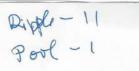
RIVER HA	ABITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS	
Site Number: 6 Site Reference: 6 Spot-check 1 Grid Ref: 2 36 295 44 3010/12 Spot-check 6 Grid Ref: 2 36 257,34 21 2826,56 End of site Grid Ref: 2 36 15 6,32 Reach Reference: 2 1 2681,07 River name: Date 62 / 07/20 15 Time: 1450w/Surveyor name:	Is the site part of a river or an artificial channel? River Artificial Are adverse conditions affecting survey? No Artificial Yes If yes, state Is bed of river visible? barely or not partially tentirely Is health and safety assessment form attached? Yes No Number of photographs taken: Photo references: Site surveyed from: left bank right bank channel
Accredited Surveyor code:	LEFT banks determined by facing downstream RIGHT
B PREDOMINANT VALLEY FOR	RM (within the horizon limit) (tick one box only)
(tick one box only) shallow vee deep vee gorge	concave/bowl asymmetrical valley U-shape valley no obvious valley sides
Distinct flat valley bottom? No	Yes Natural terraces? No Yes No
C NUMBER OF RIFFLES, POOLS Riffle(s) Pool(s) D ARTIFICIAL FEATURES (indicate total	Unvegetated point bar(s) Unvegetated point bar(s) Vegetated point bar(s) Lal number of occurrences of each category within the 500m site)
If none, tick box Culverts Bridges Other - state Is channel obviously realigned?	Minor Major Intermediate Minor Outfalls/ Intakes Fords Deflectors/ groynes/croys No
Is channel obviously over-deepened?	



SITE REF.	RIVER HA	BITA	SUR	VEY:	TEN	SPC	T-CH	ECK:	S	Pag	e 2 of	f 4
Spot-check 1 is at: upstream er	nd 🔲 do	wnstrear	n end		of	site (tie	k one b	ox)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	across cl	nannel	withir	1m w	ide tra	insect)					
When boxes 'bordered', only o	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Ring	EC or	SC If a	оппро	sed of	sandy	substr	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WIP, GA, BR, RR, TD, FA, BI	00	80	60	EA	En	EA	EA	EA	EA	EA	1000
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	NO	50	00	No	No	NO	00	No	Up	No	arise.
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	No	NO	S	No	No	NO	20	CN	5	20	0110
CHANNEL				GP- rii	ng eith	er G o	rPifp	redon	inant			
Channel substrate NV, BE, BO, CO), GP, SA, SI, CL, PE, EA, AR	30	30	(0	Co	CO	CO	CO	Bo	30	Во	
Flow-type NV, FF, CH, BW, UW, CF	, RP, UP, SM, NP, DR	RP	RP	51	151	NP	NP	NP	ST	SM	50	4
Channel modification(s) NK, I	NO, CV, RS, RI, DA, FO	NO	50	No	No	oa	NO	ou	No	Ca	OC	0
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	80	RO	NO	NO	10	NO	No	NO	60	No	spot-checks but present in
For braided rivers only: numl	ber of sub-channels	0	0	0	0	O	0	0	0	0	Ø	chec
RIGHT BANK			Rine	EC o	The second second	сотр	ised of	sandy	subst	ate		ks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WP, GA, BR, RR, TD, FA, B	EA	BO	BO	Bo	BA	EA	FA	EN	EA	FA	ut pr
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	000	00	00	GW	NO	NO	NO	NO	NO	00	eser
Marginal & bank feature(s) NV, N	io, ec, sc, pb, vp, sb, vs, ne	30	DU	DO	NO	70	V5	NO	CC	6U	00	t in
F BANKTOP LAND-USE	AND VEGETATI	ON ST	RUCT	URE (to be as	sessed		10m w	ide trar	isect)		spot-checks but present in >1%
Land-use: choose one from i	BL, BP, CW, CP, SH,	OR, WI	., мн,	AW, C	W. RP	, IG, T	H, RD,	SU, TI	., IL, P	G, NV		>1% of whole
LAND-USE WITHIN 5m OF LEFT	BANKTOP	46H	BL	WL	醚	5H	5H	5H	SH	SH	SH	hole
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	B	5	5	5	C	5	5	5	6	5	site.
LEFT BANK-FACE (structure)	B/U/S/C/NV	B	5	5	5	C	5	U	U	S	5	gon
RIGHT BANK-FACE (structure)	B/U/S/C/NV	U	5	5	C	C	C	5	5	5	5	e site.
RIGHT BANKTOP (structure with	in 1m) B/U/S/C/NV	U	5	1	C	C	5	5	5	5	5	7. 15
LAND-USE WITHIN 5m OF RIGHT	T BANKTOP	54	31	BL	Ball	5H	SH	SH	SH	SH	· 5 t	-
G CHANNEL VEGETATI	ON TYPES (to be a	sessed ov	er a 10n	r wide 1	36	use E (> 13% au	ea), 🗸	(presen	or (NV	(not vis	ble)
None (/) or Not Visible (NV)		T				-		The Assessment of the Section of the				
		1.		1	- 1	1		1	-	L	L	
					L	-	-					
Liverworts/mosses/lichens		1	6	_					1			235
Liverworts/mosses/lichens Emergent broad-leaved herbs	urasses/horsetails	1	V		11	-	U	-				
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g	grasses/horsetails	L			V	U	~	L				
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted)	grasses/horsetails	V	V		V	U	U		1	-	1	
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating	grasses/horsetails	\(\triangle \)	V		V	U	U	L	L	L	<u></u>	
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious	grasses/horsetails	\(\triangle \)	V		~	U	U		U	L		
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	grasses/horsetails	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V		V		U		L	L		
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved Submerged linear-leaved	grasses/horsetails	\(\nu\)	V		V	<i>U</i>			U	L		
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	grasses/horsetails	\(\bullet \)	V		~				L	L	(

SITE REF.	RIVER HAI	BITAT	SURVE	Y : 500m SWEEP-UP	Page :	3 of
H LAND-USE WITH	HIN 50m OF BAI	NKTOP	1)se	✓ (present) or E (> 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland		v	V	Natural open water (OW)		
Broadleaf/mixed plantation	1 (BP)		11-2	Rough/unimproved grassland/pasture (RP)		
Coniferous woodland (sem				Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)	10311-317	3 17.3		Tall herb/rank vegetation (TH)	V	000
Scrub & shrubs (SH)	GU puls	E	施し	Rock, scree or sand dunes (RD)		
Orchard (OR)	200 FT x 6			Suburban/urban development (SU)	of bank of h	160
Wetland (e.g. bog, marsh,	fen) (WL)	V		Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)		
	10 20 3			Not visible (NV)	1,99.30	
BANK PROFILES	Use 🗸 (presen	it) or E 🍃	₃ 33% bai	(klength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	7 7			Resectioned (reprofiled)		
Vertical with toe	7m	~	L	Reinforced - whole		
Steep (>45°)	,,,,	1 -	1.	Reinforced - top only		
Gentle —		E	1	Bill III		
Composite	~			Artificial two-stage		
Natural berm				Poschad hank		
	E discount de la			Embanked —————		
				— — — — — — — — — — — — — — — — — — —		
				Set-back embankment		
EXTENT OF TREES	AND ASSOCIATE	ED FEATU		record even il <1%		
TREES (tick one l		laht		ASSOCIATED FEATURES (tick one box per fea		
None		light		None Prese	nt E(≥33	(%)
Isolated/scattered		=		Shading of channel *Overhanging boughs	1000	
Regularly spaced, s	ingle	T .		*Overhanging boughs *Exposed bankside roots		
Occasional clumps		=				
Semi-continuous		= -		*Underwater tree roots		
Continuous		7		Fallen trees	H	
EXTENT OF CHA				Large woody debris (tick one box for each feature) record even if		
	MARCHAEL PROCESSOR	esent E(≥			esent E(≥3	33%)
Free fall flow		J (MX	1
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Exposed boulders	K D	ğ
	-	- T			-	
hute flow roken standing waves	4	i č		Vegetated bedrock/boulders		
hute flow roken standing waves	CDA C		_			1
thute flow Froken standing waves Unbroken standing waves]	Unvegetated mid-channel bar(s))
thute flow Froken standing waves Unbroken standing waves Sippled flow			3	Unvegetated mid-channel bar(s)		
Chute flow Broken standing waves Jinbroken standing waves Dippled flow Upwelling				Unvegetated mid-channel bar(s)		
Chute flow Broken standing waves Jubroken standing waves Bippled flow Upwelling Imooth flow				Unvegetated mid-channel bar(s)		
Chute flow Broken standing waves Stippled flow Upwelling Strooth flow No perceptible flow				Unvegetated mid-channel bar(s)		
Chute flow Froken standing waves Jinbroken standing waves Lippled flow Upwelling Emooth flow No perceptible flow No flow (dry)				Unvegetated mid-channel bar(s)		
Chute flow Broken standing waves Jinbroken standing waves Stippled flow Upwelling Imnooth flow No perceptible flow No flow (dry) Marginal deadwater Eroding cliff(s)				Unvegetated mid-channel bar(s)		
Chute flow Froken standing waves Unbroken standing waves Uppled flow Upwelling Fronoth flow No perceptible flow No flow (dry) Marginal deadwater				Unvegetated mid-channel bar(s) Vegetated mid-channel bar(s) Mature island(s) Unvegetated side bar(s) Vegetated side bar(s) Unvegetated side bar(s)		

SITE REF.	RIVE	R HABI	TAT SURVEY : DI	MENSION	NS AND INFLUE	NCES	Page	4 of 4
L CHANNEL DIM	iensions	(to be m	easured at one locatio	n on a straic	ght uniform section,	. preferab	ly across	a riffle
LEFT BANK			CHANNEL		RIGHT BANK			
Banktop height (m)		0.5	Bankfull width (m)	10	Banktop height ((m)		0,5
Is banktop height also height? (Y or N)	bankfull	A	Water width (m)	б	Is banktop heigh height? (Y or N)		nkfull	N
Embanked height (m)		70	Water depth (m)	07	Embanked heigh	it (m)		0
If trashline lower than	banktop, in	dicate: h	eight above water (m)= 0	width from bank to	bank (m) =	0
Bed material at site is:				consolidate	d (loose)		unknowr	n 🛄
Location of measurem	ents is: rif	fle ຝ o	ther (state)					
M FEATURES OF	SPECIAL	interes	T Use √or E (≥ 3	3% length)	record even if <19			
None Braided channels Side channel(s) *Natural waterfall(s) > 5r *Natural waterfall(s) < 5r Natural cascade(s)		*Debris *Leafy d	reed-bank(s)	Backwater(Floodplain Water mea Fen(s) Bog(s) Wet wood	boulder deposits [dow(s) [Flush Natu	sh(es) h(es) ural n water ers (state)	
n Choked Cha		ick one bo	x)					
s 33% or more of the	channel ch	oked with	vegetation?	No 📈	Y	es 🔲		
None *Giant h *Japanes P OVERALL CHA Major impacts: landfil mining - quarrying - ove Evidence of recent i gravel extraction - othe Animals: otter - min Other significant of observations	ogweed e knotweec RACTERIS I - tipping - lerdeepening managemer (please s) k - water vo	litter - sewa - afforesta ent: dre pecify)	*C (Circle appropria lige - pollution - droughtion - fisheries manager dging - bank mowing her - dipper - grey wag	te words, at - abstractio ment - silting - weed cutt atail - sand m	add others as non-mill - dam - road - waterlogging - hydring - enhancement	- rail - in froelectric - river re onflies/da	dustry - h power habilitati	nousing
	ne box ir	10 - 20 - 30 m/x	the two categories	es) reco	ord even if <1%)	t D	Extensiv	/e \Box
R FIELD SURVEY							of thomas	
Have you taken at least t and major/intermediate i Have you completed all t Have you completed colu Have you recorded in sec Have you given an accur Have you stated whether	wo photos the structures action spot-checumn 11 of section C the nate (alphanus spot-check	hat illustrat ross the ch cks and ma ection G (ar umber of r meric) grid 1 is at the	e the general character annel? de entries in all boxes ir nd E if appropriate) on p iffles, pools and point b reference for spot-chec upstream or downstrear	of the site and a E & F on parage 2? ars (even if 0) this 1, 6 and e on end of the s	d additional photos of ge 2? on page 1? nd of site (page 1)? site (top of page 2)?		s/ sluices	
Have you cross-checked ; given on page 2 of the si	your spot-ch oot-check ke	eck and sw y?	eep-up responses with	the channel n	nodification indicator	S		4

A FIELD SURVE						
Site Number:	new site	by feeting				
vate 05/07/2015 urveyor name: David	24 836, 58 20 6534, \$3 882, 50 6519, 11 Time: 116 54 Eurandus	Are adver		rely or not ment form att	No partially tached? Yes	Yes & tentirely
accredited Surveyor code:	18100	LEFT			ng downstrea	
B PREDOMINA	NT VALLEY FOR	M (withir	the horizor	n limit)	(tick one bo	k only)
	deep vee				asymmetrical U-shape valle	ey .
Distinct flat valley	bottom? No	Yes 🔲	Natura	al terraces?	No	Yes 🔲
C NUMBER OF	RIFFLES, POOLS	AND POH	NT BARS	(enter total	l number in b	oxes)
Riffle(s) Pool(s)		0	Unvegetated point		Join 1 Jenett Anni Iganite Ja- Jelini, Jepani	0
D ARTIFICIAL FEA	TURES (indicate tota	al number of	occurrences of e	ach category	within the 500m	rsite)
f Manone, iick box Culverts Bridges	ijor Intermediate	Minor	Outfalls/ intakes Fords Deflectors/ groynes/croys	Major	Intermediate	Minor

	RIVER HA	BITA	T SUI	RVEY	: TEN	N SPC	OT-CI	1ECK:	5	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream er	nd do	wnstrea	m end	a	of	site (ti	ck one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	across c	hanne.	withi	i lm v	vide tr	ansect)					
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GP
LEFT BANK			Ring	49	SC if	ompo	ised of	EA	substi	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	C, SP, WP, GA, BR, RR, TD, FA, BI	BE	EA	MA	RO	BE	BE	雅				
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	100	NO	NO	NO	NO	NO	No		ioii		
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	00	NO	NO	NO	GU	NO	NO				
CHANNEL			V.	GP- ri	ng eith	ier G d	or P if p	redon	inant			
Channel substrate NV, BE, BO, CO	O, GP, SA, SI, CL, PE, EA, AR	NV	UV	NV	NV	NV	W	NV				
Flow-type NV, FF, CH, BW, UW, CF	F, RP, UP, SM, NP, DR	5П	511	511	BP	511	51	511				
Channel modification(s) NK,	NO, CV, RS, RI, DA, FO	No	100	NO	No	NO	NO	NO				I
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	NO	100	ND	NO	NO	NO	64				spot
For braided rivers only: numl	ber of sub-channels	0	0	0	0	0	0	0				che
RIGHT BANK			Rin	g EC o	r SC if	comp	osed o	fisandy	subst	rate		cks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WP, GA, BR, RR, TD, FA, BI	BE	BE	BE	BE	BF	BE	BF		1000		out p
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	No	NO	NO	NO	NO	W	NO			BAGT	rese
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	NO	NO	NO	NO	20	CK	GN				nt in
F BANKTOP LAND-USE	AND VEGETATION	ON ST	RUCT	URE	to be as	sessed	overa	10m w	de trar	nsect)	HAVE SEE	×10
Land-use: choose one from I												6 of w
LAND-USE WITHIN 5m OF LEFT	BANKTOP	BL	BL	BL	BL	BL	31	TH				hole
LEFT BANKTOP (structure within	1m) B/U/S/C/NV (B	C	C	C	C	C	5				site.
LET I DATE OF COLUCTOR WITHIN				ASSESSMENT OF REAL PROPERTY.		-		-				
LEFT BANK-FACE (structure)	B/U/S/C/NV B	6	U	5	5	5	5	0				
	B/U/S/C/NV B		U	5	5	5	5	()				
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure)	B/U/S/C/NV B		000	5	5	5 5	5 5	0				
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure withi	B/U/S/C/NV B	B)	200 200 200 200 200 200 200 200 200 200	5 5 5	5 5	5 5	5 5	U U 5				
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT)	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP	B1	BF O	5 5 5 克	5 5 9H	5 5 5	5 5 5 8	U 5 5H	Oresett	o or NV	1000	spot-checks but present in >1% of whole site.
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP		Wile Bridge	5 5 5 5 5 4	5 5 5 5 5 1	5 5	5 5 5 4	U 5 5H	(presen	D. cir NV	taret vis	5(A)
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure withi LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV)	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP	BL NV	9V	5 5 5 NV	5 5 5 5 4	5 5 5 1	5 5 5 4	U 5 5H	(prescr)	I) or NV	Endovis	Ele)
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT C CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP		Wile Building	5 5 5 NV	S S S S S S S S S S S S S S S S S S S	5 5 5 1	5 5 5 4	U 5 5H	(pres∈n	t) or NV	(not vis	Elio)
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 5 NV	S S S S S S S S S S S S S S S S S S S	5 5 5 1	5 5 5 4	U 5 5H	(pres∈n	O or NV	(alot via	b(c)
RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 5 NV	S SH SH Nocati	5 5 5 1 1 1 1 1 1	5 5 5 M	U 5 5H	(préseq	O cir NV	IFO VIS	E(0)
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted)	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 5 NV	5 5 5 5 7 2	5 5 5 1	5 5 5 8 W	U 5 5H	(pres±n	O or NV	(not vis	(b)(c)
RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 3 NV	S S SH NV	5 5 5 NV	5 5 5 1 W	U 5 5H NV	(présen	O or NV	FPO VIS	(b)(c)
RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 5 1	S S SH Minyeate NV	5 5 5 5 4 10 10 10 10 10 10 10 10 10 10 10 10 10	5 5 5 4	U 5 5H	Древец	D GF NV	FIOVE	(b(c))
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 3 M	S S SH OH NV	S S S M NV	5 5 5 M	0 5 5H	(presch	0), or NV	ind via	(a) (b) (c)
RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved Submerged linear-leaved	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 3 1	5 5 5 5 1 2 2 2	S S S S S S S S S S S S S S S S S S S	5 5 5 4	0 0 5 5 5 1 0 0	Apresen	O or NV	fnet vis	(b)(c)
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	B/U/S/C/NV B in 1m) B/U/S/C/NV C T BANKTOP ON TYPES (to be as		Wile Building	5 5 5 1 1 1 1 1 1	5 5 5 5 4 2 2 2	S S S MV	5 5 5 M	0 0 5 5 5 1 2 1	Apresch	0) or NV	Inot vio	(b)(c)

