED CHANNEL (Tick one box)

Is 30% or more of the channel choked with vegetation? NO YES

Q NOTABLE SUSPENSE PLANT SPECIES (Use 1-10)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State: _____

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

Descriptive statement: 200m straight section of river, in a rural area, a bank
 Flats of note: riverbank was eroded in recent years, although not
 Major conservation features: bank is of note. Carex acutiformis
 Major impacts: silt - grass, reeds & associated weeds
 Incidental observations (animals etc): silt - grass, reeds & associated weeds
 silt - grass, reeds & associated weeds

S DISEASED ALPERS (Tick one box)

None Present Extensive Other diseased trees? State: _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOLE, WAREHAM, BH20 6BB

NRA RIVER HABITAT SURVEY 1995: **IFA P-4-A** Page 1 of 4

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: 3337
 Mid-section grid reference of network site (if different from designated location):

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SE 045022 River: DEARIE
 Date: 20.6.1995 Time: 11:00 Supervisor name: T.B. 7W PM 14 AK 76W

Adverse conditions affecting survey? No Yes If yes, state: _____

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

Photograph: general character? No Yes (tick one box) *with file name!*
[Estimated - return with record of failures]

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

C PREDOMINANT VALLEY FORM (tick one box only)

<input checked="" type="checkbox"/>	shallow vee	<input type="checkbox"/>	terraced valley floor
<input type="checkbox"/>	deep vee	<input type="checkbox"/>	symmetrical floodplain
<input type="checkbox"/>	gorge	<input type="checkbox"/>	asymmetrical floodplain
<input type="checkbox"/>	concave bowl	<input type="checkbox"/>	+ notes/mth dimension

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

Riffles _____ Unvegetated point bars _____
 Pools _____ Vegetated point bars _____

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	Unvegetated point bars										Vegetated point bars		
	1	2	3	4	5	6	7	8	9	10	11	12	
LEFT BANK	Left bank: [Handwritten notes]												
Bank material (fine)	[Handwritten material codes]												
Bank modification(s)	[Handwritten modification codes]												
Bank feature(s)	[Handwritten feature codes]												
CHANNEL NOTE	[Handwritten channel notes]												
Channel substrate (fine)	[Handwritten substrate codes]												
Flow type (fine)	[Handwritten flow type codes]												
Channel modification(s)	[Handwritten modification codes]												
Channel feature(s)	[Handwritten feature codes]												
RIGHT BANK	Right bank: [Handwritten notes]												
Bank material (fine)	[Handwritten material codes]												
Bank modification(s)	[Handwritten modification codes]												
Bank feature(s)	[Handwritten feature codes]												
F BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide distance)	[Handwritten banktop data]												
LAND USE WITHIN 5m OF BANKTOP (L)	[Handwritten codes]												
LEFT BANK-TOP (structure within 2m)	[Handwritten codes]												
LEFT BANK FACE (structure)	[Handwritten codes]												
RIGHT BANK FACE (structure)	[Handwritten codes]												
RIGHT BANK-TOP (structure within 2m)	[Handwritten codes]												
LAND USE WITHIN 5m OF BANK TOP (R)	[Handwritten codes]												
G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry; use E (20% area) or 2 (percent))	[Handwritten vegetation data]												

Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or 2)
 [Handwritten notes]

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE NO. 3337 **H LAND USE WITHIN 50m OF BANKTOP (Use E (20% banktop) or 2 if present)**

	L	R		L	R
Freeland/woodland (FL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Woodland/heath (HL)			Improved/semi-improved grass (IG)		
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use E (20% banktop) or 2 if present)

	L	R	Artificial/modified	L	R
Natural/unmodified					
Vertical/horizontal			Reconciled		
Vertical + low			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial toe-steps		
Use this space to draw profile if different from above, after talking predominant box			Trashed		
			Embanked		
			Stip-back embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	Left	Right	Notes	Assoc. Features	Present	Notes
None				Shading of channel		
Isolated/scattered				Overhanging boughs		
Regularly spaced, single				Exposed bankside roots		
Occasional clumps				Underwater tree roots		
Semi-continuous				Fallen trees		
Continuous				Coarse woody debris		

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

	None	Present	Notes		None	Present	Notes
Waterfall(s) - freefall				Marginal dead-water - slack			
Cascade(s) - chute				Exposed bedrock			
Step-pool sequence				Exposed boulders			
Rapid(s) - whitewater				Unvegetated mid-channel bars			
Riffle-pool sequence				Vegetated mid-channel bars			
Run(s) - disturbed, rippled				Mature islands			
Bail(s) - spoolings				Unvegetated side bars			
Slide(s) - smooth, no ridges				Vegetated side bars			

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>24.0</u>	RIGHT BANK	
Banktop height (m)	Water width (m)	<u>15.0</u>	Banktop height (m)	<u>4.0</u>
Bankbank height (m)	Water depth (m)	<u>1.6</u>	Bankbank height (m)	

If banktop lower than banktop break in slope, indicate: height (m) 2.0 width (m) 16.5

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

Location of measurement is: riffle run or glide other (tick one box) Slope (H/E only): _____

M ARTIFICIAL FEATURES (Use [H] indicate total number, tick "none" where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____
 Feederbridges = _____ Roadbridges = _____ Other = _____
 Is water level controlled by weirs/dam downstream? No Yes Part of site Mortar hole of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dragging mowing Other? State: _____
 weed-cutting enhancement

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

CHANNEL

Wide falls > 5m high		FLOODPLAIN (50m corridor)	
Eroded/silt channels		Artificial open water	
Debris dams		Natural open water	
Leafy debris		Water meadow	

P CHOKED CHANNEL (Tick one box)

Is 50% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: _____

R BRIEF DESCRIPTION (Give names and key words as appropriate)

Descriptive sentence: 5m wide channel - SWSOB banks - SW flow.
 Photo of notes (see 1-2) NO trees with. Photo GP submerged (is).
 Major conservation features: RS banks.
 Major impacts: _____
 Incidental observations (animals etc): _____

S DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State: _____

SEND COMPLETED FORM TO: HUGH DAWSON, IFA, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Envelopes supplied! Post completed forms for printing - labels supplied.

Have you completed your copies for this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: Page 3 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source(km) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS

Reference network site number: 3328
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: E43000 River: Down
 Date: 11.5.1995 Time: 12.00 Surveyor name: H.C.

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 1-4 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 2m wide zone)

Met. #	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Met. #	BR	BR	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	RI	RI	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	BR	BR	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL										
Channel substrate	SV	SV	SV	SV	SV	SV	SV	SV	SV	SV
Flow type	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK										
Met. #	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA

F. BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 20m wide margin)

Land use: choose one from FL, CL, HL, SL, PL, WL, OW, NO, TL, LU

LAND USE WITHIN 5m OF BANKTOP (L)	FL	CL	HL	SL	PL	WL	OW	NO	TL	LU
LEFT BANK-TOP (structure within 2m)	S	C	C	S	S	C	U	S	C	S
LEFT BANK FACE (structure)	U	S	S	S	S	S	U	S	S	U
RIGHT BANK FACE (structure)	U	S	S	S	S	S	U	S	S	U
RIGHT BANK-TOP (structure within 2m)	U	S	S	S	S	S	U	S	S	U
LAND USE WITHIN 5m OF BANKTOP (R)	U	S	S	S	S	S	U	S	S	U

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry; use E (≥ 25% area) or V (Green))

NONE (tick as appropriate)	LV	AN	NV	LV	NV	NU	NV	NV	NV
Liverworts/mosses/lichens									
Emergent broad-leaved herbs									
Emergent reeds/sedges/straw									
Floating-leaved (free)									
Free-floating									
Amblybion									
Submerged broad-leaved									
Submerged fine-leaved									
Filamentous algae - (p) (tick in presence of)									

Use the 'catch-all' column for types not occurring in spot checks as well as overall assessment over 200m (see E or V)

MISSING DATA.

SITE NO. 3328 NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP. Use E (≥ 25% banklength) or V if present

	L	R		L	R
Broadleaved woodland (BL)	E		Wetland (eg bog, marsh, fen) (WL)		
Coniferous plantations (CP)			Open water (OW)		
Woodland/heath (WH)			Improved/semi-improved grass (IG)		
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I. BANK PROFILES. Use E (≥ 25% banklength) or V if present

	L	R		L	R
Natural/unmodified			Artificial/unmodified		
Vertical/vertical			Recessed		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - toe only		
Gentle			Artificial two-stage		
Composite			Flushed		
Use this space to draw profile of 4.5m from stream, show existing predominant tree			Embanked		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	None	Left	Right	ASSOCIATED FEATURES (Tick one box per feature)	None	Present	E
Near	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bank-side roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scrub-occasional	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

	None	Present	E	None	Present	E
Waterfall(s) - freefall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marginal dead-water - silt	<input type="checkbox"/>	<input type="checkbox"/>
Cascade(s) - stone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Step/pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Rapid(s) - whitewater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Rune(s) - disturbed, rippled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input type="checkbox"/>
Bar(s) - gravelly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>
Grades(s) - smooth, no eddies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	Water width (m)	Banktop height (m)	RIGHT BANK
Banktop height (m)	3.0	3.7	3.5	3.5
Embanked height (m)			2.0	

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

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

Location of measurement in: riffle run or glide other (tick one box) Slope (FE only)

M. ARTIFICIAL FEATURES (Use 1-4 indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Roadbridges = Fords =
 Is water level controlled by weir/dam downstream? No Part of site Mouth/belt of site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging mowing Other? Silt
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 2m high	Artificial open water
Embanked channels	Natural open water
Debris dams	Water meadow
Loose debris	Fen
	Bog
	Clay
	Marsh
	Flurb

P. CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use E or V)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Silt

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

Descriptive statement: Straight river, right bank probably re-riparianised now, silt in embankment
 Plants of note: None in channel vegetation but impossible to see it, no
 Major conservation features: bankside aquatic vegetation for most of its reach.
 Major impacts: Confinement.
 Incidental observations (animals etc):

S. DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? Silt

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STAKE, WAREHAM, BH20 6DB

NRA RIVER HABITAT SURVEY 1995: TRENCH CHECKS Page 2 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/m) 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: **3338**

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

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **SE 543013** River: **DOU**

Date: **2/12/1995** Time: **13:00** Surveyor name: **DR. T. W. PHILIP**

Adverse conditions affecting survey? No Yes If yes, state: **NO**

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

Photographs: general character? No Yes (tick one box) **Site 10m**

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 + river/mh terrace

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1 if then indicate total number)

Riffles: Unvegetated point bars:

Pools: Vegetated point bars:

IFE: **mid - str. low**

National Rivers Authority

PHOS. heard ground visible lateral channels

NRA RIVER HABITAT SURVEY 1995: TRENCH CHECKS Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone) (tick one box)

Spot check 1 is at upstream end of site

Channel feature (m)	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	EA	RR	EA	EA	EA	EA	EA	EA	EA
Bank modifications	NO	NO	RI	NO	NO	NO	NO	NO	NO	NO
Bank features	SC	SC	NO	SC	SC	SC	SC	SC	SC	SC
Channel substrate (fine)	NV	NV	NV	NV	NV	NV	NV	NV	NV	NV
Flow type (m/s)	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Channel modifications	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use classes from PL, CF, SH, SC, ST, VL, CR, BG, RL, RU

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK-TOP (structure within 2m)	B	B	B	B	B	B	B	B	B	B
LEFT BANK FACE (structure)	S	S	U	S	S	S	S	S	S	S
RIGHT BANK FACE (structure)	S	S	U	S	S	S	S	S	S	S
RIGHT BANK-TOP (structure within 2m)	U	U	U	U	U	U	U	U	U	U
LAND USE WITHIN 5m OF BANKTOP (R)	G	G	G	G	G	G	G	G	G	G

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one code use E (to 2% area) or 0 (present))

NONE (tick)	Plant species (tick one)									
Liverworts/mosses/lichens										
Emergent broad leafed herbs										
Emergent reeds/ sedges/ rushes										
Floating-leaved (perennial)										
Fruiting										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Filamentous algae										

Use one 'total' column for types not occurring in spot checks as well as overall assessment over 500m (use E or 0)

NOTES - Use 1 if there is a bank of trees or a bank of vegetation + signs of possible of both part of a bank or point bar

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

II LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or 0 if present)

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

I BANK PROFILES (Use E (to 33% banklength) or 0 if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undisturbed			Reinforced		
Vertical + toe			Reinforced - wide bank		
Deep (>45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial two-stage		
Use 0% open to flow profile if 0.5m from above, else using predetermined base			Peached		
			Embedded		
			Scrub embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present	None	Present	None	Present
None	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Course woody debris	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
Continuous	<input type="checkbox"/>	<input checked="" type="checkbox"/>							

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

Channel feature	None	Present	Channel feature	None	Present
Waterfall(s) - freefall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marginal dead-water - slack	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Canal(s) - chute	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Step/pool sequence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rapid(s) - whitewater	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kettle-pool sequence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Runs(s) - disturbed, rippled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bank(s) - spillways	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Glides(s) - smooth, no eddies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Have you completed your expenses from this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	36.0	RIGHT BANK	Banktop width (m)	2.5
	Water width (m)	35.0		Banktop height (m)	2.5
	Enhanced height (m)	1.0		Enhanced height (m)	4.0
	Water depth (m)	1.0			

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

Bed material at site is: consolidated (temp) unconsolidated (stone) unknown

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

M ARTIFICIAL FEATURES (Use 1 if indicate total number, tick 'none' where appropriate)

None Number of Culverts = **2** Weirs = **0** Outfalls = **2** Fords = **0**

Footbridges = **0** Roadbridges = **0** Banktop height (m) = **0**

In water level controlled by weir/dam downstream? No Part of site (tick one box) Hole of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dredging moving Other ? State: **None**

weeding enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	Waterfalls > 5m high	<input type="checkbox"/>	FLOODPLAIN (50m corridor)	Artificial open water	<input type="checkbox"/>	Bog	<input type="checkbox"/>	Other (state)	None
	Braided/side channels	<input type="checkbox"/>		Natural open water	<input type="checkbox"/>	Curt	<input type="checkbox"/>		
	Debris dams	<input type="checkbox"/>		Water meadow	<input type="checkbox"/>	Marsh	<input type="checkbox"/>		
	Leafy debris	<input type="checkbox"/>		Fen	<input type="checkbox"/>	Flush	<input type="checkbox"/>		

P CHOKED CHANNEL (tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use 0 or E)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State: **None**

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

Descriptive sentence: **side river with steep banks (mostly SC) SPO flow**

Place of notes: **see 1's**

Major conservation features: **BL woodlands & cliff along L43**

Major impacts: **Navigation at 1's/2's**

Incidental observations (animals etc): **None**

IFE channel length by 1's: **0 filtered**

S DISEASED ALDERS (tick one box)

None Present Extensive Other diseased trees? State: **None**

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Envelopes supplied! Post completed forms for processing - labels supplied

NRA RIVER HABITAT SURVEY 1995

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: 24-C8
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: 532007 734733 River: C. E. R. [R. C.]
 Date 22.5.1995 Time: 10.30 Surveyor name: [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 RUFFLES, POOLS AND POINT BARS (Use [H] then indicate total number)

Ruffles 1/1 Unvegetated point bars 1
 Pools 1 Vegetated point bars 0

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NRA RIVER HABITAT SURVEY 1995: TIDN SPOT CHECKS Page 2 of 4

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	1	2	3	4	5	6	7	8	9	10
Mat. # Material										
Bank modifications										
Bank features										
CHANNEL										
Channel substrate #										
Flow type #										
Channel modifications										
Channel features										
RIGHT BANK										
Mat. # Material										
Bank modifications										
Bank features										

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

Land use: choose one from PL, CP, HL, SC, ST, WL, OW, R, PU

LAND USE WITHIN 5m OF BANKTOP (J)	1	2	3	4	5	6	7	8	9	10
LEFT BANK-TOP (structure within 1m) BRISK										
LEFT BANK FACE (structure) BRISK										
RIGHT BANK FACE (structure) BRISK										
RIGHT BANK-TOP (structure within 1m) BRISK										
LAND USE WITHIN 5m OF BANK TOP (K)										

G CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry: use E (to 33% area) or G (covering))

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

Use the 'other' column for types not occurring in spot checks as well as overall assessment over 500m (use E or G)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

II LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or G if present)

	L	R		L	R
Broadleaved woodlands (BL)			Wetland (eg bog, marsh, fen) (W)		
Crautiferous plantations (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 (to 33% banklength) or G if present)

	L	R	Artificial/modified	L	R
Natural/unmodified			Rationalised		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Scalloped			Reinforced - toe only		
Composite			Artificial two-stage		
			Peached		
			Embanked		
			Set-back embankment		

EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None			E > 33%		
Isolated/scattered			Shading of channel		
Regularly spaced, single			Overhanging boughs		
Occasional clumps			Exposed bankside roots		
Semi-continuous			Underwater tree roots		
Continuous			Fallen trees		
			Coarse woody debris		

EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present		None	Present
Vertical(s) - freefall			Marginal deadwater - silt		
Vertical(s) - chute			Exposed bedrock		
rip/pool sequence			Exposed boulders		
rip(s) - white-water			Unvegetated mid-channel bars		
rip-pool sequence			Vegetated mid-channel bars		
wh(s) - disturbed, rippled			Mature island(s)		
wh(s) - upwelling			Unvegetated side bars		
side(s) - smooth, no eddies			Vegetated side bars		

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

	Banking width (m)	RIGHT BANK
Banking height (m)		Bank top height (m)
Embanked height (m)		Embanked height (m)
Water width (m)		Water depth (m)
Water depth (m)		

If channel lower than bank top 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 [H] indicate total number, tick "none" where appropriate)

None Number of Culverts = Weirs = Outfalls = Fords =
 Footbridges = Roadbridges = Other =

Is water level controlled by weirs/dams downstream? No Part of site Most/whole of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging moving Other ? State
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 5m high	Artificial open water
Braided/side channels	Natural open water
Debris dams	Water meadow
Leafy debris	Fen
	Ang
	Can
	Flank
	Fluck

P CHOKED CHANNEL (Tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use of 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

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, BH20 6BB

NRA RIVER HABITAT SURVEY 1995 1/8 P. 1-A Page 3 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: **3408**
 Mid-section grid reference of network site if different from designated location: **0A**

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **SJ 707733** River: **CROW BROOK**
 Date: **3/2/1995** Time: **09:15** Supervisor name: **TM, TM, PM, LK, AK, 700**
 Adverse conditions affecting survey? No Yes If yes, state: _____
 Bed of river visible? No partially entirely (tick one box)
 Photograph: general character? No Yes (tick one box) Site No. _____
 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 + notes/mtd. diagram
 concave/boat

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10, then indicate total number)

Riffles **3** Unvegetated point bars _____
 Pools **3** Vegetated point bars _____

National Rivers Authority

SITES: head ground middle tail

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles Pools Unvegetated point bars Vegetated point bars

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

Spot check 1 is at upstream end of section	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	SC	SC	SC	SC	SC	SC	SC	SC	SC
Channel substrate (fine)	SI	SA	SA	SA	SA	SA	SA	SA	SA	SA
Flow type (fine)	SI	SA	SA	SA	SA	SA	SA	SA	SA	SA
Channel modifier(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

F BANKS OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide bank)

Land use: choose one from H, C, P, S, L, U, V, W, X, Y, Z, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

LAND USE WITHIN 1m OF BANKTOP (L)

LEFT BANK TOP (structure within 1m)	1	2	3	4	5	6	7	8	9	10
LEFT BANK FACE (structure)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK FACE (structure)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK TOP (structure within 1m)	1	2	3	4	5	6	7	8	9	10

LAND USE WITHIN 1m OF BANK TOP (R)

LEFT BANK TOP (structure within 1m)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK TOP (structure within 1m)	1	2	3	4	5	6	7	8	9	10

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one energy use E (in 33% area) or if present)

None present	Emergent broad-leaved	Emergent narrow-leaved	Submerged broad-leaved	Submerged narrow-leaved	Free floating	Amphibious	Charismatic algae

Use the 'tick all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or V)

NOTES: Use tick all boxes of energy use E, V, W, X, Y, Z, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 + specify if possible in table part of site description

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE NO. **3408**

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

Broads/lowland woodland (B1)	Wetland (eg bog, marsh, fen) (W1)
Continuous plantation (C1)	Open water (O1)
Woodland/scrub (S1)	Improved/semi-improved grass (G1)
Scrub (S2)	Tilled land (T1)
rough pasture (P1)	Suburban/urban development (U1)

I BANK PROFILES (Use E in 33% banklength) or if present

Natural/unmodified	Artificial/unmodified
Vertical/reinforced	Reinforced - whole bank
Vertical + toe	Reinforced - toe only
Embank (> 45°)	Artificial toe-steps
Gravels	Reinforced - toe only
Composite	Artificial toe-steps
Use tick open to four profiles if different from above, else tick predominant one	Perched
	Embanked
	Set-back embankment

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per bank)	ASSOCIATED FEATURES (Tick one box per feature)
None	Shifting of channel
Inclined/vertical	Overhanging boughs
Regularly spaced, slight	Exposed bankside roots
Occasional clumps	Underwater tree roots
Semi-continuous	Fallen trees
Continuous	Coarse woody debris

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

Waterfall(s) - free fall	Marginal dead-water - slack
Cascade(s) - chute	Exposed bedrock
Step-pool sequence	Exposed boulders
Rap(s) - white-water	Unvegetated mid-channel bars
Riffle-pool sequence	Vegetated mid-channel bars
Runs(s) - smooth, rippled	Stones/bedrock
Bells(s) - swirling	Unvegetated side bars
Glide(s) - smooth, no eddies	Vegetated side bars

Have you completed your expenses from this work? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banking width (m)	4.0	RIGHT BANK
Banking height (m)	Water width (m)	3.5	Banking height (m)
Embanked height (m)	Water depth (m)	0.1	Embanked height (m)

If bankline lower than banking back in slope, indicate: height (m) width (m)

Bed material at site: gravel/sand (temp) unconsolidated (fine) unconsolidated (coarse) unconsolidated (very coarse)

Location of measurement in: riffle run or glide eddy (tick one box) (tick one box)

M ARTIFICIAL FEATURES (Use 1-10, then indicate total number, tick "none" if none appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____ Fords = _____
 Footbridges = _____
 Is water level controlled by weir/dam downstream? No Part of site Next to site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

digging moving Other? State: _____
 weed-cutting enhancement

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

CHANNEL	FLOODPLAIN (10m corridor)
Waterfalls > 1m high	Artificial open water
Brick/drain tiles	Natural open water
Drain tiles	Water meadow
Leafy debris	Fen
	Bag
	Cave
	Marsh
	Flora

P CHOKED CHANNEL (tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: _____

R BRIEF DESCRIPTION (Use prompts and tick words as appropriate) (Tick one box)

Descriptive sentence: **According channel, GP/SA substrate**
 Place of note (from list): **1. Natural banks, some EC.**
 Major excavation features: _____
 Major impacts: **Surrounding fields used as ICI test area, very little field drains + larger pipes going to pumping stations.**
 Incidental observations (animals etc): _____
 IF 2 channels are present, tick one box

S DISEASED ALDERS (tick one box)

None Present Extensive Other diseased trees? State: _____

SEND COMPLETED FORM TO: MUGH DANZON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, ENH 1EB

Expenses supplied! Post completed form for forwarding. Details supplied later

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source(km) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 3409
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River: FEVER EYE
 Date: 1.5.1995 Time: 11:10 Surveyor name: JD

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 1/11 then indicate total number)

Riffles: 447 447 111 Unvegetated point bars
 Pools: 11 Vegetated point bars 11

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Spot check 1 is at upstream end downstream end at site (tick one box)

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

Mat. = Material ? = one entry only

LEFT BANK

Mat. #	1	2	3	4	5	6	7	8	9	10
Bank modifications	10	10	10	10	10	10	10	10	10	10
Bank features	10	10	10	10	10	10	10	10	10	10

CHANNEL

Channel substrate	10	10	10	10	10	10	10	10	10	10
Flow type	10	10	10	10	10	10	10	10	10	10
Channel modifications	10	10	10	10	10	10	10	10	10	10
Channel features	10	10	10	10	10	10	10	10	10	10

RIGHT BANK

Mat. #	1	2	3	4	5	6	7	8	9	10
Bank modifications	10	10	10	10	10	10	10	10	10	10
Bank features	10	10	10	10	10	10	10	10	10	10

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

Land use: choose one from RL, CP, ML, SC, AT, WL, CW, BL, TL, SU

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK-TOP (structure within 1m)	10	10	10	10	10	10	10	10	10	10
LEFT BANK FACE (structure)	10	10	10	10	10	10	10	10	10	10
RIGHT BANK FACE (structure)	10	10	10	10	10	10	10	10	10	10
RIGHT BANK-TOP (structure within 1m)	10	10	10	10	10	10	10	10	10	10
LAND USE WITHIN 5m OF BANKTOP (R)	10	10	10	10	10	10	10	10	10	10

G CHANNEL VEGETATION TYPES (to be assessed over a 10m wide transect)

NONE (tick as appropriate)

Liverworts/mosses/lichens	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergent broad-leaved herbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergent reeds/straws/bushes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floating-leaved (free)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Free-floating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amphibious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submerged broad-leaved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submerged function-leaved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filamentous algae	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Use end 'checkbox' column for types not occurring in spot checks as well as overall assessment over 100m (see E or F)

10/5

10/5

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

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

	L	R		L	R
Broadleaved woodland (BL)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/semi-improved grass (IG)		<input checked="" type="checkbox"/>
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use E to 33% banklength or if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Revetment		
Vertical + toe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - whole bank	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Steep (>45°)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - top only	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Grass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - toe only	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cornets	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Artificial two-stage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Use this space to draw profile if different from above, after taking predominant bank	Peached <input checked="" type="checkbox"/> Embanked <input checked="" type="checkbox"/> Set-back embankments <input checked="" type="checkbox"/>				

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	None	Present	ASSOCIATED FEATURES (Tick one box per feature)	None	Present
Near	<input type="checkbox"/>	<input checked="" type="checkbox"/>	E 2/3% Sliding of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed basalids rocks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Scrub-coniferous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Waterfalls - freefall	None	Present	Marginal dead-water - slack	None	Present
Cascades - close	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Step/pool sequences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rapids - whitewater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Riffle-pool sequences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Runs - disturbed, rippled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Manus islands	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Buils - upwellings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Glides - smooth, no eddies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 5

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

LEFT BANK	Banktop width (m)	5.1	RIGHT BANK		
Banktop height (m)	2.7	Water width (m)	5.5	Banktop height (m)	2.5
Embanked height (m)		Water depth (m)	0.5	Embanked height (m)	

If trahline 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 1/11 indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = 1 Outfalls = 1
 Footbridges = Roadbridges = Other =
 Is water level controlled by weirs/dam downstream? No Part of site Meets/hole of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dragging mowing Other ? State

weed-eating enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL

Waterfalls > 5m high Artificial open water Bog Other (state)

Braid/side channels Natural open water Carr

Debris dams Water meadow Marsh

Leafy debris Fen Flork

F CHOKED CHANNEL (Tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use 1/11)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State

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

Descriptive statement: *steeply rising over 40m from 10m above channel, 20m wide, often present in the way to bank? many about*
 Plants of note: *some 10m x 10m x 10m*
 Major conservation features: *some 10m x 10m x 10m*
 Incidental observations (animals etc): *some 10m x 10m x 10m*

S DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, BH20 6BB

10/5

10/5

NRA RIVER HABITAT SURVEY 1995 USE ONLY Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) _____ Slope (m/km) _____ Flow category (1-10) _____
 Solid geology code _____ Drift geology code _____ Fluvium category _____
 Distance from source(km) _____ Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: **3409**
 Mid-section grid reference of network site if different from designated location: **GA**

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **SJ 807735** River: **PEOVER RIVE**
 Date: **12/2/1995** Time: **16:30** 78.24 14.26 70.00
 Adverse conditions affecting survey? No Yes If yes, state: _____
 End of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) **500m**
 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 + note/other diagram

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Riffles: **10** Unvegetated point bars: _____
 Pools: **3** Vegetated point bars: _____

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SWIFT, head ground, channel, channel, channel

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles: **10** Pools: **3** Unvegetated point bars: _____ Vegetated point bars: _____

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

For each 2m wide zone, tick one box

Left bank	1	2	3	4	5	6	7	8	9	10
Bank material (m)	CA	FA	BR	SA	SL	SL	SL	SL	SL	SL
Bank modification (m)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features (m)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel rate (m)	SI	SI	CC	SI	SP	SP	SP	SP	SP	SP
Flow type (m)	SI	SI	RP	SA	12	RP	SA	12	RP	SA
Channel modification (m)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features (m)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

F BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 2m wide zone)

Land use above 2m from SL: SL, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10

Land use within 2m of banktop (L)	SL	SL	SL	SL	SL	SL	SL	SL	SL	SL
Left bank-top (m)	C	C	S	C	C	S	C	S	C	S
Left bank face (m)	C	S	S	S	S	S	S	S	S	S
Right bank-top (m)	C	S	S	S	S	S	S	S	S	S
Right bank face (m)	C	S	S	S	S	S	S	S	S	S

G CHANNEL VEGETATION TYPES (to be assessed across channel within a 2m wide zone)

None (m)	Plant species (tick one)									
Emergent										
Submerged										
Emergent/float										
Emergent/float										
Emergent/float										
Emergent/float										
Emergent/float										
Emergent/float										
Emergent/float										

Use the 'checked' column for types not occurring in spot checks as well as overall assessment over 100m (Use E or S)

NOTE: Use the 'checked' column for types not occurring in spot checks as well as overall assessment over 100m (Use E or S)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEPUP Page 3 of 4

H LAND USE WITHIN 20m OF BANKTOP (Use E (to 25% banktop) or S (if present))

	L	R		L	R
Restored/modified wetland (L)	E	N	Wetland (by bog, marsh, etc) (L)		
Coniferous plantation (C)			Open water (O)		
Mixed land (M)			Improved/semi-improved grass (G)		E
Bank (B)			Tilled land (T)		
Vegetation (V)			Suburban/urban development (U)		

I BANK PROFILES (Use E (to 25% banktop) or S (if present))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/terrace	L	R	Restored		
Vertical + low	L	R	Reinforced - whole bank		
Step (S)	L	R	Reinforced - top only		
Gravel	L	R	Reinforced - toe only		
Composite	L	R	Artificial concrete		
Use 20 spots to two points if different from above, else 40% predominant use			Reinforced		
			Softbank embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	Left	Right	Notes	Associated Features	None	Present	Notes
None				Shading of channel			
Isolated/scattered				Overhanging boughs			
Regularly spaced, single				Exposed bankside roots			
Occasional clumps				Underwater tree roots			
Stem/leafy				Fallen trees			
Coniferous				Coarse woody debris			

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

Waterfall(s)	None	Present	Notes	None	Present	Notes
Cascade(s)				Marginal deadwater - silt		
Step/low rapids				Exposed bedrock		
Rapid(s) - whitewater				Exposed boulders		
Riffle/rapids sequence				Unvegetated mid-channel bars		
Road(s) - culverted, bridged				Vegetated mid-channel bars		
Bank(s) - exposed, rippled				Marsh islands		
Bank(s) - exposed, rippled				Unvegetated side bars		
Gravel(s) - smooth, no silt				Vegetated side bars		

Have you completed your exposure from this reach? (Send to SWD for registration!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

Left bank	Banking width (m)	1.0	Right bank	
Banking height (m)	Water width (m)	5.0	Banking height (m)	1.5
Banking height (m)	Water depth (m)	0.2	Banking height (m)	

If banktop is lower than banking height in slope, indicate height (m) **0.9** width (m) **2.0**

Bed material at site in: eroded/silted (grey) unconsolidated (green) volcanic

Location of measurement in: riffle rapids other (tick one box) (Use E or S)

M ARTIFICIAL FEATURES (Use 1-10 indicate total number, tick 'none' where appropriate)

None Number of Columns = _____ Views = _____ Outfalls = _____ Fens = _____
 Feasibility = _____ Feasibility = _____ Other = _____
 Is water level controlled by within development? No Part of the (tick one box) of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dredging mowing other? state: _____
 weeding enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate feature)

CHANNEL: Waterfalls > 2m high Artificial open water Big Other (state) _____
 Eroded/bank collapse Natural open water Cur
 Debris dams Wet meadow Marsh
 Lush debris Fen Flash

P CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (tick appropriate species)

Great Reedweed Himalayan Balsam Japanese Knotweed Other? state: _____

R BRIEF DESCRIPTION (tick appropriate and log weight as appropriate)

Describe outcrop: **Tree-lined meandering R/Pool stream.**
 Photo of note (see 1st): _____
 Major geomorphic features: **BL woodland. (E)**
 Major legends: **Some branching on banks (R&S)**
 Incidental observations (animals etc): **Great Kingfisher.**

S DISEASED ALGAE (tick one box)

None Present Extensive Other diseased bank? state: _____

SEND COMPLETED FORMS TO HUGH DANSON, IFE, RIVER LABORATORY, EAST STOKES, WARRINGHAM, ENGLAND

Envelope supplied! Tick suitable for postmarking (date supplied)

NRA RIVER HABITAT SURVEY 1995: TSN SPOT CHECKS Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: 2 2 3
 Mid-section grid reference of network site (if different from designated location):

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: TF 268714 River: ...
 Date: 2.1.1995 Time: ... Surveyor name: ...

Adverse conditions affecting survey? No Yes If yes, state: ...
 End of river visible? No partially entirely (pick one box)
 Duplicate photographs: general character? No Yes (pick one box)
 Site surveyed from: left bank right bank channel (pick as appropriate)

C PREDOMINANT VALLEY FORM (pick 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 1-10 then indicate total number)

Riffles (5) Unvegetated point bars
 Pools Vegetated point bars

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NRA RIVER HABITAT SURVEY 1995: TSN SPOT CHECKS Page 2

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

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone)

Stat. #	Material	1	2	3	4	5	6	7	8	9	10
LEFT BANK											
Stat. #	Material	1	2	3	4	5	6	7	8	9	10
Bank modification(s)											
Bank feature(s)											
CHANNEL											
Channel substrate											
Flow type											
Channel modification(s)											
Channel feature(s)											
RIGHT BANK											
Stat. #	Material	1	2	3	4	5	6	7	8	9	10
Bank modification(s)											
Bank feature(s)											

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

Land use: choose one from PL, CL, CR, CLP, PLP, PLR, CLR, CLRP, PLRP, CLRP

LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK-TOP (structure within 5m)										
LEFT BANK FACE (structure)										
RIGHT BANK FACE (structure)										
RIGHT BANK-TOP (structure within 5m)										
LAND USE WITHIN 5m OF BANK TOP (R)										

G CHANNEL VEGETATION TYPES (tick relevant boxes with one entry per E (in 3% area) or 4 (percent))

None (pick as appropriate)											
Live/semi-live herbaceous											
Emergent broad-leaved herbs											
Emergent reeds/sedges/bulrushes											
Flowering-leaved (woody)											
Free-floating											
Amphibious											
Schreger broad-leaved											
Schreger fine-leaved											
Flowering algae											

Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 100m (use E or 4)

NRA RIVER HABITAT SURVEY 1995: 100m SWEEP-UP Page 3 of 4

SITE NO: 7423

H LAND USE WITHIN 5m OF BANKTOP (Use 1-10 then indicate total number)

	L	R		L	R
Forest/woodland (2L)			Wooded (by type, marsh, etc) (2L)		
Grassland/plantain (2L)			Open water (20L)		
Heathland/heath (20L)			Improved/semi-improved grass (20)		
Bank (2C)			Tilled land (2L)		
Other (2F)			Suburban/urban development (2U)		

I BANK PROFILES (Use 1-10 then indicate total number)

	L	R		L	R
Natural/unmodified			Artificial/modified		
Vertical/obscure			Rationalised		
Vertical + toe			Rationalised - whole bank		
Step (> 4%)			Rationalised - top only		
Grade			Rationalised - toe only		
Composite			Artificial toe-steps		
Use 1-10 across the profile			Teased		
Use 1-10 from above site			Embanked		
Use 1-10 from below site			Sea-bank artificial profile		

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per tree)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None			Shading of channel		
Irregularly scattered			Overhanging branches		
Regularly spaced, single			Exposed bankside roots		
Occasional clumps			Underwater tree roots		
Small clumps			Fallen trees		
Grasslands			Causes woody debris		

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

	None	Present		None	Present
Waterfall(s) - freefall			Marginal deadwater - slack		
Waterfall(s) - stone			Exposed bedrock		
Step-pool sequence			Exposed boulders		
Rapid(s) - with water			Unvegetated mid-channel bars		
Riffle(s) - with water			Vegetated mid-channel bars		
Riffle(s) - without water			Marsh (inland)		
Bank(s) - exposed, rippled			Unvegetated side bars		
Bank(s) - smooth, no ridges			Vegetated side bars		

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Bank top width (m)	2.5	RIGHT BANK
Bank top height (m)	7.5	Water width (m)	2.5
End-bank height (m)		Water depth (m)	2.5
		End-bank height (m)	

If multiple lower than bank top break in slope, indicate height (m) width (m)

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

Location of measurement is: riffle run or glide other (pick one box) Slope (1% only)

M ARTIFICIAL FEATURES (Use 1-10 then indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Outfalls = Folds =
 Footbridges = Roadbridges = Other =
 Is water level controlled by a weir/dam downstream? No Yes Part of site Mouth/belt of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

grazing mowing Other? State: ...
 weeding enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m radius)
Waterfalls > 2m high	Artificial open water
End-of-bank channels	Natural open water
Debris dams	Water meadow
Loose debris	Fen
	Other (state):

P CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use 1-10)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: ...

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

Descriptive notes: *Winding channel, stone in lower section, most banks have vegetation, some fine sand, some silt, some gravel, some pebbles, some cobbles, some boulders, some logs, some debris, some roots, some fallen trees, some deadwood, some driftwood, some branches, some twigs, some leaves, some flowers, some fruits, some seeds, some spores, some pollen, some nectar, some honey, some bees, some butterflies, some moths, some birds, some mammals, some reptiles, some amphibians, some fish, some invertebrates, some plants, some animals, some humans.*

Major features: *Waterfalls, rapid, riffle, step-pool sequence, bank, channel, floodplain, vegetation, debris, roots, fallen trees, deadwood, driftwood, branches, twigs, leaves, flowers, fruits, seeds, spores, pollen, nectar, honey, bees, butterflies, moths, birds, mammals, reptiles, amphibians, fish, invertebrates, plants, animals, humans.*

Major impacts: *None.*

Incidental observations (animals etc): *None.*

S DISEASED ALDERS (tick one box)

None Present Extensive Other (diseased tree) State: ...