SITE REF. RIVER H.	ABITAT	SURVE	Y : 500m SWEEP-UP	Page :	3 of 4
H LAND-USE WITHIN 50m OF I	BANKTOP		/ (present) or E (≥ 33% banklength)		
	L	R		L	R
Broadleaf/mixed woodland (semi-natural) (BL) E	V	Natural open water (OW)		
Broadleaf/mixed plantation (BP)			Rough/unimproved grassland/pasture (RP)		
Coniferous woodland (semi-natural) (CW))		Improved/semi-improved grassland (IG)	100	
Coniferous plantation (CP)	5		Tall herb/rank vegetation (TH)	V	
Scrub & shrubs (SH)	1	E	Rock, scree or sand dunes (RD)		
Orchard (OR)	00 100	1,001	Suburban/urban development (SU)	V-146	
Wetland (e.g. bog, marsh, fen) (WL)			Tilled land (TL)		
Moorland/heath (MH)			Irrigated land (IL)		
Artificial open water (AW)			Parkland or gardens (PG)	-	
			Not visible (NV)		
1 BANK PROFILES Use / (pre	sent) or E (≥ 33% bai	iklength)		
Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut	~	E	Resectioned (reprofiled)		
Vertical with toe	E	V	Reinforced - whole		
Steep (>45°)	L	-	Reinforced - top only		
Gentle		-	Reinforced - toe only		
Composite	The latest		Artificial two-stage		
, ~mm					-
Natural berm			Poached bank	-	-
			Embanked		
			Set-back embankment		
J EXTENT OF TREES AND ASSOC	IATED FEAT	URES	*record even if <1%		
TREES (tick one box per bank)			ASSOCIATED FEATURES (tick one box per feat	ure)	20/1
Left	Right			nt E(≽3	390)
None U	H		Shading of channel		1
Isolated/scattered	H		*Overhanging boughs *Exposed bankside roots		-
Regularly spaced, single	H				1
Occasional clumps	×		*Underwater tree roots	-	1
				- 7	1
K EXTENT OF CHANNEL AND	BANK FEAT	PAGIE	Large woody debris (tick one box for each feature) *record even if	<186	
None	Present E			II (Christian)	≥33%
*Free fall flow			Exposed bedrock		X
Chute flow			Exposed boulders		
Broken standing waves	ū		Vegetated bedrock/boulders	×	1
Unbroken standing waves Rippled flow "Upwelling Smooth flow No perceptible flow No flow (dry) Marginal deadwater Eroding cliff(s) Stable cliff(s)	Ţ		Unvegetated mid-channel bar(s)		_
Rippled flow	K		Vegetated mid-channel bar(s)	_	
*Upwelling			Mature island(s)		1
Smooth flow	B		Unvegetated side bar(s)		
No perceptible flow			Vegetated side bar(s)		
No flow (dry)			Unvegetated point bar(s)		
Marginal deadwater	0		Unvegetated point bar(s) Vegetated point bar(s)		
Eroding cliff(s)	ō		*Unvegetated silt deposit(s)		
Stable cliff(s)	ō	ō	*Discrete unvegetated sand deposit(s)	5	
			*Discrete unvegetated gravel deposit(s)	7	

SITE REF.	RIVE	R HABIT	AT SURV	EY : DIN	MENSION	S AND I	NFLUENC	ES Pa	ge 4 of
L CHANNEL DIM	1ENSIONS	(to be me	asured at or	ne location	on a straigl	nt uniform	section, pre	lerably acr	ross a rifi
LEFT BANK			CHANNEL			RIGHT B.	ANK		
Banktop height (m)		0.7	Bankfull w	idth (m)	12	Banktop	height (m)		0,7
ls banktop height also height? (Y or N)	bankfull	N	Water wid	th (m)	12	Is bankto height?	p height als (Y or N)	o bankfull	1
Embanked height (m)		Dign'	Water dep	th (m)	1,70	Embanke	ed height (m	1)	Or
f trashline lower than	banktop, in	dicate: he	eight above	water (m)	= 0,4 W	vidth from	bank to ban	k (m) =	19
Bed material at site is:		cons	olidated (unce	onsolidated	(loose) []	unkn	own 📮
ocation of measurem	ents is: riff	le 📮 otl	ner 📿 (state	e)					
m features of	SPECIAL	INTERES	「 Use √	or E (≥ 33¹	% length) *	record eve	n if <1%		
None Braided channels Side channel(s) Natural waterfall(s) > 51 Natural waterfall(s) < 51 Natural cascade(s)	m high 🗌	*Debris d *Leafy de	bris reed-bank(s) bank(s) e(s)		Backwater(s) Floodplain b Water meac Fen(s) Bog(s) Wet woodla	oulder dep dow(s)	osits	Marsh(es) Flush(es) Natural open wate Others (st	er
s 33% or more of the				Milesterville	No K		Yes		
O NOTABLE NUI						Charles Carlotte	1 63		
*Japane: P OVERALL CHA Major impacts: landfi mining - quarrying - ov Evidence of recent gravel extraction - oth Animals: otter - mir Other significant o observations	ll - tipping - l erdeepening managem er (please sp nk - water vol	itter - sewar - afforestati ent: dred pecify)	ge - pollutior ion - fisheries Iging - bank er - dipper -	n - drought m - drought managem k mowing -	- abstraction ent - silting - weed cutti ail - sand ma	add other add other a - mill - dar waterlogg ng - enhar artin - heror	m - road - rail ing - hydroeld ncement - riv	- industry ectric powerer rehabili es/damself	er itation - lies
ALDERS (tick of Alders? None	QUALITY two photos the	Extension Extens	othe general	*Diseased Exes to co character of	d Alders? No	additional	Present [ensive l
Have you completed col Have you recorded in se Have you given an accu Have you stated whethe	lumn 11 of se ction C the n rate (alphanu	ection G (an umber of rit meric) grid	d E if approp ffles, pools ar reference for	oriate) on pa nd point bar r spot-check	ge 2? rs (even if 0) s 1, 6 and er	on page 1? nd of site (p	age 1)?		
Have you cross-checked given on page 2 of the s			eep-up respo	nses with th	ne channel m	odification	indicators		

RIVER HABITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS
Site Number: Site Number: Site Number: Site Number: Site Number: Site Reference: Spot-check 1 Grid Ref: 3035 † 33,21 Spot-check 6 Grid Ref: 3035 † 55,14 End of site Grid Ref: 3055 † 56,14 End of site Grid Ref: 3055 † 42,80 Reach Reference: 3055 † 42,80 River name: 3055 † 42,80 River name: 3056 † 44,199 River name: 3056 † 56,149 Photo references: Site surveyed from: left bank right bank channel Surveyor name: 3056 † 54,240 Surveyor name: 3056 † 54,240 Surveyor name: 3056 † 54,240 Site surveyed from: left bank right bank channel Surveyor name: 3056 † 54,240 Site surveyed from: left bank right bank channel Surveyor name: 3056 † 54,240 Site surveyed from: left bank right bank channel Site surveyed from: left bank right bank right specified from box only the same fill one bay one bay one bay on the same fill one bay on the same fill one bay on the same fill one bay on
Accredited Surveyor code: LB 1 000 LEFT banks determined by facing downstream RIGHT
B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box only)
(tick one box only) shallow vee concave/bowl asymmetrical valley U-shape valley gorge no obvious valley sides
Distinct flat valley bottom? No 🔽 Yes 🔲 Natural terraces? No 💭 Yes 🗍
C NUMBER OF RIFFLES, POOLS AND POINT BARS (enter total number in boxes)
Riffle(s) Pool(s) Unvegetated point bar(s) Vegetated point bar(s)
D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)
If none, tick box
Is channel obviously realigned? No ☐ Yes, <33% of site ☐ ≥33% of site ☐ Is channel obviously over-deepened? No ☐ Yes, <33% of site ☐ ≥33% of

SITE REF. RIVER HA	ABITA'	T SUI	RVEY	: TEI	N SP	OT-CI	IECK	S	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream end de	ownstrea	m end		of	site (ti	ick one	box)				
E PHYSICAL ATTRIBUTES (to be assessed	across c	hanne	withi	n 1m v	vide tr	ansect)					
When boxes 'bordered', only one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK		Ring	j EC oi	SC if	comp	osed of	sandy	subst	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, TD, FA, B	FA	FA	PA	BE	GA	FA	GA	EA	34	GA	
Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM	No	N)	No	No	W	an	w	MO	NO	NO	
Marginal & bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS, NE	s lo	NO	160	No	No	000	NO	NO	No	No	1010
CHANNEL			GP- ri	ng eith	ner Glo	or Plifip	redon	ninant			
Channel substrate NV, BE, BO, CO, GP, SA, SI, CL, PE, EA, AR	54	CA	80	Bo	Co	80	BG	SA	Co	SA	16
Flow-type NV, FF, CH, BW, UW, CF, RP, UP, SM, NP, DR	NB	MP	The	NA	MP	NP	MP	ZM	NP	Nr	
Channel modification(s) NK, NO, CV, RS, RI, DA, FO	in	No	N	in	M	W	No	M	No	M	1
Channel feature(s) NV, NO, EB, RO, VR, MB, VB, MI, TR	No	MI	KB	NO	MO	W	N	V	NO	No	spot.
For braided rivers only: number of sub-channels											chec
RIGHT BANK		Rin	g EC o	r SC if	comp	osed of	sand	/ subst	rate		cks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC, SP, WP, GA, BR, RR, TD, FA, B	GA	GA	678	GA	CA	CA	86	(SDA)	EA	GN	ut p
Bank modification(s) NK, NO, RS, RI, PC(B), BM, EM	No	100	W	No	W	No	10	No	No	100	reser
Marginal & bank feature(s) NV, NO, EC, SC, PB, VP, SB, VS, NE	W	M	No	NO	(N)	NO	M	W	W	No	nt in
F BANKTOP LAND-USE AND VEGETATI	ON STI	RUCT	URE (to be a	ssessed	over a	10m w	ide trar	rsect)		>1%
Land-use: choose one from BL, BP, CW, CP, SH,	OR, WI	., мн,	AW, C	W, RP	, IG, T	H, RD,	SU, TI	, IL, P	G, NV		spot-checks but present in >1% of whole site.
LAND-USE WITHIN 5m OF LEFT BANKTOP	SA	54	SV	SH	RA	RP	54	54	512	54	hole
LEFT BANKTOP (structure within 1m) B/U/S/C/NV	S	2	5	S	Ü	C	S	2	5	5	site.
LEFT BANK-FACE (structure) B/U/S/C/NV	5	2	5	5.	j	C	5	5	5	5	goor
RIGHT BANK-FACE (structure) B/U/S/C/NV	V	5	5	U	11	<	B	S	5	5	linai
RIGHT BANKTOP (structure within 1m) B/U/S/C/NV	7	S	5	5	5	5	0	V	5	5	16 (11)
LAND-USE WITHIN 5m OF RIGHT BANKTOP	5/4	2.17	2/1	SH	F1+	MH	BIH	54	51	SH	
G CHANNEL VEGETATION TYPES (to be at	sessed ov	er a 10n	n wid∈ t	ransect.	use E (33% al	e), /	(presen	n) or NV	(nat vis	b(c)
None (/) or Not Visible (NV)											
Liverworts/mosses/lichens	V	V	1/	11/	1	1/	V	1/	SP	V	
Emergent broad-leaved herbs	,		11	-	1	\ \	1/	V	-		
Emergent reeds/sedges/rushes/grasses/horsetails	17	V	V	*		V	V	1/	V	1/	
Floating-leaved (rooted)	1/	-		1/	1					11	
Free-floating	1	III		V	V					V	
Amphibious						H				1	
Submerged broad-leaved			1							0	
Submerged linear-leaved			1							V	- 12
Submerged fine-leaved	1/	1	1/	1/	1	V			N	V	100
Filamentous algae		V	V	V	V	V			V	1 1 1 1	
, name, nous argue									1 1 1 2		1311

SITE REF.	RIVER HAE	BITAT	SURVE	Y : 500m SWEEP-UP	Page :	3 of 4
H LAND-USE WITHIN	50m OF BAI	VKTOP	Use	√ (present) or E (a 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (ser	mi-natural) (BL)		V	Natural open water (OW)	I Fig.	
Broadleaf/mixed plantation (BI	2)			Rough/unimproved grassland/pasture (RP)	V	
Coniferous woodland (semi-na	tural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)				Tall herb/rank vegetation (TH)	0	V
Scrub & shrubs (SH)	M GET A	5	D	Rock, scree or sand dunes (RD)		
Orchard (OR)		100	90_	Suburban/urban development (SU)		
Wetland (e.g. bog, marsh, fen)) (WL)		1.7	Tilled land (TL)		
Moorland/heath (MH)		-	V	Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)		
				Not visible (NV)		
I BANK PROFILES	Use 🗸 (preser	it) or E	(≽ 33% ba	inklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	n 7m	F	15	Resectioned (reprofiled)		
Vertical with toe		1	V	Reinforced - whole		
Steep (>45°)				Deleferred ton sub-		
	.ww	10				
Gentle		V		Reinforced - toe only		
Composite	~~ww			Artificial two-stage		
Natural berm				Poached bank		
				Embanked		
				Set-back embankment	10000	
1 EXTENT OF TREES AN	ID ASSOCIAT	ED FEA	TURES	*record even if <1%	System .	
TREES (tick one box		No. of Street		ASSOCIATED FEATURES (tick one box per fea	ture)	
		Right		None Prese		3%)
None		H		Shading of channel	_	
Isolated/scattered				*Overhanging boughs	-	
Regularly spaced, sing		닠		*Exposed bankside roots	-	
Occasional clumps		¥		*Underwater tree roots	_	ļ
Semi-continuous	H	닏		Fallen trees	<u> </u>	1
Continuous	U	u		Large woody debris		1
K EXTENT OF CHANK	THE RESERVE AND ADDRESS.	- CARN	danis danis da la	(tick one box for each feature) *record even it		
*Free fall flow	None P	resent t	E(≽33%)	None Pr Exposed bedrock	esent E(33%)
Chute flow	R	Ĭ.	T	Exposed boulders	3	=
Broken standing waves	X	ī	n	Vegetated bedrock/boulders	7	7
Unbroken standing waves	17	ō	n	Unvegetated mid-channel bar(s)	7	5
Rippled flow		ō	ă	Vegetated mid-channel bar(s)		5
*Upwelling	R	n -	n	Mature island(s)		5
Smooth flow	(a)	X	ī	Unvegetated side bar(s)	7	7
No perceptible flow	1444			Vegetated side bar(s)	7	7
No flow (dry)			35	Vegetated side bar(s) Unvegetated point bar(s)		=
2 04			H			=
Marginal deadwater		7	-	Prints	-	-
Eroding cliff(s)		7	7	*Unvegetated silt deposit(s) *Discrete unvegetated sand deposit(s)	-	_
Stable cliff(s)						

SITE REF.	RIVE	R HABIT	FAT SURVEY : DI	MENSION	IS AND INFLUE	NCES Pag	ge 4 of 4
L CHANNEL DIN	MENSION						
LEFT BANK			CHANNEL		RIGHT BANK		
Banktop height (m)		1,5	Bankfull width (m)	15	Banktop height (ı	m)	15
ls banktop height also height? (Y or N)	bankfull	V	Water width (m)	12	ls banktop height height? (Y or N)	also bankfull	W
Embanked height (m)		3	Water depth (m)	0,8	Embanked height	t (m)	В
f trashline lower than	banktop, ii	ndicate: h	eight above water (m)	= 1	width from bank to	bank (m) =	15
Bed material at site is:			solidated 🛍 und	onsolidated	d (loose) 🛕	unkno	own 📮
ocation of measurem	ents is: ri	fle 🔼 o	ther 🖵 (state)				
m features of	SPECIAL	INTERES	T Use √ or E (≥ 33	% length)	record even if <1%		
None Braided channels Side channel(s) Phatural waterfall(s) > 5 Phatural waterfall(s) < 5 Natural cascade(s) CHOKED CHA S 33% or more of the	m high	*Debris *Leafy d Fringing Quaking *Sink ho	ebris	Backwater(: Floodplain Water mea Fen(s) Bog(s) Wet woodl	dow(s)	Marsh(es) Flush(es) Natural open wate Others (sta	er \square
D. NOTABLE NUI					THE AND THE PROPERTY OF THE PARTY OF THE PAR		
*Japane P OVERALL CHA Major impacts: landfi mining - quarrying - ow Evidence of recent gravel extraction - oth Animals: otter - mir	ill - tipping - erdeepening managem er (please s nk - water vo	litter - sewa g - afforesta nent: dre pecify)	=	e words, - abstractionent - silting - weed cutt	add others as ne n - mill - dam - road waterlogging - hydr ing enhancement artin - heron - drago	rail - industry roelectric powe - river rehabili	er tation - ies
Alders? None 🔲 I	Present [4	Extensi	OL (/ boxes to co	d Alders? N	ecks)		nsive [
and major/intermediate Have you completed all Have you completed col Have you recorded in se Have you given an accu Have you stated whethe	structures a ten spot-che lumn 11 of s ction C the rate (alphan r spot-check your spot-cl	cross the checks and ma ection G (ar number of r umeric) grid 1 is at the	e the general character of annel? ide entries in all boxes in nd E if appropriate) on p iffles, pools and point ba I reference for spot-checl upstream or downstream veep-up responses with t	E & F on page 2? rs (even if 0) rs 1, 6 and e	ge 2? on page 1? nd of site (page 1)? site (top of page 2)?		ces

RIVER HAR	ABITAT SURVEY 2003 Version Page 1 of
A FIELD SURVEY DETAILS	
Site Number: leave blank if new site Site Number: Est 08 Site Reference: Spot-check 1 Grid Ref: 102236,29 Spot-check 6 Grid Ref: 1022371,66 End of site Grid Ref: 1022371,19 Reach Reference: River name: Riv Lowed Date 4/07/2015 Time: 1/4,20 min Surveyor name: Powlo Abros 1 David Curardy Accredited Surveyor code:	Site surveyed from: left bank right bank channel When options shown with 'shadow boxes', tick one box on
	LEFT banks determined by facing downstream RIGH RM (within the horizon limit) (fick one box only)
(tick one box only) shallow vee deep vee gorge Distinct flat valley bottom? No NUMBER OF RIFFLES, POOLS A	concave/bowl asymmetrical valley U-shape valley no obvious valley sides No Yes AND POINT BARS (enter total number in boxes)
Riffle(s) Pool(s)	2 Unvegetated point bar(s) 2 Vegetated point bar(s)
D ARTIFICIAL FEATURES (indicate total	al number of occurrences of each category within the 500m site)
If none, tick box Culverts Bridges Other - state	Minor Major Intermediate Minor Outfalls/ intakes Fords Deflectors/ groynes/croys
Is channel obviously over-deepened?	No

SITE REF.	RIVER HA	BITA	T SUI	RVEY	: TEI	N SPC	OT-CI	IECK	S	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream end	☐ do	wnstrea	m end	N	of	site (ti	ck one	box)				
E PHYSICAL ATTRIBUTES	(to be assessed a	icross c	hanne	within	ı 1m v	vide tr	ansect)				No.	
When boxes 'bordered', only on	e entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK		BR	Rîne	j EC oi	ME	MARA	aa	aa	substi	ale		-
Material NV, BE, BO, CO, GS, EA, PE, CL, CC, SP	, WP, GA, BR, RR, TD, FA, BI	was	BE	EA	肉根	PR	BUR	BAR	EA	EA	BO	10
Bank modification(s) NK, NO, RS,	RI, PC(B), BM, EM	RI	NO	NO	Auth	AI	AI	RI	RI	NO	No	Soot
Marginal & bank feature(s) NV, NO, I	EC, SC, PB, VP, SB, VS, NB	NO	NO	OU	NO)ND	100	NO	no	NO	20	600
CHANNEL				GP- ri	AI	ier G o	or P if p	redon	ilnant			
Channel substrate NV, BE, BO, CO, CI	P, SA, SI, CL, PE, EA, AR	Bo	PE	PE	SI	SA	CO	Co	Co	CO	Co	
Flow-type NV, FF, CH, BW, UW, CF, RI	P, UP, SM, NP, DR	BW	51	57	NB	NP	57	51	51	511	5M	A
Channel modification(s) NK, NO,	CV, RS, RI, DA, FO	DA	DA	DA	NO	No	No	NO	NO	NO	NO	SE
Channel feature(s) NV, NO, EB, RO	, VR, MB, VB, MI, TR	VA	NO	MI	NO	NO	NO	NO	NO	NO.	white w	PH-
For braided rivers only: number	r of sub-channels	1	1								EB	chec
RIGHT BANK			Rin	g EC o	r SC if	comp	osed o	sand	subst	rate		ks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC, SP	, WP, GA, BR, RR, TD, FA, BI	BR	AR	EA	EA	EA	EA	EA	FA	EA	EA	ut pr
Bank modification(s) NK, NO, RS,	RI, PC(B), BM, EM	BI	RI	NO	NO	NO	NO	NO	NO	NO	NO	eser
Marginal & bank feature(s) NV, NO, I	EC, SC, PB, VP, SB, VS, NB	VP	NO	NO	NO	NO	20	NO	NO	NO	NO	E S
F BANKTOP LAND-USE A	ND VEGETATION	ON ST	RUCT	URE (to be a	ssessed	over a	10m w	ide trac	isect)		>1%
Land-use: choose one from BL,	, BP, CW, CP, SH,	OR, W	L, MH,	AW, C	W, RP	, IG, T	H, RD,	SU, TI	., IL, P	G, NV		of w
LAND-USE WITHIN 5m OF LEFT BA	NKTOP	RP	НТ	TH	TH	TH	OR	OR	OR	OR	TH	Enter channel substrate(s) not occurring as predominant in spgt-checks but present in >1% of whole site.
LEFT BANKTOP (structure within 1 n	n) B/U/S/C/NV	V	5	5	5	5	5	5	5	5	5	site.
LEFT BANK-FACE (structure)	B/U/S/C/NV	S	C	C	C	C	C	C	5	5	5	edon
RIGHT BANK-FACE (structure)	B/U/S/C/NV	5	U	C	5	C	C	C	C	(5	ninar
RIGHT BANKTOP (structure within	1m) B/U/S/C/NV	1)	V	5	5	5	C	5	5	C	C	in it
LAND-USE WITHIN 5m OF RIGHT B	ANKTOP	RP	BP	TI	BI	ŔĬ	TI	TI	TI	IL	BL	
G CHANNEL VEGETATION	N TYPES (to be as	sessed ov	er a 10r	n wide t	ransect	use f (3346 h	rea), 🗸	(pæsen) or NV	Inot visi	ble)
None (/) or Not Visible (NV)				I							and Sample	
Liverworts/mosses/lichens		V	1	1	V	V	1	V	 	V	V	
Emergent broad-leaved herbs		E		E								180
Emergent reeds/sedges/rushes/gras	ses/horsetails	B		E			D				1	
Floating-leaved (rooted)		We.		12			100					100
Free-floating												
Amphibious		12000				6						
Submerged broad-leaved			-									
Submerged linear-leaved	67.4			1								
Submerged fine-leaved	(A) No. of the last		NAC.	1						- 1		MIN
Filamentous algae												
cmous argue							1					4

SITE REF. RI	VER HAE	BITAT	SURVE	Y : 500m SWEEP-UP	Page 3	of 4
H LAND-USE WITHIN	iom OF BAt	NKTOP	Use	✓ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (sem	i-natural) (BL)	10	V	Natural open water (OW)	A comme	
Broadleaf/mixed plantation (BP)			1	Rough/unimproved grassland/pasture (RP)	V	6
Coniferous woodland (semi-nat	ural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)	TOTAL PR	h .	T/	Tall herb/rank vegetation (TH)	V	1
Scrub & shrubs (SH)	1111	P	V	Rock, scree or sand dunes (RD)		
Orchard (OR)		V		Suburban/urban development (SU)	Period 81	
Wetland (e.g. bog, marsh, fen)	(WL)			Tilled land (TL)		
Moorland/heath (MH)	4-1			Irrigated land (IL)		E
Artificial open water (AW)				Parkland or gardens (PG)		
		510 100 200		Not visible (NV)		
I BANK PROFILES LI	se 🗸 (preser	it) or E (;	₃ 33% ba	nklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	. Zm		V	Resectioned (reprofiled)		
Vertical with toe	MA.	V	1	Reinforced - whole		L
Steen (>45°)	ones.	V	L	Reinforced - top only	11	
Gentle				Reinforced - toe only	4	
Composite				Artificial two-stage		
Natural berm	~~~				-	
Natural Dellii				Poached bank	4	
				Embanked		1.63
				Set-back embankment		
EXTENT OF TREES AN		ED FEAT	URES	*record even if <1%		
TREES (tick one box		Right		ASSOCIATED FEATURES (tick one box per feat None Prese		3%)
None				Shading of channel		
Isolated/scattered	ō	ā ·		*Overhanging boughs		
Regularly spaced, singl	e 🗖			*Exposed bankside roots		
Occasional clumps	ō			*Underwater tree roots		
Semi-continuous	Ð			Fallen trees		
Continuous		Ø		Large woody debris		
K EXTENT OF CHANN	el and bai	nk feat	URES	(tick one box for each feature) *record even if	<1%	
	None P	resent E((≥33%)		esent E(≥	33%)
*Free fall flow	4	7	4	Exposed bedrock	7	-
Chute flow	4			Exposed boulders	7	4
Broken standing waves	님		H	Vegetated bedrock/boulders		4
Unbroken standing waves	7		7	Unvegetated mid-channel bar(s)	7 -	4
Rippled flow		<u> </u>				1
*Upwelling		4		Mature island(s)		1
Smooth flow	J				X)	1
No perceptible flow		<u>_</u>				
No flow (dry)	A			Unvegetated point bar(s)	700	
Marginal deadwater	0			Vegetated point bar(s))
Eroding cliff(s)	4			*Unvegetated silt deposit(s)		
Stable cliff(s)		8		*Discrete unvegetated sand deposit(s)		
		AVA .		*Discrete unvegetated gravel deposit(s)	_	

SITE REF.	RIVER H	IABITAT SUR	VEY : DIN	MENSION	S AND IN	FLUENCES	Page 4	of 4
L CHANNEL DIMI	ENSIONS (to	be measured at						a riffle
LEFT BANK		CHANNE	L		RIGHT BAN	IK .		
Banktop height (m)	0	5 Bankfull	width (m)	20	Banktop he	ight (m)		0 '
ls banktop height also b height? (Y or N)	oankfull N	Water w	idth (m)	13	Is banktop height? (Y	height also b or N)	ankfull	N
Embanked height (m)		Water de	The second second	0,6	Embanked	height (m)	- Sal	
f trashline lower than b	anktop, indica	ite: height abov	e water (m)	= 0,5 V	vidth from ba	nk to bank (r	n) = 1	5
Bed material at site is:		consolidated	unce	onsolidated	(loose) 🔯		unknown	
Location of measureme	nts is: riffle [other 🞑 (sta	ite)					
m features of	SPECIAL INT	TEREST Use	√ or E (≥ 33°	% length) *	record even i	f <1%		
None Braided channels Side channel(s) *Natural waterfall(s) > 5m *Natural waterfall(s) < 5m Natural cascade(s)	*! high	ery large boulders Debris dam(s) .eafy debris ringing reed-bank(tuaking bank(s) Sink hole(s)		Backwater(s Floodplain b Water mead Fen(s) Bog(s) Wet woodla	ooulder deposi dow(s)	ts	arsh(es) sh(es) itural en water hers (state)	
N CHOKED CHAN	NNEL (tick o	one box)						
s 33% or more of the o	hannel choke	d with vegetation	1?	No X		Yes		
*Giant ho *Japanese P OVERALL CHAP Major impacts: landfill mining - quarrying - over Evidence of recent m gravel extraction - othe Animals: otter - mink Other significant ob observations	ACTERISTIC - tipping - litter deepening - aff anagement r (please speci - water vole - l	- sewage - polluti forestation - fisheri dredging - bar fy) kingfisher - dipper	*Oth appropriate on - drought les management ink mowing (r - grey wagta	- abstraction ent - silting weed cutti	add others - mill dam - waterlogging ng - enhance	road - rail - ii - hydroelectri ment - river r	ndustry - ho ic power ehabilitation	on -
Have you taken at least twand major/intermediate st Have you completed all te Have you completed colu	esent DEQUALITY CO ro photos that i ructures across in spot-checks a mn 11 of sectio	Extensive DNTROL (/ b) Illustrate the generate channel? and made entries in G (and E if appro	*Diseased OXES to co al character of all boxes in I opriate) on pa	I Alders? N If the site and & F on page 2?	acks) I additional ph ge 27	resent 🛄	Extensiv	
Have you recorded in sect Have you given an accura Have you stated whether Have you cross-checked y	te (alphanumer spot-check 1 is	ic) grid reference for at the upstream or	or spot-checks downstream	1, 6 and er end of the s	nd of site (page ite (top of pag	e 2)?		

			SITAT SU	RVEY 2003 1	/ersion		Page 1 of 4
A FIELD SU	JRVEY D	ETAILS					
	103800 f: 10380 f: 1008: f: 10381 1200 1038 26 10025 3	04,04 330,77 68,64 405,28 11,64 14,68	Are adver	river visible? but and safety assess of photographs erences:	arely or not sment form at	nnel? River ?? No	Yes
	,	8.9		options show	n with 'shad	ow boxes', tick	one box only
Accredited Surveyor	code: [[3100	LEFT	banks determ	ined by faci	ing downstrea	m RIGHT
Distinct flat		deep vee gorge No LES, POOLS A	Yes Y		al terraces?	concave/bov asymmetrica U-shape valle no obvious v No	valley y alley sides Yes
Riffle(s) Pool(s)				Unvegetated p	oint bar(s) nt bar(s)		
		5 (indicate total	number of	occurrences of e	ach category	within the 500m	(site)
Weirs/sluices Culverts Bridges Other - state	Major	Intermediate	Minor 2	Outfalls/ intakes Fords Deflectors/ groynes/croys	Major	Intermediate	Minor
Is channel obvi Is channel obvi Is water impou	ously ove	r-deepened? I	lo 🖾 lo 🖾	Yes, <33% (Yes, <33% (Yes, <33% (of site	≥33% of ≥33% of ≥33% of	site 🗌

SITE REF.	RIVER HA	BITA	T SUI	RVEY	: TEN	N SPC	OT-CH	IECK	S	Pag	ge 2 of	F 4
Spot-check 1 is at: upstream er	nd 🔲 do	wnstrea	m end		of	site (ti	ck one l	эох)				
E PHYSICAL ATTRIBUTI	ES (to be assessed a	icross c	hanne	within	1 m v	vide tr	ansect)					
When boxes 'bordered', only o	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Ring	EC or	SC if	compo	sed of	sandy	substr	ate.		
Material NV, BE, BO, CO, GS, EA, PE, CI, CC,	, SP, WP, GA, BR, RR, TD, FA, BI	TA	PA	CA	GR	do.	EA	Ca	GIA	Ĉ4	EA	11=3
Bank modification(s) NK, NO, I	RS, RI, PC(B), BM, EM	NO	10	No	NO	io	MO	In	170	NO	No	libe.
Marginal & bank feature(s) NV, N	O, EC, SC, PB, VP, SB, VS, NB	No	No	M	W	No	Vs	W	No	10	10	119
CHANNEL			2200	GP- ri	ng eitt	ier G d	or Plif p	redon	ninant			
Channel substrate NV, BE, BO, CO.), GP, SA, SI, CL, PE, EA, AR	SA	34	SA	SA	JA	54	SA	6.6	SA	SA	51
Flow-type NV, FF, CH, BW, UW, CF,	, RP, UP, SM, NP, DR	WP	NP	WP	MP	NP	100	SM	NP	UP	NP	A
Channel modification(s) NK, N	NO, CV, RS, RI, DA, FO	VO	ho	NO	No	10	NA	NO	No	W	W	
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	No	NU	NO	No	M	N	V	11	w	No	Ente spot-
For braided rivers only: numb	ber of sub-channels											r cha
RIGHT BANK			Rin	g EC o	r SC II	comp	osed of	sandy	y subst	rate		inne
Material NV, BE, BO, CO, GS, EA, PE, CL, CC,	, SP, WP, GA, BR, RR, TD, FA, BI	RR	RR	AA	CA	EN	RR	Sp)	en	CA	GA	ut p
Bank modification(s) NK, NO, I	RS, RI, PC(B), BM, EM	RI	RI	ND	NO	W	RI	N	M	W	No	strat
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	No	No	SB	No	いつ	, Po	10	0	lo	3	nt in
F BANKTOP LAND-USE	AND VEGETATION	DN ST	RUCT	URE (to be a	ssessed	over a	l Om w	ide tra	sect)		>1%
Land-use: choose one from I	BL, BP, CW, CP, SH,	OR, W	L, MH,	AW, C	W, RP	, IG, T	H, RD,	SU, TI	L, IL, P	G, NV		Enter channel substrate(s) not occurring as predominant in spot-checks but present in >1% of whole site.
LAND-USE WITHIN 5m OF LEFT I	BANKTOP	RP	PP	RP	58	RP	RiP	RP	RP	RP	创	nole s
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	5	5	5	5	C	3	C	\$	C	C	s pre
LEFT BANK-FACE (structure)	B/U/S/C/NV	C	C	C	C	2	C	C	V	C	C	dom
RIGHT BANK-FACE (structure)	B/U/S/C/NV	9	C	C	C	Di	C	C	C	C	C	inan
RIGHT BANKTOP (structure withi	in 1m) B/U/S/C/NV	5	S	5	5	E	5	C	5	C	5	2.
LAND-USE WITHIN 5m OF RIGHT	T BANKTOP	RP	RP	RP	RP	RP	RP	RP	RP	RV	RP	
G CHANNEL VEGETATION	ON TYPES (to be as	sessed ov	er a 10 <i>r</i>	n Wide t	ransect!	use £ (_≥ 33% ar	rea), 🖊	(presen	t) or NV	(not visi	ble)
None () or Not Visible (NV)												
Liverworts/mosses/lichens		V	V	V	V	V	V	V	V	V	V	(65)
Emergent broad-leaved herbs			1/	V	1	V	V	8	V	V	1/	
Emergent reeds/sedges/rushes/gi	rasses/horsetails		0	18		4	V		V			
Floating-leaved (rooted)	publications		1		0		1/		U			e la
Free-floating												
Amphibious	- 17 ASS SECTION 15	1										
Submerged broad-leaved			and i									
Submerged linear-leaved	The let		100				1.1			-11		
Submerged fine-leaved				I.			H					
Filamentous algae				I I		1						
Use end column for overall assess	sment over 500m, incl	luding ty	/pes no	t occur	ring in	spot-ch	necks (u	se 🗸, E	or NV))—		A

Sph) 270 272 233 275 236 270 277 16, River Habitat Survey Manual: 2003 version

SITE REF.	RIVER HAI	BITAT	SURVE	Y : 500m SWEEP-UP	Page	3 of 4
H LAND-USE WITH	IIN 50m OF BAI	NKTOP	Use	√ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland	(semi-natural) (BL)	V		Natural open water (OW)		
Broadleaf/mixed plantation	(BP)			Rough/unimproved grassland/pasture (RP)	R	G
Coniferous woodland (sem	i-natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)		Live		Tall herb/rank vegetation (TH)	V	V
Scrub & shrubs (SH)		V		Rock, scree or sand dunes (RD)		
Orchard (OR)	ALISVI S			Suburban/urban development (SU)		
Wetland (e.g. bog, marsh,	fen) (WL)			Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)	1	
		ALC: N		Not visible (NV)		
I BANK PROFILES	Lise 🗸 (preser	nt) or E (≥ 33% ba	nklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	7m Zm	E	1	Resectioned (reprofiled)		
Vertical with toe	Zm		A	Reinforced - whole		
Steep (>45°)	\mw			Reinforced - top only	and he	V
Gentle —			la a	Reinforced - toe only	Committee of	
Composite	~~~~			Artificial two-stage		
Natural berm —				Poached bank howwy		
			- NA	Embanked ————		
				Set-back embankment	9 112/01	HOTE
EXTENT OF TREES	and associat	ED FEAT	URES	*record even if <1%		
TREES (tick one				ASSOCIATED FEATURES (tick one box per feat		55 N 90 YO
	Left 1	Right		None Preser	t E(≽	33%)
None	H	H		Shading of channel	-	4
Isolated/scattered		H		*Overhanging boughs	-	1
Regularly spaced,		-		*Exposed bankside roots	-	1
Occasional clump	`	H		*Underwater tree roots	-	-
Semi-continuous		7		Fallen trees	-	1
Continuous K EXTENT OF CHA		Notice to	Unce	Large Woody debits		-
K EXIET OF CHA		resent E((tick one box for each feature) *record even if None Pre	sent E(>33%)
*Free fall flow	Z			Exposed bedrock		
Chute flow	\overline{\sqrt{D}}	ō	5	Exposed boulders	5	ā
Broken standing waves	\square	ō	ō	Vegetated bedrock/boulders	7	7
Unbroken standing waves				Unvegetated mid-channel bar(s)	5	5
Rippled flow	ō	×	ō		4	T
*Upwelling	X	ō		Mature island(s)	X	5
Smooth flow			ō	Unvegetated side bar(s)	X	ī
No perceptible flow			Z	Vegetated side bar(s)	7	7
No flow (dry)	i i	×	n		1	7
Marginal deadwater	X		ō	Unvegetated point bar(s) Vegetated point bar(s)	1	7
Eroding cliff(s)		ī	T I	*Unvegetated silt deposit(s)	1	7
Stable cliff(s)		ī		*Unvegetated silt deposit(s) *Discrete unvegetated sand deposit(s)	7	_

SITE REF.	RIVE	R HABI	TAT SUI	RVEY : DII	MENSION	NS AND I	NFLUENCE	S Page 4	of 4
L CHANNEL DIME	nsions	(to be m	reasured at	one location	n on a straig	ght uniform	section, prefe	rably across a	ritf)
LEFT BANK			CHANN	EL		RIGHT BA	ANK		SCHOOL PARK
Banktop height (m)		18		width (m)	U		height (m)	1	\$
Is banktop height also b height? (Y or N)	ankfull	V	Water v	vidth (m)	3	200000000000000000000000000000000000000	p height also		N
Embanked height (m)		100	Water d	epth (m)	0,9	Embanke	ed height (m)		11:
If trashline lower than b	anktop, ind	dicate: h	neight abo	ve water (m)	= 0	width from	bank to bank	(m) =	7 11
Bed material at site is:		con	solidated	unc	onsolidated	d (loose)	A	unknown	
Location of measuremer	nts is: riffl	le 🛄 o	ther 🏻 (st	ate) bo	die	_0=====================================			
m features of s	PECIAL I	NTERES	ST Use	√ or E (≥ 33	% length)	record eve	n if <1%		
None		Very larg	ge boulders	(>1m)	Backwater(s)		/larsh(es)	
Braided channels		*Debris	dam(s)		Floodplain I	boulder depo	osits F	lush(es)	
Side channel(s)		*Leafy d	lebris		Water mea	dow(s)		Vatural	Г
*Natural waterfall(s) > 5m	high	Fringing	reed-bank	(s)	Fen(s)		П°	pen water	
*Natural waterfall(s) < 5m		37.03	g bank(s)		Bog(s)			Others (state)	
Natural cascade(s)		*Sink ho	ole(s)		Wet wood!	and(s)			
N CHOKED CHAN	NEL (tio	ck one bo)×)						1988
s 33% or more of the cl	nannel cho	ked with	vegetatio	n?	No 🗵		Yes]	
o notable nuis	ANCE PL	ant sp	ECIES	Use √ or E	(> 33% len	ngth) *re	cord even if <1	, Harris	
	b	ankface	banktop t	o 50m			bankface ba	anktop to 50r	m
None *Giant ho	gweed			*Hi	malayan ba	lsam			
*Japanese	knotweed			*Ot	her (state).				
P OVERALL CHAR	ACTERIS"	TICS	(Circle	appropriat	e words,	add other	rs as necessi	ary)	
Major impacts: landfill -	tipping - li	tter - sewa	age - pollut	ion - drought	- abstraction	n - mill - dan	n - road - rail -	industry - ho	usin
mining - quarrying - over					-				
Evidence of recent m gravel extraction - other			dging - ba	nk mowing _i	weed cutt	enhan L	cement - river	rehabilitatio	n -
Animals: otter-mink	2 3	572	her dinne	r armunaat	ail sand m	artin haran	draganfling	damaalfiad	
Other significant obs									
observations	ei vation.	s. II Hec	essary use	separate sin	tet to descr	ibe overall	criaracteristics	and relevan	
Q ALDERS (tick on	e box in	each of	f the two	categorie	5) *reco	ord even if <1	96		
Alders? None 🔲 Pre	sent 📮	Extensi	ive 🖪	*Diseased	d Alders? N	one 🗵	Present 📮	Extensive	Ę
R FIELD SURVEY C	UALITY	CONTR	OL (/ t	oxes to co	onfirm ch	ecks)			100
Have you taken at least two and major/intermediate str	photos th	at illustrat	e the gener	al character o	f the site and	d additional p	photos of any w	veirs/ sluices	[2
Have you completed all ter				n all boxes in	E & F on pac	ge 2?			
Have you completed colum	nn 11 of sec	tion G (ar	nd E if appr	opriate) on pa	ge 2?				D
Have you recorded in section							***		Į.
lave you given an accurate lave you stated whether s									2
Have you cross-checked you									,
even on page / of the con-	I-Check key								10

RIVER HABITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS
Site Number: Est D
Accredited Surveyor code: LB (500 LEFT banks determined by facing downstream RIGHT
B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box only)
(tick one box only)
shallow vee Concave/bowl
deep vee
gorge no obvious valley sides
Distinct flat valley bottom? No 🔲 Yes 🗹 Natural terraces? No 🔏 Yes 🗔
C NUMBER OF RIFFLES, POOLS AND POINT BARS (enter total number in boxes)
Riffle(s) Unvegetated point bar(s) 7 Pool(s) 1 Vegetated point bar(s) 0
D ARTIFICIAL FEATURES (Indicate total number of occurrences of each category within the 500m site)
If none, tick box
Is channel obviously realigned? No ☐ Yes, <33% of site ☐ ≥33% of site ☐ Is channel obviously over-deepened? No ☐ Yes, <33% of site ☐ ≥33% of site ☐ Swater impounded by weir/dam? No ☐ Yes, <33% of site ☐ ≥33% of site ☐ ☐ Swater impounded by weir/dam?