SEND COMPLETED FORM TO HUGH DAWSON, IFE, EPZ/R LABORATORY, EAST STONE, WARRHAM, BH20 4EB

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Planform category
 Distance from source(m) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 3423 QA
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: TF268714 River: WARING
 Date: 1/2/1995 Time: 14:30 78 74 74 16 AK 70m
 Adverse conditions affecting survey? No Yes If yes, state: None
 Bed of river visible? No partially entirely (tick one box)
 Photograph general character? No Yes (tick one box) See 1/2 on 1!
 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 + notes on diagram

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1/1 then indicate total number)

Riffles 15 Unvegetated point bars
 Pools 8 Vegetated point bars

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles 15 Pools 8 Unvegetated point bars Vegetated point bars

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 10m wide zone) (tick one box per feature)

Spot check 1 to 10	1	2	3	4	5	6	7	8	9	10	Notes
Bank material (fine)	S	S	S	S	S	S	S	S	S	S	
Bank material (coarse)	S	S	S	S	S	S	S	S	S	S	
Bank modification(s)	N	N	N	N	N	N	N	N	N	N	
Channel modification(s)	N	N	N	N	N	N	N	N	N	N	
Channel feature(s)	N	N	N	N	N	N	N	N	N	N	
RIGHT BANK	S	S	S	S	S	S	S	S	S	S	
Bank material (fine)	S	S	S	S	S	S	S	S	S	S	
Bank material (coarse)	S	S	S	S	S	S	S	S	S	S	
Bank modification(s)	N	N	N	N	N	N	N	N	N	N	
Channel modification(s)	N	N	N	N	N	N	N	N	N	N	
Channel feature(s)	N	N	N	N	N	N	N	N	N	N	

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

Land use: choose one from BL, CP, SP, SC, VP, CR, IG, TL, SU

LAND USE WITHIN 5m OF BANKTOP (L)	L	L	L	L	L	L	L	L	L	L	
LEFT BANK-TOP (structure within 2m)	S	S	S	S	S	S	S	S	S	S	
LEFT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S	
RIGHT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S	
RIGHT BANK-TOP (structure within 2m)	S	S	S	S	S	S	S	S	S	S	
LAND USE WITHIN 5m OF BANK TOP (R)	L	L	L	L	L	L	L	L	L	L	

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry use E (to 33% cover) or J (percent))

None (tick)	Plant species (tick one)	1	2	3	4	5	6	7	8	9	10
<input checked="" type="checkbox"/>	<u>None</u>										
<input type="checkbox"/>	<u>Emergent broad-leaved herbs</u>										
<input type="checkbox"/>	<u>Emergent reeds</u>										
<input type="checkbox"/>	<u>Emergent sedges</u>										
<input type="checkbox"/>	<u>Emergent grasses</u>										
<input type="checkbox"/>	<u>Emergent forbs</u>										
<input type="checkbox"/>	<u>Emergent shrubs</u>										
<input type="checkbox"/>	<u>Emergent trees</u>										
<input type="checkbox"/>	<u>Emergent ferns</u>										
<input type="checkbox"/>	<u>Emergent mosses</u>										
<input type="checkbox"/>	<u>Emergent algae</u>										

Use the 'tick-all' column for types not occurring in spot checks as well as overall assessment over 100m (use E or J)!

PLANTS - Use tick-all boxes of species of plants & vegetation + species of plants of both pool & stream vegetation

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or J (percent))

	L	R		L	R
Broadleaved woodland (BL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Moorland/Scrub (M)			Improved/semi-improved grass (IG)		
Scrub (SC)			Tilled soil (TS)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use E (to 33% banklength) or J (percent))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undisturbed			Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (>45°)			Reinforced - top only		
Grass			Reinforced - toe only		
Composite			Artificial two-stage		
			Reinforced		
			Embanked		
			Set-back embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	Left	Right	WATER	ASSOCIATED FEATURES (Tick one box per feature)	None	Present E	Notes
None	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Small-continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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

None	Present E	Notes
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - silt
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed boulders
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mature islands
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>9.0</u>	RIGHT BANK		
Banking height (m)	<u>2.5</u>	Water width (m)	<u>2.5</u>	Banktop height (m)	<u>2.5</u>
Embanked height (m)		Water depth (m)	<u>0.5</u>	Embanked height (m)	

If bankline lower than banktop break in slope, indicate: height (m) 1.0 width (m) 5.5

Bed material at site is: consolidated (temp) unconsolidated (floor) unknown

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

M ARTIFICIAL FEATURES (Use 1/1 indicate total number, tick 'none' where appropriate)

None Number of Culverts = 0 Weirs = 0 Overfalls = 0 Fords = 0
 Footbridges = 0 Roadbridges = 0 Other = 0

Is water level controlled by weir/dam downstream? No Part of site Start of hole of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dragging mowing Other? State: None
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL: Waterfalls > 5m high FLOODPLAINS (50m corridor): Artificial open water Bog Other (state) None
 Braided/wide channels Natural open water Carr
 Debris dams Water meadow Marsh
 Leafy debris Fen Fluck

P CHOKED CHANNEL (Tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use E or J)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: None

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

Descriptive sentence: Tree lined channel, 2F/Pool sequence.
 Flats of note: See 1/2: Steep banks.
 Major conservation features: Wildlife corridor in agricultural lands.
 Major impact: None
 Incidental observations (animals etc): Brown dippers (colony in 1/2).

S DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State: None

SEND COMPLETED FORM TO: NICHOLSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Enquiries supplied! Post completed forms for painting - details required

Have you completed your responses from this week? (Send G & H to us for reports!)

NRA RIVER HABITAT SURVEY 1995: 75-26-4 Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Abundance (1-10) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? 0 Navigation? 1/0

B FIELD SURVEY DETAILS

Reference network site number: 75-26
 Mid-section grid reference of network site if different from designated location

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River: 75-26-4
 Date: 11/1/95 Time: 15:30 Supervisor name: G. A. ...
 Adverse conditions affecting survey? No Yes If yes, state: ...
 End of river visible? No partially entirely (pick one box)
 Photograph general character? No Yes (pick one box)
 Site surveyed from: left bank right bank channel (pick as appropriate)

C DOMINANT VALLEY FORM (pick one box only)

shallow vee terraced valley floor
 deep vee asymmetrical floodplain
 gorge asymmetrical floodplain + river/valley terrace
 concave bowl

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Riffles: 1 Unvegetated point bars: 0
 Pools: 0 Vegetated point bars: 0

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NRA RIVER HABITAT SURVEY 1995: 75-26-4 Page 2 of 4

E PHYSICAL ATTRIBUTES (to be observed across channel within a 5m wide zone)

Channel Attribute	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	CA	EA	EA	CA	CA	CA	EA	CA	EA	CA
Bank modification	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank feature	U0	U0	H0	U0	U0	U0	U0	U0	U0	U0
Channel substrate (fine)	SF	SA	ST	ST	ST	ST	SP	ST	ST	ST
Flow type (fine)	EP	CF	RP	SM	SM	SM	SM	SM	SM	SM
Channel modification	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Channel feature	U0	U0	U0	U0	U0	U0	U0	U0	U0	U0

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

Land use above site from 1L, 1R, 2L, 2R, 3L, 3R, 4L, 4R, 5L, 5R

Land Use Within 5m of Banktop	1L	1R	2L	2R	3L	3R	4L	4R	5L	5R
Left Bank Top Structure within 2m	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA
Left Bank Face Structure	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB
Right Bank Face Structure	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB
Right Bank Top Structure within 2m	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA
Land Use Within 5m of Bank Top	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC

G CHANNEL VEGETATION TYPES (fill in relevant boxes, with one check per E to 10% area of interest)

Plant Group	1	2	3	4	5	6	7	8	9	10
None										
Emergent										
Submerged										
Emergent sedge										
Emergent sedge (submerged)										
Free-floating										
Amphibious										
Submerged fine-leaved										
Submerged fine-leaved (submerged)										
Flowering algae										

Use and "check" columns for types not occurring in spot checks as well as overall assessment over 100m (see E. 1-10)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEPNET Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E to 10% banktop) as of present

Land Use	L	R	L	R
Disturbed/modified woodland (D1)				
Continuous pasture (C1)				
Disturbed/modified pasture (D2)				
Scrub (S)				
Rough pasture (R)				

I BANK PROFILES (Use E to 10% banktop) as of present

Bank Profile	L	R	Artificial/modified	L	R
Natural/unmodified					
Vertical + toe			Reinforced		
Steep (> 45°)			Reinforced - whole bank		
Gully			Reinforced - top only		
Competition			Reinforced - toe only		
			Artificial toe-surge		
			Reinforced		
			Embedded		
			Structural embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES

Trees (tick one box per tree)	None	1-10%	10-25%	25-50%	50-75%	75-100%
None						
Irregularly spaced						
Regularly spaced, single						
Occasional change						
Steady continuous						
Continuous						

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

Channel Feature	None	Present	None	Present	None	Present
Waterfalls - free fall						
Waterfalls - chute						
Step-pool sequence						
Fast-flow - substrate						
Fast-flow - substrate						
Fast-flow - substrate, stepped						
Fast-flow - substrate						
Fast-flow - substrate, no debris						

Have you completed your request for this web? (and 6 for 75-26-4)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

Channel Dimension	Left Bank	Right Bank
Banking width (m)	1.75	1.20
Banking height (m)	1.20	1.20
Banking depth (m)	0.6	0.6

M ARTIFICIAL FEATURES (Use 1-10 to indicate total number, tick "none" where appropriate)

None Number of Culverts = 0 Weirs = 0 Outfalls = 0
 None Number of Footbridges = 0 Rail bridges = 0 Part of site Part of hole of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

grading mowing Other? State: ...
 weeding enhancement

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

Channel: Waterfalls > 5m high Artificial open water Big Other (state) ...
 Eroded/side channel Natural open water Cur
 Debris dams Water meadow Marsh
 Leafy debris Fen Flank

P CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE SUSANACE PLANT SPECIES (Use E to 10% banktop)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: ...

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

Descriptive statement: ...
 Date of note: ...

S DISEASED ALGAE (tick one box)

None Present Extensive Other (state) ...

SEND COMPLETED FORMS TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WARHAM, NORFOLK NR12 9JN

Europe's largest! Post completed forms for processing - 24hrs required

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

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(m) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS:

Reference network site number: **3536**
 Mid-section grid reference of network site if different from designated location: **0A**

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **SJ 576334** River: **BAILEY BECK**
 Date: **3/2/1995** Time: **11:30** 7B, 7D PM 16 AK 70m
 Adverse conditions affecting survey? No Yes If yes, state: _____
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) **SUB 10m**
 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 + notes/mud drains
 concave/bowl

D. NUMBER OF RIFLES, POOLS AND POINT BARS: (Use [] then indicate total number)

Rifles **2** Unvegetated point bars _____
 Pools _____ Vegetated point bars _____

National Rivers Authority

DATES: head ground calculated after checks

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E. PHYSICAL ATTRIBUTES: (to be assessed across channel width at 1m wide zone) (1) Max. (2) Min. (3) Mean (4) Std. Dev. (5) Range (6) S.D. (7) Coef. of Variation (8) Skewness (9) Kurtosis (10) Total

LEFT BANK	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	PE	PE	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
CHANNEL NOTE: V-shape, no bank, etc.										
Channel substrate (fine)	SA	SA	SI	SI	SI	SI	SI	SI	SI	SI
Flow type (fast)	SN	SN	SN	SN	SN	SN	SN	SN	SN	SN
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	PE	PE	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC

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

Land use: choose one from 1L, 1P, 1M, 1C, 2L, 2P, 2M, 2C, 3L, 3P, 3M, 3C, 4L, 4P, 4M, 4C, 5L, 5P, 5M, 5C

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK-TOP (structure width in)	1	U	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure)	B	B	B	B	B	B	B	B	B	B
RIGHT BANK-TOP (structure width in)	U	U	U	U	U	U	U	U	U	U
LAND USE WITHIN 5m OF BANK TOP (S)	U	U	U	U	U	U	U	U	U	U

G. CHANNEL VEGETATION TYPES: (fill in relevant boxes with one entry, use E (0-33% cover) or A (greater))

NONE (tick)	Plant genera (tick one)									
Emergent broad-leaved										
Emergent reed/straw										
Flora-leaved (quercus)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Flamboy, algae										

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

NOTES: Use red ink details of cover of riparian vegetation + species if possible of both bank + Potamogeton perfoliatus

NRA RIVER HABITAT SURVEY 1995: 500M SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP: (Use E (0-33% banklength) or A if present)

	L	R		L	R
Broadleaved woodland (BL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Cyan water (CW)		
Moorland/heath (MH)			Improved/heath-improved grass (IG)		
Scrub (SC)			Tilled land (TL)		
rough pasture (RP)			Suburban/urban development (SU/UA)		

I. BANK PROFILES: (Use E (0-33% banklength) or A if present)

Natural/unmodified	L	R	Artificially modified	L	R
Vertical/steep			Reinforced		
Vertical + toe			Reinforced - whole bank		
Flap (> 15°)			Reinforced - top only		
Grass			Reinforced - toe only		
Composites			Artificial toe/ridge		
Use 0% cover in flow paths if different from above, after 50m downstream bar			Reinforced		
			Embedded		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES: (Tick one box per feature)

TREES (Tick one box per tree)	None	Left	Right	MIXED	None	Present E	None	Present E	MIXED
Isolated/straggled									
Regularly spaced, single									
Occasional clumps									
Fresh-cut/overgrown									
Coniferous									
ASSOCIATED FEATURES (Tick one box per feature)									
E 2:33%									
Shifting of channel									
Overhanging banks									
Exposed bankside roots									
Underwater tree roots									
Fallen trees									
Course woody debris									

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

Waterfall(s) - freefall	None	Present E	Marginal ditches - silted	None	Present E	MIXED
Concave(s) - chute			Exposed bedrock			
Shoal/sandbars			Exposed boulders			
Rapid(s) - whitewater			Unvegetated mid-channel bars			
Riffle/slow-sandbars			Vegetated mid-channel bars			
Point(s) - lateral, rippled			Natural island(s)			
Bank(s) - spilling			Unvegetated side bars			
Grate(s) - smooth, no adfles			Vegetated side bars			

Have you completed your responses from this week? (Send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	2.5	RIGHT BANK
Banktop height (m)	Water width (m)	1.25	Banktop height (m)
Embanked height (m)	Water depth (m)	0.25	Embanked height (m)

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

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

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

M. ARTIFICIAL FEATURES: (Use [] indicate total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____ Overfalls = _____ Feeds = _____
 Footbridges = _____ Part of site Other? Note of site

Is water level controlled by weirs/dams etc? No Yes

N. EVIDENCE OF RECENT MANAGEMENT: (Tick appropriate box)

digging mowing Other? Site _____
 weed-killing enhancement

O. FEATURES OF SPECIAL INTEREST: (Tick appropriate features)

CHANNEL	WATERFALL > 5m high	Artificial open water	Bog	Other (state) _____
Fringed/side channels	Natural open water	Care		
Debris dams	Water meadow	Marsh		
Large debris	Fen	Flora		

P. CHOKED CHANNEL: (Tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES: (Use for E)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Site _____

R. BRIEF DESCRIPTION: (Use prompts and tick words as appropriate)

Descriptive notes: Lowland agricultural site - silt channel, SW flow.
 Plants of note (see list): Peaches or raspberries choking channel - but mostly open silt.
 Major conservation features: _____
 Major impacts: Downward / Dredged, in past.
 Incidental observations (animals etc): _____

S. DISEASED ALDERS: (Tick one box)

None Present Extensive Other disease trees? Site _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 4EB

Envelopes supplied! Post completed forms for printing - labels supplied separately

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

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 numbers: Site 3567
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: 22 25213 River: Hon Tanak NRA-6E
 Date: 15/1995 Time: 2:30 Surveyor name: P. Evans
 Adverse conditions affecting survey? No Yes If yes, state:
 Bed of river visible? No partially entirely (pick one box)
 Duplicate photographs: general character? No Yes (pick 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 RIPPLES, POOLS AND POINT BARS (tick then indicate total number)

Ripples: 8 Unvegetated point bars: 2
 Pools: 2 Vegetated point bars: 1

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TIN SPOT CHECKS Page 2 of 4

Spot check 1 to 10 upstream and downstream and at site (tick one box)

PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone)

Dist. = Material	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Mat. #	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca
Bank modification(s)										
Bank features(s)										
CHANNEL										
Channel substrate #	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca
Flow type #										
Channel modification(s)										
Channel features(s)										
RIGHT BANK										
Mat. #	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca
Bank modification(s)										
Bank features(s)										

E BANKS OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide transect)

Land use: choose one from PL, CR, HR, SC, SP, VL, CP, PS, TL, PU

LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 1m) #1-5										
LEFT BANK FACE (structure) #1-5										
RIGHT BANK FACE (structure) #1-5										
RIGHT BANK TOP (structure within 1m) #1-5										

F AND USE WITHIN 5m OF BANK TOP (R)

1	2	3	4	5	6	7	8	9	10

G CHANNEL VEGETATION TYPES (fill in relevant cells with one entry; use E (to 31% area) or F (percent))

NONE (tick as appropriate)										
Liverworts/mosses/lichens										
Emergent broad-leaved herbs										
Emergent reeds/sedges/irises										
Floating-leaved (free)										
Free-floating										
Amphibious										
Schweiger broad-leaved										
Schweiger fine-leaved										
Common algae										

Use end 'catch-all' column for type not occurring in spot checks as well as overall assessment over 50m (use E or F)

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NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (to 31% banklength) or F (percent))

	L	R		L	R
Prostrate/matted woodland (PL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Herbland/scrub (SH)			Improved semi-improved grass (IG)		
Scrub (SQ)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use E (to 31% banklength) or F (percent))

	L	R		L	R
Natural/unmodified			Artificial/modified		
Vertical/undercut			Flattened		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial two-stage		
			Paralled		
			Embanked		
			Set-back embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per bank)

TREES	Left	Right	ASSOCIATED FEATURES	None	Present E
None	<input type="checkbox"/>	<input type="checkbox"/>	Sliding of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/stemmed	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bank-side roots	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	Under-size tree roots	<input type="checkbox"/>	<input type="checkbox"/>
Scrub-coniferous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Course woody debris	<input type="checkbox"/>	<input type="checkbox"/>

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

	None	Present E		None	Present E
Waterfalls - freefall	<input type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - absent	<input type="checkbox"/>	<input type="checkbox"/>
Cascades - close	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Step/pool sequences	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Rapids - sub-water	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Riffle/pool sequences	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Runs - demarcated, rippled	<input type="checkbox"/>	<input type="checkbox"/>	Native islands	<input type="checkbox"/>	<input type="checkbox"/>
Banks - open/steep	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>
Gidlets - smooth, no eddies	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>

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NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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)	<u>0.5</u>	Banktop height (m)
Banktop width (m)	<u>2.5</u>	Banktop width (m)
Banktop height (m)	<u>0.2</u>	Banktop height (m)
Banktop width (m)	<u>2.5</u>	Banktop width (m)

If multiple lower than bank top 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 eddy (pick one box) Slope (1/E only)

M ARTIFICIAL FEATURES (Use E (to 31% banklength) or F (percent))

None Number of Culverts = 2 Weirs = 1 Outfalls = 0 Ferds = 0
 Footbridges = 1 Roadbridges = 0 Other = 2 (land drains)

Is water level controlled by weir/dam structure? No Part of site Most of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

Grading mowing Other? State:
 Weed-clearing enhancement

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

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Braided/side channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Debris dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>
Large debris <input type="checkbox"/>	Fra <input type="checkbox"/>

P CHOKED CHANNELS (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use E (to 31% banklength) or F (percent))

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State:

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

Descriptive sentence: Run has become deeper but with just flowing bar and still has riffle section

Plan of site:

Major conservation features: Gravel

Major impacts: Large as if some of the larger channels have been abandoned of the river to create a primitive form

Incidental observations (national site): Differ

at points 2-5 bars for vegetation on bank in riffle

S DISTURBED ALIENS (Tick one box)

None Present Extensive Other (named trees) State:

SEND COMPLETED FORM TO HUGH LAWSON, H.R. ENTER LABORATORY, EAST STOLE, WARDHAM, HUNTS

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NRA RIVER HABITAT SURVEY 1995: IFE #A-A Page 1 of 4

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: 3567
 Mid-section grid reference of network site if different from designated location: GA

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SJ 245213 River: TANAT
 Date: 31/2/1995 Time: 1.5.45
 Date: 31/2/1995 Time: 1.5.45
 Adverse conditions affecting survey? No Yes If yes, state _____
 End of river visible? No partially entirely (tick one box)
 Photographic general character? No Yes (tick one box) with 60% of ground!
 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 + HILLS/VALLEY
 concave/bowl

D. NUMBER OF RIPPLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Ripples 3 Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

ICES: head ground unshaded higher checks

NRA RIVER HABITAT SURVEY 1995: TAN SPOT CHECKS Page 2 of 4

Riffles Pools Unvegetated point bars Vegetated point bars

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone) (tick one box per cell)

	1	2	3	4	5	6	7	8	9	10	
Bank material (fine)	E	G	S	C	A	R	R	E	A	E	L
Bank modification	N	C	N	N	N	N	N	N	N	N	N
Bank feature(s)	N	N	N	N	N	N	N	N	N	N	N
Channel substrate (fine)	C	O	C	S	P	P	P	P	P	P	P
Flow type (fine)	N	N	N	N	N	N	N	N	N	N	N
Channel modification	N	N	N	N	N	N	N	N	N	N	N
Channel feature(s)	N	N	N	N	N	N	N	N	N	N	N

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

Land use: choose one from SL, CL, TL, CL, CL, CL, CL, CL, CL, CL, CL, CL

LAND USE WITHIN 5m OF BANKTOP (L)	S	S	S	S	S	S	S	S	S	S
LEFT BANK TOP (structure within 2m)	S	S	S	S	S	S	S	S	S	S
LEFT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S
RIGHT BANK TOP (structure within 2m)	S	S	S	S	S	S	S	S	S	S
RIGHT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S
LAND USE WITHIN 5m OF BANKTOP (R)	T	L	L	L	L	L	L	L	L	L

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry per 25% area or 4 species)

NONE (tick one)	Plant species (tick one)									
Invasive species										
Emergent beds										
Emergent reeds										
Flowering										
Free-floating										
Amphibious										
Schubertia										
Submerged fine-leaved										
Flowering algae										

Use end 'tick all' column for types not occurring in spot checks as well as overall assessment over 200m (use E or V)!

ICES: head ground unshaded higher checks

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE NO. 3567

H. LAND USE WITHIN 20m OF BANKTOP (tick one box for each 25% area)

	L	R		L	R
Deciduous woodland (DL)	E	E	Wetland (eg bog, marsh, etc) (WL)		
Ceafuous plantation (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/semi-improved grass (IG)	E	E
Scrub (SQ)			Tilled land (TL)		
Trough pasture (TP)			Suburban/urban development (SU)	E	V

I. BANK PROFILES (tick one box for each 25% area)

	L	R		L	R
Natural/unmodified			Artificial/modified		
Vertical/obscure	E	E	Recessed		
Vertical + toe			Reinforced - whole bank		
Step (2-45°)			Reinforced - step only		
Circle			Reinforced - toe only		
Composite			Artificial toe/edge		
Use 0's open to flow profile if different from above, else with professional tree			Preached		
			Embedded		
			Foot-bank embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES	Left	Right	Wedge	E > 25%	None	Present	N/A/ICE
Near							
Isolated/disturbed							
Regularly spaced, single							
Occasional clumps							
Semi-coalescent							
Coalescent							
ASSOCIATED FEATURES	None	Present	E > 25%	None	Present	N/A/ICE	
Slating of channel							
Overhanging boughs							
Exposed bank-side roots							
Underwater tree roots							
Fallen trees							
Covers woody debris							

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present	E > 25%	None	Present	N/A/ICE
Waterfall(s) - free fall						
Casefall(s) - chute						
Step/rap sequence						
Rap(s) - whitewater						
Riffle/pool sequences						
Run(s) - distributed, rippled						
Pool(s) - open/clogging						
Glide(s) - smooth, no eddies						
Marginal dewatering - slack						
Exposed bedrock						
Exposed boulders						
Unvegetated mid-channel bars						
Vegetated mid-channel bars						
Marsh islands						
Unvegetated side bars						
Vegetated side bars						

Have you completed your requests from this week? (send to ASD for computer!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banking width (m)	<u>1.5</u>	RIGHT BANK	Banking width (m)	<u>1.0</u>
	Bank top height (m)	<u>1.0</u>		Bank top height (m)	<u>1.0</u>
	Embanked height (m)	<u>0.5</u>		Embanked height (m)	<u>0.5</u>
	Water width (m)	<u>2.0</u>		Water depth (m)	<u>0.5</u>
	Water depth (m)	<u>0.5</u>			

If waterline lower than banking break in slope, indicate height (m) width (m)

Bed material at site: consolidated (temp) unconsolidated (fine) unknown

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

M. ARTIFICIAL FEATURES (tick appropriate number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____ Folds = _____
 Footbridges = _____ Roadbridges = _____
 Is water level controlled by whittens downstream? No Part of site Mouth/belt of site

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

digging moving Other? Suite _____
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate features)

CHANNEL	Waterfalls > 2m high <input type="checkbox"/>	FLOODPLAIN (tick one)	Artificial open water <input type="checkbox"/>	Bog <input type="checkbox"/>	Other (tick) _____
	Bankside channels <input type="checkbox"/>		Natural open water <input type="checkbox"/>	Carr <input type="checkbox"/>	
	Drifts dams <input type="checkbox"/>		Water meadow <input type="checkbox"/>	Marsh <input type="checkbox"/>	
	Lady debris <input checked="" type="checkbox"/>		Fra <input type="checkbox"/>	Flora <input type="checkbox"/>	

P. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE SUBSTANCE PLANT SPECIES (tick one)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Suite _____

R. BRIEF DESCRIPTION (use prompts and key words as appropriate)

Descriptive sentence: Siltous channel - predominantly CE + SD substrate
 Plants of note (see 1.2): very muddy channel
 Major conservation features: EL woodland RWS
 Major impacts: Some 121 Lip Pop & organic banks
 Incidental observations (animals etc): Common Toad LWS
House - Garden RWS

S. DISTURBED ALDERS (tick one box)

None Present Extensive Other (disturbed trees) Suite _____

SEND COMPLETED FORM TO IUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, BH20 6BB

ICES: head ground unshaded higher checks

NRA RIVER HABITAT SURVEY 1995 Page 3 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: **3569**
 Mid-section grid reference of network site if different from designated location: _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **SJ 443283** River: **REFFEN**
 Date: **27.7.1995** Time: **6.00** Surveyor name: **J. J. J. J.**

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 DOMINANT VALLEY FORM (tick one box only)

shallow vee terrace of valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 concave/bowl

D NUMBER OF RIPPLES, POOLS AND POINT BARS (Use 1/2 when indicate total number)

Ripples Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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)

Spot	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Spot #	01	02	03	04	05	06	07	08	09	10
Bank modification	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank features	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
CHANNEL										
Channel substrate	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
Flow type	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
Channel modification	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Channel features	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RIGHT BANK										
Spot #	11	12	13	14	15	16	17	18	19	20
Bank modification	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank features	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA

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

Land use classes are from NL, CL, SW, SC, ST, SL, SW, SL, SW

LAND USE WITHIN 5m OF BANKTOP (L)	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P
LEFT BANK TOP (structure within 1m)	U	U	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U
RIGHT BANK TOP (structure)	U	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U
AND USE WITHIN 5m OF BANK TOP (R)	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P

G CHANNEL VEGETATION TYPES (to be assessed over a 10m wide transect)

VEGETATION TYPE	1	2	3	4	5	6	7	8	9	10
NONE (tick as appropriate)										
Emergent broad-leaved herbs										
Emergent reeds/sedges/herbs	E	E	E	E	E	E	E	E	E	E
Flowering broad-leaved										
Free-floating										
Emphatic										
Submerged broad-leaved										
Submerged fine-leaved										
Charismatic algae										

Use end 'tickall' column for type not occurring in spot checks as well as overall assessment over 10m (see E.1.1)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (to be assessed on 10m banktop or if present)

	L	R		L	R
Deciduous/mixed woodland (D)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (C)			Open water (O)		
Moorland/heath (M)			Ingen or semi-improved grass (G)	E	E
Scrub (S)			Tilled land (T)	E	E
rough pasture (P)			Suburban/urban development (U)		

I BANK PROFILES (Use E (to 10% banktop) or if present)

	L	R		L	R
Natural/unmodified			Artificial/modified		
Vertical/steep			Reinforced	E	E
Vertical + toe			Reinforced - whole bank	E	E
Slope (to 45°)			Reinforced - top only		
Grass			Reinforced - toe only		
Composite			Artificial to-ways		
Use 1/2 when in two profiles if 1/2 from shore, after 1/2 from banktop			Peatland		
			Embanked	E	E
			Setback embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per tree)	Left	Right	ASSOCIATED FEATURES (Tick one box per feature)	None	Present	E
Name			Shading of channel			
Isolated/scattered			Overhanging boughs			
Regularly spaced, single			Exposed bankside roots			
Occasional clumps			Underwater tree roots			
Scrub/scrubland			Fallen trees			
Continuous			Coarse woody debris			

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

	None	Present	E	None	Present	E
Waterfalls - free fall				Marginal deadwater - silt		
Caerds - chute				Exposed bedrock		
Step-pool sequence				Exposed boulders		
Rapids - +downriver				Unvegetated mid-channel bars		
Fuller pool sequence				Vegetated mid-channel bars		
Rapids - disturbed, rippled				Native island(s)		
Rapids - spreading				Unvegetated side bars		
Glides - smooth, no eddies				Vegetated side bars		

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banking width (m)	8.0	RIGHT BANK	Banking width (m)
Banking height (m)	2.0		Banking height (m)	2.0
Embanked height (m)	0.5		Embanked height (m)	0.5
Water depth (m)			Water depth (m)	

If variable low or than banking bank in slope, indicate? height (m) _____ width (m) _____

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

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

M ARTIFICIAL FEATURES (Use 1/2 indicates total number, tick "none" where appropriate)

None Number of: Culverts = _____ Weirs = _____ Outfalls = _____ Fords = _____
 Footbridges = _____ Roadbridges = _____ Other = PIPELINE Z = _____

Is water level controlled by weir/dam downstream? No Part of site Mouth/bank of site

N EVIDENCE OF WELFLEET MANAGEMENT (Tick appropriate box)

draping moving Other? Size _____
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL

Waterfalls > 5m high FLOODPLAIN (50m corridor)
 Broad/wide channels Artificial open water Bog Other (state) _____
 Debris dams Natural open water Carr
 Leafy debris Water meadow Slack
 Flank

CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

NOTABLE NUISANCE PLANT SPECIES - list in E

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State _____

P ERIC DESCRIPTION (Use prompts and key words as appropriate)

Descriptive sentence: **STRAIGHTENED, EMBANKED RIVER, BUT CHANNEL UNMANAGED AND CHOKED WITH BURIED ETC - V. INTERESTING IN CONSERVATION TERMS, LIKE LINEAR REEF/SUMPT. DIRECTLY ON CHANNEL EDGE, RAFTS SITS BUT SOME RAFTS PRESENT**

Major impacts: **RAFTS SIMILAR LINE-ALIGNED SIMILAR**

Incidental observations (animals etc): _____

Q DISCARDED BARRIERS (Tick one box)

None Present Extensive Other discarded barrier? State _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WARRHAM, BIDE 4PB

NRA RIVER HABITAT SURVEY 1995 IF & P.A.A Page 1 of 4

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 7 Navigation 7

B FIELD SURVEY DETAILS

Reference network site number: 3569
 Mid-section grid reference of network site if different from designated location:
 Access device by farmer: V.S. 504282

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SJ 493283 River: RODENJ. IFE
 Date: 12.1.1995 Time: 11.10. AM
 Adverse conditions affecting survey? No Yes If yes, state: _____
 End of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) *with 1/2 m! ground*
 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 + narrow/steep stream
 concave/bowl

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10 tick indicate total number)

Riffles: _____ Unvegetated point bars: _____
 Pools: _____ Vegetated point bars: _____
 National Rivers Authority

ICES, head ground, water, ditch checks

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles (1-10)	Pools	Unvegetated point bars				Vegetated point bars				Total
		1	2	3	4	5	6	7	8	
E PHYSICAL ATTRIBUTES (Do be assessed across channel within a 1m wide zone) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)										
Spot check 1 is at upstream end of site (tick one)										
LEFT BANK <i>looking downstream</i>										
Bank material (one)	SE, SO, CO, CL, SL, PE, CL	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO, AL, JL, JC, M, W	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank feature(s)	NO, AL, JL, JC, M, W	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL NOTE: Use numbers 1-10 to indicate position of interest										
Channel substrate (one)	RY, SL, SO, CO, GP, SL, SL, CL	S1	S1	S1	SP	S1	S1	S1	SP	S1
Flow type (one)	FL, CH, PV, PV, CP, PV, PV, PV, PV	SU	SU	SU	SU	SU	SU	SU	SU	SU
Channel modification(s)	NO, AL, JL, JC, M, W	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO, AL, JL, JC, M, W	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK <i>looking upstream</i>										
Bank material (one)	SE, SO, CO, CL, SL, PE, CL	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification(s)	NO, AL, JL, JC, M, W	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO, AL, JL, JC, M, W	NO	NO	NO	NO	NO	NO	NO	NO	NO
F BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide stretch)										
Land use: choose one from SL, CP, SR, SC, SP, SL, OW, JO, JL, JU										
LAND USE WITHIN 5m OF BANKTOP (S)		IG	IG	IG	IG	IG	IG	IG	IG	IG
LEFT BANK-TOP (structure within 1m)	STRUCTURE	U	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure)	STRUCTURE	B	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure)	STRUCTURE	S	U	S	S	U	S	S	U	S
RIGHT BANK-TOP (structure within 1m)	STRUCTURE	S	S	U	S	U	S	S	U	S
LAND USE WITHIN 5m OF BANK TOP (S)		SC	BL	IG	IG	IG	IG	IG	IG	IG
G CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry per E (2-3% area) or 7 (green))										
NONE tick <i>Plant name (if any)</i>										
Liverwort moss/lichen										
Emergent broad-leaved plants										
Emergent reeds/straw/brakes										
Flowering-leaved plants (aquatic)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Filament, algae										

Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 100m (use E or 7)
 NOTES - Use tick boxes of Green = 10m, 20m, 30m + species if possible of Peter part of Peter system participant

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (2-3% banklength) or 7 if present)

	L	R		L	R
Broadleaved woodland (BL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/best-improved grass (IG)	E	E
Serb (SC)			Tiled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use E (2-3% banklength) or 7 if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undriven	2	2	Recessed		E
Vertical + toe	2	2	Reinforced - whole bank		2
Steep (>45°)	2	2	Reinforced - top only		2
Gentle	2	2	Reinforced - toe only		2
Composite	2	2	Artificial re-erected		2
			Replaced		E
			Embankment		2
			Set-back embankments		2

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES	Left	Right	WATER	ASSOCIATED FEATURES	None	Present	None	Present
Near	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Staking of channel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/scattered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Overhanging heights	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Regularly spaced, straight	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bankside roots	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Occasional clumps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Underwater tree roots	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Semi-continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fallen trees	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Coarse woody debris	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

None	Present	None	Present		
Waterfalls - freefall	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Marginal deadwater - slack	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cascades - close	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bedrock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Step-pool sequence	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed boulders	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rapid(s) - under-water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Riffle-pool sequence	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated mid-channel bars	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Runs(s) - disturbed, rippled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Status island(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Belt(s) - overlapping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated side bars	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Glide(s) - smooth, no eddies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Have you completed your expenses from this week? (and to FAD for signature)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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)	1.2	Water width (m)	2.0	Banktop height (m)	1.5
Embankment height (m)	0.4	Water depth (m)	0.4	Embankment height (m)	0.4

If threshold lower than banktop break in slope, indicate height (m) width (m)
 Bed material at site: consolidated (compact) unconsolidated (loose) unknown
 Location of measurement is: riffle run or glide other (tick one box) Slope (IFE only)

M ARTIFICIAL FEATURES (Use 1-10 tick indicate total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____
 Footbridges = _____ Roadbridges = _____ Obstructions = _____
 Is water level controlled by weirs/dams downstream? No Part of site Mouth of hole of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dragging moving Other? State _____
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate features)

CHANNEL: Waterfalls > 5m high Artificial open water Bog Other (state) _____
 Braided/side channels Natural open water Carr
 Debris dams Water meadow Marsh
 Lashy debris Fan Flush

P CHOKED CHANNEL (tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State *Nettles*

R BRIEF DESCRIPTION (Use prompt and 10 words at appropriate)

Descriptive notes: Lowland channel, S1 substr., laminar flow.
 Plants of note: (see list) Few trees LWS.
 Major conservation features: Good variety of channel microhabitats.
 Major impacts: RS LWS + poaching.
 Incidental observations (animals etc):
IFE channel very little altered
Aspera grandis, Brachycaea palustris.