SITE REF.	RIVER HA	BITA	T SU	RVEY	: TE	N SP	OT-CI	IECK	S	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream en	nd 🔲 do	wnstrea	m end	19	ol	f site (ti	ck one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	cross c	hanne	l withi	n Im v	vide tr	ansect)					
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Rin	g EC o	r SC if	compe	sed of	sandy	substi	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WP, GA, BR, RR, TD, FA, BI	FA	G/A	VGA.	RR	En	BA	50	Gva	FA	QIA.	-
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	M	15/O	vo	RI	PC	AA	10	NO	NO	PC	
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	NO	W	10	NO	in	MO	W	N	W	W	
CHANNEL				GP- r	ng eitl	ier Gir	or Plifig	redon	ninant			
Channel substrate NV, BE, BO, CO	, GP, SA, SI, CL, PE, EA, AR	57A	SA	31	51	51	SA	SA	SA	St	51	80
Flow-type NV, FF, CH, BW, UW, CF	, RP, UP, SM, NP, DR	34	NP	NP	MP	JP	MP	NP	WP	WP	MP	
Channel modification(s) NK, I	NO, CV, RS, RI, DA, FO	NO	M	M	NO	N	10	No	NO	No	AU	
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	000	100	W	M	W	W	10	NP	NO.	Ro	spot-
For braided rivers only: numb	per of sub-channels											Enter chann spot-checks
RIGHT BANK			Rin	g EC o	r SC if	comp	ased of	sand	/ subst	rate		ks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC		GA	E17	-A	VV	GA	CA	GA	Q. 10.	FA	EV	el substrate(s) but present in
Bank modification(s) NK, NO, I	RS, RI, PC(B), BM, EM	VD	NO	PC	KI	PC	No	w	W	NO	PC	strate
Marginal & bank feature(s) NV, N	O, EC, SC, PB, VP, SB, VS, NB	NO	100	No	w	No	Ma	W	10	No	No	e(s) r
F BANKTOP LAND-USE	AND VEGETATION	N STI	RUCT	URE (to be a	ssessed	over a	I Om w	de tran	isett)		Enter channel substrate(s) not occurring spot-checks but present in >1% of whole
Land-use: choose one from I	BL, BP, CW, CP, SH,	or, wi	., МН,	AW, C	W, RP	, IG, T	H, RD,	SU, TI	, IL, P	G, NV		of w
LAND-USE WITHIN 5m OF LEFT I	BANKTOP	MIN	以份	RP	RP	RO	CP	00	RO	80	Pp	of whole site
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	V	S	U	V	U	C	()	5	3	1)	as pr
LEFT BANK-FACE (structure)	B/U/S/C/NV	8	5	5	8	5	C	5	0	(U	edor
RIGHT BANK-FACE (structure)	B/U/S/C/NV	5	5	5	5	5	0	0	2005	0	U	predominant in te.
RIGHT BANKTOP (structure withi	E 1 100/40000 00000		THE REAL PROPERTY.			100	100					2
	n 1m) B/U/S/C/NV	()	0	U	0	U	C	5	J	V	U	5
LAND-USE WITHIN 5m OF RIGHT		20	Re	Re	RP	RP	C	5	URRE	TH	DP	'n
The second secon	F BANKTOP	20	O Re	RP	RP	RP	C	5 RC	RP	TH	RP	5
G CHANNEL VEGETATION	F BANKTOP	RP	O Re	RP William	R P	RP Uses 6	C	5 R(J P P Dresni	TH	R?	cin
G CHANNEL VEGETATION	F BANKTOP	RP	0 Re 181	RP	R P	RP	C KP	5 R(RP	TH	RP	ale)
G CHANNEL VEGETATION None (>) or Not Visible (NV) Liverworts/mosses/lichens	F BANKTOP	RP	Re Ne	RP WAR	RP	RP USE (C KP	S R(=3), <	J RP			ole)
G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs	FBANKTOP DN TYPES (to be ass	Re Re	Ge Ne	RP Wide	R P	RP COLO	C KP	5 R(ea), V	J RP V	TH	Re (not vija	c in
CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr	FBANKTOP DN TYPES (to be ass	2 P	Re Re	RP wide	R P	O RP	C	5 R(V V	V E	TH		t in
O CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr Floating-leaved (rooted)	FBANKTOP DN TYPES (to be ass	RP RP	Re	Re	R P	RP use E (s	C	5 R(V V	V E	TH		cin
None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr Floating-leaved (rooted) Free-floating	FBANKTOP DN TYPES (to be ass	20 20 V	Ge V	Re	Pansect:	U RP	C KP	5 R(V	U RP (present			C in
CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr Floating-leaved (rooted) Free-floating Amphibious	FBANKTOP DN TYPES (to be ass	V RP	() () ()	R P	O R P	O RP	C KP	S R(V	V B	TH		cin
None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	FBANKTOP DN TYPES (to be ass	RP Seed ov	Re 19n	RP wide t	R P	PP USE E C	C	\$ R(ea) \(\sqrt{ \sq}\q \sqrt{ \q \sq}} \sqrt{ \sqrt{ \sqrt{ \sqrt{ \sq}\q \squit{ \sqrt{ \sqrt{ \sq}\q \sq}\ \sqit{ \sqrt{ \sq}}} \sqrt{ \sint} \sqrt{ \	V B			tio
CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr Floating-leaved (rooted) Free-floating Amphibious	FBANKTOP DN TYPES (to be ass	V RC	() () () ()	V Re	RP	Use E(:	C	\$ R(V V V	V E			

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SITE REF. RI	VER HAE	ITAT	SURVI	EY : 500m SWEEP-UP	Page	3 of 4
H LAND-USE WITHIN S	00m OF BAN	KTOP	Use	√' (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (sem	i-natural) (BL)	77		Natural open water (OW)		
Broadleaf/mixed plantation (BP)				Rough/unimproved grassland/pasture (RP)	E	E
Coniferous woodland (semi-natu	ural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)				Tall herb/rank vegetation (TH)	N	
Scrub & shrubs (SH)				Rock, scree or sand dunes (RD)	oldsoft has	
Orchard (OR)				Suburban/urban development (SU)	-	
Wetland (e.g. bog, marsh, fen)	(WL)			Tilled land (TL)		
Moorland/heath (MH)		V		Irrigated land (IL)		
Artificial open water (AW)			18	Parkland or gardens (PG)		
				Not visible (NV)		
I BANK PROFILES U	se 🗸 (presen	t) or E	(≽ 33% bi	inMength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	. Z	t	15	Resectioned (reprofiled)		
Vertical with toe				Reinforced - whole		
Steen (A5")	····	7		Reinforced - top only		
Gentle	·ww	~	11	Reinforced - toe only		
Composite				Artificial two-stage		
Natural berm				Bright S		
		-		Embanked		-
				Set-back embankment		
J EXTENT OF TREES AND	D ASSOCIAT		TURES	*record even if <1%		
TREES (tick one box		l'abt	4-4	ASSOCIATED FEATURES (tick one box per feature None Prese		206)
None	Leit	light		Shading of channel	int c(3)	7
Isolated/scattered	ă	ă.		*Overhanging boughs	Ī	1
Regularly spaced, single	. 1	Ħ		*Exposed bankside roots		1
Occasional clumps		H				1
Section 2011 Control of the Control	7	[X]			-	1
Semi-continuous				Z	_	1
Continuous	E) 10/2 01/		TUBER	targe woody debits		
K EXTENT OF CHANN	Contract to the Party	-	E(≥33%)	(tick one box for each feature) *record even None P	resent E(>33%
*Free fall flow				Exposed bedrock		
Chute flow	X	n .	ō	Exposed boulders	R i	5
Broken standing waves	Z	n		Vegetated bedrock/boulders	X I	7
		7	T			7
Unbroken standing waves		- I		Vegetated mid-channel bar(s) Vegetated mid-channel bar(s)		=
Rippled flow				Vegetated mid-channel bar(s)	4	_
*Upwelling			4	Mature island(s)	<u> </u>	_
Smooth flow				Unvegetated side bar(s)		
No perceptible flow				Vegetated side bar(s)		
No flow (dry)				Unvegetated point bar(s)		
Marginal deadwater	X		0	Unvegetated point bar(s) Vegetated point bar(s) *Unvegetated silt deposit(s)		
Eroding cliff(s)			ō	*Unvegetated silt deposit(s)		
Stable cliff(s)	Z			*Discrete unvegetated sand deposit(s)		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	*Discrete unvegetated gravel deposit(s)	n	

SITE REF.	RIVE	R HABI	TAT SURVEY : DIN	MENSION	IS AND INFLUENCES Pa	ige 4 of
L CHANNEL DI	MENSIONS					
LEFT BANK		(3)	CHANNEL		RIGHT BANK	
Banktop height (m)	111	17	Bankfull width (m)	7	Banktop height (m)	1,
ls banktop height als height? (Y or N)	o bankfull	V	Water width (m)	5	Is banktop height also bankful height? (Y or N)	
Embanked height (m)	CB_	Water depth (m)	0,5	Embanked height (m)	60
f trashline lower than	n banktop, ir	dicate: h	neight above water (m)	= 0,5	width from bank to bank (m) =	01
Bed material at site is	-			onsolidated	d (loose) 🔼 unkn	nown 📮
ocation of measurer	nents is: rif	fle 🛄 o	ther 🖾 (state)	fil		
m features o	F SPECIAL	INTERES	T Use √ or E (≥ 33°	h length)	record even if <1%	
None Braided channels Braided channel(s) Natural waterfall(s) > 5 Natural waterfall(s) < 5 Natural cascade(s) Natural cascade(s) CHOKED CH	5m high	*Debris *Leafy of Fringing Quaking *Sink heads one brook	dam(s)	Water mea Fen(s) Bog(s) Wet woodl	ooulder deposits	ter
33% or more of the	e channel ch	oked with	vegetation?	No 🔼	Yes L	
*Japane P OVERALL CHA Major impacts: land mining - quarrying - or Evidence of recent gravel extraction - otl Animals: otter - mi	fill - tipping - verdeepening managem her (please s nk - water vo	litter - sew - afforesta ent: dre pecify) le - kingfis	*Oth (Circle appropriate age - pollution - drought tition - fisheries manageme edging - bank mowing - ther - dipper - grey wagta	words, - abstraction ent - silting weed cutti	add others as necessary) n - mill - dam - road - rail - industr - waterlogging - hydroelectric pow ing - enhancement - river rehabil artin - heron dragonflies/damsel ribe overall characteristics and re	er litation -
Alders? None Alders? None Alders? None Alders? None Alders	Present QUALITY two photos to estructures aciden spot-che olumn 11 of se	Extens CONTE	te the general character of nannel? ade entries in all boxes in End of the propriete of page 2.	Alders? Nonfirm choose the site and & F on page 2?	ecks) d additional photos of any weirs/ slu ge 2?	£ E
Have you given an accu Have you stated wheth	urate (alphanu er spot-check I your spot-ch	meric) grid 1 is at the eck and sv	riffles, pools and point ban d reference for spot-checks upstream or downstream veep-up responses with th	1, 6 and er end of the s	nd of site (page 1)? site (top of page 2)?	

RIVER HABI	ITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS	
leave blank if new site Site Number: Site Reference: Spot-check 1 Grid Ref: \Q24580,08 W Spot-check 6 Grid Ref: \Q202364,13 U Spot-check 6 Grid Ref: \Q24665,38 W 202576,34 W Reach Reference: River name: \Q24536,44 W Date 04 1 0712015 Time: 1 f 4 43 mi	Is the site part of a river or an artificial channel? River Artificial Are adverse conditions affecting survey? No Yes If yes, state part of river visible? barely or not partially tentirely list health and safety assessment form attached? Yes No No Number of photographs taken:
Surveyor name: Javids Forwards	Site surveyed from: left bank 🖾 right bank 💢 channel 🔯
Paulo Mars	☐ When options shown with 'shadow boxes', tick one box only
Accredited Surveyor code:	LEFT banks determined by facing downstream RIGHT
B PREDOMINANT VALLEY FORM	(within the horizon limit) (tick one box only)
deep vee	asymmetrical valley U-shape valley no obvious valley sides Yes Natural terraces? No Yes
C NUMBER OF RIFFLES, POOLS A Riffle(s) Pool(s)	Unvegetated point bar(s) Vegetated point bar(s)
D ARTIFICIAL FEATURES (indicate total	number of occurrences of each category within the 500m site)
If none, tick box Culverts Bridges Other - state	Minor Major Intermediate Minor Outfalls/ intakes Fords Deflectors/ groynes/croys
Is channel obviously over-deepened?	No

Tool -1 Riffle-1 (Suls. nos pontos feitos)

lownstrea		Ø	of	site (ti	ck one	box)				
The state of the s	Telling the									
delesse	hanne	l withi	ılmv	vide tr	ansect)					
1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
	Ring	g EC or	SC if	compo	osed of	sandy	substi	ate		
BIEA	AR	BO	BO	BO	Bo	EA	Bo	BE	BE	
NO	RI	40	No	NO	NO	NO	No	No	ND	
B NO	NO	NO	NO	NO	NO	No	NO	NO	NO	1110
		GP- ri	ng eith	ier G c	or P if p	redon	ninant			
80	BO	30	30	Bo	30	Bo	30	BE	Ba	SA
WP	SH	RP	BP	RP	RP	AB	NP	NO	MAG	CA
DA	NO	NO	NO	No	UO	NO	NO	NO	NO	
NO	NO	VR	VB.	VB	VB.	VR	VR	NO	RO	pot-
5 0	0	0	1	11	1	4	1	0	0	chec
	Rin	g EC o	r SC if	comp	osed of	sandy	subst	rate	100	ks b
EA	BR	RA	Bo	Bo	Bo	EA	RR	BE	BE	ut pi
NO	界工	RI	No	NO	OU	NO	RI	GCM	00	eser
B NO	NO	NO	NO	NO	SO	No	NO	NO	ND	e(s)
ION ST	RUCT	URE (to be a	ssessed	over a	10m w	ide trar	sect)		>1%
, or, w	L, MH,	AW, C	W, RP	, IG, T	H, RD,	SU, TL	, IL, P	G, NV		spot-checks but present in >1% of whole site
BZ	BL	BL	SH	BL	31	BL	BL	BL	31	spot-checks but present in >1% of whole site.
C€	C	e	5	C	C	C	C	C	C	site.
C	C	0	5	C	C	C	C	C	V	edon
C	C	C	C	C	C	C	C	5	C	ninar
C	C	5	5	C	C	C	0	5	C	it in
B1	BL	RP	RP	BL	31	BI	BI	BI	B1	
issessed ov	er a 10n	n svide t	ninsania	use E. (33% a	(0)	(present	Lor NV	Inot vis	fale)
F	L	T	E	E	r	L	U	V	11	
1		E	11	1	E	1	1		V	
100		-	L	I	E	T	1	2		
-		E	_	-	C	E				
-										000
-										
11	1									
								110		CPT
	BB NO CC CBL BL	Ring Ring	Ring EC or RING EC or RING RT ND ND ND ND CP- ri RO PO BO ND NO NO Ring EC or Ring	Ring EC or SC if RA RA BO BO NO RT NO NO CP- ring eit BO RO BO BO NO NO NO NO Ring EC or SC if RA RA RA BO NO NO NO NO Ring EC or SC if RA RA RA BO NO NO NO NO RING EC OR SC if RA BA RA BO NO NO NO NO RING EC OR SC if RA BA RA BO NO NO NO NO RO NO NO NO RING EC OR SC if RA BA RA BO NO NO NO NO RO NO NO NO RO NO NO NO RO NO NO NO RO NO NO RO NO NO RO NO NO RO RO NO RO RO NO RO RO NO RO RO NO RO RO NO RO	Ring EC or SC if compose RA RA BO BO BO NO RT JO NO NO CP- ring either GO BO RO BO BO BO NP SH RP RP RP DA NO NO NO NO RING EC Or SC if compose RA RA RA BO BO NO RT RT NO NO RING EC OR SC if compose RA RA RA BO BO NO RT RT NO NO NO NO NO NO RING EC OR SC if compose RA RA RA BO BO NO RT RT NO NO NO NO NO NO NO NO NO NO NO RA BO BO NO RT RT NO NO NO NO NO NO NO RA BO BO NO RT RT NO NO NO NO NO NO NO NO NO NO	Ring EC or SC if composed of EA RR BO BO BO BO NO RT JO NO NO NO NO CP- ring either G or P if p BO RO BO BO BO BO NP SH RP RP RP RP DA NO NO NO NO NO UO NO NO NO NO NO UO Ring EC or SC if composed of EA RR RR BO BO BO NO RT RT NO NO NO SO O O J J J J Ring EC or SC if composed of EA RR RR BO BO BO NO RT RT NO NO NO ION STRUCTURE (to be assessed over a JOR, WIL, MH, AW, OW, RP, IG, TH, RD, BL BJ BJ BJ SH BJ SH CC C C C C C C C C C C BJ BJ BJ RP RP BJ BJ	Ring EC or SC if composed of sandy EA RR BO BO BO BO EA NO RT 10 NO NO NO NO NO CP- ring either G or P if predon BO RO BO BO BO BO BO NP SH RP RP RP RP RP DA NO NO NO NO NO NO NO NO RING EC Or SC if composed of sandy EA RR RR BO BO BO BO EA NO RO O O 1 1 1 1 A Ring EC Or SC if composed of sandy EA RR RR BO BO BO BO EA NO NO NO NO NO NO NO NO NO ION STRUCTURE (to be assessed over a 10m w JOR, WIL, MH, AW, OW, RP, IG, TH, RD, SU, TI BL BL BL BL SH BL BL BL CC C C C C C C C C C C C C C C C C BL BL BL RP RP BL BL BL BL	Ring EC or SC if composed of sandy substrated in the same state of	Ring EC or SC if composed of sandy substrate EA RR BO BO BO BO EA BO BE NO RT 10 NO NO NO NO NO NO NO CP- ring either G or P if predominant BO RO BO BO BO BO BO BO BO BO NP SH RP RP RP RP RP RB NP JP DA NO Ring EC or SC if composed of sandy substrate EA RR RR BO BO BO BO EA RR BE NO RT RT NO NO JO NO RT NO BO NO NO NO NO NO NO NO NO NO ION STRUCTURE (to be assessed over a 10m wide transect) JOR, WI, MH, AW, OW, RP, IC, TH, RD, SU, TL, IL, PG, NV BL BL BL BL SH BL BL BL BL BL BL BL	Ring EC or SC if composed of sandy substrate EA RR BO BO BO BO EA BO BE BE NO RT JO NO