S DISEASED ALDERS (tick one box)

None Present Extensive Other (diseased trees) State _____

SEND COMPLETED FORM TO: IULIEN DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WARHAM, BH20 0NN

NRA RIVER HABITAT SURVEY 1995: TEN POINT CHECKS Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site numbers: 3341
 Mid-section grid reference of network site (if different from designated location):

COMPLETE THE FOLLOWING FOR ALL SITES (FE) (VB)

Grid Reference: TLE59547 River: River
 Date: 23/6/1995 Time: 15:35
 Adverse conditions affecting survey? No Yes If yes, state:
 Bed of river visible? No partially entirely (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 numbers)

Riffles: Unvegetated point bars
 Pools: Vegetated point bars

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN POINT CHECKS Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 5m wide zone) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

Spot check 1 is at upstream end of section	2	3	4	5	6	7	8	9	10
LEFT BANK									
Bank material (fine)	10								
Bank modification	10								
Bank factors	10								
CHANNEL RIFLE									
Channel substrate (fine)	5	6	5						
Flow type (fine)	10								
Channel modification	10								
Channel factors	10								
RIGHT BANK									
Bank material (fine)	10								
Bank modification	10								
Bank factors	10								

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

Land use: choose one from TL, CL, VL, SL, PL, CL, PL, TL, PL

LAND USE WITHIN 5m OF BANKTOP (L)	TL	TL	TL	TL	TL	TL	TL	TL	TL
LEFT BANK TOP (structure within 5m)	5	5	5	5	5	5	5	5	5
LEFT BANK FACE (structure)	5	5	5	5	5	5	5	5	5
RIGHT BANK FACE (structure)	5	5	5	5	5	5	5	5	5
RIGHT BANK TOP (structure within 5m)	5	5	5	5	5	5	5	5	5

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry and E (to 10% area) or 0 (species))

NONE (tick)	None	None	None	None	None	None	None	None	None
Emergent									
Emergent broad									
Emergent herb									
Emergent reeds									
Emergent sedge									
Emergent grass									
Emergent sedge									
Emergent grass									
Emergent sedge									
Emergent grass									

Use end 'check-off' column for types not occurring in spot checks as well as overall assessment over 100m (use E or 0)

23/6/95 found ground visible

23/6/95 - The site is a...
 + species of... of the... of the...

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 3 of 4

H LAND USE WITHIN 5m OF BANKTOP (Use E (to 10% banktop) or 0 (species))

	L	R	L	R
Broadleaved woodland (BL)				
Coniferous plantation (CP)				
Moorland (MO)				
Scrub (SC)				
Rough pasture (RP)				

I BANK PROFILES (Use E (to 10% banktop) or 0 (species))

	L	R	L	R
Natural/unmodified				
Vertical/vertical				
Vertical + one				
Step (2-4)				
Gully				
Composite				

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per bank)	None	Left	Right	WATER	ASSOCIATED FEATURES (Tick one box per feature)	None	Present	E	WATER
None					Shading of channel				
Irregular scattered					Overhanging branches				
Regularly spaced, slight					Exposed bank-side roots				
Occasional clumps					Understorey tree roots				
Small scattered					Fallen trees				
Continuous					Coarse woody debris				

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

	None	Present	E	None	Present	E	None	Present	E
Waterfalls - freefall									
Waterfalls - stone									
Step-pool sequence									
Riffle-pool sequence									
Riffle-pool sequence									
Riffle-pool sequence									
Riffle-pool sequence									
Riffle-pool sequence									
Riffle-pool sequence									
Riffle-pool sequence									
Riffle-pool sequence									

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Bank top width (m)	6.25	RIGHT BANK
Bank top height (m)	1.25	Water width (m)	Bank top height (m)
Banked height (m)		Water depth (m)	Banked height (m)

M ARTIFICIAL FEATURES (Use E (to 10% banktop) or 0 (species))

None Number of Culverts = 1 Weirs = 0 Outfalls = 0 Ponds = 0
 Feeder ditches = 1
 Is water level controlled by weirs/dam structures? No Yes (tick one box)

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

grading mowing Other?
 weedcutting re-planting functional

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL FLOODPLAIN (50m radius)
 Waterfalls > 5m high Artificial open water Bog Other (specify)
 Eroded side channels Natural open water Cut
 Debris dams Water meadow Marsh
 Leafy debris Fen Flush

P CHOKED CHANNEL (tick one box)

Is 10% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (tick one box)

Giant Hogweed Mistletoe Japanese Knotweed Other? *Other? Sida*

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

Descriptive summary: Field margin ditch, 10m wide

S DISTURBED ALIENS (tick one box)

None Present Extensive Other (specify) *Sida*

SEND COMPLETED FORM TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOLE, WARHAM, ENGLAND

Have you completed your responses from this web? (Send E and PWD for signature!)

Envelope supplied! Post completed form for printing - labels supplied

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 3741
 Mid-section grid reference of network site if different from designated location: QA

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: TL 028847 River: LITTLE ROCK CREEK
 Date: 11/17/95 Time: 09:00 Surveyor name: MF

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 + notes / extra diagram

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-4 then indicate total number)

Riffles Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TERN SPOT CHECKS Page 2 of 4

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) (MMA method of 10 sites)

Mid. = Historical <input type="checkbox"/> = non entry only	1	2	3	4	5	6	7	8	9	10	AVG
LEFT BANK											
Mid. <input type="checkbox"/> 10, 20, 30, 40, 50, 60, 70, 80, 90, 100	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank modification(s) <input type="checkbox"/> NO, 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank feature(s) <input type="checkbox"/> NO, 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Channel <input type="checkbox"/> NO, 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Channel substrate <input type="checkbox"/> 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Flow type <input type="checkbox"/> 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Channel modification(s) <input type="checkbox"/> NO, 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Channel feature(s) <input type="checkbox"/> NO, 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
RIGHT BANK											
Mid. <input type="checkbox"/> 10, 20, 30, 40, 50, 60, 70, 80, 90, 100	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank modification(s) <input type="checkbox"/> NO, 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank feature(s) <input type="checkbox"/> NO, 10, 20, 30, 40, 50	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS

F BANKS OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide margin)

Land use: choose one from RL, CL, HL, SL, PL, CL, PL, CL, PL, CL, PL

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK TOP (structure within 1m) <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure) <input type="checkbox"/> 10, 20, 30, 40, 50	S	S	S	S	S	S	S	S	S	S	S
RIGHT BANK TOP (structure within 1m) <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure) <input type="checkbox"/> 10, 20, 30, 40, 50	S	S	S	S	S	S	S	S	S	S	S

LAND USE WITHIN 5m OF BANK TOP (R)

U	U	U	U	U	U	U	U	U	U	U	U
---	---	---	---	---	---	---	---	---	---	---	---

G CHANNEL VEGETATION TYPES (to be assessed across channel within a 1m wide zone)

NONE (tick as appropriate) <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Liverwort/moss/lichen <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Emergent broad-leaved herbs <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Emergent reeds/sedges/rushes <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Flowering leaved (river) <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Free-flowering <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Amphibious <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Submerged broad-leaved <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Submerged fine-leaved <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U
Filamentous algae <input type="checkbox"/> 10, 20, 30, 40, 50	U	U	U	U	U	U	U	U	U	U	U

Use the end 'overall' column for types not occurring in spot checks as well as overall assessment over 100m (see E or F)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (to 1/3 bank length) or if present

	L	R		L	R
Presettled woodland (RL)			Woodland (eg bog, scrub, fen) (RL)		
Creatures/planties (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 (to 1/3 bank length) or if present

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut			Functioned		
Vertical + toe			Reinforced - whole bank		
Steep (>45°)			Reinforced - top only		
Glide			Reinforced - toe only		
Composite			Artificial two-stage		
			Flushed		
			Embanked		
			Set-back embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None	<input type="checkbox"/>	<input checked="" type="checkbox"/>	E 2/3%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	Understore tree roots	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Coarse woody debris	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Waterfall(s) - free fall	None	Present	Marginal dead-water - silted	None	Present
Cascade(s) - chain	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Step/pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Rapid(s) - whitewater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Riffle/pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Race(s) - disturbed, rippled	<input type="checkbox"/>	<input type="checkbox"/>	Mature islands	<input type="checkbox"/>	<input type="checkbox"/>
Boil(s) - spilling	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>
Silt(s) - smooth, no eddies	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	1.5	RIGHT BANK	Banktop width (m)	1.5
Banktop height (m)	Water width (m)	1.0	Banktop height (m)	Water width (m)	1.5
Embankment height (m)	Water depth (m)	0.7	Embankment height (m)	Water depth (m)	0.7

If trapezoid lower than bank top break in slope, indicate: height (m) width (m)

Bed material at site is: consolidated (concrete) 20% or less unconsolidated (stone) unknown

Location of measurement is: riffle run or glide other (tick one box) Slope (1/E only)

M ARTIFICIAL FEATURES (Use 1-4 then indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Roadbridges = Outfalls = Ponds =

Is water level controlled by weir/dam downstream? No Part of site Most/whole of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

deadging moving Other ? Site

wind-eroding enhanced

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL

Waterfalls > 5m high FLOODPLAIN (50m corridor)

Artificial open water Bog Other (state)

Enriched/side channels Natural open water Carr

Debris dams Water meadow Marsh

Leafy debris Fen Flush

P CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use 1-4) NETTLE, RIGID STARWORT, BEANBLOSSOM

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? Site

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

Descriptive statement: 1.5m wide, dry at this survey

Plants of note: Agrostis sp. etc.

Major conservation features: some silt bridge forming at water's edge

Major impacts: RS banks

Incidental observations (animals etc): small area of self-sowing (20%)

S DISTURBED AREAS (tick one box)

None Present Extensive Other (describe) Site

SEND COMPLETED FORM TO HUGH DAWSON, IFR, RIVER LABORATORY, EAST STOK, WAREHAM, BH20 4RB

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: 3T42
 Mid-section grid reference of network site if different from designated location: Applon

COMPLETE THE FOLLOWING FOR ALL SITES JL DH (HCC ML)

Grid Reference: _____ River: _____
 Date: 11/15/95 Time: 0.15 h. Supervisor name: TB, TM, CM, LAK, T, W
 Adverse conditions affecting survey? No Yes If yes, state: _____
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) 5-10 1/2 m
 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 + NATURAL CHANNEL

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1/4 then indicate total number)

Riffles Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

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

Point bar	1	2	3	4	5	6	7	8	9	10
Bank profile (m)										
Bank factor(s)										
Channel width (m)										
Channel substrate (m)										
Flow type (m/s)										
Channel modification(s)										
Channel feature(s)										
RIGHT BANK										
Bank profile (m)										
Bank factor(s)										

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

Land use: choose one from BL, CL, DL, EL, FL, GL, HL, IL, JL, KL, LL

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK TOP (structure within 1m) EL2C
 LEFT BANK FACE (structure) EL2C
 RIGHT BANK FACE (structure) EL2C
 RIGHT BANK TOP (structure within 1m) EL2C

LAND USE WITHIN 5m OF BANK TOP (R)

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one crop: use E (to 35% area) or F (percent))

None (tick)	Plant species (tick one)									
Emergent broad leaved herbs										
Emergent narrow leaved herbs										
Emergent broad leaved shrubs										
Emergent narrow leaved shrubs										
Emergent broad leaved trees										
Emergent narrow leaved trees										
Free-floating										
Amphibious										
Submerged broad leaved										
Submerged narrow leaved										
Submerged algae										

Use red 'x' or 'y' column for types not occurring in spot checks as well as overall assessment over 100m (use E or F)
 E/F/T/S = Use 1/4 in left of column for 1m x 1m vegetation + species if possible - eg. 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4

DATE: 11/15/95

Use red 'x' or 'y' column for types not occurring in spot checks as well as overall assessment over 100m (use E or F)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP MAP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use 1/4 then indicate total number)

	L	R		L	R
Forest/woodland (FL)			Wetland (eg bog, marsh, fen) (W)		
Cereals/grasses (C)			Open water (O)		
Meadow/bush (M)			Improved/unimproved grass (G)		
Stock (S)			Tidal land (T)		
Rough pasture (P)			Suburban/urban development (U)		

I BANK PROFILES (Use 1/4 then indicate total number)

	L	R		L	R
Natural/unmodified			Artificial/modified		
Vertical/undercut			Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (2:1)			Reinforced - top only		
Grades			Reinforced - toe only		
Composite			Artificial two-stage		
			Trashed		
			Embanked		
			Set-back embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per feature)	None	Left	Right	MIXED	ASSOCIATED FEATURES (Tick one box per feature)	None	Present	E	MIXED
None	<input checked="" type="checkbox"/>				Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>		
Isolated/battered	<input type="checkbox"/>	<input checked="" type="checkbox"/>			Overhanging branches	<input type="checkbox"/>	<input type="checkbox"/>		
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>		
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>		
Small/occasional	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>		
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cross woody debris	<input type="checkbox"/>	<input type="checkbox"/>		

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

	None	Present	E	MIXED
Waterfalls > 5m high	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposed bank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposed bankside	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposed bankside	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marsh islands	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Bank top width (m)	RIGHT BANK
Bank top height (m)	<u>0.7</u>	Bank top height (m)
Banked height (m)	<u>0.7</u>	Banked height (m)
Water width (m)	<u>2.5</u>	Water depth (m)
Water depth (m)	<u>0.2</u>	Embanked height (m)

If water level is above bank top, indicate height (m) width (m)

Bed material at site is: consolidated (rock) unconsolidated (sand) unknown

Location of measurement is: riffle run or glide other (tick one box) Slope (H/E only)

M ARTIFICIAL FEATURES (Use 1/4 then indicate total number, tick "none" where appropriate)

None Number of Culverts = _____ Weirs = _____ Orillies = _____ Fords = _____
 Footbridges = _____ Road bridges = _____ Other = _____
 Is water level controlled by weir/dam/drop structure? No Yes Part of site Street/wharf of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

Grading mowing Other? State: _____
 Weeding enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate feature)

CHANNEL: Waterfalls > 5m high Artificial open water Bog Other (tick) _____
 Embankment channels Natural open water Cut
 Dams/dams Water meadows Marsh
 Leafy debris Fern Flank

P CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE SWAMPY PLANT SPECIES (Use 1/4 then indicate total number)

Glac Hesperis Himalayan Balsam Japanese Knotweed Other? State: _____

R ERIC DESCRIPTION (Use names and key words as appropriate)

Descriptive notes: Channel is 2.5m wide, 0.2m deep, with a 0.7m high bank. The water is clear and the bed is sand. There are some fallen trees and debris in the channel.

Major constraints features: None

Major impacts: None

Incidental observations (animals etc): None

S DISEASED ALDERS (Tick one box)

None Present Extensive Other (describe) State: _____

Have you completed your responses for this week? (Send to PWD for signature!)

SEND COMPLETED FORMS TO HUGH DANSON, IFE, RIVER LABORATORY, EAST STAKE, WAREHAM, DORSET

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: 3742
 Mid-section grid reference of network site if different from designated location: RA

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: TL 195825 River: 195825 ?
 Date: 5/1/1995 Time: 12:30 Surveyor name: 7B, 7H, PH, 16 AK, 20W
 Adverse conditions affecting survey? No Yes If yes, state: 6C MLY NO 16 PVD

Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) with 50m by 50m
 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
 contave/bowl + notes/mk. diagram

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-4 then indicate total number)

Riffles: _____ Unvegetated point bars: _____
 Pools: _____ Vegetated point bars: _____

National River Authority

DATES: found ground water water table

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 5m wide zone) (tick one box)

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

Channel substrate (fine)	Channel substrate (medium)	Channel substrate (coarse)	Channel substrate (rock)	Channel substrate (shell)	Channel substrate (plant)	Channel substrate (other)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Land use: choose one from SL, CL, SW, SC, SP, SL, SW, SL, SL

Land use	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 5m)										
LEFT BANK FACE (structure)										
RIGHT BANK TOP (structure within 5m)										
RIGHT BANK FACE (structure)										

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry; use E (in 33% area) or 4 (spread))

None (tick)	Plant genus (tick one)	1	2	3	4	5	6	7	8	9	10
<input type="checkbox"/>	<input type="checkbox"/>										

Use end of each column for types not occurring in spot checks as well as overall assessment over 500m (use E or 4)

LEAF LITTER - tick in relevant boxes with one entry; use E (in 33% area) or 4 (spread)
 + species if possible of leaf litter + botanical percentage

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (in 33% banklength) or 4 if present)

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

I BANK PROFILES (Use E (in 33% banklength) or 4 if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Retained		
Vertical + toe			Reinforced - whole bank		
Step (> 45°)			Reinforced - top only		
Grade			Reinforced - toe only		
Composite			Artificial toe steps		
Use this space to draw profile of channel from above, show (tick) predominant bed					

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per tree)	None	Present	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/retained	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, slight	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clump	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>
Scrub/scrubland	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>

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

	None	Present		None	Present
Waterfalls - freefall	<input type="checkbox"/>	<input type="checkbox"/>	Marginal dead-water - slack	<input type="checkbox"/>	<input type="checkbox"/>
Cascades - chute	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Step-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Rapid(s) - shallowwater	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Runs(s) - disturbed, rippled	<input type="checkbox"/>	<input type="checkbox"/>	Mature islands	<input type="checkbox"/>	<input type="checkbox"/>
Rails(s) - spoolings	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>
Glide(s) - smooth, no eddies	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>

Have you completed your responses from this web? (send G & PVD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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)	<u>19.0</u>	Banktop height (m)
Banktop height (m)	<u>4.0</u>	Banktop height (m)
Banktop height (m)	<u>4.0</u>	Banktop height (m)
Banktop height (m)	<u>4.0</u>	Banktop height (m)

M ARTIFICIAL FEATURES (Use 1-4 indicate total number, tick "none" where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____
 Footbridges = _____ Other = _____
 Is water level controlled by weir/dam/dw/structure? No Part of site Mouth/hole of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

deadling mowing Other? State: _____
 weed-eating enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL: Waterfalls > 5m high Floodplain (50m corridor): Artificial open water Beg Other (state): _____
 Brided/side channels Natural open water Carr
 Debris dams Water meadow Marsh
 Leafy debris Fin Fluck

P CHOKED CHANNEL (tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use 1-4)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: _____

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

Descriptive sentence: Uniform straight channel - still substrate
 Plant of note: Little water at low flow, (some algae)
 Major conservation features: ISB (LWS) some old RI (banks) in use
 Major impacts: set back SW (LWS)
 Incidental observations (animals etc): set back SW (LWS) Crithidia crotchi

S DISEASED ALDERS (tick one box)

None Present Extensive Other diseased trees? State: _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WARRHAM, BH20 6BB

Envelopes supplied! Post completed files for printing - labels supplied

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/m) Flow category (1-10)
Solid geology code Drift geology code Platform category
Distance from source (km) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 3584
Mid-section grid reference of network site if different from designated location:
COMPLETE THE FOLLOWING FOR ALL SITES
Grid Reference: SN 558 493 River: 16/07 NRA
Date: 7/11/1995 Time: 16:20 Surveyor name: N. G. ...
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 1-10 then indicate total number)

Riffles 11 (6) Unvegetated point bars 0
Pools 11 (2) Vegetated point bars 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 10m wide zone)

Stat. = channel ? = one entry only	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Stat. # <u>10 11 12 13 14 15 16 17 18 19 20</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Bank modification(s)	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Bank features	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
CHANNEL										
Channel substrate # <u>1 2 3 4 5 6 7 8 9 10</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Flow type # <u>1 2 3 4 5 6 7 8 9 10</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Channel modification(s)	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Channel features	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
RIGHT BANK										
Stat. # <u>21 22 23 24 25 26 27 28 29 30</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Bank modification(s)	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Bank features	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>

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

Land use: choose one from PL, CR, SH, R, SP, M, CR, AG, TL, BU

LAND USE WITHIN 5m OF BANKTOP (L)	PL	CR	SH	R	SP	M	CR	AG	TL	BU
LEFT BANK-TOP (structure within 5m)	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
LEFT BANK FACE (structure)	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
RIGHT BANK-TOP (structure within 5m)	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
RIGHT BANK FACE (structure)	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
LAND USE WITHIN 5m OF BANK TOP (R)	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>

G CHANNEL VEGETATION TYPES (to be assessed across channel within a 10m wide transect)

Channel vegetation types (to be assessed across channel within a 10m wide transect)	1	2	3	4	5	6	7	8	9	10
NONE (tick as appropriate)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Liverworts/mosses/lichens	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Emergent broad-leaved herbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Emergent narrow-leaved herbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Flowering leaved (perennial)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tree flowering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Asphyxiated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Submerged broad-leaved	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Submerged fine-leaved	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Submerged algae	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

The end 'tick-all' column for type not occurring in spot checks as well as overall assessment over 100m (see E. v. 1)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (in 25% banktop) or if present)

	L	R	L	R
Broadleaved woodland (B1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Coniferous plantation (C1)				
Meadow/grass (M1)				
Straw (S1)	<input checked="" type="checkbox"/>			
Frough pasture (F1)	<input checked="" type="checkbox"/>			

I BANK PROFILES (Use E (in 25% banktop) or if present)

	L	R	Artificial/modified	L	R
Natural/unmodified	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Vertical/cutbank	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Vertical 4 line	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Slope (>45°)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Gentle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Composite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	None	Left	Right	E ≥ 25%	None	Present	E
Included/excluded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-confused	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confused	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

	None	Present	E	None	Present	E
Waterfalls - freefall	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carapaces - close	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Step-pool sequence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rapids - whitewater	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rapids - pool sequence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rapids - dammed, stepped	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rapids - spreading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gulches - smooth, no eddies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Fastway width (m)	RIGHT BANK
Bank top height (m)	<u>2</u>	<u>2</u>
Bank height (m)	<u>2.5</u>	<u>2</u>
Embankment height (m)	<u>0.1</u>	<u>0.1</u>

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

Bed material at site: consolidated (temp) unconsolidated (fine) unknown
Tilted bed (TL)

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

M ARTIFICIAL FEATURES (Use 1-10 then indicate total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____ Folds = _____
Footbridges = _____ Roadbridges = _____ Other = _____
Is water level controlled by weir/dam downstream? No Part of site Mouth of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

digging mowing Other ? None
weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Embanked side channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Ditch dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>
Leafy debris <input type="checkbox"/>	Fen <input type="checkbox"/>
	Bag <input type="checkbox"/>
	Clare <input type="checkbox"/>
	Mark <input type="checkbox"/>
	Flank <input type="checkbox"/>

P CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use 1-10 then indicate total number)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? None

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

Descriptive notes: Very good (100% on LB, RB) bank on right
Major conservation features: Excellent site: habitat
Major impacts:
Incidental observations (animal etc): otter sign

S DISEASED ALIENS (Tick one box)

None Present Extensive Other (name tree) None

SEND COMPLETED FORM TO HUGH DANSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

NRA RIVER HABITAT SURVEY 1995 1/6 P. 1 of 4 Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: 3554
 Mid-section grid reference of network site if different from designated location: CA

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: JL DH IH CC ML
 River: IRFON
 Date: 14/11/1995 Time: 08:10 Surveyor name: GC MLK WS
 Adverse conditions affecting survey? No Yes If yes, state: None
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) 5/15/10
 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 + river/mh > channel

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use [1-4] then indicate total number)

Riffles: 3 Unvegetated point bars: 0
 Pools: 2 Vegetated point bars: 0

National Rivers Authority

J.P.E.S. heard
 J.P.E.S. heard
 J.P.E.S. heard
 J.P.E.S. heard

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles Unvegetated point bars Vegetated point bars

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 10m wide transect) (Mark 1-10) (tick one box)

Spot check 1 is at upstream end of site
 Spot check 2 is at downstream end of site

	1	2	3	4	5	6	7	8	9	10	Nil
LEFT BANK (tick one)											
Mat. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
Bank modification(s) <input checked="" type="checkbox"/> NO, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
Bank feature(s) <input checked="" type="checkbox"/> NO, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
CHANNEL NOTE: <u>Use one box per spot</u>											
Channel substrate (mat) 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
Flow type (mat) 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
Channel modification(s) <input checked="" type="checkbox"/> NO, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
Channel feature(s) <input checked="" type="checkbox"/> NO, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
RIGHT BANK (tick one)											
Mat. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
Bank modification(s) <input checked="" type="checkbox"/> NO, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											
Bank feature(s) <input checked="" type="checkbox"/> NO, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30											

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

Land use choice one from 1L, 1R, 2L, 2R, 3L, 3R, 4L, 4R, 5L, 5R

	1L	1R	2L	2R	3L	3R	4L	4R	5L	5R
LAND USE WITHIN 5m OF BANKTOP (L)										
LEFT BANK TOP (structure within 1m) 1L, 2L, 3L, 4L, 5L										
LEFT BANK FACE (structure) 1L, 2L, 3L, 4L, 5L										
RIGHT BANK TOP (structure within 1m) 1R, 2R, 3R, 4R, 5R										
RIGHT BANK FACE (structure) 1R, 2R, 3R, 4R, 5R										
LAND USE WITHIN 5m OF BANK TOP (R)										

G CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry use E (in 10% area) or 4 (percent))

	1	2	3	4	5	6	7	8	9	10
NONE (tick)										
Emergent broad leaved herbs										
Emergent reeds										
Flowering leaved (perennial)										
Free-floating										
Amphibious										
Submerged										
Submerged fine leaved										
Filament, algae										

Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over (use E or 4)

NOTES: Use 1-4 to describe % cover of beds, vegetation + species if possible of both part of Potamogeton perfoliatus

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (in 10% banklength) or 4 if present)

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

I BANK PROFILES (Use E (in 10% banklength) or 4 if present)

	L	R	L	R
Natural/unmodified				
Artificial/unmodified				
Vertical undercut				
Reinforced				
Vertical + toe				
Reinforced - whole bank				
Steep (>45°)				
Reinforced - top only				
Gentle				
Reinforced - toe only				
Composite				
Artificial two-stage				
Use this space to draw profile if different from above, else tick predominant box				
Preached				
Embanked				
Set-back embankments				

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	None	Left	Right	None	Present E	None	Present E	None	Present E	None	Present E
None											
Isolated/scattered											
Regularly spaced, single											
Occasional clumps											
Semi-continuous											
Continuous											
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	None	Present E
Waterfalls - free fall						
Waterfalls - chute						
Step-pool sequence						
Rapids - whitewater						
Riffle-pool sequence						
Runs - disturbed, rippled						
Bells - upwelling						
Gills - smooth, no eddies						
Marginal deadwater - slack						
Exposed bedrock						
Exposed boulders						
Unvegetated mid-channel bars						
Vegetated mid-channel bars						
Marsh island(s)						
Unvegetated side bars						
Vegetated side bars						

Have you completed your expenses from this work? (and 6 PND for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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)	<u>1.5</u>	Banktop height (m)
Banktop height (m)	<u>1.5</u>	Banktop height (m)
Water width (m)	<u>10.5</u>	Water width (m)
Water depth (m)	<u>0.2</u>	Water depth (m)
Bank height (m)	<u>1.5</u>	Bank height (m)
Bank height (m)	<u>1.5</u>	Bank height (m)

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

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

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

M ARTIFICIAL FEATURES (Use [1-4] indicate total number, tick 'none' where appropriate)

None Number of Culverts = 0 Weirs = 0 Roadbridges = 0 Outfalls = 0 Fords = 0

Is water level controlled by weir/dam downstream? No Part of site Mouth of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

digging moving Other? State None
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL: Waterfalls > 5m high Artificial open water Beg Other (tick) None
 Braided/side channels Natural open water Carr None
 Debris dams Water meadow Marsh None
 Loose debris Fern Flunk

P CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use E or 4)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State None

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

Descriptive sentence: Flow in a narrow channel - steep valley.
 Photo of note: Flow in a narrow channel - steep valley.
 Major conservation features: lots of moss
 Major impacts: Flow in a narrow channel - steep valley.
 Incidental observations (animals etc): Flow in a narrow channel - steep valley.

S DISPERSED ALDERS (Tick one box)

New Present Extensive Other dispersed trees State None

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STAKE, WARKHAM, ENGLAND

Expenses supplied! Post completed form for processing - delays supplied stamps

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? Navigation?

B. FIELD SURVEY DETAILS

Reference network site number: 3956
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: T1555360 River: Pant/Colae
 Date: 18.5.1995 Time: 11.15
 Adverse conditions affecting survey? No Yes if yes, state: _____
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) *see sketch on 1!*
 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 + notes on sketch

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Riffles: 30 Unvegetated point bars: 8
 Pools: 9 Vegetated point bars: _____

IFB = 100 - (Sum of riffles + pools)

Natural Rivers Authority

E. SPOT CHECKS (to be assessed across channel within a 1m wide strip)

Spot check 1 to 10	1	2	3	4	5	6	7	8	9	10
Bank material (m)	GS	CA	CA	EA	FA	FA	FA	FA	FA	FA
Bank modification	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features	NO	SC	SC	SC	SC	SC	SC	SC	SC	SC

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

Land use: choose one from PL, CR, OR, SC, SL, VL, GR, M, TL, UV

LAND USE WITHIN 5m OF BANKTOP (L)	PL	CR	OR	SC	SL	VL	GR	M	TL	UV
LEFT BANK-TOP (structure within 2m)	U	U	S	U	S	H	S	S	U	S
RIGHT BANK-TOP (structure within 2m)	U	U	S	S	S	S	H	S	S	S
LEFT BANK FACE (structure)	U	U	S	S	S	S	H	S	S	S
RIGHT BANK FACE (structure)	U	U	S	S	S	S	H	S	S	S
LEFT BANK-TOP (structure within 2m)	U	U	S	S	S	S	H	S	S	S
RIGHT BANK-TOP (structure within 2m)	U	U	S	S	S	S	H	S	S	S
LAND USE WITHIN 5m OF BANK TOP (R)	PL	CR	OR	SC	SL	VL	GR	M	TL	UV

G. CHANNEL VEGETATION TYPES (tick in relevant boxes with one code per 10% area or if dominant)

NONE (tick)	Plantgreen (tick)									
Invasive										
Emergent broad										
Emergent narrow										
Emergent sedge										
Emergent grass										
Emergent sedge										
Emergent grass										
Free-floating										
Amphibious										
Schmoozed										
Submerged fine										
Submerged algae										

Use the end 'catch all' column for types not occurring in spot checks as well as overall assessment over 100m (see E or F)

DATE: 18.5.1995

DATE: 18.5.1995

3956

I. LAND USE WITHIN 50m OF BANKTOP (Use 1-10 throughout) or if present

Broadleaved woodland (BL)			Wood (eg bog, marsh, fen) (W)		
Ceriferous grassland (CG)			Open water (OW)		
Moored bank (MB)			Improved/semi-improved grass (IG)		
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

J. BANK PROFILES (Use 1-10 throughout) or if present

Natural/unmodified			Artificial/modified		
Vertical/undercut			Raised/level		
Vertical + toe			Reinforced - whole bank		
Slope (>45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial re-steps		
Use this space to draw profile if different from above, show in the predominant tree			Perched		
			Embedded		
			Set-back embankment		

K. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per tree)	None	Left	Right	Wedge	E 2:35%	None	Present	E	W 2:35%
None									
Isolated/straggled									
Regularly spaced, single									
Occasional clumps									
Scal-coniferous									
Coniferous									

L. EXTENT OF CHANNEL FEATURES (Tick one box per feature)

Waterfall(s) - free-fall			Marginal deadwater - slack						
Causes(s) - stone			Exposed bedrock						
Step-pool sequence			Exposed boulders						
Rapid(s) - shallow			Unvegetated mid-channel bars						
Riffle-pool sequence			Vegetated mid-channel bars						
Pool(s) - disturbed, rippled			Strom holes(s)						
Bank(s) - overhanging			Unvegetated side bars						
Grill(s) - smooth, no adfies			Vegetated side bars						

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	4.75	RIGHT BANK	
Banktop height (m)	Water width (m)	1.9	Banktop height (m)	1.5
Embankment height (m)	Water depth (m)	0.05	Embankment height (m)	

If water level lower than banktop back in slope, indicate height (m) 2 width (m)

Bed material at site is: consolidated (temp) unconsolidated (fine) volcanic

Location of measurement is: riffle run or glide other (tick one box) Slope (1/E end)

M. ARTIFICIAL FEATURES (Use 1-10 throughout) or if present

None Number of Culverts = _____ Weirs = _____ Outfalls = _____ Fords = _____
 Footbridges = _____ Part of site Stone/brick hole at site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

digging mowing Other? Sole _____
 weed-killing enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate box)

CHANNEL: Waterfalls > 2m high Artificial open water Bog Other (state) _____
 Bankside (silt) Natural open water Carr
 Debris dams Water meadow Marsh
 Leafy debris Fen Flush

P. CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use 1-10 throughout) or if present

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Sole _____

R. BRIEF DESCRIPTION (Use prompts and key words as appropriate) (Use 1-10 throughout)

Descriptive sentence: Long established channel beside a long drive road, deep channel
 Plants of note: _____
 Major conservation features: Mature trees
 Major impacts: Load drains from unknown agricultural field
 Incidental observations (animals etc): _____

IFB = 100 - (Sum of riffles + pools)

S. DISCLOSED MATERIALS (Tick one box)

None Present Extensive Other (state) Sole _____

SEND COMPLETED FORM TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOLE, WAKEHAM, BN16 6B

Envelopes supplied! Post completed forms for processing - clearly marked envelopes

Have you completed your enquiries from this week? (send to post for signature!)

NRA RIVER HABITAT SURVEY 1995: IFE - M-1 A Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source(km) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 3956
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: TL585360 River: part / Colne
 Date 16.1.95 Time: 16:20 Surveyor name: GC
 Adverse conditions affecting survey? No Yes If yes, state
 Bed of river visible? No partially entirely (tick one box)
 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 + notes/extra diagrams
 concave/bowl

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

Riffles Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

Notes: heard ground elevated relative channels

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (tick one box per column)

Spot check 1 is at: upstream end of site (tick one)	1	2	3	4	5	6	7	8	9	10
LEFT BANK	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank material (one)	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL NOTE	Use separate sheet for notes									
Channel substrate (one)	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
Flow type (one)	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank material (one)	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from RL, CL, HL, SC, AP, PL, OW, AG, RL, SU

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

G CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry; use E (≥ 33% area) or U (green))

NONE (tick)	<input checked="" type="checkbox"/>
Invernal mosses/liches	<input type="checkbox"/>
Emergent broad leaved herbs	<input type="checkbox"/>
Emergent reeds/rushes	<input type="checkbox"/>
Flowering-leaved (noted)	<input type="checkbox"/>
Free-floating	<input checked="" type="checkbox"/>
Amphibious	<input type="checkbox"/>
Submerged broad-leaved	<input checked="" type="checkbox"/>
Submerged fine-leaved	<input checked="" type="checkbox"/>
Filamentous algae	<input checked="" type="checkbox"/>

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

Notes: Use tick boxes of greens + species of possible + note part a Potamogeton pastures

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

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

	L	R	L	R
Broadleaved woodland (BL)	<input checked="" type="checkbox"/>			
Coniferous plantation (CP)				
Moorland/heath (MH)				
Scrub (SC)				
Rough pasture (RP)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

I BANK PROFILES (Use E (≥ 33% banklength) or U if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Recessed		
Vertical + toe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - whole bank		
Sloped (> 45°)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - top only		
Geotile	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - toe only		
Composite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Artificial two-stage		
Use this space to draw profile if E from above, after taking predetermined box	<input checked="" type="checkbox"/> Poured <input checked="" type="checkbox"/> Embankment <input checked="" type="checkbox"/> Soil-bank embankment				

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per bank)

None	Left	Right	WATER	E ≥ 33%	None	Present	E	WATER
Isolated/scattered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>						
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>						
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>						
Continuous	<input type="checkbox"/>	<input type="checkbox"/>						

ASSOCIATED FEATURES (Tick one box per feature)

Staging of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overhanging boughs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Exposed bankside roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Underwater tree roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Coarse woody debris	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Waterfall(s) - free-fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - slack	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cascade(s) - chute	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Step/pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rapid(s) - whitewater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ruin(s) - disturbed, rippled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolt(s) - swellings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Glides(s) - smooth, no eddies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Have you completed your exposure from this week? (send to FWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>4.10</u>	RIGHT BANK		
Banktop height (m)	<u>0.15</u>	Water width (m)	<u>1</u>	Banktop height (m)	<u>0.5</u>
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: consolidated (compact) unconsolidated (loose) unknown

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

M ARTIFICIAL FEATURES (Use IFE to indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Roadbridges = Outfalls = Fords =
 Footbridges = Oars =
 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? Site Artificial fish refuges (see photo)

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

CHANNEL	Waterfalls > 5m high	<input type="checkbox"/>	FLOODPLAIN (50m corridor)	Artificial open water	<input type="checkbox"/>	Bog	<input type="checkbox"/>	Other (state)
Braided/side channels	<input type="checkbox"/>	Natural open water	<input type="checkbox"/>	Cur	<input type="checkbox"/>			
Debris dams	<input type="checkbox"/>	Water meadow	<input type="checkbox"/>	Marsh	<input type="checkbox"/>			
Leafy debris	<input type="checkbox"/>	Fen	<input type="checkbox"/>	Flint	<input type="checkbox"/>			

P CHOTED CHANNEL (Tick one box)

Is 33% or more of the channel choked with vegetation? No Yes

Q NOTABLE NUISANCE PLANT SPECIES (Use I or E)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State

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

Descriptive notes: Meandering river running through parkland. Managed for trout

Plants of note:

Major conservation features:

Major impacts: fish refuges for trout creating side bars and deadwater

Incidental observations (animals) etc:

IFE checked by letter B filled

S DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STAKE, WAREHAM, B120 6BB

Envelopes supplied! Post completed forms for printing - labels supplied on site

NRA RIVER HABITAT SURVEY 1995 (1A) P. 1 of 4

A BACKGROUND MAP-BASED INFORMATION:

Altitude(m) _____ Slope (m/km) _____ Flow category (1-10) _____
 Solid geology code _____ Drift geology code _____ Platform category _____
 Distance from source(km) _____ Significant tributary? _____ Navigation? _____

B FIELD SURVEY DETAILS:

Reference network site number: 3959
 Mid-section grid reference of network site if different from designated location: _____

COMPLETE THE FOLLOWING FOR ALL SITES:

Grid Reference: TLV16216 River: BULLCAMP CREEK
 Date: 21/1/1995 Time: 14:00 Survey name: TLV16216
 Adverse conditions affecting survey? No Yes If yes, state: _____
 End of river visible? No partially entirely (tick one box)
 She surveyed from: left bank right bank channel (tick as appropriate)

C PREDOMINANT VALLEY FORM (tick one box only)

shallow vee irregular valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 concave bowl + some/pole down

D NUMBER OF RIFLES, POOLS AND MOUNT BASS (use 1-10 tick in the or total number)

Rifles: 7 Mount bass: 3
 Pools: 4 Vegetated pool bars: _____

Site: TLV16216 National River Authority: _____

NRA RIVER HABITAT SURVEY 1995, TEN SPOT CHECKS Page 2 of 4

Field No: 11 Reach: 111 Unvegetated pool bar: 11 Vegetated pool bar: _____

L CHANNEL CHARACTERISTICS (to be completed at one the one straight section, preferably across a riffle)

Spot	1	2	3	4	5	6	7	8	9	10
Left bank (m)	12	11	11	11	11	11	11	11	11	11
Right bank (m)	12	11	11	11	11	11	11	11	11	11
Channel width (m)	12	11	11	11	11	11	11	11	11	11
Flow type (m)	12	11	11	11	11	11	11	11	11	11
Channel bank (m)	12	11	11	11	11	11	11	11	11	11

F TRANSITION LAND USE AND VEGETATION STRIP TO E (go to second row if the width is less than 10m)

Land use	1	2	3	4	5	6	7	8	9	10
Left bank face (m)	12	11	11	11	11	11	11	11	11	11
Right bank face (m)	12	11	11	11	11	11	11	11	11	11
Left bank toe (m)	12	11	11	11	11	11	11	11	11	11
Right bank toe (m)	12	11	11	11	11	11	11	11	11	11

G CHANNEL VEGETATION (tick in both columns with one tick in the 10% width of stream)

Species	1	2	3	4	5	6	7	8	9	10
None										
...										

Use of '1' tick in both columns for species not recorded in spot checks as well as overall presence over the 10m line F or G.

NRA RIVER HABITAT SURVEY 1995 (200m SWEEP-UP) Page 3 of 4

H LAND USE WITHIN 10m OF BANKTOP (The L in 10% banktop is of stream)

Land use	L	R	L	R
Woodland (deciduous)				
Woodland (coniferous)				
Open water				
Impervious/semi-impervious ground				
Tilled soil				
Substratum (rock)				

I BANK PROFILES (Use E in 10% banktop if appropriate)

Profile	L	R	L	R
Natural/unmodified				
Vertical erosion				
Vertical flow				
Scarp (D-40)				
Graze				
Composite				

J LATEST OF BANKS AND ASSOCIATED FEATURES

Bank	Left	Right	Associated Features	Present	Not Present
Non			Shifting of channel		
Inland/terrestrial			Overlapping banks		
Regularly spaced, single			Exposed bank side roots		
Overlaid change			Underwater tree roots		
Scrub/shrub			Fallen trees		
Grass			Some woody debris		

K EFFECTS OF CHANNEL FEATURES (tick one box per feature)

Feature	Present	Not Present
Waterfall - overfall		
Waterfall - slide		
Scraped/eroded		
Point bar - alluvium		
Point bar - gravel		
Point bar - silt/clay		
Point bar - organic		
Point bar - mixed		
Point bar - other		
Point bar - other		

NRA RIVER HABITAT SURVEY 1995 DIMENSIONS AND INFLUENCES Page 4 of 4

L CHANNEL DIMENSIONS (to be completed at one the one straight section, preferably across a riffle)

Left bank (m)	15	Right bank (m)	15
Banking height (m)	15	Banking height (m)	175
Banked height (m)	15	Banked height (m)	175
Banking lower than banking level in slope, distance (m)	175	Banking (m)	175

M ARTIFICIAL FEATURES (tick in both columns with one tick where appropriate)

Feature	Present	Not Present
Structure		
...		

N INFLUENCE OF BANK INSTABILITY (tick appropriate box)

Banking erosion Other? State: _____
 Undercutting embankment

O FEATURES OF SPECIAL INTEREST (tick appropriate box)

Feature	Present	Not Present
Channel		
...		

P CHANNEL CHANNEL (tick one box)

Is 25% or more of the channel bed with vegetation? NO YES

Q NOTABLE SUBSTRATE PLANT SPECIES (tick one box)

Other? State: _____

R FREE DRIFT DEPOSITION (tick appropriate box)

Describe substrate: barbed wire, wood on right bank

Plant of note: extensive willow woodland

Other? State: _____

Have you completed your response for this reach? (tick G P Q for signature!)

Have you completed your response for this reach? (tick G P Q for signature!)

NRA RIVER HABITAT SURVEY 1995 178.0-1.1 Page 1 of 4

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 numbers: 3959

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

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River: Beldump Brook/Sluic

Date: 14.1.1995 Time: 15.25 Surveyor name: C.C. M.L.V. No. 126

Adverse conditions affecting survey? No Yes If yes, state: _____

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

Photographs: general character? No Yes (tick one box) Site 126

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 + notes/other diagrams

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1/2 then indicate total number)

Riffles Unvegetated point bars

Pools Vegetated point bars

DATES: record prepared validated checked

NRA RIVER HABITAT SURVEY 1995 178.0-1.1 Page 1 of 4

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

Spot check 1 is at: upstream end of site (tick one) 1 2 3 4 5 6 7 8 9 10

LEFT BANK looking downstream

Bank material (four) BE, SO, CO, CL, LA, PE, CL FA FA FA FA FA FA FA FA FA FA

Bank modifications (two) NO, AL, N, PC, M, L, M RS RS RS RS RS RS RS RS RS RS

Bank features (six) AK, NO, JC, SC, FR, VP, SH, VE FM FM FM FM FM FM FM FM FM FM

CHANNEL NOTE: Use same form as above for adjacent sites

Channel substrate (one) BE, SO, CO, CL, LA, PE, CL SA SA SA SA SA SA SA SA SA SA

Flow type (one) IF, CH, SW, VM, CL, AP, M, BI, CL, LA SM MP LP NP NP NP NP NP NP NP NP

Channel modification (one) AK, NO, JC, SC, FR, VP, SH, VE NO NO NO NO NO NO NO NO NO NO

Channel feature (one) NO, SO, AL, VP, SH, VE NO NO NO NO NO NO NO NO NO NO

RIGHT BANK looking downstream

Bank material (four) BE, SO, CO, CL, LA, PE, CL FA FA FA FA FA FA FA FA FA FA

Bank modifications (two) NO, AL, N, PC, M, L, M RS RS RS RS RS RS RS RS RS RS

Bank features (six) AK, NO, JC, SC, FR, VP, SH, VE FM FM FM FM FM FM FM FM FM FM

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

Land use: choose one from BL, CP, HM, IC, AP, ML, OV, IG, TL, SU

LAND USE WITHIN 5m OF BANKTOP (L) TL TL TL TL TL TL TL TL TL TL

LEFT BANK-TOP (structure within 2m) BRUSH U U U U U U U U U U

LEFT BANK FACE (structure) BRUSH U U U U U U U U U U

RIGHT BANK-TOP (structure within 2m) BRUSH U U U U U U U U U U

RIGHT BANK FACE (structure) BRUSH U U U U U U U U U U

LAND USE WITHIN 5m OF BANK TOP (R) TL TL TL TL TL TL TL TL TL TL

G CHANNEL VEGETATION TYPES (all in relevant boxes with one entry use E (to 33% area) or P (present))

NONE (tick) Plant species (tick one)

Liverworts Mosses/lichens Emergent broad leaved herbs Epiphytic ready to shed/mosses Floating-leaved (submersed) Free-floating Amphibious Submerged - broad-leaved Submerged fine leaved Filament, algae

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

PLANTS - Use the table of Grasses in the site report + species if possible of Potamogeton perfoliatus

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or P (present))

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

I BANK PROFILES (Use E (to 33% banklength) or P (present))

Natural/unmodified	Artificial/modified
Vertical undercut	Revetted
Vertical + toe	Reinforced - whole bank
Steep (>45°)	Reinforced - top only
Gentle	Reinforced - toe only
Composite	Artificial two-stage
	Paired
	Embayed
	Set-back embayments

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per bank)

None Left Right MISC

Isolated/scattered Regularly spaced, single Occasional clumps Semi-coalescent Coalescent

ASSOCIATED FEATURES (Tick one box per feature)

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)

Waterfall(s) - freefall	Marginal deadwater - slack
Concave(s) - close	Exposed bedrock
Step/pool sequence	Exposed boulders
Rapid(s) - whitewater	Unvegetated mid-channel bars
Riffle-pool sequence	Vegetated mid-channel bars
Ruvs(s) - disturbed, rippled	Mature island(s)
Bait(s) - upwellings	Unvegetated side bars
Slide(s) - smooth, no eddies	Vegetated side bars

Have you completed your expenses from this work? (send to FHD for signature!)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

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

LEFT BANK	Banktop width (m)	3.5	RIGHT BANK	
Banktop height (m)	Water width (m)	1.5	Banktop height (m)	1.5
Embayed height (m)	Water depth (m)	0.1	Embayed height (m)	0.3

If banktop 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 1/2 indicate total number, tick 'none' where appropriate)

None Number of Culverts = 1 Weirs = 0

Footbridges = 1 Roshbridges = 0

Outfalls = 0 Fords = 0

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 (tick one)

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

CHANNEL: Waterfalls > 5m high Artificial open water Bog Other (state) _____

Brick/drain channels Natural open water Carr

Debris dams Water meadow Marsh

Leafy debris Fen Flurb

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 (to 33% area) or P (present))

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State _____

R BRIEF DESCRIPTION (Use prompts and tick dots as appropriate)

Descriptive sentence: Revetted field ditch. Uniform in channel features

Plants of note: _____

Major conservation features: _____

Major impacts: Arable runoff

Incidental observations (animals etc): _____

S DISPERSED ALDERS (Tick one box)

None Present Extensive Other dispersed trees? State _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STAKE, WAREHAM, DORSET DT96 6BB

Envelopes supplied! Post completed form for postmarking labels supplied stamps

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) _____ Slope (m/m) _____ 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: 3991 N/A
 Mid-section grid reference of network site if different from designated location: _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SP491 204 River: CHERVELL (River name)
 Date: 27/6/1995 Time: 1300 Surveyor name: WILLIAMS, GUY, WIL

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 RIFLES, POOLS AND POINT BARS (tick one box then indicate total number)

Rifles: 0 Unvegetated point bars: 0
 Pools: 0 Vegetated point bars: 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 2 of 4

Site class 1 in all systems and downstream end of site (tick one box)

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

	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Bank material (poor)	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
Bank modification(s)	12	10	10	10	10	10	10	10	10	10
Bank features(s)	12	10	10	10	10	10	10	10	10	10
CHANNEL										
Channel substrate (poor)	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
Flow type (poor)	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
Channel modification(s)	10	10	10	10	10	10	10	10	10	10
Channel features(s)	10	10	10	10	10	10	10	10	10	10
RIGHT BANK										
Bank material (poor)	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
Bank modification(s)	10	10	10	10	10	10	10	10	10	10
Bank features(s)	10	10	10	10	10	10	10	10	10	10

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

Land use: choose one from CL, CR, CR1, CR2, CR3, CR4, CR5, CR6, CR7, CR8, CR9, CR10

LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 1m)	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
LEFT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U
RIGHT BANK TOP (structure within 1m)	U	U	U	U	U	U	U	U	U	U
LAND USE WITHIN 5m OF BANK TOP (R)	U	U	U	U	U	U	U	U	U	U

G. CHANNEL VEGETATION TYPES (tick one box with one entry; use E (to 33% area) or P (percent))

VEGETATION TYPE	1	2	3	4	5	6	7	8	9	10
NONE (tick as appropriate)										
Upriver/bottom/terrace										
Emergent broad-leaved beds										
Emergent reeds/sedges/rushes										
Floating-leaved (free)										
Fern-leaving										
Amphibious										
Submerged broad-leaved										
Submerged floating-leaved										
Floating algae										

Use end 'tail-off' column for types not occurring in spot checks as well as overall assessment over 500m (see E or P)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 10m OF BANKTOP (to 33% banklength) or if present

	L	R		L	R
Woodland/mixed woodland (M2)	E	U	Woodland (eg bog, marsh, fen) (M2)		E
Coniferous plantation (C7)			Open water (OW)		E
Woodland/heath (H1)			Improved semi-improved grass (IG)		U
Scrub (S2)			Tilled land (TL)		U
Rough pasture (R7)	E		Suburban/urban development (SU)		U

I. BANK PROFILES (Use E (to 33% banklength) or P (percent))

	L	R	Artificial/modified	L	R
Natural/unmodified					
Vertical/undercut	U	U	Reinforced		
Vertical + toe			Reinforced - whole bank		
Slopy (>45°)			Reinforced - toe only		
Composite			Reinforced - toe only		
Use 0% across to show profile of a bank from plan, after using predominant bank			Embanked		
			Seabank embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES	Left	Right	ASSOCIATED FEATURES	None	Present	E
None	<input type="checkbox"/>	<input type="checkbox"/>	E 2:33%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Operational change	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Small/overgrown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present	E	None	Present	E
Waterfalls - freefall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marginal discharge - silt	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Waterfalls - stone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Scrap/pond sequences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rapids - whitewater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rapids - stillwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Runs - disturbed, rippled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marine islands	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Runs - unrippled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Slides - smooth, no debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	1.2	RIGHT BANK	Banktop width (m)
Banktop height (m)	1.5		1.2	0.5
Influenced angle (m)	Water width (m)		Water depth (m)	> 2
	Bank height (m)		Embanked height (m)	

If straight line or then banktop bank in slope, indicate: height (m) - width (m) -

Bed material at site by: consolidated (compact) unconsolidated (loose) volcanic

Location of measurement by: riffle run or glide other (tick one box) Slope (R/L only)

M. ARTIFICIAL FEATURES (tick one box then indicate total number, tick 'none' where appropriate)

Stone Number of Culverts = _____ Weirs = _____ Outfalls = _____ Piers = _____
 Footbridges = _____ Part of site Mouth of site

In water level controlled by a structure downstream? Part of site Mouth of site

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

eroding moving Other? Sure _____
 widening enhancement N/A

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL FLOODPLAIN (50m corridor)

Whittle > 5m high Artificial open water Bog Other (run) _____
 Eroded side channels Natural open water Cut
 Debris dams Water meadow Marsh
 Low debris Fen Flank

P. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (tick one box)

Great Reedweed Himalaya Balsam Japanese Knotweed Other? Sure _____

R. BRIEF DESCRIPTION (tick printer and log water as appropriate)

Descriptive notes: Shallow, deep, narrow, low channel vegetation
 Pace of flow: slow, no rapids, mostly in night
 Major associations features: canal alongside
 Incidental observations (animals etc): _____

S. DISTURBED ALIENS (tick one box)

None Present Extensive Other (named bank) Sure _____

SEND COMPLETED FORM TO HIGH DAWSON, IFE, RIVER LABORATORY, EAST STOLE, WARRINGHAM, NORTH LEB

NSR RIVER HABITAT SURVEY 1988, TWIN POINT BRUCKS Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) _____ Slope (m/100) _____ Flow category (1-10) _____

Soil geology code _____ Drift geology code _____ Transition category _____

Distance from source (km) _____ Significant tributary? _____ Navigation? _____

B. FIELD SURVEY DETAILS

Reference natural site number: 3391

Mid-section grid reference of survey site (if 1/2 km from designated location): GA

COMPLETE THE FOLLOWING FOR ALL SITES ZOH HCC mL

Grid Reference: SP 40204 River: CHERWELL

Date: 12/2/1988 Time: 15:35

Adverse conditions affecting survey? No Yes (see notes)

End of river visible? No partially entirely (pick one box)

Photographic (obscure channel) No Yes (pick one box)

Site surveyed from: left bank right bank channel (pick all applying sites)

C. PREDOMINANT VALLEY FORM (tick one box only)

shallow vee turned valley floor

deep vee symmetrical floodplain

gorge asymmetrical floodplain

concave bed + irregularly shaped

D. NUMBER OF RIFLES, POOLS AND POINT BARS (tick one box)

Rifles _____ Vegetated point bars _____

Pools _____ Vegetated point bars _____

NSR RIVER HABITAT SURVEY 1988, TWIN POINT BRUCKS

NSR RIVER HABITAT SURVEY 1988, TWIN POINT BRUCKS Page 2 of 4

C. PHYSICAL ATTRIBUTES (to be assessed at one site on a stretch within section, preferably across a riffle)

Left Bank	1	2	3	4	5	6	7	8	9	10
Right Bank	1	2	3	4	5	6	7	8	9	10

D. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

E. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

F. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

G. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

H. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

I. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

J. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

K. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

L. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

M. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

N. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

O. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

P. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

Q. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

R. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

S. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

T. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

U. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

V. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

W. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

X. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

Y. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

Z. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

NSR RIVER HABITAT SURVEY 1988, TWIN POINT BRUCKS

NSR RIVER HABITAT SURVEY 1988, 100m SWEEPING Page 3 of 4

H. LAND USE WITHIN 100m BAND OF SITE (tick one box)

Land Use	L	R	Notes
Intensive forest (20)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wooded by pop, ash, birch (20)
Cultivated pasture (27)	<input type="checkbox"/>	<input type="checkbox"/>	Corn silage (20) (27)
Meadowland (28)	<input type="checkbox"/>	<input type="checkbox"/>	Improved meadowland (28)
Bank (29)	<input type="checkbox"/>	<input type="checkbox"/>	Total bank (29)
Forest (30)	<input type="checkbox"/>	<input type="checkbox"/>	Suburban development (30)

I. BANK PROFILES (tick one box)

Natural	L	R	Artificial	L	R
Vertical	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced	<input type="checkbox"/>	<input type="checkbox"/>
Vertical + toe	<input type="checkbox"/>	<input type="checkbox"/>	Reinforced + toe bank	<input type="checkbox"/>	<input type="checkbox"/>
Deep (31)	<input type="checkbox"/>	<input type="checkbox"/>	Reinforced + toe only	<input type="checkbox"/>	<input type="checkbox"/>
Gravel	<input type="checkbox"/>	<input type="checkbox"/>	Reinforced + toe only	<input type="checkbox"/>	<input type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	Artificial structure	<input type="checkbox"/>	<input type="checkbox"/>

You tick space in box if a flow line shows clear water performance here

J. EXTENT OF TREES AND ASSOCIATED FEATURES

Trees	L	R	Notes
None	<input type="checkbox"/>	<input type="checkbox"/>	
Interspersed	<input type="checkbox"/>	<input type="checkbox"/>	
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	
Intensive	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	

ASSOCIATED FEATURES

None	Notes
<input type="checkbox"/>	Highly disturbed - wind
<input type="checkbox"/>	Exposed bank
<input type="checkbox"/>	Exposed bank
<input type="checkbox"/>	Vegetated all channel bank
<input type="checkbox"/>	Vegetated all channel bank
<input type="checkbox"/>	Stream bank
<input type="checkbox"/>	Vegetated side bank
<input type="checkbox"/>	Vegetated side bank

K. EXTENT OF CHANNEL VEGETATION

None	Notes
<input checked="" type="checkbox"/>	Highly disturbed - wind
<input type="checkbox"/>	Exposed bank
<input type="checkbox"/>	Exposed bank
<input type="checkbox"/>	Vegetated all channel bank
<input type="checkbox"/>	Vegetated all channel bank
<input type="checkbox"/>	Stream bank
<input type="checkbox"/>	Vegetated side bank
<input type="checkbox"/>	Vegetated side bank

Have you sampled your samples from this reach? (and 5m) for vegetation?

NSR RIVER HABITAT SURVEY 1988, DIMENSIONS AND INFLUENCES Page 4 of 4

L. CHANNEL DIMENSIONS (to be assessed at one site on a stretch within section, preferably across a riffle)

Left Bank	Banking with bed	1.1	Right Bank
Banking height (m)	Water with bed	1.2	Banking height (m)
Banking height (m)	Water depth	1.3	Banking height (m)

M. ARTIFICIAL FEATURES (tick one box)

None Concrete Other (see notes)

N. EVIDENCE OF RECENT HANDLING (tick one box)

Dragging None Other (see notes)

O. FEATURES OF SPECIAL INTEREST

Channel Floodplain Artificial open space Other (see notes)

P. SHOULD CHANNEL BE RESTORED? NO YES

Q. NOTABLE VEGETATION SPECIES

None Noddy Sparrow Other (see notes)

R. BRIEF DESCRIPTION OF SPECIAL INTEREST

Channel Floodplain Artificial open space Other (see notes)

S. CHANNEL VEGETATION (tick one box)

None Sparse Moderate Dense Very dense (see notes)

NSR RIVER HABITAT SURVEY 1988, TWIN POINT BRUCKS

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

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: **4036**
 Mid-section grid reference of network site if different from designated location: **GA**

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **SP 626 012** River: **JZ DH IH CC ML DANES BROOK**
 Date: **21/11/1995** Time: **13:30**
 Supervisor name: **66 MLE 40 (12) PND**
 Adverse conditions affecting survey? No Yes If yes, state:

Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) with site ID no!
 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 + notes/other diagrams
 concave/bowl

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-11 then indicate total number)

Riffles / **2** Unvegetated point bars / **1**
 Pools **2** Vegetated point bars / **1**

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles / **2** Pools / **2** Unvegetated point bars / **1** Vegetated point bars / **1**

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 10m wide zone) (10m x 10m grid)

Spot check 1 to 10: upstream end downstream	1	2	3	4	5	6	7	8	9	10
LEFT BANK	1	2	3	4	5	6	7	8	9	10
Bank modifications	1	2	3	4	5	6	7	8	9	10
Bank features	1	2	3	4	5	6	7	8	9	10
CHANNEL NOTE: Use the bank face as a guide to the channel	1	2	3	4	5	6	7	8	9	10
Channel substrate (mm)	1	2	3	4	5	6	7	8	9	10
Flow type (mm)	1	2	3	4	5	6	7	8	9	10
Channel modifications	1	2	3	4	5	6	7	8	9	10
Channel features	1	2	3	4	5	6	7	8	9	10
RIGHT BANK	1	2	3	4	5	6	7	8	9	10
Bank modifications	1	2	3	4	5	6	7	8	9	10
Bank features	1	2	3	4	5	6	7	8	9	10

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

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

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK-TOP (structure within 1m)	1	2	3	4	5	6	7	8	9	10
LEFT BANK FACE (structure)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK FACE (structure)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK-TOP (structure within 1m)	1	2	3	4	5	6	7	8	9	10
LAND USE WITHIN 5m OF BANKTOP (R)	1	2	3	4	5	6	7	8	9	10

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one code per E or R (to 31% area) or 4 (percent))

None (tick)	Plant species (tick one)	1	2	3	4	5	6	7	8	9	10
None	Plant species										
Emergent broad-leaved herbs											
Emergent sedge/reeds/marsh											
Flowering-leaved											
Free-floating											
Amphibious											
Submerged broad-leaved											
Submerged fine-leaved											
Flowering algae											

Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 300m (use E or R)
 (LANTS - Use the tickboxes of boxes as ticks for vegetation + species of plants of particular importance)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banklength) or 4 (if present))

	L	R	L	R
Rest/semi-rest woodland (RL)				
Continuous plantation (CP)				
Moorland/heath (MH)				
Scrub (SC)				
rough pasture (RP)				
Improved/semi-improved grass (IG)				
Tilled land (TL)				
Suburban/urban development (SU)				

I BANK PROFILES (Use E (to 33% banklength) or 4 (if present))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut			Recessed		
Vertical + toe			Reinforced - whole bank		
Step (> 45°)			Reinforced - top only		
Grass			Reinforced - toe only		
Concrete			Artificial two-stage		
Use E to specify draw profile 20m from shore, otherwise predominant use			Recessed		
			Embanked		
			Sea-bank embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	Left	Right	W/T/S	E > 33%	None	Present	E	W/T/S
Isolated/summit								
Regularly spaced, single								
Occasional clumps								
Scal-contiguous								
Continuous								
Associated Features								
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)

Waterfall	None	Present	E	W/T/S	None	Present	E	W/T/S
Case (sc) - chute								
Step-pool sequence								
Rapid (sc) - whitewater								
Riffle-pool sequence								
Road (sc) - disturbed, rippled								
Bed (sc) - upwelling								
Glides (sc) - smooth, no eddies								
Marginal deadwater - slack								
Exposed bedrock								
Exposed boulders								
Unvegetated mid-channel bars								
Vegetated mid-channel bars								
Mature island(s)								
Unvegetated side bars								
Vegetated side bars								

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	5.0	RIGHT BANK	
Banktop height (m)	Water width (m)	2.0	Banktop height (m)	2.0
Embanked height (m)	Water depth (m)	0.05	Embanked height (m)	

If trouble 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 E (to 33% banklength) or 4 (if present))

None Number of Culverts = Footbridges = Weirs = Other = Fords =

Is water level controlled by weirs/dams/drawdown? No Part of site Mouth of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dragging mowing Other ? State:

weed-cutting embankment

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

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

P CHOKED CHANNEL (Tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use E (to 33% banklength) or 4 (if present))

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State:

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

Descriptive statement: **Uniform agricultural ditch - S1 subsaline**
 Plants of note (sc 1-10): **1st flow at time of survey.**
 Major conservation features: **None**
 Major impact: **CS 1st flow channel overgrown + shaded - even grassland sites, etc.**
 Incidental observations (animals etc): **None**

S DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State:

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6NB

Have you completed your expenses from this week? (send to PND for signature!)

NRA RIVER HABITAT SURVEY 1995 Page 3 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/m) Flow category (1-10)⁹

Soil geology code Drift geology code Platform category

Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: 4079

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

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SP 626012 River: WAFLE (NASCOTY Creek Tail)

Date: 15/6/1995 Time: 5.50 AM Surveyor name: _____

Adverse conditions affecting survey? No Yes If yes, state: _____

End 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 RIFTLs, POOLS AND POINT BARS (Use 1-10, then indicate total numbers)

Riffls: _____ Unvegetated point bars: _____

Pools: _____ Vegetated point bars: _____

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Spot check 1 to 10 of upstream end downstream end (tick one box)

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

Site = Material	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Mat. # <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
Bank modification(s) <u>NO, 21, 22, 23, 24</u>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s) <u>NO, 20, 21, 22, 23, 24</u>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL										
Channel substrate # <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	EP	SA	SA	SI	SI	SI	SI	EP	EP	EP
Flow type # <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
Channel modification(s) <u>NO, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s) <u>NO, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK										
Mat. # <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
Bank modification(s) <u>NO, 21, 22, 23, 24</u>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s) <u>NO, 20, 21, 22, 23, 24</u>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

F. BANKS OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide zone)

Land use: choose one from 1L, 1R, 2L, 2R, 3L, 3R, 4L, 4R, 5L, 5R, 6L, 6R, 7L, 7R, 8L, 8R, 9L, 9R, 10L, 10R

LAND USE WITHIN 5m OF BANKTOP (L)	1L	2L	3L	4L	5L	6L	7L	8L	9L	10L
LEFT BANK TOP (structure within 1m) <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	S	U	U	U	S	S	U	S	S	S
LEFT BANK FACE (structure) <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	U	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure) <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	U	U	U	U	U	U	U	U	U	U
RIGHT BANK TOP (structure within 1m) <u>11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24</u>	U	U	U	U	U	S	U	S	S	S
LAND USE WITHIN 5m OF BANK TOP (R)	1R	2R	3R	4R	5R	6R	7R	8R	9R	10R

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry: use E in 33% area or 4 if present)

NONE (tick as appropriate)	<input checked="" type="checkbox"/>									
Liverwort/mosses/algae										
Emergent broad-leaved herbs		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Emergent reeds/sedges/rushes			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Floating leaved (terrestrial)										
Free floating										
Epiphytes										
Submerged broad leaved										
Submerged fine-leaved leaved										
Submerged algae										

The word 'tick one box' indicates for types not occurring in spot checks as well as over all assessment over 100m zone (tick one box)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

Site No: 4079

H. LAND USE WITHIN 50m OF BANKTOP (Use E in 33% banklength or 4 if present)

	L	R		L	R
Directly mixed woodland (DM)	<input checked="" type="checkbox"/>		Wetland (eg. bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		<input checked="" type="checkbox"/>
Woodland bank (WB)			Improved/unimproved grass (IG)	<input checked="" type="checkbox"/>	
Straw (ST)		<input checked="" type="checkbox"/>	Tilled land (TL)		<input checked="" type="checkbox"/>
Fresh pasture (FP)	<input checked="" type="checkbox"/>		Suburban/urban development (SU)		

I. BANK PROFILES (Use E in 33% banklength or 4 if present)

	L	R		L	R
Natural/unmodified		<input checked="" type="checkbox"/>	Artificial/modified		
Vertical/unreinforced	<input checked="" type="checkbox"/>		Reinforced		
Vertical + toe			Reinforced - whole bank	<input checked="" type="checkbox"/>	
Slope (> 45°)		<input checked="" type="checkbox"/>	Reinforced - top only		
Grass		<input checked="" type="checkbox"/>	Reinforced - toe only		
Composite			Artificial toe-slope		
Use this space to draw profile of a river bank along the survey transect line	<p>Prevalent <input checked="" type="checkbox"/> Embanked <input type="checkbox"/> Set-back embankment <input type="checkbox"/></p>				

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per bank)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present	E
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Shading of channel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inland/scattered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Overhanging boughs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bank-side roots	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-vertical/continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present	E	None	Present	E
Verticality - free-fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vertical dead-water - slack	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Constriction - above	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Step-pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rapids - above-water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rifle pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Point - above-water, rippled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marine islands	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Point - overhanging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cliffed - smooth, no ridges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	5	RIGHT BANK	
Banking height (m)	<u>1.8</u>		Banking height (m)	<u>1.8</u>
Channel height (m)	<u>1.8</u>		Channel height (m)	<u>1.8</u>
Water width (m)	<u>1.8</u>		Water depth (m)	<u>0.4</u>
Water depth (m)	<u>0.4</u>			

If multiple lower than banktop bank 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 (1:100) _____

M. ARTIFICIAL FEATURES (Use 1-10, then indicate total numbers)

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

Is water level restricted by artificial development? No Part of site Most/best of site

N. EVIDENCE OF FLEET MANAGEMENT (tick appropriate box)

Grading mowing Other? State: _____

Weed-killing enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL FLOODPLAIN (50m corridor)

Verticality > 2m high Artificial open water Bog Otter (hole)

Brick/side channels Natural open water Core

Debris dams Water meadow Marsh

Early debris Fea

P. CHOKED CHANNEL (tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES (tick one or more)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: _____

R. FREE DESCRIPTION (Use prompts and key words as appropriate)

Descriptive sentence: SHADE, RELATIVELY 'NATURAL' 11% STREAM IN RELATIVELY INTENSIVE URBAN SETTLEMENT

Mean of note: _____

Major construction features: _____

Major impacts: _____

Bank/soil observations (animals etc): _____

S. DISTURBED ALIENS (tick one box)

None Present Excessive Other (describe weed) State: _____

FORM COMPLETED BY: RICH DAWSON, H.E. RIVER LABORATORY, EAST SIOUX, WALLINGFORD, 1995/08

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

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: U.O.P.
 Mid-section grid reference of network site if different from designated location: _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SS793933 River: FFA-3 NAY
 Date: 11.11.1995 Time: 10.00 Surveyor name: Liz
 Adverse conditions affecting survey? No Yes If yes, state: _____
 End 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 [1-4] then indicate total number)

Riffles 6 Unvegetated point bars 0
 Pools 3 Vegetated point bars 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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 area)

Met. = Metrel	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Met. #	10	11	12	13	14	15	16	17	18	19
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL										
Channel substrate	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
Flow type	CF	CF	CF	CF	CF	CF	CF	CF	CF	CF
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK										
Met. #	20	21	22	23	24	25	26	27	28	29
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from: RL, CL, SL, PL, VL, CW, RL, PL

LAND USE WITHIN 5m OF BANKTOP (L)	SC	FC	SC	FC	FP	SC	FC	SC	FL	BL
LEFT BANK-TOP (structure within 1m)	C	S	C	C	C	S	C	C	C	C
LEFT BANK FACE (structure)	C	S	C	C	C	S	C	C	C	C
RIGHT BANK-TOP (structure within 1m)	S	S	C	C	S	S	S	S	S	S
RIGHT BANK FACE (structure)	S	S	C	C	S	S	S	S	S	S
LAND USE WITHIN 5m OF BANK TOP (R)	SU	SU	SC	FL	BL	EL	SU	SU	SU	EP

G CHANNEL VEGETATION TYPES (tick in columns below with one entry per E (in 20% areas) or 4 (overrun))

NONE (tick as appropriate)										
Upriver/overrun/obscure										
Emergent broad-leaved herbs										
Emergent narrow-leaved herbs										
Flowering-leaved (river)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Pilumnoid algae										

Use the 'tick-all' column for types not occurring in spot checks as well as overall assessment over 100m (use E or 4)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (in 20% banklength) or 4 (if present))

	L	R		L	R
Woodland (deciduous) (W)			Wetland (eg bog, marsh, etc) (W)		
Open water (OW)			Improved/improved grass (IG)		
Woodland (conifer) (CW)			Tilled land (TL)		
Suburban/urban development (SU)					

I BANK PROFILES (Use E (in 20% banklength) or 4 (if present))

Natural/undisturbed	L	R	Artificial/disturbed	L	R
Vertical/battered			Recessed		
Vertical + toe			Reinforced - whole bank		
Slope (> 45°)			Reinforced - top only		
Castle			Reinforced - toe only		
Composite			Artificial two-stage		
			Pre-cast		
			Embanked		
			Set-back embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	Left	Right	ASSOCIATED FEATURES	None	Present
None			Sliding of channel		
Isolated/stemmed			Overhanging boughs		
Regularly spaced, single			Exposed bankside roots		
Occasional clumps			Underwater tree roots		
Scrub/shrubland			Falling trees		
Continuous			Course woody debris		

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

Vertical(s) - freefall	None	Present	Vertical(s) - slack	None	Present
Concave(s) - slow			Exposed bedrock		
Scup-pool sequence			Exposed boulders		
Rapid(s) - midwater			Unvegetated mid-channel bars		
Riffle-pool sequence			Vegetated mid-channel bars		
Flow(s) - disturbed, rippled			Water island(s)		
Bank(s) - overhanging			Unvegetated side bars		
Gravel(s) - smooth, no debris			Vegetated side bars		

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Fastest width (m)	2.5	RIGHT BANK		
Banking height (m)	1.0	Water width (m)	12.5	Banking height (m)	1.5
Embanked height (m)	-	Water depth (m)	0.25	Embanked height (m)	-

If machine lower than banking break in slope, indicate height (m) with

Bed material at site is: consolidated (comp) unconsolidated (flow) unknown

Location of measurement is: riffle me or glide other (tick one box) Slope (R/L only)

M ARTIFICIAL FEATURES (Use [1-4] indicate total number, tick 'none' where appropriate)

None Number of Culverts = 0 Weirs = 2 Orfalls = 3 Feds = 0
 Footbridges = 1 Footbridges = 0 Other = 10-6
 Is water level controlled by weir/dam/downstream? No Part of site Mouth-hole of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dragging moving Other? State: _____
 weed-cutting enhancement No

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m centre)
Waterfalls > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Bedside channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Debris dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>
Loose debris <input type="checkbox"/>	Fox <input type="checkbox"/>
	Bank <input type="checkbox"/>
	Flank <input type="checkbox"/>

P CHOKED CHANNEL (Tick one box)

Is 20% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use E or 4)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: _____

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

Descriptive sentence: Shallow, turbulent river channel alongside urban development on bank
 Plans of site: None
 Major obstructions/features: None
 Major impacts: Bank reinforcement, artificial debris
 Incidental observations (indicate only): None

S DISTURBED ALDERS (Tick one box)

None Present Extensive Other (describe trees) State: _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOLE, WARRIEN, FIFE G18

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/Lm) Flow category (1-10)
 Solid geology code Drift geology code Planform category
 Distance from source(Lm) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 4096
 Mid-section grid reference of network site if different from designated location: DA

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SS 93933 River: AFAN
 Date: 11.7.1995 Time: 13.30 Supervisor name: JL DH IH CC ML
 Adverse conditions affecting survey? No Yes If yes, state: CC mix up
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general features 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 + notes/mk diagram

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1/11 then indicate total number)

Riffles 3 Unvegetated point bars 1
 Pools 2 Vegetated point bars 0

IF E = 10 - See page 3 of 4

National Rivers Authority

J.L. DH. IH. CC. ML
 JAMES. HEND. FRANK. UNIL. D. H. C. M. L.

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles 3 Pools 2 Unvegetated point bars 1 Vegetated point bars 0

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (1) Mark (x) in (2) feature (3)

Spot check 1 is at: upstream end of the downstream (tick one)

LEFT BANK	1	2	3	4	5	6	7	8	9	10
Bank modification(s)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank feature(s)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Channel substrate (mud)	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
Flow type (one)	BN	BN	BN	BN	BN	BN	BN	BN	BN	BN
Channel modification(s)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Channel feature(s)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
RIGHT BANK	1	2	3	4	5	6	7	8	9	10
Bank modification(s)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank feature(s)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

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

Land use: choose one from FL, CP, SP, SC, LP, VL, CV, AG, TL, BU

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

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry; use B (in 33% area) or J (stream))

NONE (tick)	Plant genera (tick one)									
Emergent broad-leaved herbs										
Emergent narrow-leaved herbs										
Emergent reeds										
Flowering reeds										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Filament, algae										

Use the 'tick-all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or J) 1

IF E = 10 - See page 3 of 4

IF E = 10 - See page 3 of 4

IF E = 10 - See page 3 of 4

NRA RIVER HABITAT SURVEY 1995: 500m SWEET-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (in 33% banklength) or J if present)

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

I BANK PROFILES (Use E (in 33% banklength) or J if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut			Reinforced		
Vertical + toe			Reinforced - whole bank		
Step (>45°)			Reinforced - top only		
Graze			Reinforced - toe only		
Composite			Artificial two-stage		
Use 6/8 space to draw profile if different from above, also tick predominant bed			Reinforced		
			Embedded		
			Set-back embankments		

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	Left	Right	WATER	None	Present	None	Present	None	Present
None									
Isolated/scattered									
Regularly spaced, single									
Occasional clumps									
Semi-continuous									
Continuous									
ASSOCIATED FEATURES (Tick one box per feature)									
E ≥ 33%									
Shading of channel									
Overhanging boughs									
Exposed bankside roots									
Underwater tree roots									
Fallen trees									
Course woody debris									

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

Waterfall(s) - freefall	None	Present	Marginal dead-water - slick	None	Present	None	Present
Cascade(s) - chute			Exposed bedrock				
Step/pool sequence			Exposed boulders				
Rapid(s) - whitewater			Unvegetated mid-channel bars				
Riffle-pool sequence			Vegetated mid-channel bars				
Run(s) - disturbed, rippled			Mature island(s)				
Bell(s) - spoolings			Unvegetated side bars				
Glide(s) - smooth, no eddies			Vegetated side bars				

Have you completed your expenses from this week? (send to FWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>53.0</u>	RIGHT BANK
Banktop height (m)	<u>1.8</u>	Water width (m)	<u>15.0</u>
Banktop height (m)	<u>1.8</u>	Water depth (m)	<u>0.2</u>
Banktop height (m)	<u>1.8</u>	Banktop height (m)	<u>1.8</u>
Banktop height (m)	<u>1.8</u>	Banktop height (m)	<u>1.8</u>

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

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

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

M ARTIFICIAL FEATURES (Use 1/11 indicate total number, tick 'none' where appropriate)

None Culverts = 1 Weirs = 1 Outfalls = 0 Fords = 0
 Footbridges = 0 Roadbridges = 0 Obrows = 0

In water level controlled by weir/dam downstream? No Part of site Mouth of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging moving Other ? State:
 weed-cutting enhancement

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

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Braided/side channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Debris dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>
Loose debris <input type="checkbox"/>	Fen <input type="checkbox"/>
	Bog <input type="checkbox"/>
	Carr <input type="checkbox"/>
	Marsh <input type="checkbox"/>
	Flask <input type="checkbox"/>

P CHOKED CHANNEL (Tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use 1/8 tick (x) in (2) feature (3))

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State:

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

Descriptive sentence: Fast flowing, CO substrate river.
 Plants of note: (see 102) large SB + MB (4M) in channel.
 Major conservation features:
 Major impacts: Sewage pipe + RI concrete along most of LWB.
 Incidental observations (animals etc): Trash.
 IF E = 10 - See page 3 of 4

S DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State:

SEND COMPLETED FORMS TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STAKE, WARHAM, BH20 6BB

Expenses supplied! Post completed forms for processing - labels supplied at top

Expenses supplied! Post completed forms for processing - labels supplied at top

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/Lm) Flow category (1-10)
 Solid geology code Drift geology code Planform category
 Distance from source(m) Significant tributary? Navigation?