SITE REF.	IVER HAE	SITAT	SURVE	Y: 500m SWEEP-UP	Page 3	of 4
H LAND-USE WITHIN	50m OF BAN	NKTOP	Use	✓ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (ser	mi-natural) (BL)	E	E	Natural open water (OW)		
Broadleaf/mixed plantation (Bl	?)			Rough/unimproved grassland/pasture (RP)	L	6
Coniferous woodland (semi-na	itural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)				Tall herb/rank vegetation (TH)	1	1
Scrub & shrubs (SH)		~	Men	Rock, scree or sand dunes (RD)	6	-
Orchard (OR)				Suburban/urban development (SU)	the Ite	
Wetland (e.g. bog, marsh, fen) (WL)			Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		-
Artificial open water (AW)				Parkland or gardens (PG)		1000
				Not visible (NV)		
I BANK PROFILES	Use 🗸 (preser	it) or E. (≽ 33% ba	inklength)	Mask and	
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	m 7m			Resectioned (reprofiled)		
Vertical with toe	ww	L	V	Reinforced - whole	-	V
Steep (>45°)	CWW	K	F	Reinforced - top only		
Gentle			-	Reinforced - toe only		
Composite				Artificial two-stage		
Natural berm	~~~				1	
Natural Dellii				Poached bank		
				Embanked		
				Set-back embankment		
J EXTENT OF TREES AF	nd associat	ED FEAT	URES	*record even if <1%		
TREES (tick one bo		Right		ASSOCIATED FEATURES (tick one box per fea		3%)
None				Shading of channel	X	
Isolated/scattered	ŏ	ō		*Overhanging boughs		
Regularly spaced, sin	ale 🗖			*Exposed bankside roots		CILI
Occasional clumps				*Underwater tree roots		
Semi-continuous	(100		Fallen trees		1
Continuous		8		Large woody debris 💢 🚇 👊		
K EXTENT OF CHAN				(tick one box for each feature) *record even i		
*Erro fall flow	None P	resent E	(≥33%)		esent E(33%)
*Free fall flow Chute flow		7	H	Exposed boulders		
ASSESSMENT OF THE PROPERTY OF				Exposed boulders		
Broken standing waves		7	=	Vegetated bedrock/boulders		1
Unbroken standing waves		d <u>X</u>	7	Unvegetated mid-channel bar(s) Vegetated mid-channel bar(s)		1
Rippled flow		8	H	Mature island(s)		1
*Upwelling Smooth flow				Mature island(s)	0	1
ALHOOTO TIOW		7	0	Unvegetated side bar(s) Vegetated side bar(s)		=
				Vegetated side bar(s)		
No perceptible flow				Howagatated point bar/s)		7
No perceptible flow No flow (dry)			Ä	Unvegetated point bar(s)		1
No perceptible flow No flow (dry) Marginal deadwater	3000			Unvegetated point bar(s) Vegetated point bar(s)		
No perceptible flow No flow (dry)			0000	Unvegetated point bar(s)		

SITE REF.	RIVER H	ABITAT SUR	VEY : DIN	IENSION:	S AND IN	IFLUENCE	S Page	4 of 4
L CHANNEL DIN	AENSIONS (to	be measured at	one location	on a straigh	nt uniform s			
LEFT BANK		CHANNE	L	design.	RIGHT BA	NK		
Banktop height (m)	1	60 Bankfull	width (m)	12	Banktop h	eight (m)		3
Is banktop height also height? (Y or N)	1	W Water w	idth (m)	11		height also	bankfull	y
Embanked height (m)	2.	60 Water de	epth (m)	Δ	Embanked	l height (m)		2
If trashline lower than	banktop, indica	te: height abov	e water (m)	= 1 w	idth from b	ank to bank	(m) = 2	5
Bed material at site is:		consolidated	unco	nsolidated	(loose)	ì	unknowr	
Location of measuren	nents is: riffle 🕻	other 🚨 (sta	ite)					
M FEATURES OF	SPECIAL INT	EREST Use	/ or E (≥ 33°	a length) *i	ecord even	if <1%		
None Braided channels Side channel(s) *Natural waterfall(s) > 5 *Natural waterfall(s) < 5 Natural cascade(s) CHOKED CHA	□ *E im high □ Fr im high □ Q im high □ Q ANNEL (lick of	CONTRACTOR CONTRACTOR	(s) (1)	Water mead Fen(s) Bog(s) Wet woodla	oulder depo: low(s)	sits	Marsh(es) Flush(es) Natural Open water Others (state)	
ls 33% or more of the	channel choked	d with vegetation	1?	No 4		Yes		
	fill - tipping - litter verdeepening - aff management: ner (please specil nk - water vole - l	- sewage - polluti orestation - fisheri dredging - bar fy) kingfisher - dipper	*Oth appropriate on - drought ies management ink mowing - r - grey wagta	words, a abstraction ent - silting - weed cuttir il - sand ma	- mill - dam waterloggin genhanc	- road - rail - g - hydroelec ement - rive - dragonflies	industry - h tric power r rehabilitati /damselflies	on -
Alders? None R FIELD SURVEY	Present 🔲 E	NTROL (/ b	*Diseased	Alders? No	one 🔼	Present 🔲		/e [
Have you taken at least and major/intermediate Have you completed all Have you completed co Have you recorded in se Have you given an accu Have you stated whether	structures across ten spot-checks a dumn 11 of section ection C the numb trate (alphanumer er spot-check 1 is a	the channel? and made entries in an G (and E if appro per of riffles, pools ic) grid reference f	n all boxes in E opriate) on pag and point bar or spot-checks downstream	& F on pag ge 2? s (even if 0) o 1, 6 and en end of the si	e 2? on page 1? d of site (pag te (top of pa	ge 1)? ge 2)?	weirs/ sluices	In our case of

RIVER HABITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS
Site Number:
B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box only)
(tick one box only) shallow vee concave/bowl asymmetrical valley U-shape valley porge no obvious valley sides Natural terraces? No Yes
C NUMBER OF RIFFLES, POOLS AND POINT BARS (enter total number in boxes)
Riffle(s) Pool(s) Unvegetated point bar(s) Vegetated point bar(s)
D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)
Major Intermediate Minor Major Maj
Is channel obviously realigned? No ☐ Yes, <33% of site ☐ ≥33% of site ☐ Is channel obviously over-deepened? No ☐ Yes, <33% of site ☐ ≥33% of

Dislocal o TMG 12.1 dislocal for a morgan equil.

[Aight - 1111

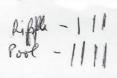
Pool - 11

SITE REF.	RIVER HA	BITA	r suf	RVEY	TEN	I SPC	OT-CH	IECK	S	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream e	nd 🔲 do	wnstrea	m end	R	of	site (ti	ck one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	cross c	hannel	withir	ı Im v	iide tri	ansect)					
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GP
LX BANK MANGE	lot wilt		Ring	j EC oi	SC if	ompo	sed of	sandy	suiosti	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CO	C, SP, WP, GA, BR, RR, TD, FA, BI	30	BO	30	30	30	Bo	BO	80	30	30	
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	NO	No	NO	NO	NO	00	100	No	No	No	
Marginal & bank feature(s) NV, N	10, EC, SC, PB, VP, SB, VS, NB	NO	00	NO	No	NO	NO	No	NO	NO	ND	
CHANNEL				GP- ri	ng eith	ier G c	ır P if p	redon	ninant			
Channel substrate NV, BE, BO, CO	O, GP, SA, SI, CL, PE, EA, AR	U 30	CO	30	30	CO	30	Bo	60	30	30	
Flow-type NV, FF, CH, BW, UW, CF	F, RP, UP, SM, NP, DR	RP	RP	RP	RP	NP	RP	RP	NP	51	13P	
Channel modification(s) NK,	NO, CV, RS, RI, DA, FO	NO	NO	NO	00	DA	GN	No	NO	No	GU	
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	VA	VA	VR	VR	Va	VB	VR	NO	NR	RA	spot-checks but present in
For braided rivers only: num	ber of sub-channels	0	0	0	0	0	0	0	0	0	0	spot-checks
RICKT BANK	Att Right		Rin	g EC o	r SC if	comp	osed o	l sandy	/ subst	rate		ks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CO	C, SP, WP, GA, BR, RR, TEO FA, BI	30	BR	30	EA	Bo	BO	30	BE	BE	BO	ut p
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	NO	RI	No	No	100	NO	No	No	No	No	resei
Marginal & bank feature(s) NV, N	NO, EC, SC, PB, VP, SB, VS, NB	NO	NO	No	NO	20	00	NO	NO	100	NU	nt in
F BANKTOP LAND-USE	AND VEGETATION	DN ST	RUCT	URE (to be as	sessed	over a	10m w	ide trar	isect)		>1%
Land-use: choose one from	BL, BP, CW, CP, SH,	or, w	., мн,	AW, C	W, RP	, IG, T	H, RD,	SU, TI	., IL, P	G, NV		of w
LAND-USE WITHIN 5m OF	BANKTOP DIELLY	34	RP	AP	RP	RP	RP	TH	TH	RI	BL	hole s
LET BANKEOB (statement within	1m)D Adverdant	1	1	-	6			1	100		-	
LEFT BANKTOP (structure within	miles Massicher	5	5	7	U	>	5	5	C	C	(ie.
	Dial Broscions	C	<u>5</u>	5	5	6	5	5	C	C	C	ite.
	Diaglerussicino	500	5 C	5	5	6	5 C	5	<u>C</u>	6	0	te.
LEFT BANK-FACE (structure)	Ligh BIUSICINV	C C	5 C B	500	5 0	5 C C	5 C C	5 5 C	C 5	6	C C	ite.
RIGHT BANK-FACE (structure)	Ligher Brusscinv Left Brusscinv in 1m) Lestestonv	S C C S TH	5 C C B	SCTH	5 C C BL	5 C C Bi	C C BL	5 C C TH	C S S RP	C 6 5 RP	C C S RP	ite.
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure with	Diaglanusicinv Left Biusicinv in 1m) Landatcinv TBANKTOP Lift	C C S TH	C B TH	S C C TH	5 C C BL	6 C Bl	C C BL	S C C TH	5 5 RP	6 5 RP	C C S RP	le :
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure with LAND-USE WITHIN 5m OF 18	Diaglanusicinv Left Biusicinv in 1m) Landatcinv TBANKTOP Lift	S C C S TH	C C B TH	S C C TH	5 C C BL	6 C BL	C C BL	5 C C TH	C S S RP	C C G S RP	C C S RP	but present in >1% of whole site.
RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure with LAND-USE WITHIN 5m OF 18 G CHANNEL VEGETATI	Diaglanusicinv Left Biusicinv in 1m) Landatcinv TBANKTOP Lift	S C C S TH	TH END TO	S C C TH	5 C BL	C C BL	C C C BL	5 C C TH	C S S RP	C C 6 S RP	C C S RP	F .
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure with LAND-USE WITHIN 5m OF ROME G CHANNEL VEGETATI None () or Not Visible (NV)	Diaglanusicinv Left Biusicinv in 1m) Landatcinv TBANKTOP Lift	S C C S TH	TH END IN	S C C TH	5 C C BL	5 C C BL	C C BL	5 C C TH	C S S RP	C C S RP	C C S RP	F.
RIGHT BANK-FACE (structure) RIGHT BANK-FACE	Michaelson	SCC STH	TH B	S C C TH	5 C B U U U	5 C C BL	S C C C BL	5 CCTH TH	-	-	C C S RP	ie.
RIGHT BANK-FACE (structure) RIGHT BANK-FACE	Michaelson	S C C S TH	5 C C B TH	S C C TH	S C C BL	5 C C BL	C C C BL	5 C TH	-	E	CCSRP	it.
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) BANC-FACE	Michaelson	SCC STH	TH B	S C C TH	5 C B D U U	C C BL	C C C BL	S C C TH	-	E	C C S RP	ite.
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) BANK-FACE	Michaelson	SCCSTH	TH E	S C C TH	5 C BL V V	C C BL E L	C C BL	S C C TH	-	E	C C S RP	le.
RIGHT BANK-FACE (structure) BANK-FACE (structure) BANK-FACE (structure) BANK-FACE (structure) BANK-FACE (structure) FACE BANK-FACE (structure) STRUCTURE BANK-FACE (structure) RIGHT BA	Michaelson	S C C S TH	TH E	S C C TH TH	5 C Bl	C C Bl	C C C BL	S C C TH	-	E	C C C S RP	ite.
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) BANC-FACE	Michaelson	C C S TH	TH E	S C C TH	5 C C Bl	CC Bl Bl	C C C BL	S C C TH	-	E	C C C S RP	lte.
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure) BANK-FACE (structure) BANK-FACE (structure) TOTAL BANK-FACE (structure)	Michaelson	C C S TH	TH WWW	S C C TH	S C C Bl	CC BL L	S C C BL	S C C TH E U L	-	E	C C C S RP	lte.

SITE REF,	RIVER HAI	SITAT	Page 3 of 4			
H LAND-USE WITH	HN 50m OF BAI	NKTOP	Usa	≥ √ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland		V	V	Natural open water (OW)		
Broadleaf/mixed plantation	(BP)			Rough/unimproved grassland/pasture (RP)	111	1
Coniferous woodland (semi	i-natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)				Tall herb/rank vegetation (TH)	1/	1
Scrub & shrubs (SH)	Gral-Bold	V	L	Rock, scree or sand dunes (RD)		
Orchard (OR)				Suburban/urban development (SU)		
Wetland (e.g. bog, marsh, i	fen) (WL)			Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)	Las III as A			Parkland or gardens (PG)		
				Not visible (NV)		
BANK PROFILES	Use 🗸 (presen	t) or E (≥ 33% b	anklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	J Z			Resectioned (reprofiled)		"
Vertical with toe	h.m.			Reinforced - whole		25
Steep (>45°)	\m	F	F	Reinforced top only	V	-
Gentle				Belefand in 1		
Composite	~			Artificial two-stage		
Natural berm						
		1.00		- Www		
				Embanked		
		1	1	Set-back embankment		
EXTENT OF TREES	DIES WIND AND SERVICE OF THE SERVICE	D FEATL	JRES	*record even if <1%		
TREES (tick one b		ght		ASSOCIATED FEATURES (tick one box per feature)	ire)	241
None		7		Shading of channel Presen	t E(≽33	96)
Isolated/scattered	i ō	5		*Overhanging boughs	120	
Regularly spaced, si	ngle 🔲 [5		*Exposed bankside roots		
Occasional clumps		5		*Underwater tree roots	ä	
Semi-continuous		5		Fallen trees	- H	
Continuous		X		Large woody debris	ŏ	
EXTENT OF CHAN	NNEL AND BAN	K FEATL	JRES	(fick one box for each feature) *record even if <	196	To less in
LATERT OF CHAI	None Pre	sent E(>	33%)		ent E(≥3	33%)
	TOTAL TE	7 -	_			
Free fall flow		j	2	Exposed bedrock		
Free fall flow				Exposed bedrock Exposed boulders		
Free fall flow thute flow roken standing waves				Exposed bedrock Exposed boulders Vegetated bedrock/boulders		
Free fall flow thate flow proken standing waves Unbroken standing waves				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s)		
Free fall flow that flow troken standing waves Unbroken standing waves pippled flow				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s)		
Free fall flow that flow that flow troken standing waves upproken standing waves uppled flow Upwelling				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s)		
Free fall flow Chute flow Broken standing waves Unbroken standing waves Rippled flow Upwelling mooth flow				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s)		
Free fall flow that flow broken standing waves stan				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s)		
Free fall flow that flow broken standing waves supplied flow upwelling mooth flow loo perceptible flow loo flow (dry)				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s)		
Free fall flow that flow broken standing waves supplied flow upwelling mooth flow loo perceptible flow loo flow (dry)				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s)		
Free fall flow that flow broken standing waves supplied flow upwelling mooth flow loo perceptible flow loo flow (dry)				Exposed bedrock Exposed boulders Vegetated bedrock/boulders Unvegetated mid-channel bar(s) Vegetated mid-channel bar(s) Mature island(s) Unvegetated side bar(s) Vegetated side bar(s) Unvegetated side bar(s)		

SITE REF.	RIVER HABITAT SU	RVEY : DIMENSIO	NS AND INFLUENCES	Page 4 of
. Channel dimensi	ONS (to be measured a			ably across a riff
EFT BANK	CHANI	NEL	RIGHT BANK	
Banktop height (m)	Bankfu	Il width (m) 12	Banktop height (m)	3
s banktop height also bankf neight? (Y or N)	full y Water	width (m) 2,5	Is banktop height also b height? (Y or N)	
mbanked height (m)	2 Water	depth (m) $Q,3$	Embanked height (m)	2
trashline lower than bankt	op, indicate: height ab	ove water (m) =	width from bank to bank (m) = 0
sed material at site is:	consolidated	unconsolidate	ed (loose)	unknown 📮
ocation of measurements is	i: riffle 🔟 other 🖵 (s	state)		
M FEATURES OF SPEC	CIAL INTEREST US	se v or E (≥ 33% length)) *record even if <1%	
None iraided channels ide channel(s) Natural waterfall(s) > 5m high Natural waterfall(s) < 5m high Natural cascade(s)		Floodplair Water me	n boulder deposits	arsh(es) ush(es) atural pen water thers (state)
CHOKED CHANNE	L (tick one box)			
33% or more of the chann	nel choked with vegetation	on? No 🔀	Yes	
mining - quarrying - overdeep Evidence of recent mana gravel extraction - other (ple Animals: otter - mink - wat	IERISTICS (Circle bing - litter - sewage - pollu ening - afforestation - fisho gement: dredging - b ease specify) ter vole - kingfisher - dipp	appropriate words ution - drought - abstracti eries management - silting oank mowing - weed cul per - grey wagtail - sand r	add others as necessa on - mill - dam - road - rail - i g - waterlogging - hydroelectr tting - enhancement - river i martin - heron - dragonflies/d cribe overall characteristics	industry - housing ic power rehabilitation -
ALDERS (tick one b	ox in each of the tw	o categories) *re* *Diseased Alders?	cord even if <1% None A Present	Extensive [
FIELD SURVEY QUA	LITY CONTROL (🗸	boxes to confirm cl	hecks)	
lave you taken at least two phind major/intermediate structu Have you completed all ten spo Have you completed column 1' Have you recorded in section C lave you given an accurate (alg	res across the channel? ot-checks and made entries 1 of section G (and E if app the number of riffles, poo	s in all boxes in E & F on p propriate) on page 2? Is and point bars (even if 0	age 2? 0) on page 1?	eirs/ sluices

1.2 L. 7 may 1		The second second	SITAT SU	RVEY 2003 V	/ersion		Page 1 of
A FIELD SU	RVEY D	ETAILS					
iite Number:	v113	e.				nnel? River	
Spot-check 1 Grid Ref:				rse conditions aff		, No i	Yes L
Spot-check 6 Grid Ref:				river visible? ba		partially 🔲	+entirely
ind of site Grid Ref:		nia n la Mhi				tached? Yes	_
leach Reference: liver name: Tow Date 05/0 ⁴ /20015	0	ime: /4h50mi	Number Photo ref	of photographs t			channel
Surveyor name: Jaw	de fa	nandus		100 w 100	n de la la		
Accredited Surveyor co	de: 68	000	LEFT When			ow boxes', tick o	
B PREDOM	NANT	VALLEY FORM	l (within	the horizon	n limit)	(tick one box	only)
(tick one box or	ly) - 🔲	shallow vee	r has have go	1		concave/bow	
		deep vee				asymmetrical U-shape valley	
\bigvee		gorge			[no obvious va	lley sides
Distinct flat va	lley botto	m? No 🔲	Yes 💢	Natura	al terraces?	No	Yes [
C NUMBER	OF RIFF	LES, POOLS A	ND POII	NT BARS	(enter tota	l number in bo	xes)
Riffle(s) Pool(s)		N/A	3 4	Unvegetated point		Lead to convert desirences la la Josepharmon	2
D ARTIFICIAL F	EATURE	ES (indicate total	number of	occurrences of e	ach category	within the 500m	site)
one, ck Ox Culverts	Major	Intermediate	Minor	Outfalls/ intakes Fords	Major	Intermediate	Minor
Bridges Other - state			Y	Deflectors/ groynes/croys			iddinid a