B. FIELD SURVEY DETAILS

Reference network site number: 4131
 Mid-section grid reference of network site (if different from designated location): QA

COMPLETE THE FOLLOWING FOR ALL SITES JL DH IH CC ML

Grid Reference: ST 048207 River: ELY.
 Date: 11/17/1995 Time: 15:30 Surveyor name: 66 MIT 40 (116) PWP

Adverse conditions affecting survey? No Yes If yes, state with 100% slope
 Bed of river visible? No partially entirely (tick one box) with 100% slope

Photographic general character? No Yes (tick one box) with 100% slope

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 floodplains
 gorge asymmetrical floodplain
 concave/bowl + notes/pole diagram

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

Riffles 5 Unvegetated point bars
 Pools 1 Vegetated point bars

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles [] Pools [] Unvegetated point bars [] Vegetated point bars []

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (1) Plan (1) within 1m features (2)

Spot check 1 to 10: upstream end of site (tick one) 1 2 3 4 5 6 7 8 9 10

LEFT BANK left bank
 Max. BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL
 Bank modification(s) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL
 Bank feature(s) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL

CHANNEL NOTE 100% slope

Channel substrate (one) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL
 Flow type (one) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL
 Channel modification(s) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL
 Channel feature(s) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL

RIGHT BANK right bank
 Max. BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL
 Bank modification(s) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL
 Bank feature(s) BL, DL, CL, EL, FL, GL, HL, IL, JL, KL, LL, ML, NL, OL, PL, QL, RL, SL, TL, UL, VL, WL, XL, YL, ZL

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

Land use: choose one from BL, CL, HL, SL, PL, VL, WL, XL, YL, ZL

LAND USE WITHIN 5m OF BANKTOP (L) BL, CL, HL, SL, PL, VL, WL, XL, YL, ZL
 LEFT BANK-TOP (structure within 1m) BL, CL, HL, SL, PL, VL, WL, XL, YL, ZL
 LEFT BANK FACE (structure) BL, CL, HL, SL, PL, VL, WL, XL, YL, ZL
 RIGHT BANK FACE (structure) BL, CL, HL, SL, PL, VL, WL, XL, YL, ZL
 RIGHT BANK-TOP (structure within 1m) BL, CL, HL, SL, PL, VL, WL, XL, YL, ZL
 LAND USE WITHIN 5m OF BANK TOP (R) BL, CL, HL, SL, PL, VL, WL, XL, YL, ZL

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one crop: use E (in 33% area) or J (precious))

NONE (tick) None
 Emergent broad-leaved herbs
 Emergent reeds/sedges/marsh
 Floating-leaved (floating)
 Free-floating
 Amphibious
 Submerged broad-leaved
 Submerged fine-leaved
 Filamentous algae

Use the "catch-all" column for types not occurring in spot checks as well as overall assessment over 500m (use E or J) †

NOTES - Use tick to indicate presence of feature/vegetation + species if possible or full name of feature/vegetation

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E (in 33% banklength) or J if present)

	L	R		L	R
Broadleaved woodland (BL)			Wetland (eg bog, marsh, fen) (WL)		
Coniferous plantations (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 (in 33% banklength) or J if present)

	L	R		L	R
Natural/unmodified			Artificial/unmodified		
Vertical/abrupt			Reinforced		
Vertical + toe			Reinforced - whole bank		
Slope (>45°)			Reinforced - top only		
Castle			Reinforced - toe only		
Composite			Artificial two-stage		
Use the open to draw profile if different from above, after taking predetermined base			Reinforced		
			Embanked		
			Setback embankment		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per bank)

TREES (Tick one box per bank)	Left	Right	WATER	ASSOCIATED FEATURES (Tick one box per feature)	None	Present E	None	Present E	None	Present E
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Semi-continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

	None	Present E		None	Present E
Waterfall(s) - freefall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - silt	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cascade(s) - chute	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Step/pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rapid(s) - whitewater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Riffle-pool sequence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rum(s) - disturbed, rippled	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Moist island(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Belt(s) - spillways	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Glide(s) - smooth, no eddies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>19.0</u>	RIGHT BANK	
Banktop height (m)	Water width (m)	<u>15.0</u>	Banktop height (m)	<u>2.0</u>
Embanked height (m)	Water depth (m)	<u>0.5</u>	Embanked height (m)	

If bankline lower than banktop break in slope, indicate: height (m) 19.0 width (m) 15.0

Bed material at site: 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 = 0 Weirs = 0 Outfalls = 0 Fords = 0
 Footbridges = 0 Roadbridges = 2 Other = 0
 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 moving Other? State None
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL: Waterfalls > 2m high FLOODPLAIN (50m corridor): Artificial open water Bog Other (state) None
 Braided/side channels Natural open water Carr
 Debris dams Water meadow Marsh
 Lush 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 E or J, tick "none" where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State None

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

Descriptive sentence: Tree-lined channel - GP substrate.
 Plants of note: (see list)
 Major conservation features: BL woodland (RUB).
 Major impacts: RS (LWS) - R.D. RAP.
 Incidental observations (animals etc): LWS = M/SU: Open grass with Scaud list

S. DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State None

SEND COMPLETED FORM TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOLE, WAREHAM, BH20 6BB
 Envelopes supplied! Post completed forms for postage - labels supplied

Have you completed your expenses from this work? (and to send for signature!)

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

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? No Navigation? No

B FIELD SURVEY DETAILS

Reference network site number: **4137**
 Mid-section grid reference of network site if different from designated location: _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **ST 662807** River: **Frome**
 Date: **26.5.1995** Time: **1140** Surveyor name: **Raven / Lewis**

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 **5** Unvegetated point bars **0**
 Pools **5** Vegetated point bars **0**

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TIN SPOT CHECKS Page 2 of 4

Spot check 1 is at upstream end downstream end at site (tick one box)

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide trout)

Mat. = Material	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Mat. ¹ 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1	EA	CA	CA	CA	CA	CA	CA	CA	CA	EA
Bank modification	R1	N0	N0	N0	N0	N0	N0	N0	N0	N0
Bank features	N0	N0	N0	N0	N0	N0	N0	N0	N0	N0
CHANNEL										
Channel substrate ¹ 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1	CO	SA	SA	SA	SA	SA	SA	SA	SA	SA
Flow type ¹ 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Channel modification	N0	N0	N0	N0	N0	N0	N0	N0	N0	N0
Channel features	N0	N0	N0	N0	N0	N0	N0	N0	N0	N0
RIGHT BANK										
Mat. ¹ 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1	EA	CA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification	N0	N0	N0	N0	N0	N0	N0	N0	N0	N0
Bank features	N0	N0	N0	N0	N0	N0	N0	N0	N0	N0

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

Land use: choose one from 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12

LAND USE WITHIN 5m OF BANKTOP (L)	SC	EL	AL	EL	IG	IG	IG	IG	IG	IG
LEFT BANK-TOP (structure within 1m) ¹ 01-02	C	S	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure) ¹ 01-02	C	C	S	C	U	C	S	U	C	S
RIGHT BANK FACE (structure) ¹ 01-02	S	S	C	C	S	U	U	U	S	C
RIGHT BANK-TOP (structure within 1m) ¹ 01-02	C	U	C	U	U	U	U	U	C	C
LAND USE WITHIN 5m OF BANK TOP (R)	IG	IG	IG	IG	IG	IG	IG	EL	EL	EL

G CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry: use E (2-3% area) or F (percent))

NONE (tick as appropriate)

Vegetation type	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Emergent broad-leaved herbs										
Emergent wide-leaved herbs										
Flowering broad-leaved										
Free-floating										
Amphiphilous										
Submerged broad-leaved										
Submerged fine-leaved										
Flamboyant algae										

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

1-4-20-78

1-4-20-78

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 20m OF BANKTOP (Use E (2-3% banklength) or F (percent))

	L	R		L	R
Excessively wooded (E1)	E	✓	Wetland (eg bog, marsh, fen) (E2)		
Coniferous plantation (E3)			Open water (E4)		
Woodland/heath (E5)			Improved/semi-improved grass (E6)	E	E
Straw (E7)	✓		Tilled land (E8)		
Rough pasture (E9)			Suburban/urban development (E10)		

I BANK PROFILES (Use E (2-3% banklength) or F (percent))

	L	R		L	R
Natural/unmodified			Artificial/unmodified		
Vertical/unfaced		✓	Revetted		
Vertical face			Revetted - white bank		
Steep (>45°)	E	E	Revetted - top only		
Gentle			Revetted - toe only		
Composite		✓	Artificial re-vegetation		
Use this space to draw profile of 10m bar above other valley profile/bank line			Perched		✓
			Embedded		✓
			Set-back embankment		✓

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	LA	Right	ASSOCIATED FEATURES (Tick one box per feature)	None	Present	E
None			Shading of channel		✓	
Isolated/unshaded			Overhanging boughs		✓	
Regularly spaced, single			Exposed bankside roots		✓	
Occasional clumps			Underwater tree roots		✓	
Semi-continuous			Fallen trees		✓	
Continuous			Course woody debris		✓	

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

	None	Present	E	None	Present	E
Waterfalls - free fall				Marginal dead-water - slack		
Waterfalls - chute				Exposed bedrock		
Step-pool sequences				Exposed boulders		
Rapids - submergent				Unvegetated mid-channel bars		
Rapids - submergent				Vegetated mid-channel bars		
Riffle-pool sequences				Minor islands		
Pools - diamond, stippled				Unvegetated side bars		
Pools - open, shallow				Vegetated side bars		

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	7.5m	RIGHT BANK
Banktop height (m)	1.2m	Water width (m)	5.5m
Banktop height (m)	1.2m	Water depth (m)	0.2m

If trawling lower than banktop break in slope, indicate: height (m) _____ width (m) 10

Bed material at site is: consolidated (temporarily) unconsolidated (fine) unknown

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

M ARTIFICIAL FEATURES (Use E (2-3% banklength) or F (percent))

None Number of Culverts = 0 Weirs = 1 (white) Outfalls = 1 Folds = 0
 Fences = 0 Embankments = 0 Other = 0
 Is water level controlled by weir/dam/drainage? No Part of site Minor hole of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dragging moving Other? None
 weed cutting enhancement

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

CHANNEL FLOODPLAIN (50m corridor)

Waterfalls > 5m high		Artificial open water		Bog	
Bankside channels		Natural open water		Cur	
Drift dams		Water meadow		Struck	
Loose debris		Fox		Thick	

P CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE SUSPENSE PLANT SPECIES (Use E or F)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? None

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

Descriptive sentence: *Freefalling water with occasional riffle & pool. Little vegetation in channel. Lots of debris present by bankline. Occasional, large pool. Fine silt with varying size of stones. Substrate: spongy (highly porous) Venetian. Major conservation features: Good habitat for fish in aerial setting. Little water available. Bankside. Major impacts: Significant erosion (some large old) and siltation (forming stone, boulders, etc). Incidental observations: (barnacle, etc) (fish, etc) (moss, etc). Water with plants (e.g. Lythrum, etc, etc) to dip!*

S DISEASED ALGAE (Tick one box)

None Present Extensive Other (disease name) _____

SEND COMPLETED FORM TO HUGH HAWSON, IFE, FIVER LABORATORY, EAST STOLE, WAREHAM, BH20 4AB

1-4-20-78

1-4-20-78

NRA RIVER HABITAT SURVEY 1995: IFA P-1A Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source(km) Significant tributary? Navigation?

B. FIELD SURVEY DETAILS

Reference network site number: **4137**
 Mid-section grid reference of network site if different from designated location: **QA**

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **ST 662507** River: **FROME**
 Date: **12.2.1995** Time: **11.30** Surveyor name: **GC**
 Adverse conditions affecting survey? No Yes If yes, state: **WIND**
 Bed of river visible? No partially entirely (pick one box)
 Photographs: general character? No Essential - return to site? Yes (pick one box)
 Site surveyed from: left bank right bank channel (pick as appropriate)

C. PREDOMINANT VALLEY FORM (tick one box only)

shallow vee terraced valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 concave down + notes/mtd diagram

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-11 then indicate total number)

Riffles: Unvegetated point bars:
 Pools: Vegetated point bars:

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TERN SPOT CHECKS Page 2 of 4

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (Use 1-10) (see table)

Spot check 1 is at: upstream end of site	2	3	4	5	6	7	8	9	10	Total
LEFT BANK	1	2	3	4	5	6	7	8	9	10
RIGHT BANK	1	2	3	4	5	6	7	8	9	10

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

Land use: choose one from PL, CR, SW, SC, LP, VL, OW, SO, ZL, ZU

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK-TOP (structure within 2m)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK-TOP (structure within 2m)	1	2	3	4	5	6	7	8	9	10

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry; use E (2-33% area) or P (percent))

None (tick)	Plant genus (tick genus)	1	2	3	4	5	6	7	8	9	10
<input type="checkbox"/>	<input type="checkbox"/>										

Use end 'catchall' column for types not occurring in spot checks as well as overall assessment over 100m (use E or P)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use 1-11 then indicate total number)

	L	R		L	R
Established woodland (BL)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland (eg bog, marsh, fen) (W)		
Cereals/plantations (CP)			Open water (OW)		
Meadow/heath (MH)			Improved/semi-improved grass (IG)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Scrub (SC)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I. BANK PROFILES (Use 1-11 then indicate total number)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/obscure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - whole bank	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vertical + toe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - top only		
Steep (> 45°)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - toe only		
Gentle			Artificial two-stage		
Composite			Feathered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
			Embedded		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per tree)	Left	Right	WATER	E 2-33%	None	Percent	E	WATER
None	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, slight	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

	None	Percent	E 2-33%	None	Percent	E	WATER
Waterfall(s) - free fall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cascade(s) - step	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Step-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rapid(s) - substrate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Run(s) - straight, rippled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bank(s) - upwelling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grill(s) - smooth, no adflee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	3.5	RIGHT BANK	Banktop width (m)	1.5
Banktop height (m)	1.25	Water width (m)	5.5	Banktop height (m)	1.5
Embankment height (m)	0.25	Water depth (m)	0.25	Embankment height (m)	0.25

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

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

Location of measurement by: riffle run or glide other (pick one box) Slope (IFE only)

M. ARTIFICIAL FEATURES (Use 1-11 then 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 Mouth of site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging meadow Other? State:
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL: Waterfalls > 5m high Artificial open water Bog Other (state)
 Braided/side channels Natural open water Care
 Debris dams Water meadow Marsh
 Lushy debris Fen Flork

P. CHOKED CHANNEL (Tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES (Use 1-11 then indicate total number)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: **NOTHING**

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

Descriptive sentence: **lowland meandering channel; mostly S1/SA substrate. Flats of bank (see 1st). Scattered trees & herbaceous/blackberry along banks.**
 Major conservation features: **Some BL wood at either end.**
 Major impacts: **Some 21 bank (LWB) & lots of Trush.**
 Incidental observations (animals etc): **Extensive filamentous algae**

SEND COMPLETED FORMS TO: HUGH DAWSON, IFA, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Have you completed your copies from this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: TEN SINT CHICKENS Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: **4163**
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: **ST 4 S 27 E** River: **LK110 YEO**
 Date: **25/11/1995** Time: **12.20** River: **7.74 (m) 1.44 (m) 7.00**
 Date: **25/11/1995** Time: **12.20** Surveyor name: **W. G. ...**
 Adverse conditions affecting survey? No Yes If yes, note:
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) with site map?
 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 + water/mud deposition
 concave bed

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

Rifles **4** Unvegetated point bars
 Pools **1** Vegetated point bars
 National Rivers Authority

W. G. ...

NRA RIVER HABITAT SURVEY 1995: TEN SINT CHICKENS Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide zone)

Spot check 1 to 10:

LEFT BANK *to 2m down stream*

Bank material (m)	FA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank features	NO	NO	NO	NO	NO	NO	NO	NO	NO

CHANNEL NOTE *to 2m down stream*

Channel substrate (m)	CL	CL	CL	CL	CL	CL	CL	CL	CL
Flow type (m)	RP	SM	SM	SM	SM	SM	SM	SM	SM
Channel modification	RS	RS	RS	RS	RS	RS	RS	RS	RS
Channel features	NO	NO	NO	NO	NO	NO	NO	NO	NO

RIGHT BANK *to 2m down stream*

Bank material (m)	FA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification	RS	RS	RS	RS	RS	RS	RS	RS	RS
Bank features	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from **U, S, G, C, P, W, V, O, N, I, D**

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK TOP (structure within 2m)	U	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure)	S	S	S	S	S	S	S	S	S
RIGHT BANK TOP (structure within 2m)	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure)	S	S	S	S	S	S	S	S	S

LAND USE WITHIN 5m OF BANK TOP (R)

G CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry per E (in 33% area) or D (percent))

None (tick)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lowest broad bedded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergent trees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tree-lined	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amphibious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submerged	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submerged fine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flamingo reeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Use and tick all columns for types not occurring in spot checks as well as overall assessment over 200m (see E or D)

NRA RIVER HABITAT SURVEY 1995: 200m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 5m OF BANKTOP (Use for 33% banktop or D if percent)

Tree/shrub/woodland (H)		Woodland (eg log, scrub, etc) (H)			
Coniferous plantation (C)		Open water (W)			
Woodland (H)		Improved/semi-improved grass (G)			
Scrub (S)		Tilled land (T)			
rough pasture (P)		Suburban/urban development (U)			

I BANK PROFILES (Use for 33% banktop or D if percent)

Natural/unmodified		Artificial/unmodified			
Vertical/obscure		Revetment			
Vertical + low		Revetment - whole bank			
Steep (> 45°)		Revetment - top only			
Crack		Revetment - top only			
Composite		Artificial to emerge			
Use (tick one box per profile)		Revetment			
		Revetment			
		Revetment			

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

None	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>
Inland/terrestrial	<input checked="" type="checkbox"/>	Staking of channel	<input checked="" type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	Overhanging banks	<input checked="" type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	Exposed bankside roots	<input checked="" type="checkbox"/>
Scrub/scrubland	<input type="checkbox"/>	Underwater tree roots	<input checked="" type="checkbox"/>
Coniferous	<input type="checkbox"/>	Fallen trees	<input checked="" type="checkbox"/>
		Coarse woody debris	<input checked="" type="checkbox"/>

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

Verticality - free fall	<input checked="" type="checkbox"/>	Vertical check-out - slack	<input checked="" type="checkbox"/>
Concave (C)	<input checked="" type="checkbox"/>	Exposed bedrock	<input checked="" type="checkbox"/>
Step-pool sequence	<input checked="" type="checkbox"/>	Exposed boulders	<input checked="" type="checkbox"/>
Step-pool - wide/short	<input checked="" type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>
Step-pool sequence	<input checked="" type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>
Flow - disturbed, stepped	<input checked="" type="checkbox"/>	Medium islands (I)	<input checked="" type="checkbox"/>
Flow - unobstructed	<input checked="" type="checkbox"/>	Unvegetated side bars	<input checked="" type="checkbox"/>
Glides - smooth, no eddies	<input checked="" type="checkbox"/>	Vegetated side bars	<input checked="" type="checkbox"/>

Have you completed your responses from this work? (Send G and J for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	6.50	RIGHT BANK	
Banking height (m)	Water width (m)	5.0	Banking height (m)	1.25
Banked height (m)	Water depth (m)	0.50	Banked height (m)	

If waterline lower than banking break in slope, indicate height (m) width (m)

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

Location of measurement by: riffle run or glide other (tick one box) Slope (H/R m/s) **1/5**

M ARTIFICIAL FEATURES (Use for 33% banktop or D if percent)

None Number of Culverts = **0** Weirs = **0** Outfalls = **0** Fords = **0**
 Is size level controlled by weir/dam downstream? No Part of site Part of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

angling netting Other? **see GARDENS, FISH, LOAN P.**
 scrubbing enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate feature)

CHANNEL: Way-side > 5m high FLOODPLAIN (60m consider): Artificial open water Eng Other (tick)
 End-of-side channel Natural open water Cut
 Debris dams Water meadow Marsh
 Ledy debris Fen Flack

P CHOKED CHANNEL (tick one box)

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

Q 'NOTABLE NUISANCE PLANT SPECIES' (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? **Site**

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

Descriptive statement: **Part of site is heavily wooded. Top 100m down to a...**
 Major observations: **see GARDENS, FISH, LOAN P.**
 Incidental observations (animals etc): **None**

S DISEASED ALGAE (tick one box)

None Present Extensive Other (detailed text)

SEND COMPLETED FORMS TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKER, WAREHAM, DT96 6EB

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

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: **4163**
 Mid-section grid reference of network site if different from designated location: **GA**

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **ST452717** River: **LAND YEO**
 Date: **12/17/1995** Time: **09:00** Supervisor name: **78, 74 PM 16 AK 70m**
 Adverse conditions affecting survey? No Yes If yes, state: **62 miles W of ...**

Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) **with ...**
 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 + NITE/old ...

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (tick one box only)

Riffles **3** Unvegetated point bars
 Pools **3** Vegetated point bars

Natural Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles Pools Unvegetated point bars Vegetated point bars

Spot check 1 to 10 systems and 10 sites (tick one box)

LEFT BANK	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications	NO	NO	NO	EM	EM	NO	NO	RS	RS	NO
Bank features	SC	NO	SC	NO	SC	NO	NO	NO	NO	NO
CHANNEL NOTE	Flow type (fine) SP SP SP SP SP SP SP SP SP SP									
Channel substrate (fine)	GP	EP	SI	SI	EP	SI	SI	SI	SI	GP
Flow type (fine)	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
Channel modifications	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features	NO	NO	TR	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications	RS	NO	NO	NO	NO	NO	NO	RS	RS	RS
Bank features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

E. BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide stretch)

Land use choice one from RL, CL, PL, SC, PL, VE, OW, JO, IL, SU

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

F. CHANNEL VEGETATION TYPES (tick in relevant boxes)

NONE (tick)	Plant genus (tick one)									
Emergent broad-leaved	Agave									
Emergent narrow-leaved	Digitaria									
Flowering	Callitriche									
Free-floating	Lythrum									
Amphibious										
Schweizer	Elaeagnus									
Submerged fine-leaved	Polypodium									
Filamentous algae										

The end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 500m (one E or V) +

NOTES - Use tick in boxes of genus or plant name in column E or V + species if possible or plant part or plant name in part E or V

Notes: head ground water below

Notes: Use tick in boxes of genus or plant name in column E or V + species if possible or plant part or plant name in part E or V

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

I. LAND USE WITHIN 50m OF BANKTOP (tick one box only)

Broadleaf/mixed woodland (B1)	Wetland (eg bog, marsh, fen) (W1)		
Coniferous plantation (C1)	Open water (O1)		
Moorland/heath (M1)	Improved/semi-improved grass (G1)		
Scrub (S1)	Tilled land (T1)		
Rough pasture (R1)	Suburban/urban development (U1)		

J. BANK PROFILES (tick one box only)

Natural/unmodified	Artificial/unmodified		
Vertical/steep	Reinforced		
Vertical + top	Reinforced - whole bank		
Step (>45°)	Reinforced - top only		
Grass	Reinforced - toe only		
Concrete	Artificial toe-rings		
Use of stone in bank profile	Reinforced		
Use of stone in bank profile	Reinforced		
Use of stone in bank profile	Reinforced		

K. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

Trees	ASSOCIATED FEATURES		
Ness	Shading of channel		
Inclined/steep	Overhanging boughs		
Regularly spaced, single	Exposed bankside roots		
Occasional clumps	Underwater tree roots		
Semi-coniferous	Fallen trees		
Coniferous	Coarse woody debris		

L. EXTENT OF CHANNEL FEATURES (tick one box per feature)

Waterfall(s) - freefall	Marginal dunebank - steep		
Cascade(s) - chute	Exposed bedrock (C/L/S)		
Step-pool sequence	Exposed boulders		
Rapids(s) - mid-water	Unvegetated mid-channel bars		
Riffle-pool sequence	Vegetated mid-channel bars		
Runs(s) - disturbed, rippled	Station islands (I/L/S/T)		
Boils(s) - swirling	Unvegetated side bars		
Glide(s) - smooth, no eddies	Vegetated side bars		

Have you completed your species from this reach? (circle E or V for signature)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

M. CHANNEL DIMENSIONS (to be measured at one site on a straight uniform section, preferably across a riffle)

LEFT BANK	Banktop width (m)	7.0	RIGHT BANK
Banktop height (m)	Water width (m)	3.5	Banktop height (m)
Embanked height (m)	Water depth (m)	0.7	Embanked height (m)

If bankline lower than banktop break in slope, indicate height (m) **0.7** within **6.0**

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

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

N. ARTIFICIAL FEATURES (tick one box only)

Ness Number of Culverts = **3** Weirs = **1** Outfalls = **3**
 Footbridges = **3** Roadbridges = **0** Other = **(TRAC-E)**

Is water level controlled by weirs/dam structures? No Part of site Embankment hole of site

O. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

Grading mowing Other? State **...**
 weeding enhancement

P. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL: Waterfalls > 5m high Artificial open water Bog Other (state) **...**
 Braided/side channels Natural open water Cut
 Debris dams Water meadow Marsh
 Lush debris Fen Flork

Q. CHOKED CHANNEL (tick one box)

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

R. NOTABLE NUISANCE PLANT SPECIES (tick one box only)

Other Hogweed Himalayan Balsam Japanese Knotweed Other? State **...**

S. BRIEF DESCRIPTION (use prompts and key words as appropriate)

Describe in sentences: **Lowland channel, AP substrate 1/2 Silt 1/2: waxy SW.**
 Plants of note (see list): **Willow at top end = split channel + weir.**

Major construction features: **RS/Dredged = steep banks.**

Major invertebrates: **Kingfisher seen.**

Incidental observations (animals etc): **Kingfisher seen.**

IF E or V ticked for (tick one box) Filtered
Aspen ground's Calceolaria splend. Plectrocnemia species.

T. DISTANCED ALIENS (tick one box)

Ness Present Extinct Other (state) **...**

SEND COMPLETED FORMS TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Envelopes supplied! Part completed forms for painting - labels supplied separately

SNA RIVER HABITAT SURVEY 1995 106 m.d.A Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) _____ Slope (m/km) _____ Flow category (1-10) _____
 Solid geology code _____ Dist. geology code _____ Platform category _____
 Distance from source (km) _____ Significant tributary? _____ Navigation? _____

B. FIELD SURVEY DETAILS

Reference network site number: 4291
 Mid-section grid reference of network site if different from designated location: _____

C. COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SS42563 River: 12. GARDNER
 Date: 12.5.1995 Time: 11.30 Surveyor name: G.C. MILES
 Adverse conditions affecting survey? No Yes If yes, state: _____
 End of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) Site surveyed from: left bank right bank channel (tick as appropriate)

D. PREDOMINANT VALLEY FORM (tick one box only)

shallow vee terraced valley floor
 deep vee asymmetrical floodplain
 gorge asymmetrical floodplain + notes/mk. diagram
 concave bowl

E. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use left hand column total number)

Riffles: 16 Unvegetated point bars: 1
 Pools: 4 Vegetated point bars: _____

106 m.d.A National Rivers Authority

SNA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

F. PHYSICAL ATTRIBUTES (to be measured across channel within 2m wide zone)

Type of bank	Vegetated point bars									
	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
RIGHT BANK										

G. POINT OF LAND USE AND VEGETATION STRUCTURE (to be measured over a 10m wide transect)

Land use within 5m of bank top	PL	RL	FL	EL	BL	BR	EL	ER	FL	FR
LEFT BANK TOP	S	S	S	S	S	S	S	S	S	S
RIGHT BANK TOP	S	S	S	S	S	S	S	S	S	S

H. CHANNEL VEGETATION TYPES (to be measured across with one eye to 15% area of ground)

None	Plant species (tick one)
Emergent vegetation	<input checked="" type="checkbox"/>
Submerged vegetation	<input checked="" type="checkbox"/>
Emergent reeds	<input checked="" type="checkbox"/>
Submerged reeds	<input checked="" type="checkbox"/>
Emergent sedge	<input checked="" type="checkbox"/>
Submerged sedge	<input checked="" type="checkbox"/>
Free floating	<input checked="" type="checkbox"/>
Algae	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Use and 'tick all' column for types not occurring in spot checks as well as overall assessment over 100m (use E or S)

SNA RIVER HABITAT SURVEY 1995: 100m SWEEPUP Page 3 of 4

I. LAND USE WITHIN 5m OF BANKTOP (Use E for 15% banktop) and if present

Land use	L	R	L	R
Deciduous woodland (D)				
Coniferous plantation (C)				
Meadow (M)				
Field (F)				
Rough pasture (R)				
Suburban/urban development (U)				

J. BANK RIFFLES (Use E for 15% banktop) and if present

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical + toe			Reinforced - whole bank		
Swamp (S)			Reinforced - top only		
Grass			Reinforced - toe only		
Composites			Artificial re-creation		
			Reinforced		
			Embanked		
			Bank reinforcement		

K. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

Trees	LA	Right	Ways	Left	None	Present	None
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Included/extended	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

L. EXTENT OF CHANNEL FEATURES (tick one box per feature)

Channel	None	Present	None	Present	None
Vertical + toe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reinforced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embanked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bank reinforcement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Have you completed your sweepups for this reach? (send to ASD for register)

SNA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

M. CHANNEL DIMENSIONS (to be measured at one site on a straight uniform section, preferably across a riffle)

LEFT BANK	Channel width (m)	5.0	RIGHT BANK
Banking height (m)	1.0	Water depth (m)	5.5
Banked height (m)		Banked height (m)	1.0

If bankline lower than banking height in slope, indicate height (m) width (m)

N. ARTIFICIAL FEATURES (Use left hand column total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____
 Footbridges = _____ Roadbridges = 1 _____
 Is water level controlled by weir/dam development? No Part of site Mouth of lake

O. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

Grading mowing Other?
 Weedcutting enhancement

P. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL: Weirfalls > 5m high Artificial open water Big Other (note) _____
 Bankside channels Natural open water Cwm
 Debris dams Water meadow Slack
 Leafy debris Fens Flash

Q. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

R. NOTABLE NUISANCE PLANT SPECIES (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State: _____

S. BRIEF DESCRIPTION (Use proper and lay words as appropriate)

Description: Reach 100m sweepup
 Photo of notes: _____
 Major conservation features: _____
 Major impacts: _____
 Incidental observations (animals etc): Common toad

Is a record kept by the ASD?

T. DISEASED ALGAE (tick one box)

None Present Extensive Other (disease) _____ State: _____

SEND COMPLETED FORMS TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WARHAM, NORFOLK

Envelope supplied! Post completed forms for processing. Labels supplied.

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/Lm) Flow category (1-10)
 Solid geology code Drift geology code Planform category
 Distance from source(Lm) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 4211
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: 5591063 River: CLUWME
 Date: 12/16/1995 Time: 12:41 Surveyor name: T.B. W. F.H. L.A.K. T.O.M.
 Adverse conditions affecting survey? No Yes If yes, state: _____
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) Site type: _____
 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 + NATURAL CHANNEL
 concave/bowl

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

Ripples Unvegetated point bars
 Pools Vegetated point bars
 IFE-Mod - see notes p.111

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Ripples Pools Unvegetated point bars Vegetated point bars

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

Spot check 1 to 10: upstream end of stream (tick one)	1	2	3	4	5	6	7	8	9	10
LEFT BANK	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank modifications	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL NOTE										
Channel substrate (fine)	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
Flow type (fine)	UW	UW	UW	UW	UW	UW	UW	UW	UW	UW
Channel modifications	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank modifications	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from RL, CP, SW, SC, ST, PL, OW, R, H, SU

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

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

NONE (tick)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Emergent reeds	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Free-floating	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Amphibious	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Submerged, broad-leaved	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Submerged, fine-leaved	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Filament, alga	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

NOTE: Use tick boxes of Green or Yellow for vegetation + species if possible of the past 6 botanical parties

JAMES Keen ground nitrate nitrite nitro

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use E (in 33% banklength) or P (present))

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

I BANK PROFILES (Use E (in 33% banklength) or P (present))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Recessed	<input type="checkbox"/>	<input type="checkbox"/>
Vertical + toe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - whole bank	<input type="checkbox"/>	<input type="checkbox"/>
Step (>45°)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - top only	<input type="checkbox"/>	<input type="checkbox"/>
Grate	<input type="checkbox"/>	<input type="checkbox"/>	Reinforced - toe only	<input type="checkbox"/>	<input type="checkbox"/>
Composite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Artificial two-stage	<input type="checkbox"/>	<input type="checkbox"/>
			Recessed	<input type="checkbox"/>	<input type="checkbox"/>
			Embanked	<input type="checkbox"/>	<input type="checkbox"/>
			Set-back embankments	<input type="checkbox"/>	<input type="checkbox"/>

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per bank)

TREES	Left	Right	WATER	E 23%	None	Present	E	WATER
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stem-contiguous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASSOCIATED FEATURES								
Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Waterfall(s) - free-fall	<input type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - slick	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Caecid(s) - chute	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Step/pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rap(s) - whitewater	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Riffle point sequence	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Run(s) - disturbed, rippled	<input type="checkbox"/>	<input type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beil(s) - upwellings	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Old(s) - smooth, no eddies	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Have you completed your equestrian from this week? (Send to FWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

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

If trachee 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 indicates total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____
 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 moving Other? State _____
 re-vegetating enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m corridor)		
Waterfalls > 5m high	Artificial open water	Bog	Other (state) _____
Bankside/side channels	Natural open water	Carr	
Debris dams	Water meadow	Marsh	
Loose debris	Fra	Flush	

P CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOXIOUS NUISANCE PLANT SPECIES (Use or)

Great Horned Himalayan Balsam Japanese Knotweed Other? State _____

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

Descriptive sentence: LH bank wooded, RH bank grassed, many runs, with erodible bank underlying into forest.

Plants of note:
 Major conservation features:
 Major impacts:
 Incidental observations (animals etc): Sparrows

IFE? channel only ticks filtered

S DISEASED ALDERS (Tick one box)

None Present Extensive Other disease/insect? State _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 0BB

Envelopes supplied! Post completed forms for processing - labels supplied at site

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Planform category
 Distance from source(m) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: C4792
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES DD DH IH CC ML
 Grid Reference: ST 023011 River: W. W. RIVER
 Date: 11/1995 Time: 14:00 Surveyor name: JR, TM, LAK, TLO
 Adverse conditions affecting survey? No Yes If yes, state: None
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) 5/10/15 m
 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 + NATURAL/ARTIFICIAL CHANNEL

D NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Riffles 0 Unvegetated point bars 2
 Pools 0 Vegetated point bars 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide cross-section)

Spot check to be assessed at	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Mat. <u>SLICE</u>										
Bank modification										
Bank form										
CHANNEL										
Channel substrate										
Flow type										
Channel modification										
Channel form										
RIGHT BANK										
Mat. <u>SLICE</u>										
Bank modification										
Bank form										

F BANKTOP LAND USE AND VEGETATION STRUCTURE

Land use codes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

G CHANNEL VEGETATION TYPES (tick one box only)

None Herbaceous

Emergent broad-leaved None
 Emergent narrow-leaved None
 Floating-leaved None
 Free floating None
 Amphibious None
 Submersed None
 Free-floating None
 Emergent None
 Emergent None

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP

	L	R	L	R
Predominant woodland (W)				
Cultivation (C)				
Meadow (M)				
Scrub (S)				
Rough pasture (R)				

I BANK PROFILES

	L	R	L	R
Natural/undisturbed				
Vertical + toe				
Steep (> 45°)				
Gentle				
Composite				

J EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	None	Present	None	Present
Included/straggled				
Regularly spaced, single				
Occasional clumps				
Semi-continuous				
Continuous				

K EXTENT OF CHANNEL FEATURES

	None	Present	None	Present
Waterfall(s) - free fall				
Canadian(s) - close				
Step-pool sequence				
Rapid(s) - whitewater				
Riffle pond/sequence				
Race(s) - disturbed, rippled				
Belt(s) - upwelling				
Glide(s) - smooth, no eddies				

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

L CHANNEL DIMENSIONS

	Left Bank	Right Bank
Bank height (m)		
Bank width (m)		
Bank depth (m)		

M SPHERICAL VEGETATION

None Number of Culverts = 1 Width = 1 Overfall = 2 Pools = 1
 Bank edges = 1 Front of site Mouth of site

N CHANNEL MANAGEMENT

digging sawing Other? State
 weed-killing enhancement

O TYPES OF SPECIAL INTERESTS

Channel FLOODPLAIN (tick one box)
 Waterfalls > 5m high Artificial open water Bog
 Bankside channels Natural open water Carr
 Delta delta Water meadow Marsh
 Logjams Pits Pools

P CHANNEL CHARACTERISTICS

In 33% or more of the channel did it with vegetation? NO YES

Q BIOLOGICAL WEEDS AND PLANT SPECIES

Clay Heptag Hemlock Fern Japanese Knotweed Other? State

R IBI DESCRIPTION

Duration: Site controlled by weir, cover grass has blocked up
 Flows of water: Site controlled by weir, cover grass has blocked up
 Major conservation features: None
 Major impacts: None
 Incidental observations (animals etc): None

S IBI SCORE

None Present Extensive Other (describe) State

Have you completed your expenses from this work? (Send to PWD for signature!)

SPWD COMPLETED FORM TO NEVIL HANSON, IFE, RIVER LABORATORY, EAST STAIRS, WARRHAM, DD20 6BB

NRA RIVER HABITAT SURVEY 1995: 7EN SPOT CHECKS Page 2 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) _____ Slope (m/km) _____ Flow category (1-10) _____
 Solid geology code _____ Drift geology code _____ Platform category _____
 Distance from source (km) _____ Significant tributary ? _____ Navigation ? _____

B. FIELD SURVEY DETAILS

Reference network site number: 6204
 Mid-section grid reference of network site if different from designated location: _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: 602502E2 River: W. of 6204
 Date: 11/1/95 Time: 10:30 Supervisor name: PH 14AK 700
 Adverse conditions affecting survey? No Yes If yes, state: _____
 Bed of river visible? No partially entirely (pick one box)
 Photograph (general character)? No Yes (pick one box) 50m
 Site surveyed from: left bank right bank channel (pick as appropriate)

C. PREDOMINANT VALLEY FORM (tick one box only)

shallow vee terraced valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 concave/bowl + river/valley meanders

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (tick one box for each)

Riffles 6 Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: 7EN SPOT CHECKS Page 2 of 4

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

LEFT BANK (tick one box)

Bank material (m)	1	2	3	4	5	6	7	8	9	10
Bank modification (m)	1	2	3	4	5	6	7	8	9	10
Bank feature (m)	1	2	3	4	5	6	7	8	9	10

CHANNEL NOTE Use the following codes to describe channel features:

Channel substrate (m) 1 2 3 4 5 6 7 8 9 10
 Flow type (m) 1 2 3 4 5 6 7 8 9 10
 Channel modification (m) 1 2 3 4 5 6 7 8 9 10

RIGHT BANK (tick one box)

Bank material (m)	1	2	3	4	5	6	7	8	9	10
Bank modification (m)	1	2	3	4	5	6	7	8	9	10
Bank feature (m)	1	2	3	4	5	6	7	8	9	10

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

Land use: choose one from PL, CR, HR, SC, SL, PL, CR, SL, PL

LAND USE WITHIN 5m OF BANKTOP (S)	1	2	3	4	5	6	7	8	9	10
LEFT BANK FACE (structure)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK FACE (structure)	1	2	3	4	5	6	7	8	9	10
RIGHT BANK-TOP (structure within 2m)	1	2	3	4	5	6	7	8	9	10
LAND USE WITHIN 5m OF BANK TOP (S)	1	2	3	4	5	6	7	8	9	10

G. CHANNEL VEGETATION TYPES (tick in relevant boxes with one except for E (to 10% area) or 2 (green))

NONE (tick)	1	2	3	4	5	6	7	8	9	10
Emergent										
Submerged										
Emergent/terrestrial										
Terrestrial										
Free-floating										
Amphibious										
Submerged										
Submerged										
Submerged										
Submerged										

Use the 'tick-all' column for types not occurring in spot checks as well as overall assessment over 500m (see E or 7)

NOTES - Use tick boxes for presence of the following features + specify if possible of site part of management practice

NRA RIVER HABITAT SURVEY 1995: 800M SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (tick one box for each)

Irregular/wooded (S)	1	2	3	4	5	6	7	8	9	10
Crestline plantation (CP)										
Wooded bank (S)										
Bank (S)										
Brush pasture (S)										

I. BANK PROFILES (tick one box for each)

Natural/unmodified	1	2	3	4	5	6	7	8	9	10
Vertical/vertical										
Vertical + toe										
Edge (S)										
Grass										
Composite										

J. EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	None	Light	Heavy	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stiffing of channel	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/shrubland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>
Clonal/clump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>
Fern-woody	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>
Crestline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crude woody debris	<input type="checkbox"/>	<input type="checkbox"/>

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

Vertical - freefall	None	Present	Vertical - rock	None	Present
Vertical - stone	<input type="checkbox"/>	<input type="checkbox"/>	Vertical - rock	<input type="checkbox"/>	<input type="checkbox"/>
Vertical - concrete	<input type="checkbox"/>	<input type="checkbox"/>	Vertical - rock	<input type="checkbox"/>	<input type="checkbox"/>
Vertical - stone	<input type="checkbox"/>	<input type="checkbox"/>	Vertical - rock	<input type="checkbox"/>	<input type="checkbox"/>
Vertical - stone	<input type="checkbox"/>	<input type="checkbox"/>	Vertical - rock	<input type="checkbox"/>	<input type="checkbox"/>
Vertical - stone	<input type="checkbox"/>	<input type="checkbox"/>	Vertical - rock	<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banking width (m)	Banking height (m)	RIGHT BANK
	Water width (m)	Banking height (m)	Banking height (m)
	Water depth (m)	Banking height (m)	Banking height (m)

M. ARTIFICIAL FEATURES (tick appropriate box)

None Number of Culverts = _____ Weirs = _____ Other? 1 2 3 4 5 6 7 8 9 10

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

digging mowing Other? 1 2 3 4 5 6 7 8 9 10
 weed-control enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL Waterfalls > 5m high Artificial open water Eroded/side channels Natural open water Debris dams Water meadows Lush debris Fox

FLOODPLAIN (50m corridor) Artificial open water Eroded/side channels Natural open water Water meadows Fox

P. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (tick one box for each)

Great Reedweed Himalayan Balsam Japanese Knotweed Other? 1 2 3 4 5 6 7 8 9 10

R. BRIEF DESCRIPTION (tick appropriate boxes)

Descriptive sentence: _____

Major conservation features: _____

Major impacts: Red. running channels, recently dug broadleaved.

Incidental observations (animals etc): _____

S. SUSPENDED ALIENS (tick one box)

None Present Extensive Other (named trees) 1 2 3 4 5 6 7 8 9 10

SWED COMPLETED FOR: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 4EB

Have you completed your requests from this week? (send to PHD for reports!)

Thanks supplied! Best completed form for planning, details supplied

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

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(50m) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS

Reference network site number: 4304 *shell sand at any!*
Mid-section grid reference of network site if different from designated location: QA

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: SU 286382 River: WALLOP BROOK
Date: 21/7/1995 Time: 11:00 *7B, 7M, 16AK, 7cm*
Surveyor name: GC MRP NB *GC MRP NB*
Adverse conditions affecting survey? No Yes If yes, state

Bed of river visible? No partially entirely (tick one box)
Photographs: general character? No Yes (tick one box) *with 5-10 m! ground*
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 + NOTE/WHY?

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use \square if they indicate total numbers)

Riffles 1/1 Unvegetated point bars
Pools 1 Vegetated point bars

National Rivers Authority

Handwritten notes: 7B, 7M, 16AK, 7cm

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

I. LAND USE WITHIN 50m OF BANKTOP (Use E (to 25% banktop) or of stream)

	L	R	L	R
Broadleaved woodland (BL)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland (eg bog, marsh, fen) (W)	
Coniferous plantation (CP)			Open water (OW)	
Moorland/heath (MH)			Improved/best-improved grass (IG)	<input checked="" type="checkbox"/>
Scrub (SC)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tilted land (TL)	
Rough pasture (RP)			Suburban/urban development (SU)	<input checked="" type="checkbox"/>

J. BANK PROFILES (Use E (to 25% banktop) or of stream)

	L	R	L	R
Natural/unmodified	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Artificial/modified	
Vertical/cut			Recessed	
Vertical + toe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - whole bank	<input checked="" type="checkbox"/>
Steep (>45°)			Reinforced - top only	
Gentle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - toe only	
Composite			Artificial two-stage	
Use this space to draw profile if different from above, other tickly predominant box			Pushed	
			Embanked	
			Set-back embankments	

K. EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (Tick one box per bank)		ASSOCIATED FEATURES (Tick one box per feature)				
None	Left	Right	NOTE	None	Present	NOTE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Shading of channel	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Overhanging boughs	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Exposed bankside roots	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Underwater tree roots	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Fallen trees	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Coarse woody debris	<input checked="" type="checkbox"/>	

L. EXTENT OF CHANNEL FEATURES (Tick one box per feature)

Waterfall(s) - free fall	None	Present	NOTE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Canal(s) - close	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Slip/pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rapid(s) - whitewater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Riffle/pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Flow(s) - disturbed, rippled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bank(s) - springing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Glides(s) - smooth, no eddies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Have you completed your squares from this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (4) (10m x 10m) (10m) (10m)

Spot check 1 is at: upstream and downstream	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
LEFT BANK									
Bank modification(s)									
Bank feature(s)									
CHANNEL NOTE									
Channel substrate (fine)									
Flow type (fine)									
Channel modification(s)									
Channel feature(s)									
RIGHT BANK									
Bank modification(s)									
Bank feature(s)									

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

Land use choice one from: PL, CP, MH, SC, RP, IG, OW, BL, TL, SU

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

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry per E (to 25% area) or of stream)

NONE (tick)	Plant green (tick one)									
Lowland moss/breeds	<input checked="" type="checkbox"/>									
Emergent broad-leaved herbs	<input checked="" type="checkbox"/>									
Emergent reeds/ sedges	<input checked="" type="checkbox"/>									
Flowering-leaved (rooted)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Filament, algae										

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

Handwritten notes: 7B, 7M, 16AK, 7cm

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	3.0	RIGHT BANK	Banktop width (m)	3.0
	Banktop height (m)	0.7		Banktop height (m)	0.5
	Water width (m)	3.0		Water depth (m)	0.05
	Embanked height (m)			Embanked height (m)	

If unstable lower than banktop break in slope, indicate height (m) width (m)
Bed material at site: consolidated (compact) unconsolidated (loose) unknown

Location of measurement is: riffle run or glide other (tick one box) Slope (IFE only)
None

M. ARTIFICIAL FEATURES (Use 1/1 indicates total number, tick "none" where appropriate)

None Number of Culverts = 2 Weirs = 1 Outfalls = 0 Fords = 0
Footbridges = 2 Roadbridges = 6 Other = 0
Is water level controlled by weir/dam downstream? No Part of site Full flow hole of site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

drudging moving Other? State
weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 5m high	Artificial open water
Brick/drain channels	Natural open water
Debris dams	Water meadow
Leafy debris	Fin
	Bog
	Carr
	Marsh
	Flush

P. CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use / or E for 25% or more of bank length)

Great Hogweed Himalayan Balsam Japanese Knotweed Other? State

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

Descriptive sentence: Small chalk stream, GP substrate, RE/SPA flow.
Plant of note: (see list)
Major conservation features: many small bridges to houses
Major impacts: R1 banks along backs of houses & gardens
Incidental observations (animals etc): Brown trout (Salmo trutta).

IF 2 channels only (tick one box)

S. DISEASED ALDERS (Tick one box)

None Present Extensive Other diseased trees? State

SEND COMPLETED FORMS TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Handwritten notes: Enquiries supplied! Post completed forms for processing - labels supplied

NRA RIVER HABITAT SURVEY 1995: 4305 Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) _____ Slope (m/m) _____ Flow category (1-10) _____
 Solid geology code _____ Dist. geology code _____ Platform category _____
 Distance from source (km) _____ Significant tributary? _____ Navigation? _____

B. FIELD SURVEY DETAILS

Reference network site number **4305**
 Mid-section grid reference of network site if different from designed location _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River **4305**
 Date **21.3.1995** Time: **4.45** Surveyor name: **S. J. ...**
 Adverse conditions affecting survey? No Yes If yes, state _____
 Red 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. DOMINANT VALLEY FORM (tick one box only)

shallow vee terraced valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 constricted

D. NUMBER OF RIFLES, POOLS AND POINT BARS (Use 1-5 then indicate total number)

Rifles: Unvegetated point bars _____
 Pools: Vegetated point bars _____

National River Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Spot check 1 to 10 at upstream end downstream end of site (tick one box)

E. PHYSICAL ATTRIBUTES (to be measured across channel within a 2m wide zone)

Site = 10m total	1	2	3	4	5	6	7	8	9	10
Left bank										
Bank modification										
Bank features										
CHANNEL										
Channel substrate										
Flow type										
Channel bank structure										
Channel features										
RIGHT BANK										
Bank modification										
Bank features										

F. BANK OF LAND USE AND VEGETATION STRUCTURE (to be measured over a 10m wide channel)

Land use classes are from 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

LAND USE WITHIN 5m OF BANKTOP (L)	R	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 2m)											
LEFT BANK FACE (structure)											
RIGHT BANK FACE (structure)											
RIGHT BANK TOP (structure within 2m)											
LAND USE WITHIN 5m OF BANK TOP (R)											

G. CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry per E. (to 10% area) or if greater)

NONE (tick as appropriate)	1	2	3	4	5	6	7	8	9	10
Umbrella/deciduous										
Emergent broad-leaved herbs										
Emergent reeds/bulrushes										
Flowering reeds										
Tree flowering										
Aspen/Alnus										
Submerged broad-leaved										
Submerged fringing-leaved										
Flowering algae										

Use end 'check' column for types not occurring in spot checks as well as overall assessment over 10m (use E. or F.)

NRA RIVER HABITAT SURVEY 1995: 4305 SWEEPUP Page 2 of 4

H. LAND USE WITHIN 5m OF BANKTOP (Use 1-5 then indicate total number)

	L	R		L	R
Productive woodland (1-2)			Wooded (eg bog, marsh, etc) (1-2)		
Coniferous plantation (3-7)			Open water (10-12)		
Mixed broadleaved (8-10)			Improved/semi-improved grass (1-2)		
Scrub (1-2)			Tilled land (1-2)		
Rough pasture (1-2)			Suburban/urban development (1-2)		

I. BANK PROFILES (Use 1-5 then indicate total number)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut			Reinforced		
Vertical & toe			Reinforced - whole bank		
Sloping (1-2)			Reinforced - top only		
Gravel			Reinforced - toe only		
Concrete			Artificial revetment		
Other (tick one box per profile)			Revetment		
			Seaward embankment		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per tree)	None	Present	Extensive
Inclined/overhead			
Exposed spread, single			
Occasional clump			
Semi-continuous			
Continuous			

ASSOCIATED FEATURES (tick one box per feature)

None	Present	Extensive	
Shading of channel			
Overhanging branches			
Exposed bankside roots			
Underwater tree roots			
Fallen trees			
Coarse woody debris			

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

None	Present	Extensive	
Marginal deadwater - silt			
Exposed bedrock			
Exposed boulders			
Vegetated mid-channel bars			
Vegetated mid-channel bars			
Marine influence			
Vegetated side bars			
Vegetated side bars			

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Channel width (m)	1-5	RIGHT BANK
Banking height (m)	Water width (m)	1-5	Banking height (m)
Channel height (m)	Water depth (m)	1-5	Channel height (m)

If water level is less than banking level in slope, indicate height (m) within

Bed material at site by: silt/clay gravel sandstone other _____

Location of measurement by: riffle rap or slide other mid one bar (tick one box)

M. ARTIFICIAL FEATURES (Use 1-5 then indicate total number, tick 'none' where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____ Fords = _____
 Footbridges = _____
 Is water level controlled by a weir/dam structure? No Yes (tick one box) Mouth side of site

N. INFLUENCE OF RECENT MANAGEMENT (tick appropriate box)

cutting mowing Other? State _____
 weed control enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	FLOODPLAIN (tick one box)
Waterfalls > 1m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Bankside channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Double dams <input type="checkbox"/>	Water meadows <input type="checkbox"/>
Early debris <input type="checkbox"/>	Tree <input type="checkbox"/>

P. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE PLANT SPECIES (tick one box)

Great Reedweed Hibernian Waterwort Japanese Knotweed Other? State _____

R. BRIEF DESCRIPTION (Use pencil and big words as appropriate)

Description: _____
 Name of site: _____
 Major conservation features: _____
 Major features: _____
 Incidental observations (fish/molluscs etc): _____

S. DISTURBED ALIENS (tick one box)

None Present Extensive Other (tick one box) State _____

SEND COMPLETED FORMS TO: NINA DAWSON, IFA, RIVER LABORATORY, EAST STONE, WATFHAM, Lincs LN9 8ER

QA NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/m) Flow category (1-10)
 Sediment geology code Drift geology code Planform category
 Distance from source (km) Significant tributary? Navigation?

B. FIELD SURVEY DETAILS

Reference network site number: 4305
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: SU 544 325 River: TEST
 Date: 11/6/1995 Time: 2:52 Surveyor name: TR, JW, PH, I, AK, T, W
 Adverse conditions affecting survey? No Yes (if yes, state _____)
 Bed of river visible? No partially entirely (pick one box)
 Photographic general character? No Yes (pick one box) Yes
 Site surveyed from: left bank right bank channel (pick as appropriate)

C. PREDOMINANT VALLEY FORM (pick one box only)

shallow vee terraced valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain
 concave/convex

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10, then indicate total number)

Riffles Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

YES, record found valley channel

NRA RIVER HABITAT SURVEY 1995: 75m SPOT CHECKS Page 2 of 4

Riffles 1 Pools 1 Unvegetated point bars 1 Vegetated point bars 1

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 10m wide section)

Spot check 1 is at: upstream end of site (tick one) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
 LEFT BANK left bank | | | | | | | | | | |
 Bank material (fine) 17, 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 Bank modification(s) 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 Bank factor(s) 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 CHANNEL NOTE: 18, 19, 20, 21, 22, 23
 Channel substrate (fine) 17, 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 Flow type (fine) 17, 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 Channel modification(s) 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 Channel factor(s) 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 RIGHT BANK left bank | | | | | | | | | | |
 Bank material (fine) 17, 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 Bank modification(s) 18, 19, 20, 21, 22, 23 | | | | | | | | | | |
 Bank factor(s) 18, 19, 20, 21, 22, 23 | | | | | | | | | | |

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

Land use classes are from: FL, CL, TL, SL, PL, WL, SW, WL, SL, PL

LAND USE WITHIN 5m OF BANKTOP (L) | | | | | | | | | | |
 LEFT BANK-TOP structure within 5m SL, PL | | | | | | | | | | |
 LEFT BANK FACE (structure) SL, PL | | | | | | | | | | |
 RIGHT BANK FACE (structure) SL, PL | | | | | | | | | | |
 RIGHT BANK-TOP structure within 5m SL, PL | | | | | | | | | | |
 LAND USE WITHIN 5m OF BANK TOP (R) | | | | | | | | | | |

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry use E (to 33% area) or J (percent))

NONE (tick) Plant species (tick one)
 Emergent broad-leaved herbs
 Emergent narrow-leaved herbs
 Floating-leaved
 Free-floating
 Amphibious
 Submerged broad-leaved
 Submerged narrow-leaved
 Filamentous algae

Use end "tick-all" column for types not occurring in spot checks as well as overall assessment over 100m (see E or J)

LEFTS - Use tick-all column for types not occurring in spot checks as well as overall assessment over 100m (see E or J)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banktop) or J (percent))

	L	R	L	R
Broadleaved woodland (B1)			Wetland (eg bog, marsh, fen) (W1)	
Coniferous plantation (C1)			Open water (O1)	
Moorland/heath (H1)			Improved/improved grass (IG)	
Scrub (SC)			Tilled land (TL)	
Rough pasture (RP)			Suburban/urban development (UD)	

I. BANK PROFILES (Use E (to 33% banktop) or J (percent))

	L	R	Artificial/modified	L	R
Natural/unmodified					
Vertical/undercut	<u>1</u>	<u>2</u>	Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial structures		
			Perched		
			Embedded		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	LA	RIGHT	ASSOCIATED FEATURES (tick one box per feature)	None	Present	E	J
None	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>		
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>		
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>		
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>		
Stand-continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>		
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>		

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present	E	J
Waterfalls - free-fall	<input type="checkbox"/>	<input type="checkbox"/>		
Waterfalls - chute	<input type="checkbox"/>	<input type="checkbox"/>		
Step-pool sequences	<input type="checkbox"/>	<input type="checkbox"/>		
Rapids - whitewater	<input type="checkbox"/>	<input type="checkbox"/>		
Riffle-pool sequences	<input type="checkbox"/>	<input type="checkbox"/>		
Runs - turbulent, rippled	<input type="checkbox"/>	<input type="checkbox"/>		
Runs - spooling	<input type="checkbox"/>	<input type="checkbox"/>		
Glides - smooth, no eddies	<input type="checkbox"/>	<input type="checkbox"/>		
Marginal backwater - slack	<input type="checkbox"/>	<input type="checkbox"/>		
Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>		
Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>		
Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>		
Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>		
Major islands	<input type="checkbox"/>	<input type="checkbox"/>		
Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>		
Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>		

Have you completed your requests from this work? (send to RWS for signature)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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)	<u>7.0</u>	Banktop height (m)
Water width (m)	<u>7.0</u>	Water width (m)
Banked height (m)	<u>7.0</u>	Banked height (m)
Water depth (m)	<u>7.0</u>	Water depth (m)
Embankment height (m)	<u>7.0</u>	Embankment height (m)

If bankline lower than banktop bank to slope, indicate height (m) - width (m)
 Bed material at site is: consolidated (temp) unconsolidated (fine) unknown

Location of measurement is: riffle run or glide other (tick one box) Slope (1% only)

M. ARTIFICIAL FEATURES (Use 1-10 indicate total number, tick 'None', where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfalls = _____
 Piers/bridges = _____ Piers/bridges = _____ Other = _____

Is water level controlled by weirs/dam structures? No Part of site Full of site

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

Grading mowing Other? State _____
 weed-killing enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL
 Waterfalls > 2m high Artificial open water Beg Other (tick) _____
 Braided/side channels Natural open water Cur
 Debris dams Water meadow Bank
 Loose debris Pin Flank

P. CHOKED CHANNEL (tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES (Use E or J)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State _____

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

Descriptive sentences:
 Plants of note:
 Major conservation features:
 Major impacts:
 Incidental observations (animals etc):

IF 2 channels only tick

SEND COMPLETED FORMS TO HUGH DANTON, IFR, RIVER LABORATORY, EAST STONE, WARHAM, ENDO 6EB

Envelope supplied! Post completed form for forwarding labels supplied.

NRA RIVER HABITAT SURVEY 1995 USE ONLY A Page 1 of 4

BACKGROUND MAP-BASED INFORMATION

Altitude (m) _____ Slope (m/km) _____ Flow category (1-10) _____
 Solid geology code _____ Drift geology code _____ Tuffform category _____
 Distance from source (km) _____ Significant tributary? _____ Navigation? _____

B FIELD SURVEY DETAILS

Reference network site number: **4333**
 Mid-section grid reference of network site if different from designated location _____

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: **S T 239702** River: **Bowditch Brook**
 Date: **21.5.1995** Time: **17.10** Surveyor name: **J.C. Miles**
 Adv. site conditions affecting survey? No Yes If yes, state: _____
 End of river visible? No partially entirely (tick one box)
 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
 wide asymmetrical floodplain
 concave-deel + water/mud channels

D NUMBER OF RIFLES, POOLS AND POINT BARS (Use 1-11 then indicate total number)

Rifles: HT 1, HT 2, HT 3, HT 4, Unvegetated point bars: 4
 Pools: HT 1, HT 2, HT 3, HT 4, Vegetated point bars: 4

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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

Type check 1 to 10 upstream and 1 to 10 downstream (tick one)

Attribute	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Bank material (fine)	CL	FL	FA	CA	CA	SL	SA	GA	GA	SL
Bank material (coarse)	IL	FL	NO	NO	NO	NO	NO	NO	NO	NO
Bank features	FL	FL	SE	SC	NO	NO	SC	SE	NO	SL
Channel substrate (fine)	SL	FL	CO	CA	CO	CO	CO	CO	CO	NO
Flow type (fine)	LP	LP	RP	NO	NO	NO	NO	NO	NO	NO
Channel modification	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK										
Bank material (fine)	SL	FL	FA	CA	CA	SL	SA	GA	GA	SL
Bank material (coarse)	IL	FL	NO	NO	NO	NO	NO	NO	NO	NO
Bank features	FL	FL	SE	SC	NO	NO	SC	SE	NO	SL

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

Land use: check one from SL, FL, NO, SC, RP, LP, CO, SA, GA

Land Use Within 5m of Banktop (3)	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 1m)	C	C	C	S	C	C	C	C	C	C
LEFT BANK FACE (structure)	B	S	S	S	S	S	S	S	S	S
RIGHT BANK FACE (structure)	B	S	S	S	S	S	S	S	S	S
RIGHT BANK TOP (structure within 1m)	C	C	C	C	C	C	C	C	C	C

G CHANNEL VEGETATION TYPES (to be assessed along bank with one strip 10m E to 10m W of channel)

Vegetation Type	1	2	3	4	5	6	7	8	9	10
NONE (tick)										
Large trees										
Medium trees										
Small trees										
Shrubland										
Grassland										
Open water										
Other										

Use the 'Other' column for types not occurring in spot checks as well as overall assessment over 500m (use E or W)

NOTES: Use the 4 digits of Channel ID, site reference, and species of plants of fish pool & fishway particular

NRA RIVER HABITAT SURVEY 1995: 400m SWEEP-UP Page 3 of 4

H LAND USE WITHIN 50% OF BANKTOP (Use E to 10% height of 1st of period)

Land Use	L	R	Land Use	L	R
Productive woodland (PL)			Wetland (eg bog, marsh, fen) (W)		
Cultivated pastures (CP)			Open water (OW)		
Woodland scrub (SW)			Improved/maintained grass (IG)	E	E
Bare (B)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I BANK PROFILES (Use E/W 10% height) (tick one per profile)

Profile	L	R	Profile	L	R
Natural/unmodified			Artificial/unmodified		
Vertical + toe	✓	✓	Reinforced - toe back	✓	✓
Steep (2:1)	✓	✓	Reinforced - toe only	✓	✓
Grass	✓	✓	Reinforced - toe only	✓	✓
Concrete			Artificial toe/ridge		
Use 0% open or flow profile of 50% open flow, other (tick appropriate box)			Flooded		
			Embedded		
			Subsided embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

Trees	Left	Right	None	Present	Associated Features	None	Present	None	Present	
Isolated/uniform	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sticking of channel	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging banks	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed bankside scum	<input type="checkbox"/>	<input type="checkbox"/>	Underwater low water	<input type="checkbox"/>	<input type="checkbox"/>
Overlaid change	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>	<input type="checkbox"/>
Scattered/uniform	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>	<input type="checkbox"/>

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

Feature	None	Present	None	Present	None	Present	
Waterfalls - free fall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marginal discharge - solid	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>
Overfalls - above	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>
Step-pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>
Rapids - uniform	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>
Riff-pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>
Flow - laminar, applied	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Station islands	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>
Belt - spreading	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>
Glide - smooth, no eddies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>	Obstructions	<input type="checkbox"/>

Have you completed your responses from this week? (Send 6 PSD for reports!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

Attribute	Left Bank	Right Bank
Banking height (m)	4.0	1.0
Bank top height (m)	1.0	1.0
Banked height (m)	3.0	0.0
Bank top width (m)	17.0	17.0
Bank top height (m)	1.0	1.0
Banked height (m)	0.0	0.0

If bankline lower than head top break in slope, indicate height (m) width (m)

End material at site by: consolidated (proper) unconsolidated (poor) where?

M ARTIFICIAL FEATURES (Use 1-11 then indicate total number, tick 'none' where appropriate)

None Number of Obstructions = _____ Weirs = 1 _____ Outfalls = 1 _____ Piers = _____
 In water level controlled by upstream development? No Part of site Downstream of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

drugging mowing Other? Site _____
 weeding enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

Channel	Floodplain (50m centres)
Waterfalls > 5m high	Artificial open water <input type="checkbox"/>
Bankside channels	Natural open water <input type="checkbox"/>
Debris dams	Water meadow <input type="checkbox"/>
Large debris	Fen <input type="checkbox"/>
	Big <input type="checkbox"/>
	Cur <input type="checkbox"/>
	Shrub <input type="checkbox"/>

P CHOSED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (tick one box)

Giant Hogweed Miconium Bolson Japanese Knotweed Other? Site _____

R BRIEF DESCRIPTION (Use prompts and tick, words as appropriate)

Descriptive statement: all structures on bank side banks, upper section
 Flats of water
 Major excavation features
 Major impacts
 Incidental observations (animals etc)

IF 2 checked, copy to file IF 1 checked

S DISEASED ALGAE (tick one box)

None Present Extensive Other (name) _____

SEND COMPLETED FORMS TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WARRHAM, BORDERS
 Envelopes supplied! Post completed file for processing (labels supplied)

NRA RIVER HABITAT SURVEY 1995: FORM A Page 3 of 4

A BACKGROUND MAP-BASED INFORMATION:

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS:

Reference network site number: 4333
 Mid-section grid reference of network site (if different from designated location): QA

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: ST 239 203 River: BROUGHTON BROOK
 Date: 11/7/1995 Time: 16:15 Surveyor name: JB, JH, PH, LA, AK, JEM
 Adverse conditions affecting survey? No Yes If yes, state: None

End of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) Sub 2, 3, 4, 5, 6, 7, 8, 9, 10
 Site surveyed from: left bank right bank channel (tick as appropriate)

C PREDOMINANT VALLEY FORM (tick one box only):

shallow vee (see D.12) terraced valley floor
 deep vee symmetrical floodplain
 gorge asymmetrical floodplain + riverbank terraces
 concave/bowl swale/cut + 100m wide

D NUMBER OF RIPPLES, POOLS AND POINT BARS (Use 1/2 when indicate total number):

Ripples 13 Unvegetated point bars 5
 Pools 14 Vegetated point bars 1

National Rivers Authority

DATES: record found present visited future checks

NRA RIVER HABITAT SURVEY 1995: T.L.N SPOT CHECKS Page 2 of 4

Left Bank Right Bank
 Unvegetated point bars Vegetated point bars

E PHYSICAL ATTRIBUTES (to be assessed across channel within a 3m wide zone) (1) Max. L (m) (2) Feature (3)

Type check 1 in at system end (tick one)

	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	GA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank material (coarse)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Bank features	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
Channel substrate (fine)	BE	BE	GP	SA	GP	GP	GP	GP	GP	GP
Channel substrate (coarse)	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
Channel modifications	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Channel features	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

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

Land use: check one from SL, CL, PL, CL, PL, CL, PL, CL, PL, CL, PL, CL, PL

LAND USE WITHIN 2m OF BANKTOP (L)	SL	CL	PL	CL	PL	CL	PL	CL	PL	CL
LEFT BANK TOP (structure within 2m)	S	S	U	S	S	U	S	S	U	S
LEFT BANK FACE (structure)	S	S	U	S	S	U	S	S	U	S
RIGHT BANK TOP (structure within 2m)	U	S	U	U	S	U	U	S	U	U
RIGHT BANK FACE (structure)	U	S	U	U	S	U	U	S	U	U
RIGHT BANK TOP (structure within 10m)	S	S	U	S	S	U	S	S	U	S
LAND USE WITHIN 5m OF BANK TOP (R)	U	S	U	U	S	U	U	S	U	U

G CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry per E (in 3% area) or 4 (greater))

NONE (tick)										
Liverwort mosses										
Emergent broad leaf herbs										
Emergent reeds/ sedges										
Flowering broad leaf (wood)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Flamers, algae										

Use end 'batch' column for type not occurring in spot checks as well as overall assessment over 100m (use E or 4)

H PLANTS Use 1-4 ticks of density in 10m x 10m area + species if possible of Peter's list of Potamogeton plants

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

I LAND USE WITHIN 50m OF BANKTOP (Use E (in 3% banktop) or 4 if period)

	L	R		L	R
Broadleaved woodland (BL)					
Coniferous plantation (CP)					
Wooded/bush (BH)					
Scrub (SC)					
Rough pasture (RP)					
Natural/unmodified					
Vertical/vertical					
Vertical + toe					
Steep (>45°)					
Groynes					
Composts					

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	None	Present	None	Present	None	Present	None	Present
Isolated/straggled								
Regularly spread, single								
Occasional clumps								
Stem-cohesiveness								
Cohesiveness								
ASSOCIATED FEATURES	None	Present	None	Present	None	Present	None	Present
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)

Waterfall(s) - free-fall	None	Present	None	Present	None	Present	None	Present
Creosote(s) - close								
Step-pool sequence								
Rapid(s) - whitewater								
Riffle-pool sequence								
Rune(s) - disturbed, rippled								
Bank(s) - spilling								
Glides(s) - smooth, no eddies								
Marginal dead-water - slack								
Exposed bedrock								
Exposed boulders								
Unvegetated mid-channel bars								
Vegetated mid-channel bars								
Stony islands								
Unvegetated side bars								
Vegetated side bars								

Have you completed your expenses for this work? (send to RW for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>3.25</u>	RIGHT BANK	
	Banktop height (m)	<u>3.75</u>		Banktop height (m)
	Embankment height (m)	<u>0.1</u>		Embankment height (m)
	Water width (m)	<u>3.0</u>		Water depth (m)
	Width (m)	<u>0.1</u>		width (m)

M ARTIFICIAL FEATURES (Use 1/2 when indicate total number, tick 'none' where appropriate)

None Number of Culverts = 1 Weirs = 1 Outfalls = 0 Fords = 0
 Roadbridges = 1 Other = 0
 Is water level controlled by weir/dam downstream? No Part of site West/bank of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging mowing Other? Site
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL FLOODPLAIN (30m corridor)
 Waterfalls > 1m high Artificial open water Beg Other (tick)
 Braided/variable channels Natural open water Carr
 Debris dams Water meadow Marsh
 Leafy debris Fens Flush

P CHOKED CHANNEL (Tick one box)

Is 3% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use 1-4 ticks of density in 10m x 10m area)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Site

R BRIEF DESCRIPTION (Use prompts and key words as appropriate) (Use 1-4 ticks of density in 10m x 10m area)

Descriptive sentence: GP channel - RP/CPB sequence (some in bank)
 Plants of note: (see list) None
 Major conservation features: Wildlife corridor - in riparian
 Major impacts:
 Incidental observations (animals etc):

S DISABLED ALDERS (Tick one box)

None Present Extensive Other (describe) Site

SEND COMPLETED FORM TO: MURIEL DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 1EB
 Envelopes supplied! Post completed files for processing - labels supplied.

NRA RIVER HABITAT SURVEY 1995 178 P.D.A. Page 2 of 4

A. BACKGROUND MAP-BASED INFORMATION:

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS:

Reference network site number: 42-1
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: 200-200 River: C.L.G.
 Date: 5.5.1995 Time: 11:30 Surveyor name: J.C. HALL
 Adverse conditions affecting survey? No Yes If yes, state: ...
 End of river visible? No partially entirely (tick one box)
 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 1-10 then indicate total number)

Riffles: 2 Unvegetated point bars: 0
 Pools: 0 Vegetated point bars: 0

National Rivers Authority

J.C.H. Hall
 J.C.H. Hall
 J.C.H. Hall

NRA RIVER HABITAT SURVEY 1995: TSN SPOT CHECKS Page 2 of 4

Riffles (1-10) Pools (1-10) Unvegetated point bars (1-10) Vegetated point bars (1-10)

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 2m wide area)

Type check 1 to 10: 1 2 3 4 5 6 7 8 9 10

LEFT BANK: bank type (1-10) bank material (1-10) bank form (1-10)

CHANNEL: channel width (m) flow type (1-10) channel modification (1-10) channel form (1-10)

RIGHT BANK: bank material (1-10) bank modification (1-10) bank form (1-10)

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

Land use: choose one from PL, CL, SH, SL, PL, CL, SH, SL, PL

LAND USE WITHIN 5m OF BANK TOP (S)

LEFT BANK TOP (structure within 5m) BANC
LEFT BANK FACE (structure) BANC
RIGHT BANK FACE (structure) BANC
RIGHT BANK TOP (structure within 5m) BANC

LAND USE WITHIN 5m OF BANK TOP (S)

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one except use E for 25% cover or more)

None present? Plant species (tick one):
 Submerged:
 Emergent:
 Floating:
 Amphibious:
 Riparian:
 Other:
 E/E/E/E/E/E

Use 'E' checkbox column for types not occurring in spot checks as well as overall assessment over 200m (see E or F)
 Note: TS = the % of bank of channel + % of bank of bank top + % of bank of point bar + % of bank of terrace

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E for 25% banktop or more)

	L	R	L	R
Broadleaved woodland (B)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Cereals/plantations (C)				
Moorland/heath (M)				
Scrub (S)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Poor pasture (P)				

I. BANK PROFILES (Use E for 25% banktop or more)

	L	R	L	R
Natural/unmodified				
Vertical/horizontal				
Vertical + tree				
Step (2-45)				
Gravel				
Composites				

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES	None	Present	None	Present
Isolated scattered	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>
Regularly spaced, slight	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging branches	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	Understorey tree roots	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>
			Coarse woody debris	<input type="checkbox"/>

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present	None	Present
Vertical (100) - straight	<input type="checkbox"/>	<input type="checkbox"/>	Marginal cut-water - slight	<input type="checkbox"/>
Curved (20) - sharp	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>
Step-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedforms	<input type="checkbox"/>
Rapids (1) - whitewater	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>
Riffle (1) - symmetrical	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>
Pools (1) - horizontal, rippled	<input type="checkbox"/>	<input type="checkbox"/>	Stones (100)	<input type="checkbox"/>
Bank (1) - vegetating	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>
Channel (1) - smooth, no sidebars	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>

Have you completed your requests from this week? (send to PWD for signature)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

	Left Bank	Right Bank
Banktop width (m)	5.5	5.5
Channel height (m)	1.5	1.5
Banktop height (m)	1.5	1.5
Banktop depth (m)	1.5	1.5
Banktop width (m)	5.5	5.5

M. ARTIFICIAL FEATURES (Use 1-10 then indicate total number, tick 'none' where appropriate)

None Columns = Falls = Outfalls = Fords =
 Footbridges = Bankbridges = Obelisks =
 Is water level controlled by weir/dam downstream? No Part of site Mouth hole of site

N. EVIDENCE OF PESTICIDE MANAGEMENT (tick appropriate box)

Grading mowing Other? Site
 weeding replacement

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m extent)
Waterfalls > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Bankside channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Debris dams <input type="checkbox"/>	White meadow <input type="checkbox"/>
Loose debris <input type="checkbox"/>	Reed <input type="checkbox"/>
	Phragmites <input type="checkbox"/>

P. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use E for 25% cover or more)

Great Willow Himalayan Balsam Japanese Knotweed Other? Site

R. BRIEF DESCRIPTION (Use percentages and key words as appropriate)

Describe the channel and bank features, including any vegetation, rocks, debris, and other features. Note any unusual features or structures. Use percentages to describe the extent of features. Use key words to describe the features. Use 'E' for 25% cover or more.