SITE REF.	RIVER H	ABITA	BITAT SURVEY: TEN SPOT-CHECKS Page 2 o									f4
Spot-check 1 is at: upstream e	nd 🔲 do	ownstrea	m end	(3)	o	f site (ti	ck one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed	across c	hanne	withi	n Im v	vide tr	ansect)					
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GP:
LEFT BANK			Rin	g EC o	SC if	comp	ised of	sandy	substi	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CO	, SP, WP, GA, BR, RR, TD, FA, B	· EA	EA	65	65	10	0	BO	EA	EA	EA	
Bank modification(s) NK, NO,	NO	No	NO	010	No	100	00	No	No	NO	Igray	
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, N	8 NO	100	SE	50	10	945	NO	100	NO	No	
CHANNEL				GP- ri	ng ei	78	or P if p	Juli	inant		A. Wall	60
Channel substrate NV, BE, BO, CO), GP, SA, SI, CL, PE, EA, AR	80	Bo	CO	0	CO	Co	50	CO	00	51	5A
Flow-type NV, FF, CH, BW, UW, CF		51	517	RP	SA	511	O.C.	517	611	51	NP	4
Channel modification(s) NK,		DA	NO	20	NO	NO	NO	100	NO	00	NO	2 1
Channel feature(s) NV, NO, EB,		EB	EB	BB	NO	NO	VB	MI	NO	No	10	pot-c
For braided rivers only: numl	ber of sub-channels	0	0	0.	10	10	0	0	10	0	0	hed
RIGHT BANK		1	P.	ICA		comp	0550 (9)	Salata	D. A	rate .		spot-checks but present in >1% of whole site.
Material NV, BE, BD, CD, GS, EA, PE, CL, CC		100	60	FA	130	PA IN	30	30	DA	FA	EA	t pre
Bank modification(s) NK, NO,		100	No	No	100	RI	RI	NO	100	00	100	sent
Marginal & bank feature(s) NV, N		100	NO	NO	NO	NO	00	No	ND	MO	NO) N
F BANKTOP LAND-USE	AND VEGETATI	ON ST	RUGI	URE (to be a	ssessed	over a	10m w	ide trac	isect)		1%
Land-use: choose one from	BL, BP, CW, CP, SH,	OR, W	L, MH,	AW, C	W, RF	, IG, T	H, RD,	SU, TI	., IL, P	G, NV		of w
LAND-USE WITHIN 5m OF LEFT	BANKTOP	BL	BL	BL	BL	BL	BL	TH	BLI	TH	TH	nole
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	U	6	16	C	C	C	6	5	5	5	site.
LEFT BANK-FACE (structure)	B/U/S/C/NV	U	US	B	9	C	C	C	5	5	5	gon
RIGHT BANK-FACE (structure)	B/U/S/C/NV	B	В	U	5	C	C	C	C	C	C	linar
RIGHT BANKTOP (structure with	in 1m) B/U/S/C/NV	B	B	5	5	5	5	5	C	C	C	5
LAND-USE WITHIN 5m OF RIGHT	T BANKTOP	TH	TH	RP	BP	RP	Pu	50	BI	131	BL	
G CHANNEL VEGETATION	ON TYPES Ito be a	stessed or	era IO	n wide i	ranson.	use E (> 3.3 Yr ar	(e.a)	(present) or NV	(not vis	bie)
None (✓) or Not Visible (NV)		1	I	T		I	I		1	244		
Liverworts/mosses/lichens		11	1	11-	1		1.	L	L	dan	,	
Emergent broad-leaved herbs		-	-	1	11	1	1					
Emergent reeds/sedges/rushes/g	rasses/horsetails	1	barr	1				V	,			
Floating-leaved (rooted)		W		V				1-	1			
Free-floating	(charles and a	100	993					-				23.3
Amphibious	The second second											
Submerged broad-leaved			V-32								-	
Submerged linear-leaved					1							
Submerged fine-leaved	-		mil.									919
			-				0				-	
Filamentous algae								1		0.0	10000	1965

SITE REF. RI	VER HAE	BITAT	SURVI	EY : 500m SWEEP-UP	Page	3 of 4
H LAND-USE WITHIN S	iom OF BAt	NKTOP	Ușe	✓ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (semi	i-natural) (BL)	E	V	Natural open water (OW)		
Broadleaf/mixed plantation (BP)				Rough/unimproved grassland/pasture (RP)		V
Coniferous woodland (semi-natu	ural) (CW)			Improved/semi-improved grassland (IG)	1	
Coniferous plantation (CP)				Tall herb/rank vegetation (TH)	V	1
Scrub & shrubs (SH)	Hills Its			Rock, scree or sand dunes (RD)		
Orchard (OR)		3.4	139	Suburban/urban development (SU)		V
Wetland (e.g. bog, marsh, fen) ((WL)		-	Tilled land (TL)		
Moorland/heath (MH)	-			Irrigated land (IL)		
Artificial open water (AW)	14166 574	100		Parkland or gardens (PG)		
		CONTRACTOR OF THE PARTY OF THE		Not visible (NV)		District Co.
I BANK PROFILES U	se 🗸 (preser	1	> 33% b.	inklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	Cm	V	V	Resectioned (reprofiled)		
Vertical with toe			V	Reinforced - whole		
Steep (>45')	····		V	Reinforced - top only		- 40
Contla	****	E		Reinforced - toe only		
Composite		V		Artificial two-stage		
Natural berm		_				-
				O'NAWW O		
				Embanked Set-back embankment		-
			To the second second			-
J EXTENT OF TREES AND		ED FEAT	TURES	*record even if <1%		
TREES (tick one box		Right		ASSOCIATED FEATURES (tick one box per feature None Prese		3%)
None	画	Ď		Shading of channel)
Isolated/scattered		Ō.		*Overhanging boughs)
Regularly spaced, single				*Exposed bankside roots]
Occasional clumps				*Underwater tree roots]
Semi-continuous	XI			Fallen trees)
Continuous	ā	Ø		Large woody debris)
K EXTENT OF CHANNI	EL AND BAN	NK FEAT	URES	(tick one box for each feature) *record even i	f <1%	
	None P	resent E	(≽33%)	None Pr	esent E (≥33%)
*Free fall flow	\boxtimes	<u>u</u>		Exposed bedrock		
Chute flow				Exposed boulders		
Broken standing waves		X		Vegetated bedrock/boulders	X	_
Unbroken standing waves		A		Unvegetated mid-channel bar(s)	X	
Rippled flow		M		Vegetated mid-channel bar(s)		
*Upwelling	Ø			Mature island(s)		
Smooth flow	O	Z	8	Unvegetated side bar(s)		5
No perceptible flow	n		ō	Vegetated side bar(s)		5
No flow (dry)		7	Ti-		X [=
320	7		7	Unvegetated point bar(s)		=
Marginal deadwater			H	Vegetated point bar(s)		-
Eroding cliff(s)		4		*Unvegetated silt deposit(s)	7	_
Stable cliff(s)		U		*Discrete unvegetated sand deposit(s)	7	
				*Discrete unvegetated gravel deposit(s)		

SITE REF.	RIVE	R HABI	TAT SUR	VEY : DI	MENSION	IS AND II	NFLUENCE:	S Page	4 of 4
L CHANNEL DIME	vsions	(to be m	easured at	one location	on a straig	ht uniform	section, prefer	ably acros	s a riffle
LEFT BANK	No.		CHANNE	L		RIGHT BA	ANK		
Banktop height (m)		1	Bankfull	width (m)	46	Banktop	height (m)		0,5
Is banktop height also ba height? (Y or N)	nkfull	y	Water w	idth (m)	36	Is bankto height? (p height also I Y or N)	bankfull	N
Embanked height (m)		1	Water de	epth (m)	03	Embanke	d height (m)		1
If trashline lower than ba	nktop, in	dicate: I	neight abov	e water (m)	= 0,5	width from	bank to bank	(m) = 3	9
Bed material at site is:		con	solidated	unc unc	onsolidated	l (loose) 🖟	d)	unknow	n 📮
Location of measuremen	ts is: riff	le 🛄 o	ther 🕰 (sta	ite)					
M FEATURES OF SI	PECIAL	NTERES	T Use	√ or L (> 33	% length) '	record eve	n if <1%		A CONTRACT OF THE CONTRACT OF
None Braided channels Side channel(s)		*Debris *Leafy d	lebris		Water mea	ooulder depo	osits 📈 FI	flarsh(es) ush(es) latural pen water	
*Natural waterfall(s) > 5m h *Natural waterfall(s) < 5m h			g reed-bank(g bank(s)	s) [Fen(s) Bog(s)			thers (state) 🗌
Natural cascade(s)		*Sink ho	ole(s)	H	Wet woodl	and(s)	ā		
N CHOKED CHAN	NEL (ti	ck oné bo							
Is 33% or more of the ch	annel cho	ked with	vegetation	1?	No 🔀		Yes	1	
o notable nuisa	nce pl	ant sp	ECIES	Use v or E	(> 33% Jen	igth) *re	cord even if < 1°	%	
None *Giant hog *Japanese I P OVERALL CHARA Major impacts: landfill - mining - quarrying - overd Evidence of recent ma gravel extraction - other Animals: otter - mink - Other significant obso	crease spanned water vol	itter - sew. - afforesta ent: dre pecify) e - kingfis	age - polluti tion - fisheri dging - bar her - dipper	*Hii *Ot appropriation - drought es managem nk mowing - r - grey wagt	e words, - abstraction ent - silting - weed cutti ail - sand m	add other n - mill - dan - waterloggi ing - enhan artin - heror	n road rail - ng - hydroelect cement - river	industry - tric power rehabilitat	housing
Q ALDERS (tick one *Alders? None Pres R FIELD SURVEY Q Have you taken at least two and major/intermediate str Have you completed all ten Have you completed colum Have you recorded in section	UALITY photos th uctures acc spot-chec n 11 of se	Extens CONTR nat illustrate ross the che cks and ma ction G (a	ive de the general annel? ade entries in the general annel Eif appropries in the contract of t	*Diseased oxes to co al character o n all boxes in opriate) on pa	d Alders? Nonfirm cho onfirm cho f the site and E & F on pages 2?	ecks) d additional (ge 2?	Present 🛄	Extens veirs/ sluice	s X
Have you given an accurate Have you stated whether sp	ot-check	l is at the	upstream or	downstream	end of the s	ite (top of p	age 2)?		
Have you cross-checked you	ar spot-ch	eck and sv	veep-up resp	onses with th	ne channel n	nodification i	ndicators		X

RIVER HABITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS
Site Number: Site Number: Site Number: Site Number: Site Reference: Spot-check 1 Grid Ref: \$\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Accredited Surveyor code: L8100 LEFT banks determined by facing downstream RIGH
B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box only)
(tick one box only) shallow vee concave/bowl asymmetrical valley U-shape valley porge Distinct flat valley bottom? No Yes Natural terraces? No Yes
C NUMBER OF RIFFLES, POOLS AND POINT BARS (enter total number in boxes)
Riffle(s) Pool(s) Unvegetated point bar(s) Vegetated point bar(s) O O
D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)
If none, tick box
Is channel obviously realigned? No S Yes, <33% of site >33% of site Is channel obviously over-deepened? No Yes, <33% of site >33% of site Is water impounded by weir/dam? No Yes, <33% of site >33% of site

SITE REF.	RIVER HA	ABITA	T SUI	RVEY	: TEI	N SP	OT-CH	IECK	S	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream e	nd 🔯 do	wnstrea	m end		of	site (ti	ck one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	across c	hanne	withi	n 1m v	vide tr	arisect)					
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GP
LEFT BANK			Ring	g EC o	SC if	compo	sed of	sandy	substi	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CO	C, SP, WP, GA, BR, RR, TD, FA, B	EA	BE	BE	BA	80	Bo	Bo	36	EA	FA	
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	No	NO	100	00	20	No	No	Vo	Up	Op	
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NE	NO	No	DO	No	No	NO	NO	No	No	NO	
CHANNEL				GP- ri	ng eith	ner Gir	or P if p	redo	Por			
Channel substrate NV, BE, BO, CO	O, GP, SA, SI, CL, PE, EA, AR	Bo	BO	30	(0	BO	PE	BO	180	60	Co	
Flow-type NV, FF, CH, BW, UW, CF	F, RP, UP, SM, NP, DR	51	BW	RP	54	PIP	UW	WILL)	511	51	UW	
Channel modification(s) NK,	NO, CV, RS, RI, DA, FO	NO	00	No	OU	No	NO	No	00	60	00	
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	NO	No	No	No	NO	NO	No	NO	No	No	spot-checks but present in
For braided rivers only: numl	ber of sub-channels	0	0	0	0	0	0	0	0	0	3	spot-checks
RIGHT BANK			Rin	g EC o	r SC if	comp	osed of	sand	subst	rate		ks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	C, SP, WP, GA, BR, RR, TD, FA, BI	BO	Bo	30	BA	GA	BO	BO	Bo	EA	EA	but present
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	NO	No	Do	00	No	NO	NO	No	No	No	reser
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	CU	20	OU	64	NO	GN	DO	ea	po	No	it in
F BANKTOP LAND-USE	AND VEGETATI	ON ST	RUCT	URE (to be a	sessed	over a	70m w	de trai	rsect)		>1%
Land-use: choose one from I	BL, BP, CW, CP, SH,	OR, WI	L, MH,	AW, C	W, RP	HGLIT	H, RD,	SU, TL	, IL, P	G, NV		of v
LAND-USE WITHIN 5m OF LEFT	BANKTOP	RP	SH	BI	BI	TRA	RP	B2	OP	B)	RP	of whole si
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	V	B	C	(1	1.)	5	25	C	5	>1% of whole site.
LEFT BANK-FACE (structure)	B/U/S/C/NV	U	B	C	C		C	5	\$S	8	5	
RIGHT BANK-FACE (structure)	B/U/S/C/NV	5	U	0	5	()	(-	C	C	-	1111
RIGHT BANKTOP (structure withi	in 1m) B/U/S/C/NV	5	U	C	5	()	0	C	C	-	5	100
LAND-USE WITHIN 5m OF RIGHT		BI	31	RI	121	7/11	BI	BL	BI	BI	TH	
G CHANNEL VEGETATION	A STREET, AND A		DC.	5	00	RI	Dr.	300	שע	DC	1 17	9963
	ON TIPES to be as	SESSED OV				90	2 3 3 10 11	9, 1	THE STATE OF	O O O NV	(1857, AR)	20/
			1111	1	100			-				
None (✓) or Not Visible (NV)		10 200			1 -	V	1	-	1	_	-	
Liverworts/mosses/lichens		V	V	-		-						
Liverworts/mosses/lichens Emergent broad-leaved herbs		V	V									1177
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g	rasses/horsetails	V	V							(4	
Liverworts/mosses/lichens Emergent broad-leaved herbs	rasses/horsetails	V	V							L	4	08
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g	rasses/horsetails	ν -	V	_						C	L	
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted)	rasses/horsetails		V							<u></u>	L	
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating	rasses/horsetails	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V							<u>C</u>	L	
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious	rasses/horsetails	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V							<u></u>	<i>L</i>	
Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/g Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	rasses/horsetails									<u></u>	L	

SITE REF.	RIVER HAB	ITAT	SURVE	Y : 500m SWEEP-UP	Page :	3 of 4
H LAND-USE WITH	IN 50m OF BAN	IKTOP	Ușe v	/ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland ((semi-natural) (BL)	V	معنا	Natural open water (OW)		
Broadleaf/mixed plantation	(BP)			Rough/unimproved grassland/pasture (RP)	V	
Coniferous woodland (semi-	-natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)	0 8 UH 10			Tall herb/rank vegetation (TH)	V	L
Scrub & shrubs (SH)	DU MILE	V	V	Rock, scree or sand dunes (RD)		
Orchard (OR)	DE BU OF		1	Suburban/urban development (SU)		
Wetland (e.g. bog, marsh, f	en) (WL)			Tilled land (TL)		
Moorland/heath (MH)			1	Irrigated land (IL)		
Artificial open water (AW)	ME STE	j.	100	Parkland or gardens (PG)		
				Not visible (NV)		
EANK PROFILES	Use 🗸 (presen	t) or E (33% bar	aldength)		-
Natural/unmodified		L	R	Artificial/modified	L.	R
Vertical/undercut	Im Zm			Resectioned (reprofiled)		
Vertical with toe	hm.	V	V	Reinforced - whole		
Steep (>45°)	\	V	E	Reinforced - top only	1	
Gentle			V	Reinforced - toe only	t feet at	
Composite	~~~~			Artificial two-stage		
Natural berm —				Poached bank Tunww		
ST CHANGE	1000000	7		Embanked ———		
			He l	Set-back embankment		100
I EXTENT OF TREES	AND ASSOCIAT	ED FEAT	LIRES	*record even if <1%		
TREES (tick one				ASSOCIATED FEATURES (tick one box per fea	iture)	
		Right		None Prese		3%)
None				Shading of channel	<u> </u>	4
Isolated/scattered	Ä	Ц		*Overhanging boughs	-	1
Regularly spaced, s	rut A	76		*Exposed bankside roots	_	1
Occasional clumps	M			*Underwater tree roots	-	1
Semi-continuous	國文	國人		Fallen trees	-	1
Continuous			LIGER			7
K EXTENT OF CHA		resent E		(tick one box for each feature) *record even i	resent E (≥33%)
*Free fall flow				Exposed bedrock		
Chute flow	ō	×		Exposed boulders		
Broken standing waves		K		Vegetated bedrock/boulders		
Unbroken standing waves		×		Unvegetated mid-channel bar(s)		
Rippled flow		X		Vegetated mid-channel bar(s)		
*Upwelling				Mature island(s)		
Smooth flow		W		Unvegetated side bar(s)		
No perceptible flow		X		Vegetated side bar(s)		7
No flow (dry)		Ø.		Unvegetated point bar(s)		
Marginal deadwater				Vegetated point bar(s)		
Eroding cliff(s)	N N			*Unvegetated silt deposit(s)		1
Stable cliff(s)		M		*Discrete unvegetated sand deposit(s)		
				*Discrete unvegetated gravel deposit(s)		

SITE REF.	RIVER I	IABITAT SUR	VEY : DIM	ENSION	S AND IN	FLUENCES	Page 4	1 of 4
L CHANNEL DIMI	NSIONS (to	be measured at	one location o	on a straig	ht uniform se	ction, prefera	ibly across	a riffle)
LEFT BANK		CHANNE	L		RIGHT BAN	1K		
Banktop height (m)		1 Bankfull	width (m)	3	Banktop he	eight (m)		1
Is banktop height also beight? (Y or N)	ankfull	Water w	idth (m)	1	Is banktop height? (Y	height also b or N)	ankfull	MANA
Embanked height (m)		0 Water de	epth (m)	0.1	Embanked	height (m)		0
If trashline lower than b	anktop, indic	ate: height abov	e water (m) =	0,5 V	vidth from ba	ank to bank (r	m) = 3	
Bed material at site is:		consolidated	unco	nsolidated	(loose)		unknown	
Location of measureme	nts is: riffle	other 🔲 (sta	ite)					
M FEATURES OF	SPECIAL IN	TEREST Use	√ or E (≥ 33%	length) '	record even	if <1%		
None Braided channels Side channel(s) *Natural waterfall(s) > 5m *Natural waterfall(s) < 5m Natural cascade(s)	high F	ery large boulders Debris dam(s) Leafy debris ringing reed-bank(Quaking bank(s) Sink hole(s)	F V V S F B B B B B B B B B	ackwater(s loodplain b Vater mead en(s) log(s) Vet woodla	ooulder deposi dow(s)	its Flu	arsh(es) ish(es) atural en water hers (state)	
N CHOKED CHAN	NEL (tick	one box)						
Is 33% or more of the o	hannel choke	d with vegetation	1?	VO 📈		Yes		
*Japanese P OVERALL CHAP Major impacts: landfill mining - quarrying - over Evidence of recent in gravel extraction - other Animals: otter - mink Other significant ob observations	- tipping - litte deepening - al nanagement (please spec - water vole -	r - sewage - polluti forestation - fisher :: dredging - ba ify) kingfisher - dippe	on - drought - ies manageme nk mowing - v	words, abstraction nt - silting weed cutti	n - mill - dam - waterlogging ng - enhance artin - heron -	as necessa road - rail - i g - hydroelectr ement - river r	industry - ho ic power rehabilitation	on -
Q ALDERS (tick or *Alders? None Pr R FIELD SURVEY of Have you taken at least the and major/intermediate st Have you completed all the Have you completed column and the state of the state	QUALITY Co ophotos that ructures across n spot-checks	Extensive NONTROL (/ billustrate the generate the channel? and made entries in	*Diseased OXES to COI al character of all boxes in E	Alders? N office che the site and & F on page	ecks) I additional ph	Present 🛄	Extensiv	
Have you recorded in sect Have you given an accura Have you stated whether Have you cross-checked y	ion C the num te (alphanume spot-check 1 is	ber of riffles, pools ric) grid reference f at the upstream or	and point bars or spot-checks downstream e	(even if 0) 1, 6 and er end of the s	nd of site (pagi ite (top of pag	je 2)?		

RIVER HABITAT SURVEY 2003 Version Page	1 of 4
A FIELD SURVEY DETAILS	
Site Number: Site Number: Site Number: Site Reference: Site Reference: Are adverse conditions affecting survey? No Artificial channel? River Artifi	s land
B PREDOMINANT VALLEY FORM (within the horizon limit) (lick one box only)	KIGH
(tick one box only)	
shallow vee	
deep vee deep vee U-shape valley	
gorge no obvious valley sid	les
Distinct flat valley bottom? No 🔲 Yes 🔯 Natural terraces? No 🔼 Yes	es 🔲
C NUMBER OF RIFFLES, POOLS AND POINT BARS (enter total number in boxes)	
Riffle(s) Pool(s) Unvegetated point bar(s) Vegetated point bar(s)	0
D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)	
If none, tick box	nor
Is channel obviously realigned? No \bigcirc Yes, <33% of site \bigcirc \geqslant 33% of site Is channel obviously over-deepened? No \bigcirc Yes, <33% of site \bigcirc \geqslant 33% of site Is water impounded by weir/dam? No \bigcirc Yes, <33% of site \bigcirc \geqslant 33% of site	

SITE REF.	RIVER H	ABITA	T SU	RVEY	: TE	N SP	OT-CI	IECK	S	Pa	ge 2 o	f 4
Spot-check 1 is at: upstream en	d 🔲 d	ownstrea	ım end		0	f site (ti	ick one	box)				
E PHYSICAL ATTRIBUTE	ES (to be assessed	across c	hanne	l withi	n Imu	vide tr	ansect)					
When boxes 'bordered', only o	ne entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GP
LEFT BANK			Rin	g EC o	r SC if	compo	osed of	sandy	subst	rate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC,	SP, WP, GA, BR, RR, TD, FA, E	80	Bo	30	30	Bo	80	+A	BE	Bo	Ba	
Bank modification(s) NK, NO, R	S, RI, PC(B), BM, EM	60	No	NO	NO	10	NO	No	NO	UN	NO	
Marginal & bank feature(s) NV, NO), EC, SC, PB, VP, SB, VS, N	B VP	VP?	UP!	UP!	VP:	VP?	No	ND	10	20	
CHANNEL		100	NO	CNO.	no No	ner No	or P if p	redon	ninant			
Channel substrate NV, BE, BO, CO,	GP, SA, SI, CL, PE, EA, AR	Bo	BE	BE	BE	BO	30	BO	30	Bo	Bo	
Flow-type NV, FF, CH, BW, UW, CF,	RP, UP, SM, NP, DR	BP	RP	CH	BW	RP	BW	NP	51	NP	NP	
Channel modification(s) NK, N	O, CV, RS, RI, DA, FO	NO	NO	00	00	Ng	NO	NO	NO	NO	NO	I
Channel feature(s) NV, NO, EB, I	RO, VR, MB, VB, MI, TR	EB	EB	EB	EB	M	VR	NO	NO	NA	VR	spot
For braided rivers only: numb	er of sub-channels	0	10	0	0	VB	0	0	0	0	0	spot-checks
RIGHT BANK			Rin	g EC o	r SC if	сотр	osed of	sandy	/ subst	rate		spot-checks but present in
Material NV, BE, BO, CO, GS, EA, PE, CL, CC,	SP, WP, GA, BR, RR, TD, FA, B	30	B€	BE	BE	£A	30	FA	BE	BF	BE	but p
Bank modification(s) NK, NO, R	S, RI, PC(B), BM, EM	100	NO	NU	NO	NO	NO	NO	100	NO	NO	present
Marginal & bank feature(s) NV, NO	, EC, SC, PB, VP, SB, VS, N	VP!	NO:	NO	NO	NO	NP	NO	NO	W)	NO	nt in
F BANKTOP LAND-USE	AND VEGETATI	ON ST	RUCT	URE (to be a	sesséd	over a	l Om w	ide tran	1515(31)	N. T.	>19
Land-use: choose one from B					A 1000 1000 1000 1000 1000 1000 1000 10			SEC. 10.000				>1% of whole
LAND-USE WITHIN 5m OF LEFT B	ANKTOP	32	BL	SA	SH	SH	PG	PG	BL	ЪL	BL	hole
LEFT BANKTOP (structure within 1	m) B/U/S/C/NV	5	5	5	5	5	()	()	C	C	C	site
		The second second		-			<u> </u>	_		11	6	The state of the s
LEFT BANK-FACE (structure)	B/U/S/C/NV	15	5	5	5	5	U	IU I	13	1.7		3
LEFT BANK-FACE (structure) RIGHT BANK-FACE (structure)	B/U/S/C/NV B/U/S/C/NV	5	5 23	5	5	5		U U	U	C	9	Curo IIIII Ig
	B/U/S/C/NV	5	5 33	5	5 U	5 B	500	0	U 5	2	V	Cao I III I I II I
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within	B/U/S/C/NV 11m) B/U/S/C/NV	5 5 5	5 5 8	5 U.	5	5	7 7 86	0000	U 5	C 5	U U 5#	Carrielli idilit. III
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP	5 5 5	5 33 5 BL	5 U, 5H	5 5 8	5 0 0 5 4	U U PG	U U Py	U 5 5H	5 5H	U 5₩	e site.
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP	5 5 5	5 5 81	5 5 5 1	S 5 8	5 8 5 8	U U PG	U V Py	U 5 5H	5 5H	<i>U</i> 5₩	ola)
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV)	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP	5 5 5 6	5 33 5 Bl	5 5 5 1	S W	5 B S A	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	U V Py	U 5 5H	5 5 5 8	U U 5₩	ola)
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP	5 5 5 6 4	5 33 5 31 00 00 00 00 00 00 00 00 00 00 00 00 00	5 5 5 1	5 5 5 V	5 B S A S A S A S A S A S A S A S A S A S	U U PG	U U Py	U 5 5H	5 5 5 1	シ シ 5 ^{††}	
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	V	5 33 5 BL	5 5 5 1 1	5 5 5 7 7	5 6 5 6	7 7 7 7 7 7	U U Py	U 5 5H	5 5H	り り 5**	ola)
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gra	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	5 5 5 5 4 V	5 33 5 81 レレ	5 D D D D D D D D D D D D D D D D D D D	5 5 5 7 7	5 6 5 1	U U PG	U V Py	U 5 5H	0 5 5 5 1 1 1 1 1	シンシーレント	ole)
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/grafloating-leaved (rooted)	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	V	5 33 5 BL いレレ	5 5 5 1 レ レ レ レ	5 5 5 V V V	5 B C C C C C C C C C C C C C C C C C C	U U PG	U V Py	U 5 5H	C 5 5H レレレ	-	() () () () () () () () () ()
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/grafloating-leaved (rooted) Free-floating	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	V	5 33 5 B1 レ	5 5 5 1 レ レ レ レ	5 5 5 V V V	5 8 5 1	7 7 7 7 7	U U Py	U 5 5H	C 5 5 M	-	oria).
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gra Floating-leaved (rooted) Free-floating Amphibious	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	V	5 33 5 B1 レンレ	5 5 5 1 レ レ レ	5 5 5 7 7	5 0 5 1 1 1 1 1 1	U U P G	V V 20	U 5 5H	C 5 5M	-	and the state of t
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/grafloating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	V	5 5 5 BL er a 10n	5 5 5 1 1	S U S S W	5 B	7 7 7 7 1 1	V V Ru	U 5 5H レ レ	0 5 5M レレレ	-	nie)
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gra Floating-leaved (rooted) Free-floating Amphibious	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	V	5 第3 5 B1 レレレ	5 5 5 1 レ レ レ レ レ	5 5 5 V V	5 (g) (g) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	U U P P P P P P P P P P P P P P P P P P		U 5 5H V V	C 5 5 M 200 NV	-	Orio)
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/grafloating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	B/U/S/C/NV 11m) B/U/S/C/NV BANKTOP N TYPES (to be as	V	5 3 3 5 B1 レレレ	S り 5H レ レ レ レ	S S S W V V V	5 B S A S A S A S A S A S A S A S A S A S	U U RQ	V V Ru	U 5 5H V	し 5 5M レ レ し	-	OCCURRANT III

SITE REF. RIVER HA	ABITAT	SURVE	Y : 500m SWEEP-UP	Page	3 of 4
H LAND-USE WITHIN 50m OF B		Use	✓ (present) or E (≥ 33% banklength)		
	L	R		L	R
Broadleaf/mixed woodland (semi-natural) (I	BL) 🗸	V	Natural open water (OW)		
Broadleaf/mixed plantation (BP)			Rough/unimproved grassland/pasture (RP)	V	
Coniferous woodland (semi-natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)	,		Tall herb/rank vegetation (TH)		
Scrub & shrubs (SH)	V	E	Rock, scree or sand dunes (RD)		
Orchard (OR)	3/1/3		Suburban/urban development (SU)	A Institut	
Wetland (e.g. bog, marsh, fen) (WL)			Tilled land (TL)		
Moorland/heath (MH)			Irrigated land (IL)		-
Artificial open water (AW)			Parkland or gardens (PG)	V	V
			Not visible (NV)		
F BANK PROFILES Use ✓ (pre	sent) or E	(> 33% ba	nklength)		
Natural/unmodified	L	R	Artificial/modified	L	R
Vertical/undercut	V	V	Resectioned (reprofiled)		
Vertical with toe	11/	1/	Reinforced - whole		
Steen (~45°)			Reinforced - top only		
C	11	V	Reinforced - toe only		
Composite	-	1./	Artificial two-stage		
- Cover		-			
Natural berm			Poached bank how	-60	-
			Embanked		-
			Set-back embankment		
EXTENT OF TREES AND ASSOC	IATED FEA	TURES	*record even if <1%		
TREES (tick one box per bank)			ASSOCIATED FEATURES (tick one box per feat	iture)	220/1
Left	Right		None Presi	ent t()	33%)
None			Shading of channel		7
Isolated/scattered			Overnanging bodgits		7
Regularly spaced, single	7		Exposed serimone roots		=
Occasional clumps			*Underwater tree roots		=
Semi-continuous	4		Tuneri deca		=
Continuous	Name of the last o		Large woody debris	,	
K EXTENT OF CHANNEL AND I	Present		(Lick one box for each feature) *record even None P	resent E	(>33%)
*Free fall flow			Exposed bedrock		
Chute flow	ō	ō	Exposed boulders		X
Broken standing waves	Z	ō	Vegetated bedrock/boulders	\boxtimes	
Unbroken standing waves		ō	Unvegetated mid-channel bar(s)	ō	
Rippled flow	×	ă	Vegetated mid-channel bar(s)	× 7	ō
*Upwelling	N	ŏ	Mature island(s)	6	ō
Smooth flow		ō	Unvegetated side bar(s)		ō
No perceptible flow	×	100	Vegetated side bar(s)	ō	ō
			Vegetated side bar(s) Unvegetated point bar(s)	Ō	ō
No flow (dry) Marginal deadwater Eroding cliff(s)	- H	ă	Vegetated point bar(s)	Z ?	ō
Eroding cliff(s)	ă	ň	*Unvegetated silt deposit(s)	ō	ō
Stable cliff(s)	T	ŏ	*Discrete unvegetated sand deposit(s)	ā	_
			*Discrete unvegetated gravel deposit(s)	ō	

SITE REF.	RIVE	R HABI	TAT SUR	VEY : DI	MENSION	S AND I	NFLUEN	CES	Page	4 of 4
L CHANNEL DIM	ENSION:									
LEFT BANK			CHANNE	L		RIGHT B	ANK		NEW TOWNS	
Banktop height (m)		35	Bankfull	width (m)	50	100000000000000000000000000000000000000	height (m)		0,5
Is banktop height also height? (Y or N)	bankfull	NO NO	Water w	idth (m)	CLO	Is bankto height?	op height a	ilso ba	nkfull	ONE
Embanked height (m)		1	Water de	epth (m)	0,5	Embank	ed height ((m)		1
If trashline lower than	oanktop, ir	ndicate: h	eight abov	e water (m)	= 015 V	vidth from	bank to ba	ank (m	1) =	54
Bed material at site is:		con	solidated	unc	onsolidated	(loose)	_		unknow	n 🖸
Location of measurement	ents is: rif	fle 🖸 o	ther 🖵 (sta	ite)						
m features of	SPECIAL	INTERES	T Use	√ or E (> 33	% length) '	record eve	en If <1%			
None Braided channels Side channel(s) *Natural waterfall(s) > 5r *Natural waterfall(s) < 5r Natural cascade(s) N CHOKED CHA	n high _	*Debris *Leafy d Fringing Quaking *Sink ho	ebris greed-bank(g bank(s) ble(s)		Backwater(s Floodplain b Water mea Fen(s) Bog(s) Wet woodl	ooulder dep dow(s)	oosits	Flus Nati ope	rsh(es) h(es) ural en water eers (state	0
				-2	N. V		V			15 M.S
Is 33% or more of the	cnannei cr	iokea with	vegetation	1.7	No 🔀		Yes			
None *Giant h *Japanes P OVERALL CHA Major impacts: landfil mining - quarrying - ove Evidence of recent in gravel extraction - other Animals: otter - min Other significant of observations	RACTERI I - tipping - rdeepening managemer (please s k - water vo	litter - sew g - afforesta ent: dre pecify) ole - kingfis	age - polluti tion - fisheri dging - bai her - dippei	*On appropriation - drought les managem nk mowing - r - grey wagt	- abstraction nent - silting - weed cutt ail - sand m	add othe n - mill - dai - waterlogg ing - enhar artin - hero	m - road - n ing - hydro ncement - n - dragoni	ail - in electric river re flies/da	ndustry - power ehabilitat	tion -
Q ALDERS (tick o			f the two	1		ord even if <	1%			
*Alders? None 🔲 P	resent 🛚	Extens	ive 🔲	*Disease	d Alders? N	one 🔀	Present	0	Extens	ive 🔲
R FIELD SURVEY	QUALITY	CONTR	OL (/ b		onfirm ch					
Have you taken at least t and major/intermediate Have you completed all I Have you completed coll Have you recorded in see Have you given an accur Have you stated whether Have you cross-checked given on page 2 of the s	structures a en spot-che umn 11 of s tion C the ate (alphan spot-check your spot-cl	cross the checks and ma ection G (a number of umeric) grid 1 is at the	annel? ade entries in nd E if appro riffles, pools d reference f upstream or	n all boxes in opriate) on pa and point ba or spot-check downstream	E & F on page 2? rs (even if 0) ss 1, 6 and e	ge 2? on page 1? nd of site (p site (top of p	age 1)? page 2)?	ny wei	rs/ sluice:	

RIVER HAB	BITAT SURVEY 2003 \	/ersion		Page 1 of 4	
A FIELD SURVEY DETAILS					
leave blank if new site ite Number: EST 6 ite Reference: 103.2438, 84 W pot-check 1 Grid Ref: 1210600, 09 N pot-check 6 Grid Ref: 103.25 86.97 W and of site Grid Ref: 103.25 86.97 W and of site Grid Ref: 103.25 86.97 W and of site Grid Ref: 103.25 86.97 W aloo 5.88 W and of site Grid Ref: 103.25 86.97 W aloo 5.88 W are on the site of the	Is the site part of a river or a Are adverse conditions aff If yes, state	acting survey? ACUSE arely or not ment form atta	No D (vi ha' c partially D	Yes Ward Vijai tentirely (olax
Surveyor name: Davidu Felvavdus	☐ When options shown	n with 'shado	w hoves' tick	one hoy only	
Accredited Surveyor code: LB1 50	LEFT banks determ	44 444 444			
B PREDOMINANT VALLEY FORM	(within the horizon	n limit)	tick one bo	x only)	
deep vee			asymmetrical U-shape valle	l valley ey	
		al terraces?	No	Yes 🚳	
C NUMBER OF RIFFLES, POOLS A	ND POINT BARS	(enter total	number in b	oxes)	
Riffle(s) Pool(s)	Unvegetated point		Marie de la companya	<u>O</u>	
D ARTIFICIAL FEATURES (Indicate total r	number of occurrences of ea	ach category w	ithin the 500m	ı site)	
fonone, ick Oxox Bridges Other - state	Minor Outfalls/ intakes Fords Deflectors/ groynes/croys	Major	Intermediate	Minor	
Is channel obviously realigned? N Is channel obviously over-deepened? N	o △ Yes, <33% o o □ Yes, <33% o ves, <33% o	of site	≥33% of ≥33% of ≥33% of	site 🔲	