S. RELEASED ALIENS (tick one box)

None Present Extensive Other (describe here) Site

SEND COMPLETED FORMS TO HUGH DAWSON, JR, RIVER LABORATORY, EAST STONE, WARRHAM, DORSET DT9 8B
 Envelopes supplied! Pack completed files for processing - labels supplied

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 1 of 4
A BACKGROUND MAP-BASED INFORMATION
Altitude (m) Slope (m/km) Flow category (1-10)
Solid geology code Drift geology code Platform category
Distance from source (km) Significant tributary? Navigation?
B FIELD SURVEY DETAILS
Reference network site number: 4341
Mid-section grid reference of network site if different from designated location: QA.
COMPLETE THE FOLLOWING FOR ALL SITES
Grid Reference SU 077264 River: EBBLE
Date 21/7/1995 Time 14.00 Surveyor name G.C. M.L.V. No. 106 P.V.D.
Adverse conditions affecting survey? No [checked] Yes [] if yes, state
End of river visible? No [] partially [] entirely [] (tick one box)
Photographs: general features [checked] No [] Yes [] (tick one box) Site No. m! (if present) - feature with regard to feature!
Site surveyed from: left bank [] right bank [checked] channel [] (tick as appropriate)
C PREDOMINANT VALLEY FORM (tick one box only)
shallow vca [] deep vca [] gorge [] concave/bowl [] terraced valley floor [] symmetrical floodplain [] asymmetrical floodplain [checked] + notes/extra description
D NUMBER OF RIFLES, POOLS AND POINT BARS. (Use [] then indicate total number)
Rifles 9 Unvegetated point bars []
Pools 3 Vegetated point bars []
National Rivers Authority
J.M.S. Bond, J.M.S. Bond, J.M.S. Bond

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 2 of 4
E PHYSICAL ATTRIBUTES (to be assessed across channel within a 7m wide zone) (if more than 1 feature tick)
Spot check 1 is at upstream end of site
1 2 3 4 5 6 7 8 9 10
LEFT BANK (left of downstream)
Bank material (fine) YES NO YES NO YES NO YES NO YES NO YES NO
Bank modification(s) NO YES NO YES NO YES NO YES NO YES NO YES NO
Bank feature(s) NO YES NO YES NO YES NO YES NO YES NO YES NO
CHANNEL NOTE - Use notes/extra description
Channel substrate (fine) GP SP SP SP SP GP GP GP SP SP
Flow type (fine) SM SW UP SW SM UP RE UP RE UP
Channel modification(s) NO YES NO YES NO YES NO YES NO YES NO YES NO
Channel feature(s) NO YES NO YES NO YES NO YES NO YES NO YES NO
RIGHT BANK (left of downstream)
Bank material (fine) YES NO YES NO YES NO YES NO YES NO YES NO
Bank modification(s) NO YES NO YES NO YES NO YES NO YES NO YES NO
Bank feature(s) NO YES NO YES NO YES NO YES NO YES NO YES NO
F BANK-TOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide transect)
Land use: choose one from BL, CP, NC, SC, SP, SL, CR, AD, TL, SU
LAND USE WITHIN 5m OF BANKTOP (L) LG SC IG G SC IG G IG IG
LEFT BANK-TOP (structure within 1m) BR/OC U S U S U S U U U
LEFT BANK FACE (structure) BR/OC S S U S U S U U U
RIGHT BANK FACE (structure) BR/OC S S S U S U S U U
RIGHT BANK-TOP (structure within 1m) BR/OC S S U U U S S S U
LAND USE WITHIN 5m OF BANKTOP (R) SL BL C IG IG SC SIKR ISU IG
G CHANNEL VEGETATION TYPES (fill in relevant boxes with the number and E for 3% area or G for green)
NONE (tick) Plant genera (tick one)
Luzernia []
Mosses/lichens []
Largest broad-leaved herbs []
Equivalent medium-sized herbs []
Floating-leaved []
Fire-flowering []
Amphibious []
Submerged broad-leaved []
Submerged fine-leaved []
Filament algae []
Use and 'tick-all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or G)
NOTES - Use tick boxes of genera or their subgenera + species if possible eg Polypodium polypodioides

Site 1
SITE NO. 4341 NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4
H LAND USE WITHIN 50m OF BANKTOP (Use E for 3% banktop or G if present)
L R L R L R
Broad/medium woodland (BL) [] Wetland (eg bog, marsh, fen) (W) []
Cultivated plantation (CP) [] Open water (OW) []
Woodland/heath (WH) [] Improved/semi-improved grass (IG) []
Scrub (SC) [] Tilled land (TL) []
Rough pasture (RP) [] Suburban/urban development (SU) []
I BANK PROFILES: Use E for 3% banktop or G if present
Natural/unmodified L R Artificially modified L R
Vertical/obscure [] Recessed []
Vertical + toe [] Reinforced - whole bank []
Steep (> 45°) [] Reinforced - top only []
Gentle [] Reinforced - toe only []
Composite [] Artificial two-stage []
Use the space to draw profile if different from above, after ticking predominant base
Reinforced
Embedded
Set-back embankments
J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per bank)
TREES (tick one box per bank) ASSOCIATED FEATURES (tick one box per feature)
None [] ~~None~~ [] Edge of channel []
Isolated/scattered [] ~~None~~ [] Overlapping boughs []
Regularly spaced, single [] ~~None~~ [] Exposed bankside roots []
Occasional clumps [] ~~None~~ [] Underwater tree roots []
Semi-continuous [] ~~None~~ [] Fallen tree []
Continuous [] ~~None~~ [] Coarse woody debris []
K EXTENT OF CHANNEL FEATURES (tick one box per feature)
None Present E None Present H None Present H None Present H
Waterfall(s) - freefall [] Marginal deadwater - slack []
Cascade(s) - chute [] Exposed bedrock []
Step/pool sequence [] Exposed boulders []
Rapid(s) - whitewater [] Unvegetated mid-channel bars []
Riffle-pool sequence [] Vegetated mid-channel bars []
Rune(s) - disturbed, rippled [] Marine island(s) []
Belt(s) - spreading [] Unvegetated side bars []
Glide(s) - smooth, no eddies [] Vegetated side bars []

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4
L CHANNEL DIMENSIONS (to be measured at one site on a straight uniform section, preferably across a riffle)
LEFT BANK Right Bank
Banktop width (m) 14.0 Banktop height (m) 1.0
Banktop height (m) 0.5 Water width (m) 7.0 Banktop height (m) 1.0
Embankment height (m) 0.2 Water depth (m) 0.2 Embankment height (m) 0.2
If washline lower than banktop break in slope, indicate height (m) Washline
Bed material at site is: consolidated (temp) [] unconsolidated (fine) [] unknown []
Location of measurement is: riffle [checked] run or glide [] other [] (tick one box) Slope (1/E only)
M ARTIFICIAL FEATURES (Use [] indicate total number, tick 'none' where appropriate)
None [] Number of Culverts = Weirs = 2 Outfalls = Fords =
Footbridges = Roadbridges = Other =
Is water level controlled by weirs downstream? No [checked] Part of site []
N EVIDENCE OF RECLY MANAGEMENT (tick appropriate box)
dredging [] mowing []
wood-routing [] enhancement [] Other? State

Have you completed your squares from this week? (send to PVD for signature!)

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)
CHANNEL Waterfalls > 2m high [] FLOODPLAIN (50m corridor)
Shaded/side channels [] Artificial open water []
Debris dams [] Natural open water []
Leafy debris [] Water meadow []
Fen [] Bog []
Flank []
Flank []
P CHOKED CHANNEL (tick one box)
Is 33% or more of the channel choked with vegetation? NO [] YES []
Q NOTABLE NUISANCE PLANT SPECIES (Use E for 3% banktop or G for green)
Giant Hogweed [] Himalayan Balsam [] Japanese Knotweed [] Other? State

SEND COMPLETED FORMS TO HUGH DAWSON, IFA, RIVER LABORATORY, EAST STOKES, WAREHAM, B120 6BB

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

A. BACKGROUND MATERIAL INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary? Navigation?

B. FIELD SURVEY DETAILS

Reference network site number: 4272
 Mid-section grid reference of network site (if different from designated location):
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: 57298.95 River:
 Date: 1.6.1995 Time: 10.00 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 1/4 then indicate total number)

Riffles: Unvegetated point bars: 0
 Pools: Vegetated point bars: 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E for 25% banklength or if present)

	L	R		L	R
Broadleaved woodland (BL)			Wetland (eg bog, marsh, fen) (W)		
Cauliflow 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 for 25% banklength or if present)

	L	R		L	R
Natural/unmodified			Artificial/modified		
Vertical/horizontal			Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Gravel			Reinforced - toe only		
Composite			Artificial two stages		
Use this space to draw profile of a section from above, slope being predetermined here			Flushed		
			Embanked		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	Left	Right	ASSOCIATED FEATURES (Tick one box per feature)	None	Present	E
None	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

	None	Present	E	None	Present	E
Waterfalls - free-fall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - slack	<input type="checkbox"/>	<input type="checkbox"/>
Cascades - chute	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Step-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Rapids - white-water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Runs - disturbed, rippled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input type="checkbox"/>
Bolls - sprayings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>
Glides - smooth, no eddies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>

1-0-11-76

1-0-11-76

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E for 25% banklength or if present)

	L	R		L	R
Broadleaved woodland (BL)			Wetland (eg bog, marsh, fen) (W)		
Cauliflow 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 for 25% banklength or if present)

	L	R		L	R
Natural/unmodified			Artificial/modified		
Vertical/horizontal			Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - top only		
Gravel			Reinforced - toe only		
Composite			Artificial two stages		
Use this space to draw profile of a section from above, slope being predetermined here			Flushed		
			Embanked		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	Left	Right	ASSOCIATED FEATURES (Tick one box per feature)	None	Present	E
None	<input type="checkbox"/>	<input type="checkbox"/>	Shading of channel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Coarse woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

	None	Present	E	None	Present	E
Waterfalls - free-fall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - slack	<input type="checkbox"/>	<input type="checkbox"/>
Cascades - chute	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Step-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Rapids - white-water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Runs - disturbed, rippled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mature island(s)	<input type="checkbox"/>	<input type="checkbox"/>
Bolls - sprayings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>
Glides - smooth, no eddies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>

1-0-11-76

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	Water width (m)	RIGHT BANK	Banktop width (m)	Water width (m)
Banking height (m)	2.1	3.1	Banking height (m)	2.3	3.1
Enhanced height (m)		2.0	Enhanced height (m)		2.0

If trawl line or hand levelling break in slope, indicate height (m) / width (m)

Bed material at site is: unconsolidated (loose) unconsolidated (stone) unknown

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

M. ARTIFICIAL FEATURES (Use 1/4 indicate total number, tick 'none' where appropriate)

None Number of Culverts = 0 Weirs = 0 Orifices = 1 Ponds = 0
 Fourbridges = 0 Roadbridges = 3 Other = 0
 Is water level controlled by weir/dam downstream? No Part of site Mouth-hole of site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

Grading mowing Other? Site
 weed-cutting embankment 1/2/92

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

CHANNEL	FLOODPLAIN (50m corridor)	Other (tick)
Waterfalls > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>	Bog <input type="checkbox"/>
Bankside channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>	Cut <input type="checkbox"/>
Debris dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>	Marsh <input type="checkbox"/>
Large debris <input checked="" type="checkbox"/>	Fish <input type="checkbox"/>	Flank <input type="checkbox"/>

P. CHOKED CHANNEL (Tick one box)

In 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use E for 25% banklength or if present)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Site

R. ERIC DESCRIPTION (Use prompts and tick 'none' where appropriate)

Descriptive notes:
 Plants of note:
 Major conservation features:
 Major impacts:
 Incidental observations (birds etc):

S. DISTURBED ALBERS (Tick one box)

None Present Extensive Other (describe) Site

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, B120 6BB

1-0-11-76

NRA RIVER HABITAT SURVEY 1995: V.E.P.A.A. Page 1 of 4

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: 4372
 Mid-section grid reference of network site if different from designated location: 0A

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: ST 298195 River: FIVE HEAD RIVER
 Date: 11/7/1995 Time: 14:00 Supervisor name: GC only no
 Adverse conditions affecting survey? No Yes If yes, state _____
 Bed of river visible? No partially entirely (tick one box)
 Photograph general character? No Yes (tick one box) Solo No m!
 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 + note/side channel
 concave/bowl

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-11 then indicate total number)

Riffles 15 Unvegetated point bars 5
 Pools 12 Vegetated point bars _____

National Rivers Authority

DAES, head ground white hills

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles 15 Pools 12 Unvegetated point bars 5 Vegetated point bars _____

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (tick one box per column)

Spot check 1 is at upstream end of site	1	2	3	4	5	6	7	8	9	10	11
LEFT BANK											
Bank material (fine)	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank modification	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL NOTE	<u>10m wide zone</u>										
Channel substrate (fine)	CF	CF	CF	CF	CF	CF	CF	CF	CF	CF	CF
Flow type (fine)	U	U	U	U	U	U	U	U	U	U	U
Channel modification	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK											
Bank material (fine)	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA
Bank modification	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank features	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

F. BANKS OF LAND USE AND VEGETATION STRUCTURE (to be assessed over a 1m wide zone)

Land use: choose one from 1L, 2L, 3L, 4L, 5L, 6L, 7L, 8L, 9L, 10L, 11L

LAND USE WITHIN 1m OF BANKTOP (L)	1L	2L	3L	4L	5L	6L	7L	8L	9L	10L	11L
LEFT BANK-TOP (structure within 1m)	C	S	S	S	B	S	U	S	S	S	C
LEFT BANK FACE (structure)	U	S	U	U	B	S	U	S	S	S	C
RIGHT BANK-TOP (structure within 1m)	S	S	S	S	S	S	U	S	S	S	U
RIGHT BANK FACE (structure)	S	S	S	S	S	S	U	S	S	S	U

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry per E or F (33% area) or if present)

None											
Plant grass											
Emergent broad leaved herb											
Emergent narrow leaved herb											
Flowering leaved (open)											
Free floating											
Amphibious											
Submerged broad leaved											
Submerged fine 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 F)

NOTES - Use tick to indicate presence of plants in 33% zone + species of plants in both feet of vegetation parameters

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E or F (33% banklength) or if present)

	L	R		L	R
Broadleaved woodland (BL)			Woodland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Moorland/heath (MH)			Improved/improved grass (IG)		
Scrub (SC)			Tilted land (TL)		
Rough pasture (RP)			Suburban/urban development (SU/UA)		

I. BANK PROFILES (Use E or F (33% banklength) or if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/vertical			Revetment		
Vertical + toe			Reinforced - whole bank		
Steep (>45°)			Reinforced - top only		
Grass			Reinforced - toe only		
Composite			Artificial toe-edge		
Use tick signs in flow path if different from above, other tickly predominant tree			Postbed		
			Embankment		
			Set-back embankment		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES	Left	Right	WATER	E or F	None	Present	E or F
None			Shading of channel				
Isolated/scattered			Overhanging boughs				
Regularly spaced, single			Exposed bankside roots				
Occasional clumps			Underwater tree roots				
Scrub-continuous			Fallen trees				
Continuous			Coarse woody debris				

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

Waterfall(s) - freefall	None	Present	Magical deadwater - slick	None	Present	E or F
Caricade(s) - close			Exposed bedrock (CLAY)			
Step-pool sequence			Exposed boulders			
Rapid(s) - whitewater			Unvegetated mid-channel bars			
Riffle-pool sequence			Vegetated mid-channel bars			
Rune(s) - disturbed, rippled			Minor island(s)			
Boil(s) - swirling			Unvegetated side bars			
Glide(s) - smooth, no eddies			Vegetated side bars			

Have you completed your squares from this week? (tick to FWD for register!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	1.5	RIGHT BANK	Banktop width (m)	4.5
	Water width (m)	4.5		Banktop height (m)	0.5
	Banktop height (m)	0.5		Banktop height (m)	0.5
	Water depth (m)	0.5		Banktop height (m)	0.5

If bankline lower than banktop break in slope, indicate: height (m) / S width(m) 7.5

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 1-11 then indicate total number, tick "none" where appropriate)

None Number of Culverts = _____ Weirs = _____ Outfall = _____
 Footbridges = _____ Roadbridges = _____ Other = _____
 Is water level controlled by weirs/dams downstream? No Part of site Next to hole of site

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dragging mowing Other? State _____
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	Waterfalls > 5m high	Artificial open water	Beg	Other (state) _____
	Braided/side channels	Natural open water	Care	
	Debris dams	Water meadow	Marsh	
	Loose debris	Fen	Flank	

P. CHOKED CHANNEL (tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES (Use E or F (33% banklength) or if present)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State _____

R. BRIEF DESCRIPTION (Use prompts and key words of appropriate)

Descriptive sentence: Steep banks - meandering, tree-lined channel
 Plants of note: SIP substrate - EF (10m) same
 Major conservation features: Wildlife corridor - good channel features
 Major impacts: Road bridge & concrete slip/sicker (low p)
 Incidental observations (animal etc): Interesting fossils (in SIP substrate)

S. DISEASED ALDERS (tick one box)

None Present Extensive Other diseased trees? State _____

SEND COMPLETED FORMS TO: HUGH DAWSON, IFR, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6RB

Envelopes supplied! Post completed forms for postage - labels supplied on site

NRA RIVER HABITAT SURVEY 1995: 435 E Page 1 of 4

A BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary ? Navigation ?

B FIELD SURVEY DETAILS

Reference network site number: 435 E
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: 50: 123 River: 435 E
 Date: 5.1.1995 Time: 10.30.00 Surveyor name: J.P. [initials]
 Adverse conditions affecting survey? No Yes If yes, state:
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) Site No. [initials]
 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
 10:10 asymmetrical floodplain
 concave bed + river/mid channel

D NUMBER OF RIFLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Rifles: 9 Unvegetated point bars: 0
 Pools: 8 Vegetated point bars: 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: 435 E Page 2 of 4

E PHYSICAL ATTRIBUTES (to be assessed across channel within 2m wide zone) (4) (tick one box) (see 1.1)

Left Bank: [initials]
 Right Bank: [initials]

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

Land use above site from 1L, 1R, 2L, 2R, 3L, 3R, 4L, 4R, 5L, 5R, 6L, 6R, 7L, 7R, 8L, 8R, 9L, 9R, 10L, 10R

G CHANNEL VEGETATION TYPES (to be assessed across channel within 2m wide zone) (4) (tick one box) (see 1.1)

None Plant species: [initials]
 Emergent
 Submerged
 Floating
 Algal
 Mosses
 Liverworts
 Ferns
 Other

Use the 'tick-all' column for types not occurring in spot checks as well as overall assessment over 100m (see E.4.1)

NRA RIVER HABITAT SURVEY 1995: 435 E Page 3 of 4

H LAND USE WITHIN 50m OF BANKTOP (Use 1-10 then indicate total number)

1L 1R 2L 2R 3L 3R 4L 4R 5L 5R 6L 6R 7L 7R 8L 8R 9L 9R 10L 10R

I BANK PROFILES (Use 1-10 then indicate total number)

Natural/unmodified Artificial/modified
 Vertical/cut Reinforced
 Vertical + toe Reinforced - whole bank
 Step (2:1) Reinforced - step only
 Grade Reinforced - toe only
 Composite Artificial overtop
 Embankment
 Set-back embankment

J EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

None Lush Sparse
 Inland/terrestrial Riparian
 Regularly spaced, single Exposed bankside roots
 Occasional clumps Understorey tree roots
 Semi-continuous Fallen trees
 Continuous Canopy canopy debris

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

None Present Absent
 Marginal dwarfwater - slack
 Exposed bedrock
 Exposed boulders
 Unvegetated mid-channel bars
 Vegetated mid-channel bars
 Marine island(s)
 Unvegetated side bars
 Vegetated side bars

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

Left Bank: [initials] Right Bank: [initials]
 Banktop height (m) 1.5 Water width (m) 2.5 Banktop height (m) 1.5
 Embankment height (m) 2 Water depth (m) 2 Embankment height (m) 2

M ARTIFICIAL FEATURES (Use 1-10 then indicate total number, tick 'none' where appropriate)

None Number of Culverts: [initials] Weirs: [initials] Outfalls: [initials] Feeds: [initials]
 Is water level controlled by weir/dam downstream? No Yes Part of site Other

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

ending moving Other? Site: [initials]
 undercutting enhancement

O FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL: Waterfalls > 2m high FLOODPLAIN (50m corridor): Artificial open water Bog Other (state): [initials]
 Embankment channels Natural open water Cut
 Debris dams Water meadow Marsh
 Lush debris Fra

P CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (Use 1-10 then indicate total number, tick 'none' where appropriate)

None Himalayan Balsam Japanese Knotweed Other? Site: [initials]

R BRIEF DESCRIPTION (Use prompt and key words as appropriate) (Tick one box)

Descriptive text: [initials]

S DISEASED ALDERS (Tick one box)

None Present Extensive Other (diseased trees)? Site: [initials]

SEND COMPLETED FORM TO: HUGH DAVSON, IFE, RIVER LABORATORY, EAST STONE, WY
 Envelopes supplied! Post completed form for forwarding.

Have you completed your response for this week? (send to PWD for sign-off!)

NRA RIVER HABITAT SURVEY 1995: 500M SWEEP-UP Page 3 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary? Navigation?

B. FIELD SURVEY DETAILS

Reference network site number: 4781
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: S017612 River: HUCKLES CREEK
 Date: 1.16.1995 Time: 7:30 PM 16 AR 70m
 Adverse conditions affecting survey? No Yes If yes, state:
 Bed of river visible? No partially entirely (tick one box)
 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 + river/old channel
 concave/boat

D. NUMBER OF RIFLES, POOLS AND POINTE BARS (Use 1-11 to indicate total number)

Rifles Unvegetated point bars
 Pools Vegetated point bars

National Rivers Authority

DATES: record named initiated before checks

NRA RIVER HABITAT SURVEY 1995: 10M SPOT CHECKS Page 2 of 4

Rifles: 1 Pools: 2000 Unvegetated point bars: 1 Vegetated point bars: 1

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

Spot check 1 to 10	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Bank material (fine)										
Bank modification(s)										
Bank feature(s)										
Channel substrate (fine)										
Flow type (fine)										
Channel modification(s)										
Channel feature(s)										
RIGHT BANK										
Bank material (fine)										
Bank modification(s)										
Bank feature(s)										

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

Land use above river from AL, CL, FL, GL, PL, SL, CL, PL, SL, PL

LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 5m)										
LEFT BANK FACE (structure)										
RIGHT BANK TOP (structure within 5m)										
RIGHT BANK FACE (structure)										
LAND USE WITHIN 5m OF BANK TOP (R)										

G. CHANNEL VEGETATION TYPES (all in relevant transect with one entry: use E (0-100% area) or J (percent))

NONE (nil)	Plant genera (tick one)	1	2	3	4	5	6	7	8	9	10
Liverworts											
Emergent broad-leaved herbs											
Emergent reeds											
Phragmites (poaceae)											
Free floating											
Amphibious											
Submerged - broad-leaved											
Submerged fine-leaved											
Filement, algae											

Use end 'catch all' column for types not recurring. In spot checks as well as overall assessment over 500m (use E or J)!

PLANT 5 = use tick marks of genus to show percentage + quantity of species eg Pelt. 50% = Pelt. 50%

NRA RIVER HABITAT SURVEY 1995: 500M SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E (0-100% banklength) or J (percent))

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

I. BANK PROFILES (Use E (0-100% banklength) or J (percent))

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

Use tick marks to show profile if different from above, other ticked profile indicated

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES (Tick one box per bank)	None	Present E	None	Present E	None	Present E	None	Present E
Isolated/scarce			Shading of channel					
Regularly spaced, single			Overhanging boughs					
Occasional clumps			Exposed bankside roots					
Semi-continuous			Underwater tree roots					
Continuous			Fallen trees					
			Coarse woody debris					

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

Waterfall(s) - freefall	None	Present E	Marginal deadwater - slack	None	Present E	None	Present E
Cascade(s) - chute			Exposed bedrock				
Step-pool sequence			Exposed boulders				
Rapids(s) - whitewater			Unvegetated mid-channel bars				
Riffle-pool sequence			Vegetated mid-channel bars				
Runs(s) - disturbed, rippled			Major island(s)				
Bells(s) - spilling			Unvegetated side bars				
Gides(s) - smooth, no eddies			Vegetated side bars				

Have you completed your queries from this week? (send to FWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

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

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

M. ARTIFICIAL FEATURES (Use 1-11 to indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Outfalls = Feeds =
 Footbridges = 1 Roadbridges = Other = Part of site (tick whole of site)

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging moving Other? State:
 weed-cutting enhancement

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

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 5m high	Artificial open water
Fringed/side channels	Natural open water
Debris dams	Water meadow
Leafy debris	Fen
	Bag <input type="checkbox"/> Other (state) <input type="checkbox"/>
	Care <input type="checkbox"/>
	Marsh <input type="checkbox"/>
	Fresh <input type="checkbox"/>

P. CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use 1-11 to indicate total number, tick 'none' where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State:

R. BRIEF DESCRIPTION (Use prompt and key words as appropriate)

Descriptive sentences:
 Flats of pools:
 Major conservation features:
 Major impacts:
 Incidental observations (animals etc):

IF E2 checked, only tick B. None

S. DISEASED ALDERS (Tick one box)

None Present Extensive Other (diseased trees) State:

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Envelopes supplied! Post completed form for processing - details supplied inside

NRA RIVER HABITAT SURVEY 1995 Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION

Altitude (m) Slope (m/km) Flow category (1-10)

Solid geology code Drift geology code Platform category

Distance from source (km) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS

Reference network site number: 14407

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

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: ST 025 078 River: CUM

Date: 5.7.1995 Time: 12.20 hrs Surveyor name: J.M. HAPPEL

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 RIFLES, POOLS AND POINT BARS (Use 1/2 then indicate total number)

Rifles 3 Unvegetated point bars 0

Pools 0 Vegetated point bars 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: 12M SPOT CHECKS Page 2 of 4

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

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

	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Bank material (fine)	EA	RR	RR	RR	RR	RR	EA	EA	EA	EA
Bank modifications	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bank features	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHANNEL										
Channel substrate (fine)	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
Flow type (fast)	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
Channel modifications	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Channel features	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RIGHT BANK										
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bank features	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Land use: choose one from RL, CR, SM, SC, PL, WL, GR, AC, RL, SU

LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK-TOP (structure within 1m)	B	B	B	B	B	B	B	B	B	B
LEFT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S
RIGHT BANK FACE (structure)	C	C	C	C	C	C	C	C	C	C
RIGHT BANK-TOP (structure within 1m)	B	B	B	B	B	B	B	B	B	B
LAND USE WITHIN 5m OF BANK TOP (R)	S	S	S	S	S	S	S	S	S	S

G. CHANNEL VEGETATION TYPES (fill in relevant boxes with one entry: use E (to 10% area) or 0 (percent))

None (tick as appropriate)	1	2	3	4	5	6	7	8	9	10
Upriver/moss/lichen										
Emergent broad-leaved herbs										
Emergent reeds/rushes/twines										
Floating-leaved (free)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Flamboyant algae										

Use end "catch-all" column for types not occurring in spot checks as well as overall assessment over 500m (use E or 0)

14407L

14407L

NRA RIVER HABITAT SURVEY 1995: 500M SWEEP-UP Page 3 of 4

SITE NO. 14407

H. LAND USE WITHIN 50m OF BANKTOP (Use E (to 10% banklength) or 0 (percent))

	L	R		L	R
Evergreen/decid. woodland (E)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (C)			Open water (O)		
Woodland scrub (M)			Improved/semi-improved grass (G)		
Scrub (S)			Tilled land (T)		
Rough pasture (P)			Suburban/urban development (U)		

I. BANK PROFILES (Use E (to 10% banklength) or 0 (percent))

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut			Reinforced		
Vertical + toe			Reinforced - whole bank		
Stony (> 45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Composite			Artificial revetments		
Use this space to draw profile if different from above, show using predominant line			Paunched		
			Embanked		
			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per bank)	None	L	R	ASSOCIATED FEATURES (tick one box per feature)	None	Present	E
None				Stalling of channel			
Isolated/scattered				Overhanging boughs			
Regularly spaced, single				Exposed bankside roots			
Occasional clumps				Understorey tree roots			
Semi-continuous				Fallen trees			
Continuous				Coarse woody debris			

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present	E		None	Present	E
Waterfalls - freefall				Marginal deadwater - slack			
Caerds(s) - above				Exposed bedrock			
Step/pool sequence				Exposed boulders			
Rapids - whitewater				Unvegetated mid-channel bars			
Riffle-pool sequence				Vegetated mid-channel bars			
Pools - disturbed, rippled				Stony islands			
Pools - unrippled				Unvegetated side bars			
Glide(s) - smooth, no eddies				Vegetated side bars			

14407L

14407L

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Bank top width (m)	RIGHT BANK
Banktop height (m)	4	Banktop height (m)
Banktop height (m)	4	Banktop height (m)
Banktop height (m)	4	Banktop height (m)

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

Bed material at site is: consolidated (compact) unconsolidated (loose) soft mud

Location of measurement is: riffle run or glide other (tick one box) Slope (S/E only)

M. ARTIFICIAL FEATURES (Use 1/2 then indicate total number, tick "none" where appropriate)

None Number of Culverts = Weirs = Outfalls = Feeds =
 Fences =
 Part of site Head of site

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

working mowing Other ? State (Recent Management No Bank (RM))
 weed-killing enhancement

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

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 5m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>
Bankside channels <input type="checkbox"/>	Natural open water <input type="checkbox"/>
Debris dams <input type="checkbox"/>	Water meadow <input type="checkbox"/>
Loose debris <input type="checkbox"/>	Fox <input type="checkbox"/>
	Bog <input type="checkbox"/>
	Cart <input type="checkbox"/>
	Marsh <input type="checkbox"/>
	Flank <input type="checkbox"/>

P. CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use 1/2)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State

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

Descriptive summary: A SEMI SECTION OF THE CUM WITH A THIN LAYER OF SILT OVER MUCH OF THE CHANNEL BED. MOST OF BANKS WERE BARE EXCEPT WITH BUCKINGHAM MAJOR CONSERVATION FEATURES: POOL BOUNDED WASTE (CONCRETE) HAS BEEN USED TO REPAIR THE LEFT AND RIGHT BANKS UPSTREAM. WALK WAS TAKEN ACROSS MAT ON THE BANK. Incidental observations (animals etc): WITNESS OF SURVEY WERE CAUGHT UNDER DISPERSED MAT ON SILT.

S. DISEASED ALGAE (tick one box)

None Present Extensive Other (specify name) State

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, BH20 6BB

NRA RIVER HABITAT SURVEY 1995: *if n.a.* Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION:

Altitude(m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source(km) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS:

Reference network site number: 4407
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: ST 025078 River: CULIA BA
 Date: 11/2/1995 Time: 10:45 7B, 7M, 7H, 16 AK, 70m
 Adverse conditions affecting survey? No Yes If yes, state: None
 End of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) Bank
 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 + notes/mh 70m

D. NUMBER OF RIFFLES, POOLS AND POINT BARS: (Use 44 then indicate total number)

Riffles 5 Unvegetated point bars 1
 Pools 2 Vegetated point bars 1

National Rivers Authority

Hand ground visible below

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles 11 Pools 1 Unvegetated point bars 1 Vegetated point bars 1

E. PHYSICAL ATTRIBUTES: (to be assessed across channel within a 1m wide zone) (4) (M) (P) (S) (T) (V) (W) (X) (Y) (Z)

Spot check 1 is on upstream end of riffle (tick one)

	1	2	3	4	5	6	7	8	9	10
Bank material (fine)	EA	ER	RR	RR	BR	BR	SE	EA	CC	
Bank modification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bank features	N	O	N	C	N	S	E	C	V	S
Channel substrate (fine)	S	P	P	CA	N	N	C	S	P	S
Flow type (fine)	U	W	S	S	S	S	S	S	S	S
Channel modification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Channel features	N	C	N	C	N	C	N	C	N	C
RIGHT BANK: (to be assessed across channel within a 1m wide zone)										
Bank material (fine)	EA	ER	RR	RR	BR	BR	SE	EA	CC	
Bank modification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bank features	N	O	N	C	N	S	E	C	V	S

F. BANK-TOP LAND USE AND VEGETATION STRUCTURE: (to be assessed over a 10m wide transect)

Land use: choose one from SL, CP, IS, TC, ST, VL, CW, M, D, W

LAND USE WITHIN 5m OF BANKTOP (L)

LEFT BANK-TOP (structure within 1m)	1	2	3	4	5	6	7	8	9	10
LEFT BANK FACE (structure)	S	S	U	B	S	S	S	S	S	S
RIGHT BANK FACE (structure)	U	H	S	C	C	S	L	S	S	S
RIGHT BANK-TOP (structure within 1m)	U	B	S	B	S	B	S	U	S	S
LAND USE WITHIN 5m OF BANKTOP (R)	U	B	S	U	S	U	S	U	S	U

G. CHANNEL VEGETATION TYPES: (fill in relevant boxes with one entry: use E (in 33% area) or / (spread))

NONE (tick)										
Large emergent macrophytes										
Emergent herbaceous plants										
Emergent root/stand/scrub										
Flowering reeds										
Free floating										
Amphibious										
Submerged										
Submerged filamentous										
Filamentous algae										

Use the "catch all" column for types not occurring in spot checks as well as overall assessment over 500m (use E or /)
 NOTES - Use the habits of grasses & other plants to estimate E or /
 + species if possible eg. note just a Potamogeton particula

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP: (tick one box per 33% banklength or / if present)

Restriated woodland (R)		Wetland (eg. bog, marsh, fen) (W)	
Cereals/plantations (C)		Open water (O)	
Moorland/heath (M)		Improved/semi-improved grass (G)	✓
Scrub (S)		Tilled land (T)	
Rough pasture (P)		Suburban/urban development (U)	✓

I. BANK PROFILES: (tick one box per 33% banklength or / if present)

Natural/unmodified		Artificial/modified	
Vertical/unstruct	✓	Revetment	✓
Vertical + toe	✓	Revetment - whole bank	✓
Steep (> 45°)	✓	Revetment - top only	✓
Grass	✓	Revetment - toe only	✓
Composite		Artificial no-toe	✓
Use this space to draw profile if chosen from above, also tick predominant use		Perched	✓
		Embedded	✓
		Set-back embankments	✓

J. EXTENT OF TREES AND ASSOCIATED FEATURES:

TREES (tick one box per bank)	None	Present	None	Present
None				
Isolated/scattered				
Regularly spaced, single				
Occasional clumps				
Semi-continuous				
Continuous				
ASSOCIATED FEATURES (tick one box per feature)	None	Present	None	Present
Sloping of channel				
Overhanging banks				
Exposed bankside roots				
Underwater tree roots				
Fallen trees				
Coarse woody debris				

K. EXTENT OF CHANNEL FEATURES: (tick one box per feature)

None	Present	None	Present
Wetfall(s) - free fall			
Canal(s) - close			
Step-pool sequence			
Rap(s) - whitewater			
Riffle-pool sequence			
Rund(s) - disturbed, rippled			
Beil(s) - open/flat			
Glides - smooth, no eddies			
Marginal edgewater - slack			
Exposed bedrock			
Exposed boulders			
Unvegetated mid-channel bars			
Vegetated mid-channel bars			
Minor islands			
Unvegetated side bars			
Vegetated side bars			

Have you completed your request for this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	<u>20.0</u>	RIGHT BANK
Banktop height (m)	Water width (m)	<u>15.0</u>	Banktop height (m)
Embanked height (m)	Water depth (m)	<u>0.1</u>	Embanked height (m)
If trough lower than banktop track in slope, indicate height (m) <u>1.25</u> width (m) <u>1.8</u>			

Bed material at site is: consolidated (temp) unconsolidated (fine) unknown
 Location of measurement is: riffle run or glide other (tick one box) Slope (IFE only)

M. ARTIFICIAL FEATURES: (Use 44 then indicate total number, tick "none" where appropriate)

None Number of Culverts = 1 Weirs = 1 Outfalls = 3 Feeds = 0
 Footbridges = 4 Other = 0
 Is water level controlled by weirs/dams downstream? No Yes Part of site (tick one box)

N. EVIDENCE OF RECENT MANAGEMENT: (tick appropriate box)

dragging mowing Other? State: None
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST: (tick appropriate box(es))

CHANNEL FLOODPLAIN (tick one box)
 Waterfalls > 5m high Artificial open water Bog Other (state) None
 Braided/side channels Natural open water Carr
 Deltaic dunes Water meadow Marsh
 Laxly debris Fen Flush

P. CHOKED CHANNEL: (tick one box)
 Is 33% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NURSANCE PLANT SPECIES: (tick one box)
 Glass Hedges Himalayan Balsam Japanese Knotweed Other? State: None

R. BRIEF DESCRIPTION: (Use prompt and key words as appropriate)

Descriptive statement: meandering channel - urban setting
 Plants of note: (ie list) scattered trees (willows & others)
 Major conservation features: None
 Major impacts: RS/RI banks; weir & bridges below mid point
 Incidental observations (animals etc): None
 IFE ticks - only by 44 filled

S. DISEASED ALDERS: (tick one box)
 None Present Extensive Other diseased trees? State: None

SEND COMPLETED FORM TO: HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB
 Envelopes supplied! Post completed file for processing - labels supplied separately

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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

A BACKGROUND MAP-BASED INFORMATION

Altitude(m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source(km) Significant tributary? Navigation?

B FIELD SURVEY DETAILS

Reference network site number: 4408
 Mid-section grid reference of network site (if different from designated location): _____
 COMPLETE THE FOLLOWING FOR ALL SITES (tick boxes as applicable)
 Grid Reference: S 112025 River: Nick Street
 Date: 7/1/1995 Time: 1300 Surveyor name: D. C. Williams
 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 1/2 when indicate total number)

Riffles: 1111 (9) Unvegetated point bars: 11 (2)
 Pools: 11 (2) Vegetated point bars: 11 (2)

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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

E PHYSICAL ATTRIBUTES (to be assessed across channel width a 1m wide spot)

	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Bank material (see)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
Bank features	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
CHANNEL										
Channel substrate (see)	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
Flow type (see)	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
Channel modifications	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Channel features	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RIGHT BANK										
Bank material (see)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
Bank features	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB

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

Land use choice one from RL, CT, HL, SC, SP, ML, OV, AL, TL, SU

LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 1m) (R)	C	C	C	C	C	C	C	C	C	C
LEFT BANK FACE (structure)	C	C	C	C	C	C	C	C	C	C
RIGHT BANK TOP (structure within 1m) (R)	C	C	C	C	C	C	C	C	C	C
RIGHT BANK FACE (structure)	C	C	C	C	C	C	C	C	C	C
LAND USE WITHIN 5m OF BANKTOP (R)	1	1	1	1	1	1	1	1	1	1

G CHANNEL VEGETATION TYPES (tick in relevant boxes with one mark per E (2-10) area and/or structure)

	1	2	3	4	5	6	7	8	9	10
NONE (tick as appropriate)										
Liverworts/mosses/lichens										
Emergent broad-leaved herbs										
Emergent reeds/sedges/bushes										
Floating-leaved (overhead)										
Free-floating										
Amphibious										
Submerged broad-leaved										
Submerged fan-leaved										
Filamentous algae										

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

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE NO. 4408

II LAND USE WITHIN 50m OF BANKTOP (tick E (2-10) banklength or if present)

	L	R	TYPE OF LAND USE (see)	L	R
Broadleafed woodland (BL)			Wetland (eg bog, marsh, fen) (W)		
Coniferous plantation (CP)			Open water (OW)		
Moorland/hawk (MH)			Improved/semi-improved grass (IG)		
Scrub (S)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

III BANK PROFILES (tick E (2-10) banklength or if present)

	L	R	Artificial/modified	L	R
Natural/unmodified			Reinforced		
Vertical/horizontal			Reinforced - whole bank		
Vertical + toe			Reinforced - toe only		
Sloped (D 45°)			Reinforced - toe only		
Gentle			Artificial toe-rings		
Composite			Propped		
			Embanked		
			Set-back embankments		

IV EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)	Left	Right	ASSOCIATED FEATURES (tick one box per feature)	None	Present E
None			Banking of channel		
Isolated/scattered			Overhanging boughs		
Regularly spaced, single			Exposed bankside roots		
Occasional clumps			Underwater tree roots		
Semi-continuous			Fallen trees		
Continuous			Coarse woody debris		

V EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present E	None	Present E	
Waterfalls - freefall			Marginal dead-water - silt		
Concave(s) - above			Exposed bedrock		
Scalped sequences			Exposed boulders		
Rapids(s) - shallow			Unvegetated mid-channel bars		
Rapids(s) - deep			Vegetated mid-channel bars		
Bank(s) - disturbed, rippled			Marsh islands(s)		
Bank(s) - symmetrical			Unvegetated side bars		
Gullies(s) - smooth, no debris			Vegetated side bars		

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

	LEFT BANK	RIGHT BANK
Bank top width (m)	<u>1.5</u>	<u>1.5</u>
Bank top height (m)	<u>1.5</u>	<u>1.5</u>
Enhanced height (m)	<u>1.5</u>	<u>1.5</u>
Bank top height (m)	<u>1.5</u>	<u>1.5</u>
Bank top width (m)	<u>1.5</u>	<u>1.5</u>

If multiple lower than banktop break in slope, indicate height (m) and width (m)

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

Location of measurement is: riffle run or glide whorl (tick one box) Slope (1/E only)

M ARTIFICIAL FEATURES (Use 1/2 when indicate total number, tick "none" where appropriate)

None Number of Culverts = 1 Weirs = 1 Outfalls = 1 Fords = 1
 Footbridges = 1 Roadbridges = 1 Other = 1
 Is water level controlled by weir/dam downstream? No Part of site Mouth of site

N EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dragging no-log Other? See notes
 weed-cutting enhancement

O FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL Waterfalls > 2m high Artificial open water Bug Other (note) _____
 Bricked/side channels Natural open water Cut
 Debris dams Water meadow Marsh
 Loose debris Fern Flank

CHOKED CHANNEL (tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q NOTABLE NUISANCE PLANT SPECIES (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? See notes

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

Descriptive sentence: 11m x 1.5m (for 1.5m) deep channel with 1.5m x 1.5m x 1.5m concrete structure in the middle of the channel.
 Plants of note: See notes
 Major conservation features: See notes
 Major impacts: See notes
 Incidental observations (animals etc): _____

S DISEASED ALIENS (tick one box)

None Present Estimated Other (disease name) See notes

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

NRA RIVER HABITAT SURVEY 1995: 1/8" = 1'-1" A Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION:

Altitude (m) Slope (m/km) Flow category (1-10)
 Solid geology code Drift geology code Fluvial category
 Distance from source (km) Significant tributary? Navigation?

B. FIELD SURVEY DETAILS:

Reference network site number: 4408
 Mid-section grid reference of network site if different from designated location:
 COMPLETE THE FOLLOWING FOR ALL SITES
 Grid Reference: ST 108635 River: WICK QA
 Date: 01/27/1995 Time: 15:45 Supervisor name: 78, 74 PM 16 AK 700
 Adverse conditions affecting survey? No Yes If yes, state: with 500 m!
 Bed of river visible? No partially entirely (tick one box)
 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 + river/valley meanders

D. NUMBER OF RIFFLES, POOLS AND POINT BARS: (Use 1M, 1R, 1C indicate total number)

Riffles 15 Unvegetated point bars —
 Pools 5 Vegetated point bars 7

National Rivers Authority

DATES: found ground unaltered debris

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles 15 Pools 5 Unvegetated point bars — Vegetated point bars 7

E. PHYSICAL ATTRIBUTES: (to be assessed across channel within a 1m wide zone) (Max. 1 per 10m) (tick one box)

Spot check 1 to 10: upstream end to downstream	1	2	3	4	5	6	7	8	9	10
LEFT BANK (tick one box)	SA	EA	GA	EA	EA	EA	EA	EA	EA	EA
Bank material (fine)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL NOTE: (tick one box)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel substrate (fine)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK (tick one box)	SA	EA	GA	EA	EA	EA	EA	EA	EA	EA
Bank material (fine)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank modification(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from PL, CR, DR, GR, IR, OR, SR, TR, UR

LAND USE WITHIN 2m OF BANKTOP (L)

LEFT BANK-TOP (structure within 2m)	1	1	1	1	1	1	1	1	1	1
LEFT BANK FACE (structure)	1	1	1	1	1	1	1	1	1	1
RIGHT BANK FACE (structure)	1	1	1	1	1	1	1	1	1	1
RIGHT BANK-TOP (structure within 2m)	1	1	1	1	1	1	1	1	1	1
LAND USE WITHIN 5m OF BANK TOP (R)	1	1	1	1	1	1	1	1	1	1

G. CHANNEL VEGETATION TYPES: (tick in relevant boxes with one entry per E (2-3% area) or 1 (general))

NONE (tick)	Plant species (tick one)									
LOWGROW	Emergent broad									
Emergent broad	Emergent narrow									
Emergent narrow	Submerged									
Submerged	Submerged									
Submerged	Submerged									
Submerged	Submerged									
Submerged	Submerged									
Submerged	Submerged									
Submerged	Submerged									

Use the 'catch-all' column for types not occurring in spot checks as well as overall assessment over 100m (use E or 1)

REMARKS - Use tick in boxes of items not occurring in this site survey + species if possible eg. *Potamogeton pectinatus*

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE NO. 4408 NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP

H. LAND USE WITHIN 50% OF BANKTOP: (tick one box per 10m)

	L	R		L	R
Deciduous woodland (D1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wetland (eg bog, marsh, fen) (W1)		
Coniferous plantations (C1)			Open water (O1)		
Moorland/heath (M1)			Improved/semi-improved grass (IG)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Scrub (S1)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I. BANK PROFILES: (tick one box per length)

	L	R	Artificial/modified	L	R
Natural/unmodified	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Recessed		
Vertical/abrupt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Recessed - whole bank		
Vertical + toe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Recessed - top only		
Sharp (>45°)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Recessed - toe only		
Gentle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Artificial two-stage		
Composite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Embanked		
Use this space to draw profile if different from above, other tick appropriate box			Set-back embankments		

J. EXTENT OF TREES AND ASSOCIATED FEATURES:

TREES (tick one box per bank)	Left	Right	W 2-3%	None	Present	W 2-3%
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

K. EXTENT OF CHANNEL FEATURES: (tick one box per feature)

	None	Present	None	Present	None	Present
Waterfall(s) - freefall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - slack	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada(s) - chute	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Step/pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rapid(s) - whitewater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Riffle-pool sequence	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Run(s) - disturbed, rapid	<input type="checkbox"/>	<input type="checkbox"/>	Stones (bedrock)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beil(s) - spillways	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Glide(s) - smooth, no eddies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Have you completed your squares from this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Bedstep width (m)	<u>9.0</u>	RIGHT BANK
Banking height (m)	Ways width (m)	<u>6.0</u>	Banktop height (m)
Embanked height (m)	Ways depth (m)	<u>0.2</u>	Embanked height (m)

If bankline lower than banktop break in slope, indicate height (m) 1.0 width (m) 3.0

Bed material at site is: occasional (temp) unconsolidated (stone) unknown

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

M. ARTIFICIAL FEATURES: (Use 1M, 1R indicate total number, tick 'none' where appropriate)

None Number of Culverts = 1 Weirs = — Overfall = — Folds = —
 Footbridges = — Roadbridges = — Other = —

Is water level controlled by weirs/dams downstream? No Part of site Downstream of site

N. EVIDENCE OF RECENT MANAGEMENT: (tick appropriate box)

dredging mowing Other? State —
 weedcutting enhancement

O. FEATURES OF SPECIAL INTEREST: (tick appropriate boxes)

CHANNEL	Waterfalls > 1m high <input type="checkbox"/>	Artificial open water <input type="checkbox"/>	Big <input type="checkbox"/>	Other (state) <u>—</u>
Embanked side	Natural open water <input type="checkbox"/>	Water meadow <input type="checkbox"/>	Cur <input type="checkbox"/>	
Debris dams <input type="checkbox"/>	Pen <input type="checkbox"/>	Flank <input type="checkbox"/>		
Loose debris <input type="checkbox"/>				

P. CHOKED CHANNEL: (tick one box)

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

Q. NOTABLE SUSPICIOUS PLANT SPECIES: (tick one box)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? State —

R. BRIEF DESCRIPTION: (Use phrases and key words as appropriate)

Descriptive sentence: Free-flowing meandering channel with 10m wide run
 Photo of note (see list): banking to substrate
 Major conservation features: run, bank (topend) lots of channel features
 Major impacts: —
 Incidental observations (animals etc): litter + lawning

IF 2 channels from left to right

S. DISEASED ALDERS: (tick one box)

None Present Extensive Other diseased trees? State —

SEND COMPLETED FORM TO: HUGH DAWSON, IFA, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6RB

Envelope supplied! Post completed form for forwarding. Labels supplied on top

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 1 of 4

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: 4423
4424? to the north of 19E
Mid-section grid reference of network site if different from designated location: AD

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: River: UNKNOWN N/A

Date: 21.6.1995 Time: 12:15 Surveyor name: J.R. (S)

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 increased valley floor

deep vee symmetrical floodplain

gorge asymmetrical floodplain

concave/bowl

D. NUMBER OF RIFFLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Riffles: 32 Unvegetated point bars: 2

Pools: 3 Vegetated point bars: 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Spot check 1 to 10 upstream and downstream and of site (tick one box)

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

Material	1	2	3	4	5	6	7	8	9	10
LEFT BANK	EA	CL	EA	EP	CL	EA	EA	CC	CC	CC
Bed modifications	RS	RS	NO	NC	NO	NO	NO	FI	NO	NC
Bank features	NO	NO	NO	NC	NC	NC	NC	NC	NC	NC
CHANNEL	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP
Flow type	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
Channel modifications	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel features	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
RIGHT BANK	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bed modifications	NC	NO	NC	NO	NO	NO	NO	NO	NO	NO
Bank features	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

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

Land use: choose one from PL, CR, MU, IC, RT, VL, OV, AG, TL, BU

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

G. CHANNEL VEGETATION TYPES (all in reference box as well as any other area $E \ge 235 \text{ area}$ or E (preferred))

NONE (tick as appropriate)										
Unrooted emergent sedges	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Emergent broad-leaved herbs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergent needle-leaved herbs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flowering-leaved (mosses)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Free-floating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amphibious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submerged broad-leaved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submerged fine-leaved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plumose algae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The end 'tick-off' column for types not occurring in spot checks as well as overall assessment over 100m (see E or F)

1995

1995

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 10m OF BANKTOP (Use E in 235 banktop) or F (preferred)

	L	R		L	R
Non-vegetated woodland (NL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wetland (eg bog, marsh, fen) (W)	<input type="checkbox"/>	<input type="checkbox"/>
Coniferous plantation (CP)	<input type="checkbox"/>	<input type="checkbox"/>	Open water (OW)	<input type="checkbox"/>	<input type="checkbox"/>
Woodland/heath (WH)	<input type="checkbox"/>	<input type="checkbox"/>	Impervious/improved grass (IG)	<input type="checkbox"/>	<input type="checkbox"/>
Scrub (SC)	<input type="checkbox"/>	<input type="checkbox"/>	Tilled land (TL)	<input type="checkbox"/>	<input type="checkbox"/>
Tough pasture (TP)	<input type="checkbox"/>	<input type="checkbox"/>	Suburban/urban development (SU)	<input type="checkbox"/>	<input type="checkbox"/>

I. BANK PROFILES (Use E in 235 banktop) or F (preferred)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced	<input type="checkbox"/>	<input type="checkbox"/>
Vertical + toe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reinforced - whole bank	<input type="checkbox"/>	<input type="checkbox"/>
Slope (> 45°)	<input type="checkbox"/>	<input type="checkbox"/>	Reinforced - top only	<input type="checkbox"/>	<input type="checkbox"/>
1:1 slope	<input type="checkbox"/>	<input type="checkbox"/>	Reinforced - toe only	<input type="checkbox"/>	<input type="checkbox"/>
Composite	<input type="checkbox"/>	<input type="checkbox"/>	Artificial re-vegetation	<input type="checkbox"/>	<input type="checkbox"/>
			Precast	<input type="checkbox"/>	<input type="checkbox"/>
			Embedded	<input type="checkbox"/>	<input type="checkbox"/>
			Sti-bank embankment	<input type="checkbox"/>	<input type="checkbox"/>

J. EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per bank)	L	R	ASSOCIATED FEATURES (tick one box per feature)	None	Present
None	<input type="checkbox"/>	<input type="checkbox"/>	E & J %	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Isolated/scattered	<input type="checkbox"/>	<input type="checkbox"/>	Stuffing of channel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Occasional clump	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bankside roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	Underwater tree roots	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			Coarse woody debris	<input type="checkbox"/>	<input checked="" type="checkbox"/>

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

	None	Present		None	Present
Waterfalls - freefall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marginal deadwater - silt	<input type="checkbox"/>	<input type="checkbox"/>
Cascades - dense	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Step-pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rapids - submergent	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Riffle-pool sequence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Roads - disturbed, rippled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mixers (load?)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Boils - upwellings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Thalwegs - smooth, no eddies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Scale: 1:1000

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	2.0	RIGHT BANK
Banktop height (m)	1.75	Water width (m)	1.75
Channel height (m)	1.75	Water depth (m)	0.65
		Enbanked height (m)	1.75

If routine lower than banktop level 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 1-10 then indicate total number, tick 'none' where appropriate)

None Number of Culverts = 1 Weirs = 0 Outfalls = 0

Footbridges = 1 Roadbridges = 0 Other = 0

Is water level controlled by weir/dam downstream? No Part of site Mouth/bank of site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

Grading moving Other? Site

Revegetating enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (10m corridor)
Waterfalls > 5m high	Artificial open water
Bankside channels	Natural open water
Debris dams	Water meadow
Loose debris	Fan
	Bog
	Care
	Shrub
	Flush

P. CHOKED CHANNEL (Tick one box)

Is 25% or more of the channel choked with vegetation? NO YES

Q. NOTABLE NUISANCE PLANT SPECIES (Use 1-10 then indicate total number, tick 'none' where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other? Site

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

Descriptive statement: 500m SWEEP-UP WITH PREVIOUS SURVEY RESULTS

Place of note:

Major constructive features:

Major impacts:

Incidental observations (animals etc):

S. DISTURBED ALIENS (Tick one box)

None Present Extensive Other (named trees) Site

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STOKES, WAREHAM, BH20 4BB

NRA RIVER HABITAT SURVEY 1995 1P & P-A-A Page 4 of 4

A BACKGROUND MAP-BASED INFORMATION		
Altitude(m)	Slope (m/km)	Flow category (1-10)
Solid geology code	Drift geology code	Platform category
Distance from source(km)	Significant tributary ?	Navigation ?

B FIELD SURVEY DETAILS	
Reference network site number: 4423	
Mid-section grid reference of network site if different from designated location: 695C93	
COMPLETE THE FOLLOWING FOR ALL SITES	
Grid Reference: SU 693092	River: STESAVA
Date: 30/9/1995 Time: 12:30	Surveyor name: W.M.P.
Adverse conditions affecting survey? No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> If yes, state:	
Bed of river visible? No <input type="checkbox"/> partially <input type="checkbox"/> entirely <input checked="" type="checkbox"/> (tick one box)	
Photographs: general character? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> (tick one box) Set up on: <input type="checkbox"/> left <input checked="" type="checkbox"/> right	
Site surveyed from: left bank <input type="checkbox"/> right bank <input type="checkbox"/> channel <input checked="" type="checkbox"/> (tick as appropriate)	

C PREDOMINANT VALLEY FORM (tick one box only)	
<input checked="" type="checkbox"/> shallow vee	<input type="checkbox"/> terraced valley floor
<input type="checkbox"/> deep vee	<input type="checkbox"/> symmetrical floodplain
<input type="checkbox"/> gorge	<input type="checkbox"/> asymmetrical floodplain
<input type="checkbox"/> concave/dow	<input type="checkbox"/> + notes/mtds DRAIN

D NUMBER OF RIFFLES, POOLS AND POINT BARS (use U/A if them indicate total numbers)	
Riffles 19	Unvegetated point bars 1
Pools 10	Vegetated point bars

National Rivers Authority

DATES: Read 21/11/95

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

Riffles 19	Pools 10	Unvegetated point bars 1	Vegetated point bars
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Spot check 1 is at upstream end of site (tick one)

LEFT BANK <i>Left bank down stream</i>	1	2	3	4	5	6	7	8	9	10
Bank material (one)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications (1)	RS	RS	NO	R1	NO	NO	NO	NO	NO	NO
Bank feature(s)	ND	MC	NO	NO	NO	NO	NO	NO	NO	NO
CHANNEL NOTE - Use symbols of flow										
Channel substrate (one)	GP	CP	GP	GP	GP	GP	GP	GP	GP	GP
Flow type (one)	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
Channel modifications (1)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK <i>Right bank down stream</i>	1	2	3	4	5	6	7	8	9	10
Bank material (one)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications (1)	RS	RS	NO	R1	NO	NO	NO	NO	NO	NO
Bank feature(s)	ND	MC	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from R, C, S, L, E, P, O, A, D, U, M

LAND USE WITHIN 5m OF BANKTOP (L)	R	C	S	L	E	P	O	A	D	U	M
LEFT BANK TOP (structure within 1m)	S	S	S	S	S	S	S	S	S	S	C
RIGHT BANK TOP (structure within 1m)	S	S	S	S	S	S	S	S	S	S	C
RIGHT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S	C
RIGHT BANK TOP (structure within 1m)	S	S	S	S	S	S	S	S	S	S	C
LAND USE WITHIN 5m OF BANK TOP (R)	B	L	E	P	O	A	D	U	M		

G CHANNEL VEGETATION TYPES (fill in relevant boxes with an entry use E (to 33% area) or P (percent))

NONE (tick)	Plant genera (tick one)										
Emergent broad leaved herbs	<i>Sparganium</i>										
Emergent reed	<i>Phragmites</i>										
Flowering grass (front)											
Free-floating											
Amphibious											
Submerged broad-leaved											
Submerged fine leaved											
Flowering algae											

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

PLANTS - Use the following codes for the vegetation + species of grass + *Spartina patens* if

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

SITE NO: **4423**

H LAND USE WITHIN 50m OF BANKTOP (Use E (to 33% banktop) or P (percent))

	L	R		L	R
Broadleaved woodland (BL)	E	E	Wetland (eg bog, marsh, fen) (W)		
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 (UD)		

I BANK PROFILES (Use E (to 33% banktop) or P (percent))

Natural/Unmodified	L	R	Artificial/Modified	L	R
Vertical/steep			Ressorted		
Vertical + tree			Reinforced - whole bank		
Step (>45°)			Reinforced - top only		
Gentle			Reinforced - toe only		
Complex			Artificial two-stage		
Use 6th space in box profile if different from above, otherwise predetermined box			Prashed		
			Embed ed		
			Set-back embankment		

J EXTENT OF TREES AND ASSOCIATED FEATURES (tick one box per feature)

TREES (tick one box per tree)	None	Left	Right	Notes	ASSOCIATED FEATURES (tick one box per feature)	Shading of channel	None	Present	Notes	
	Isolated/scattered					Overhanging boughs				
	Regularly spaced, single					Exposed bankside roots				
	Occasional clumps					Underwater tree roots				
Scattered clumps				Fallen trees						
Continuous				Coarse woody debris						

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

Waterfall(s) - free-fall	None	Present	Marginal deadwater - silted	None	Present	Notes	
	Cascade(s) - close			Exposed bedrock			
	Step-pool sequence			Exposed boulders			
	Rapid(s) - white-water			Unvegetated mid-channel bars			
	Riffle-pool sequence			Vegetated mid-channel bars			
	Point(s) - disturbed, rippled			Natural islands			
	Bar(s) - gravelly			Unvegetated side bars			
Slide(s) - smooth, no debris		Vegetated side bars					

Have you completed your responses for this week? (send to PWD for signature!)

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	2.0	RIGHT BANK	
Flow height (m)	Water width (m)	1.0	Banktop height (m)	1.0
Embankment height (m)	Water depth (m)	0.55	Embankment height (m)	

If bankline lower than banktop break in slope, indicate height (m) **0.75** width (m) **2.25**

Bed material at site is: consolidated (comp-) unconsolidated (loos-) unknown

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

M ARTIFICIAL FEATURES (Use U/A if them indicate total number, tick 'none' where appropriate)

None Number of Culverts = Weirs = Outfalls = Fords = Footbridges = Banktop height (m) Other = Part of site Part of site

Is water level controlled by weirs/dams downstream? No Part of site Part of site

N EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

dredging moving Other? State

sediment enhancement

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

CHANNEL	Waterfalls > 5m high	<input type="checkbox"/>	FLOODPLAIN (50m corridor)	Artificial open water	<input type="checkbox"/>	Bog	<input type="checkbox"/>	Other (state)
	Brided/side channels	<input type="checkbox"/>		Natural open water	<input type="checkbox"/>	Care	<input type="checkbox"/>	
	Debris dams	<input type="checkbox"/>		Water meadow	<input type="checkbox"/>	Marsh	<input type="checkbox"/>	
Leafy debris	<input checked="" type="checkbox"/>	Fen	<input type="checkbox"/>	Flush	<input type="checkbox"/>			

P CHOKED CHANNEL (Tick one box)

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

Q NOTABLE NUISANCE PLANT SPECIES (Use U/A if them indicate total number, tick 'none' where appropriate)

Great Hedeword Himalayan Balsam Japanese Knotweed Other? State

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

Descriptive sentence: *Small V/C Pool stream, GP Substrate, some rhy...*

Flora of note: *1:23* in banks.

Major conservation features: *SL washdown*

Major impacts: *Washing machine water - Urban Trees*

Incidental observations (animals etc):

IFE (tick one box)

S DISEASED ALDERS (Tick one box)

None Present Extensive Other (diseased trees) State

SEND COMPLETED FORM TO HUGH HANSON, IFR, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

Enquiries supplied! Port completed file for printing, details supplied at request

NRA RIVER HABITAT SURVEY 1995 Page 2 of 4

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: 4448
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: S 1 0 8 4 9 8 5 River: Time
 Date: 7/1/1995 Time: 1:30 Surveyor name: M.C. Williams

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)

<input type="checkbox"/> shallow vee	<input type="checkbox"/> terraced valley floor
<input type="checkbox"/> deep vee	<input checked="" type="checkbox"/> symmetrical floodplain
<input type="checkbox"/> gorge	<input type="checkbox"/> asymmetrical floodplain
<input type="checkbox"/> concave/bowl	

D. NUMBER OF RIFLES, POOLS AND POINT BARS (Use 1-10 then indicate total number)

Rifles: 11 11 10 Unvegetated point bars: 0
 Pools: 1 1 1 Vegetated point bars: 0

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

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 spot)

	1	2	3	4	5	6	7	8	9	10
LEFT BANK										
Bank material (mm)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications	ND	VS	VS	VS	VS	VS	VS	VS	VS	VS
Bank features	ND	VS	VS	VS	VS	VS	VS	VS	VS	VS
CHANNEL										
Channel substrate (mm)	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP
Flow type (mm)	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
Channel modifications	RD	MC	MC	MC	MC	MC	MC	MC	MC	MC
Channel features	ND	VS	VS	VS	VS	VS	VS	VS	VS	VS
RIGHT BANK										
Bank material (mm)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modifications	ND	VS	VS	VS	VS	VS	VS	VS	VS	VS
Bank features	ND	VS	VS	VS	VS	VS	VS	VS	VS	VS
F. BANKTOP LAND USE AND VEGETATION STRUCTURE (to be assessed over a 10m wide transect)										
Land use: tick one from RL, CL, SL, DL, VL, OL, RW, RL, DL, SL										
LAND USE WITHIN 5m OF BANKTOP (L)	1	2	3	4	5	6	7	8	9	10
LEFT BANK TOP (structure within 1m)	L	S	S	S	S	S	S	S	S	S
LEFT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S
RIGHT BANK FACE (structure)	S	S	S	S	S	S	S	S	S	S
RIGHT BANK TOP (structure within 1m)	S	S	S	S	S	S	S	S	S	S
LAND USE WITHIN 5m OF BANK TOP (R)	1	2	3	4	5	6	7	8	9	10
G. CHANNEL VEGETATION TYPES (tick in relevant boxes with one entry; use E for 10% area or if present)										
NONE (tick as appropriate)										
Living stem vegetation										
Emergent broad-leaved herbs										
Emergent reeds/rushes/mosses										
Flowering-leaved (mosses)										
Free floating										
Amphibious										
Submerged broad-leaved										
Submerged fine-leaved										
Filamentous algae										

The end 'testball' column for types not occurring in spot checks as well as overall assessment over 500m (use E or 1)

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E for 10% banktop or if present)

	L	R	L	R
Broadleaved woodland (BL)			Wooded (eg bog, park, etc) (W)	
Cauliferous plantation (CP)			Open water (OW)	
Moorland/heath (MH)			Improved/semi-improved lawn (IL)	
Scrub (SC)			Tilled land (TL)	
Rough pasture (RP)			Suburban/urban development (SU)	

I. BANK PROFILES (Use E for 10% banktop or if present)

	L	R	Artificial/modified	L	R
Natural/unmodified					
Vertical/undercut			Reinforced		
Vertical + toe			Reinforced - whole bank		
Steep (> 45°)			Reinforced - toe only		
Grass			Reinforced - toe only		
Composite			Artificial toe/ridge		
Use this space to draw profile if different from above, otherwise predominant box	Paved Embankment Semi-built embankment				

J. EXTENT OF TREES AND ASSOCIATED FEATURES (Tick one box per feature)

TREES	Left	Right	ASSOCIATED FEATURES	None	Present	E
None	<input type="checkbox"/>	<input type="checkbox"/>	Staking of channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Isolated/battered	<input type="checkbox"/>	<input type="checkbox"/>	Overhanging boughs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regularly spaced, single	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bank-side roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occasional clump	<input type="checkbox"/>	<input type="checkbox"/>	Under size tree roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Semi-continuous	<input type="checkbox"/>	<input type="checkbox"/>	Fallen trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	Course woody debris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

	None	Present	E	None	Present	E
Waterfall(s) - free-fall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marginal dead-water - silt	<input type="checkbox"/>	<input type="checkbox"/>
Overbank(s) - chute	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed bedrock	<input type="checkbox"/>	<input type="checkbox"/>
Springs/seeps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exposed boulders	<input type="checkbox"/>	<input type="checkbox"/>
Rapids(s) - white-water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Riffles/seeps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated mid-channel bars	<input type="checkbox"/>	<input type="checkbox"/>
Runs(s) - disturbed, rippled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Major islands(s)	<input type="checkbox"/>	<input type="checkbox"/>
Scals(s) - spreading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unvegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>
Gidlets(s) - smooth, no eddies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetated side bars	<input type="checkbox"/>	<input type="checkbox"/>

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Bank top width (m)	<u>6.0</u>	RIGHT BANK
Bank top height (m)	Water width (m)	<u>4.0</u>	Bank top height (m)
Embankment height (m)	Water depth (m)	<u>0.2</u>	Embankment height (m)

If troughline lower than bank top head 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 (1% only)

M. ARTIFICIAL FEATURES (Use 1-10 to indicate total number, tick "new" where appropriate)

None Number of Culverts = Weirs = Outfalls = Fords =
 Footbridges = Roadbridges = Obans = Other =

Is water level controlled by a weir/dam downstream? No Part of site Mouth of site

N. EVIDENCE OF RECENT MANAGEMENT (Tick appropriate box)

cutting mowing Other?
 weed-killing enhancement

O. FEATURES OF SPECIAL INTEREST (Tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m corridor)
Waterfalls > 2m high	Artificial open water
Brash/side channels	Natural open water
Debris dams	Water meadow
Loose debris	Free flow
	Bag <input type="checkbox"/> Other (tick)
	Cart <input type="checkbox"/> Mark <input type="checkbox"/> Pile <input type="checkbox"/>

P. CHOKED CHANNEL (Tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES (Use 1-10 to indicate total number, tick "new" where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other?

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

Descriptive sentence: Channel is straight, uniform, and well-maintained. Water is clear and flows freely. Bank vegetation is sparse and low-growing.

Plant of note: None

Major conservation features: None

Major impacts: None

Incidental observations (animals etc): 1 duck

S. DISEASED ALGAE (Tick one box)

None Present Excessive Other (tick and name)

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STONE, WAREHAM, BH20 6BB

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 1 of 4

A. BACKGROUND MAP-BASED INFORMATION:

Altitude (m) Slope (m/m) Flow category (1-10)
 Solid geology code Drift geology code Platform category
 Distance from source (km) Significant tributary ? Navigation ?

B. FIELD SURVEY DETAILS

Reference network site number: 4443
 Mid-section grid reference of network site if different from designated location:

COMPLETE THE FOLLOWING FOR ALL SITES

Grid Reference: S4 084965 River: TALE. OA
 Date: 11/17/1995 Time: 09:15 Surveyor name: DR. THOMAS H. BAKER JR.
 Adverse conditions affecting survey? No Yes If yes, state: None
 Bed of river visible? No partially entirely (tick one box)
 Photographs: general character? No Yes (tick one box) with 1/4 mi. interval
 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 + notes/notes down

D. NUMBER OF RIFFLES, POOLS AND POINT BARS: (Use 1-4 then indicate total number)

Riffles: 9 Unvegetated point bars: 1
 Pools: 1 Vegetated point bars: 1

National Rivers Authority

NRA RIVER HABITAT SURVEY 1995: TEN SPOT CHECKS Page 2 of 4

E. PHYSICAL ATTRIBUTES (to be assessed across channel within a 1m wide zone) (Use 1-10 for scale)

Spot check 1 is at: upstream end of the dominant riffle	1	2	3	4	5	6	7	8	9	10
LEFT BANK (left bank, down stream)										
Bank material (fine)	EA	EA	RR	EA	EA	EA	EA	EA	EA	EA
Bank modification										
Bank feature(s)	NO	RI	RS	RS	RS	RS	RS	RS	RS	RS
CHANNEL RIVE: (Use 1-10 for scale)										
Channel substrate (fine)	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP
Flow type (fine)	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN
Channel modification										
Channel feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RIGHT BANK (right bank, down stream)										
Bank material (fine)	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
Bank modification										
Bank feature(s)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

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

Land use: choose one from PL, CP, SC, SP, SL, SW, TL, TD

LAND USE WITHIN 5m OF BANKTOP (L)	L	L	L	L	L	L	L	L	L	L
LEFT BANK TOP (structure within 2m)	U	U	U	U	U	U	U	U	U	U
LEFT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U
RIGHT BANK FACE (structure)	U	U	U	U	U	U	U	U	U	U
RIGHT BANK TOP (structure within 2m)	U	U	U	U	U	U	U	U	U	U
LAND USE WITHIN 5m OF BANK TOP (R)	L	L	L	L	L	L	L	L	L	L

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

NONE (tick)	Plant genus (tick one)																
Liverwort																	
Emergent broad-leaved																	
Emergent reed/straw																	
Free-floating																	
Amphibious																	
Submerged - broad-leaved																	
Submerged fine-leaved																	
Filament, algae																	

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

THES. record
 named
 habitat
 habitat

Use end 'catch-all' column for types not occurring in spot checks as well as overall assessment over 500m (use E or /)
 L.R.V.S. - Use 1-4 to indicate degree of bank stabilization
 + species of plants of both parts of stream bank

NRA RIVER HABITAT SURVEY 1995: 500m SWEEP-UP Page 3 of 4

H. LAND USE WITHIN 50m OF BANKTOP (Use E (in 33% banktop) or / if present)

	L	R		L	R
Prostrate/mixed woody (PL)			Woody (eg bog, marsh, fen) (W)		
Coniferous plantations (CP)			Open water (OW)		
Moorland/peat (MH)			Improved/improved grass (IG)	E	E
Scrub (SC)			Tilled land (TL)		
Rough pasture (RP)			Suburban/urban development (SU)		

I. BANK PROFILES (Use E (in 33% banktop) or / if present)

Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/vertical			Revetted		
Vertical + toe			Revetted - whole bank		
Steep (> 45°)			Revetted - top only		
Ozette			Revetted - toe only		
Composite			Artificial toe-steps		
			Parabed		
			Embankment		
			Se-back embankment		

J. EXTENT OF TREES AND ASSOCIATED FEATURES

TREES (tick one box per bank)

None	L	R	None	P	H
Isolated/scattered			Shading of channel		
Regularly spaced, single			Overhanging branches		
Occasional clumps			Exposed bankside roots		
Bank-embankment			Underwater tree roots		
Coniferous			Fallen trees		
			Coarse woody debris		

ASSOCIATED FEATURES (tick one box per feature)

None	P	H	None	P	H
Marginal deadwater - silt			Exposed bedrock		
Exposed bedrock			Exposed boulders		
Unvegetated mid-channel bars			Vegetated mid-channel bars		
Stony islands			Vegetated side bars		
Unvegetated side bars			Vegetated side bars		

K. EXTENT OF CHANNEL FEATURES (tick one box per feature)

None	P	H	None	P	H
Waterfall - freefall			Waterfall - chute		
Step-pool sequence			Rapid - whitewater		
Rapid - whitewater			Riffle-pool sequence		
Rune - slanted, rippled			Roll - rapwells		
Slide - smooth, no eddies					

NRA RIVER HABITAT SURVEY 1995: DIMENSIONS AND INFLUENCES Page 4 of 4

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

LEFT BANK	Banktop width (m)	7.0	RIGHT BANK		
Banktop height (m)	0.9	Water width (m)	4.0	Banktop height (m)	1.0
Embanked height (m)		Water depth (m)	0.1	Embanked height (m)	

If instability 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 1-10 for scale, tick "none" where appropriate)

None Number of Culverts = Weirs = Outfalls =
 Footbridges = Roadbridges = Other =
 Is water level controlled by weir/dam downstream? No Yes Part of site Start of hole of site

N. EVIDENCE OF RECENT MANAGEMENT (tick appropriate box)

dragging mowing Other ? State: _____
 weed-cutting enhancement

O. FEATURES OF SPECIAL INTEREST (tick appropriate boxes)

CHANNEL	FLOODPLAIN (50m radius)
Waterfall > 1m high	Artificial open water
Bankside channels	Natural open water
Debris dams	Water meadow
Loose debris	Fen
	Bog
	Cart
	Marsh
	Fluck

P. CROOKED CHANNEL (tick one box)

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

Q. NOTABLE NUISANCE PLANT SPECIES (Use 1-10 for scale, tick "none" where appropriate)

Giant Hogweed Himalayan Balsam Japanese Knotweed Other ? State: _____

R. BRIEF DESCRIPTION (Use prompts and tick words as appropriate)

Descriptive sentence: Uniform channel - GP substrate, RF sequence.
 Plants of note (tick one): 1. few trees
 Major conservation features: old posts/CI along bank.
 Major impacts: channel narrowing, mud/silt in pool - signs of
 Incidental observations (animals etc): owls in channels/slucos nearby in field.
 IFE? Channel only? Mixed
 S? Diseased Alders? (tick one box)
 None Present Extensive Other diseased trees? State: _____

SEND COMPLETED FORM TO HUGH DAWSON, IFE, RIVER LABORATORY, EAST STAKE, WAREHAM, BH20 6ER

Eunypus supplied! Post completed form for painting labels supplied

Have you completed your expenses for this week? (send to IFE for receipts!)