Pool -1 Riple - 11

SITE REF.	RIVER HA	BITA	T SUI	RVEY	: TEN	N SPC	T-CH	IECK	s	Pag	je 2 o	f 4
Spot-check 1 is at: upstream en	d 🔲 do	wnstrea	m end	P	of	site (tie	ck one	box)				A
E PHYSICAL ATTRIBUTI	E S (to be assessed a	icross c	hanne	l withi	י חור ר	vide tra	ansect)				1	V
When boxes 'bordered', only o	ne entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Rîno	g EC o	SC if	compe	sed of	sandy	substi	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC,	SP, WP, GA, BR, RR, TD, FA, BI	BE	EA	BE	BF	30	130	RE	30	FA	FA	
Bank modification(s) NK, NO, F	tS, RI, PC(B), BM, EM	NO	No	No	W	NO	10	WO	NJ	NO	NO	line:
Marginal & bank feature(s) พง, พ	o, EC, SC, PB, VP, SB, VS, NB	GU	20	NO	No	No	No	No	No	V5	V5	
CHANNEL				GP- ri	ng eith	ME	3011	redon	ninant.			
Channel substrate NV, BE, BO, CO,	GP, SA, SI, CL, PE, EA, AR	BO	30	BE	OG	BE	Ro	BE	0	(0)	(0)	
Flow-type NV, FF, CH, BW, UW, CF,	RP, UP, SM, NP, DR	RP	39	51	BW	RP	RP	UP	NP	NP	NP	
Channel modification(s) NK, N	O, CV, RS, RI, DA, FO	No	NO	No	NO	No	NO	No	NO	No	No	5
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	No	No	NO	TB	NO	W	FS	NO	00	No	pot-
For braided rivers only: numb	er of sub-channels	0	0	0	0	0	0	0	0	0	0	chec
RIGHT BANK			Rin	g EC o	r SC if	compo	osed of	f sandy	subst	rate		Enter channel substrate(s) not occurring a spot-checks but present in >1% of whole
Material NV, BE, BO, CO, GS, EA, PE, CL, CC,	SP, WP, GA, BR, RR, TD, FA, BI	EA	5A	CO	Co	PE	PE	80	BE	EA	BO	ut pr
Bank modification(s) NK, NO, R	S, RI, PC(B), BM, EM	NO	19	No	00	NO	W	00)	100	NO	No	esen
Vlarginal & bank feature(s) NV, N), EC, SC, PB, VP, SB, VS, NB	No	NO	NO	10	NO	IVO	No	NO	ON	NO	E S
BANKTOP LAND-USE	AND VEGETATION	ON ST	RUCT	URE (to be a	sessed	over a	10m w	ide trar	isect)		>1%
and-use: choose one from B	L, BP, CW, CP, SH,	or, w	L, MH,	AW, C	W, RP	, IG, T	H, RD,	SU, TL	, IL, P	G, NV		of w
AND-USE WITHIN 5m OF LEFT B	ANKTOP	54	SH	CA	BL	31	181	BL	3/_	BL	WL.	hole
EFT BANKTOP (structure within	lm) B/U/S/C/NV	514	5	U	5	C	C	.C	C	6	V	as pr site.
EFT DANIK FACE (structure)	B/U/S/C/NV	Ũ	()	U	U	V	()	B	B	U	V	edor
EFT DAINK-PACE (SUUCIUIE)		0	6	9	5.	5	S	B	3	B	0	as predominant e site.
	B/U/S/C/NV		0		11					6	_	2
RIGHT BANK-FACE (structure)			5	J	5	5	C	C	()	5	5	=
IGHT BANK-FACE (structure) IGHT BANKTOP (structure within	1 m) B/U/S/C/NV	C	5 S#	J TH	S	5	C 31	CBL	BP	S RP	5 N	⋽.
IGHT BANK-FACE (structure) IGHT BANKTOP (structure within	1m) B/U/S/C/NV BANKTOP	C SA	0.1	7 1 1	S	5 5#	91	C 3L	B. H.A.	S RP	5 5 N	5
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within AND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO	1m) B/U/S/C/NV BANKTOP	C SA	0.1	TH TWISE I	\$ TW	5 5#		SL	B. H.A.	S RP	No. of Contract	5
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within AND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV)	1m) B/U/S/C/NV BANKTOP		0.1	TH TH	\$ 144 V	5 5#		SL 31/	B. H.A.	S RP	(not vis	5
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens	1m) B/U/S/C/NV BANKTOP	C SM essed ov	0.1	TH Wide t	S TH	5 5#		C BL	B. H.A.	RP V	No. of Contract	5
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs	n 1m) B/U/S/C/NV BANKTOP DN TYPES (to be as		0.1		\$ 144 V	5 5#		C SL V	B. H.A.	S RP	(not vis	5
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within AND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATIO None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr	n 1m) B/U/S/C/NV BANKTOP DN TYPES (to be as		0.1	TH Wide t	S TW	5 5#		C SL V	B. H.A.	S RP	(not vis	5
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within AND-USE WITHIN 5m OF RIGHT CHANNEL VEGETATION (Company) or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr	n 1m) B/U/S/C/NV BANKTOP DN TYPES (to be as		0.1		S TW	5 5#		C 3L V	B. H.A.	S RP	(not vis)	5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
elight Bank-Face (structure) elight BanktOP (structure within and-USE WITHIN 5m OF RIGHT CHANNEL VEGETATIO done () or Not Visible (NV) iverworts/mosses/lichens mergent broad-leaved herbs mergent reeds/sedges/rushes/gr loating-leaved (rooted) ree-floating	n 1m) B/U/S/C/NV BANKTOP DN TYPES (to be as		0.1	J TH Wide t	\$ 114 \\	5 5#		C 3L V	B. H.A.	S RP	(not vis)	5
PIGHT BANK-FACE (structure) PIGHT BANKTOP (structure within AND-USE WITHIN 5m OF RIGHT CHANNEL VEGETATION (V) or Not Visible (NV) iverworts/mosses/lichens mergent broad-leaved herbs mergent reeds/sedges/rushes/gr loating-leaved (rooted) ree-floating mphibious	n 1m) B/U/S/C/NV BANKTOP DN TYPES (to be as		0.1	J TH I wide I	14 V	5 5#		C 3L V	B. H.A.	RP V	(not vis)	5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
RIGHT BANK-FACE (structure) RIGHT BANKTOP (structure within AND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved	n 1m) B/U/S/C/NV BANKTOP DN TYPES (to be as		0.1	J TH Wide t	\$ 144 V	5 5#		C 3L	B. H.A.	RP V	(not vis)	5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure) RIGHT BANK-FACE (structure within LAND-USE WITHIN 5m OF RIGHT G CHANNEL VEGETATION None () or Not Visible (NV) Liverworts/mosses/lichens Emergent broad-leaved herbs Emergent reeds/sedges/rushes/gr Floating-leaved (rooted) Free-floating Amphibious Submerged broad-leaved Submerged linear-leaved Submerged fine-leaved	n 1m) B/U/S/C/NV BANKTOP DN TYPES (to be as		0.1	TH Mide t	\$ 144 V	5 5#		C &L	B. H.A.	RP V	(not vis)	5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

SITE REF.	RIVER HA	BITAT	SURVE	Y : 500m SWEEP-UP	Page 3	3 of 4
H LAND-USE WITH	IN 50m OF BA	NKTOP	Use	√ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (-	V	V	Natural open water (OW)		
Broadleaf/mixed plantation ((BP)			Rough/unimproved grassland/pasture (RP)		
Coniferous woodland (semi-	natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)				Tall herb/rank vegetation (TH)	U	1
Scrub & shrubs (SH)		V	~	Rock, scree or sand dunes (RD)	11	
Orchard (OR)				Suburban/urban development (SU)		
Wetland (e.g. bog, marsh, fe	en) (WL)			Tilled land (TL)		
Moorland/heath (MH)		-	-	Irrigated land (IL)	-	
Artificial open water (AW)				Parkland or gardens (PG)		3 01
				Not visible (NV)		
T BANK PROFILES	Use 🗸 (prese	nt) or É (;	, 3396 ba	nklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	Z		V	Resectioned (reprofiled)		
Vertical with toe	·m			Reinforced - whole		
Steep (>45°)	\	V	F	Reinforced - top only		
Gentle		v	-	Reinforced - toe only		
Composite		1		Artificial two-stage		0.00000
Natural berm		-		Breaked bank		
Tracarai beriii			-	Poached bank		
				Embanked		
				Set-back embankment		
1 EXTENT OF TREES	and associat	ED FEAT	URES	*record even if <1%		
TREES (tick one b		Diaht		ASSOCIATED FEATURES (tick one box per feat		206)
None	Left	Right		Shading of channel Preser	IL E (\$5.	370)
Isolated/scattered	H	H		*Overhanging boughs		
Regularly spaced, si	ingle 🗍	ň.		*Exposed bankside roots		
Occasional clumps	ingle G	Ħ.		*Underwater tree roots		
A STATE OF THE STA	3	8				
Semi-continuous				Fallen trees		
Continuous K EXTENT OF CHAI	NNEL AND BA	NIK FEAT	IDES	(tick one box for each feature) *record even If	<100	
	-	resent E(33%)
*Free fall flow				Exposed bedrock		3
Chute flow				Exposed boulders		
Broken standing waves				Vegetated bedrock/boulders		
Unbroken standing waves				Unvegetated mid-channel bar(s)		
Rippled flow				Vegetated mid-channel bar(s)		
*Upwelling			n	Mature island(s)	ה ה	7
Smooth flow	F		ă l	Unvegetated side bar(s)	7 7	5
No perceptible flow		8	7	Unvegetated mid-channel bar(s) Vegetated mid-channel bar(s) Mature island(s) Unvegetated side bar(s) Vegetated side bar(s) Unvegetated point bar(s) Vegetated point bar(s) *Unvegetated silt deposit(s)		1
No flow (dry)		100		Upwagetated point bar(c)		-
		H		Unvegetated point bar(s)		=
Marginal deadwater		H		Vegetated point bar(s)	-	-
Eroding cliff(s)		H			_	_
Stable cliff(s)	X	U			1	
				*Discrete unvegetated gravel deposit(s)		

SITE REF.	RIVE	R HABI	TAT SURVEY : DI	MENSION	S AND INFL	UENCES	Page 4	of
CHANNEL DIM	iension!	(to be m	easured at one location		ht uniform sect			
EFT BANK			CHANNEL		RIGHT BANK			
anktop height (m)		0.5	Bankfull width (m)	20	Banktop heig	ht (m)		1
s banktop height also neight? (Y or N)	bankfull	Y	Water width (m)	10	Is banktop he height? (Y or		inkfull	J
mbanked height (m)		O	Water depth (m)	0,5	Embanked he	eight (m)	(0
trashline lower than	banktop, ir	ndicate: h	neight above water (m)	= 8 v	vidth from ban	to bank (m	n) = 0°	
ed material at site is:		con	solidated 🔎 und	consolidated	l (loose)		unknown	
ocation of measurem	ents is: rif	fle,∕⊠ o	ther 🔲 (state)					
M FEATURES OF	SPECIAL	INTERES	iT Use √or E (≥ 33	% length) *	record even if	1%		
None Braided channels Side channel(s) 'Natural waterfall(s) > 5r 'Natural waterfall(s) < 5r Natural cascade(s)	m high 🗌	*Debris *Leafy of Fringing	lebris	Backwater(s Floodplain b Water mean Fen(s) Bog(s) Wet woodla	ooulder deposits dow(s)	Flus Nat ope	rsh(es) h(es) cural en water ners (state)	
N CHOKED CHA	NNEL (
s 33% or more of the	channel ch	oked with	vegetation?	No 🔼		Yes		
Major impacts: landfii mining - quarrying - over cidence of recent in gravel extraction - oth	RACTERII II - tipping - erdeepening managem er (please s	litter - sew o - afforesta eent: dre pecify)		t - abstraction nent - silting - weed cutti	add others and a management of the same of	oad - rail - in hydroelectric ent - river re	ndustry - ho	usi
Observations Q ALDERS (tick of Alders? None	one box in Present QUALITY	n each o	OL (/ boxes to co	os) - reco d Alders? N onfirm ch	ord even if <1% lone A Pre ecks)	esent 📮	Extensive	
Have you completed col Have you recorded in se Have you given an accur Have you stated whethe	ten spot-che umn 11 of s ction C the e rate (alphane r spot-check your spot-cl	ecks and ma ection G (a number of umeric) gri 1 is at the neck and sv	nannel? ade entries in all boxes in nd E if appropriate) on p riffles, pools and point be d reference for spot-chec upstream or downstrean veep-up responses with t	age 2? ars (even if 0) ks 1, 6 and e n end of the s	on page 1? nd of site (page 1 site (top of page	2)?		

RIVER HABITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS
Site Number: Site Number: Site Number: Site Number: Site Reference: 10406 †6,24 Are adverse conditions affecting survey? No Yes Spot-check 1 Grid Ref: 1211984, †2 If yes, state
B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box only)
(tick one box only) Shallow vee
Riffle(s) Pool(s) Unvegetated point bar(s) Vegetated point bar(s)
D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)
If none, tick box
Is channel obviously realigned? No ☐ Yes, <33% of site ☐ ≥33% of site ☐ Is channel obviously over-deepened? No ☐ Yes, <33% of site ☐ ≥33% of

aigh - 1/1 Pool - 111

SITE REF.	RIVER HA	BITA	T SUI	RVEY	TEN	N SPC	T-CI	IECK	S	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream en	nd 🔲 dov	wnstrea	m end	D	of	site (ti	ck one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	cross c	hannel	withir	ı lm v	ride tra	ansect)					
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Rinc	EC or	SC if o	compc	ised of	sandy	subst	ale		ties in
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WP, GA, BR, RR, TD, FA, BI	EA	FA	EA	EA	EA	RR	RR	CC	RR	BY	1000.
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	NO	00	ON	OG	No	RI	RI	RI	RI	Do	ps/
Marginal & bank feature(s) NV, N	O, EC, SC, PB, VP, SB, VS, NB	53	15	NS	NO	ND	No	NO	NO	00	No	
CHANNEL				GP- ri	ng eith	ier G c	ir P	E CO	imant		Co	
Channel substrate NV, BE, BO, CO	, GP, SA, SI, CL, PE, EA, AR	BA	SA	51	BE	SA	BE	SA	BE	0	CO	
Flow-type NV, FF, CH, BW, UW, CF	, RP, UP, SM, NP, DR	NP	NP	NP	RT	NP	XOR	NA	NP	NP	NP	
Channel modification(s) NK,	NO, CV, RS, RI, DA, FO	NO	NO	No	No	No	20	NO	ND	NO	NO	S E
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	NO	NO	NO	RB	EB	EB	EB	EB	EB	EB	nter
For braided rivers only: numl	per of sub-channels	10	0	0	6	0	0	0	0	0	0	char
RIGHT BANK			Rin	g EC o	SC if	comp	osed o	sand	subst	rate		nnel ks bu
Material NV, BE, BO, CO, GS, EA, PE, CL, CC		BR	王从	KR	RR	EΔ	BE	BR	BR	KK	28	subs
Bank modification(s) NK, NO,		RI	NO	AI	RI	00	NO	RI	AI	KI	RI	trate
Marginal & bank feature(s) NV, N	O, EC, SC, PB, VP, SB, VS, NB	NO	NO	ND	V5	No	NO	NO	No	No	NO	t in :
F BANKTOP LAND-USE	AND VEGETATIO	ON ST	RUCT	URE (o be as	sessed	over a	10m w	ide trai	nsect)		ot o
Land-use: choose one from I	BL, BP, CW, CP, SH,	OR, WI	L, MH,	AW, 0	W, RP	, IG, T	H, RD,	SU, TI	., IL, P	G, NV		Enter channel substrate(s) not occurring as predominant in spot-checks but present in >1% of whole site.
LAND-USE WITHIN 5m OF LEFT	BANKTOP	SH	SH	BL	BL	BL	RP	RP	RP	50	stt	ng a
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	5	5	5	5	5	5	5	B	B	5	s pre site.
LEFT BANK-FACE (structure)	B/U/S/C/NV	5	5	6	5	5	S	C	5	5	5	dom
RIGHT BANK-FACE (structure)	B/U/S/C/NV	5	5	5	6	C	S	C	U	5	5	inan
RIGHT BANKTOP (structure with	in 1m) B/U/S/C/NV	0	5	V	9	5	5	C	V	U	5	tin
LAND-USE WITHIN 5m OF RIGHT	T BANKTOP	RP	SH	23	RP	RP	RP	RP	RP	50	SH	
G CHANNEL VEGETATION	ON TYPES (to be ass	essed ov	era 10n	r wide t	ansect.	use E (33%4	rea), 🗸	(presen	t) or NV	(not visi	bie)
None (✓) or Not Visible (NV)	photology	Luce 11					M					
Liverworts/mosses/lichens		L	V	V	L	V	V	1	6	V	4	
Emergent broad-leaved herbs					N N	Pre	6	L	6		4	
Emergent reeds/sedges/rushes/g	rasses/horsetails		elel.							V	L	
Floating-leaved (rooted)	mbledstock		gov.						311820			recell in
Free-floating	West Francis Holy						U			pale.		0.0
Amphibious	12										SUM DES	
Submerged broad-leaved	40,000,000						ä				100 100	MARK TO
Submerged linear-leaved	print d									and shift		Wall.
Submerged fine-leaved	figured mesq											
Filamentous algae		V	V	V	L		V	V	1	(g)		
Use end column for overall assess	ment over 500m, inclu	ıdina tv		occur	ina in s	pot-ch	ecks (u	se ✓. E	or NV		The second	

S W

SITE REF.	RIVER HAB	TATE	SURVE	Y : 500m SWEEP-UP	Page 3	of 4
H LAND-USE WITHIN	N 50m OF BAN	NKTOP	Use	/ (present) or E (≥ 33% bankleng(h)		
		L	R		L	R
Broadleaf/mixed woodland (se	emi-natural) (BL)	V		Natural open water (OW)		
Broadleaf/mixed plantation (E	BP)			Rough/unimproved grassland/pasture (RP)	B	E
Coniferous woodland (semi-n	atural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)			16.31	Tall herb/rank vegetation (TH)		
Scrub & shrubs (SH)	77	V	-	Rock, scree or sand dunes (RD)		
Orchard (OR)	the sur of		[Cat.]	Suburban/urban development (SU)	V	1
Wetland (e.g. bog, marsh, fer	n) (WL)		7	Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)	and the same of	Tarita
I SELL FALSE		ALLO	70	Not visible (NV)		
BANK PROFILES	Use ✓ (presen	t) or E (₃ 33% ba	nklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	m 7m	F	E	Resectioned (reprofiled)		
Vertical with toe	····	1	V	Reinforced - whole	4	L
Steep (>45°)	\www.		~	Reinforced - top only	1	2
Gentle				Reinforced - toe only	1 - 2 - 1	
Composite	~~~~			Artificial two-stage		
Natural berm				Poached bank Tunny		
W. 197 18 10	THE LESS THE P	1,111	ST VEIR	Embanked —————		
1 1 10 10 19 19 19				Set-back embankment		
1 EXTENT OF TREES A	nd associat	ED FEAT	URES	*record even if <1%		
TREES (tick one bo			3 10000	ASSOCIATED FEATURES (tick one box per fea	iture)	
	Left F	Right		None Prese	ent E (≥3:	3%)
None	Ц	y		Shading of channel	<u>×</u>	
Isolated/scattered	닏	H.		*Overhanging boughs		
Regularly spaced, sir	ngle 🖳	Ц.		*Exposed bankside roots	X	
Occasional clumps		L		*Underwater tree roots		
Semi-continuous	y			Fallen trees		
Continuous				Large woody debris		
K EXTENT OF CHAN				(tick one box for each feature) record even i		220/
*Free fall flow	None Pr	resent E(≥33%0) □	None Pr Exposed bedrock	resent E(≽	35%
Chute flow	2	ñ	ō	Exposed boulders	र्वा ह	1
Broken standing waves	R	ō	ā	Vegetated bedrock/boulders		1
Unbroken standing waves		Ø	ō	Unvegetated mid-channel bar(s)		5
Rippled flow	n n	Z	ō	Vegetated mid-channel bar(s)	ā i	5
*Upwelling	No.	ō		Vegetated mid-channel bar(s) Mature island(s)		5
Smooth flow	n	R	ō	Unvegetated side bar(s)		5
No perceptible flow				Vegetated side bar(s)		1
No flow (dry)	Z	n -	n	Unvegetated point bar(s)		1
Marginal deadwater	î	丙	T I	Vegetated point bar(s)	n n	1
Eroding cliff(s)	Z	7	TV	*Unvegetated silt deposit(s)	Z i	1
Stable cliff(s)		T .		*Discrete unvegetated sand deposit(s)		-
Stable clin(s)	_	_	-	*Discrete univegetated gravel deposit(s)		

SITE REF.	RIVER	R HABIT	TAT SURV	EY : DIN	IENSION:	S AND I	NFLUENC	ES	Page 4	of 4
L CHANNEL DIME	ensions									
LEFT BANK			CHANNEL			RIGHT B	ANK			
Banktop height (m)		1,5	Bankfull wie	dth (m)	15	Banktop	height (m)		4	,5
Is banktop height also b height? (Y or N)	ankfull	N	Water widt	h (m)	1908		p height al	so bar	kfull	N
Embanked height (m)	1	198	Water dept	th (m)	0,2	Embanke	ed height (r	n)		2
f trashline lower than b	anktop, inc		eight above	water (m)	************************	ridth from	bank to ba	nk (m)		
Bed material at site is:		cons	solidated 🗟	1 unco	nsolidated	(loose) [3	L	ınknown	
ocation of measureme	nts is: riffl	e,⊠ ot	her 🖵 (state)						
M FEATURES OF S	SPECIAL I	nteres	T Use /	or E (≽ 339	6 length) *i	record eve	n If <1%			
None Braided channels		Very larg	ge boulders (>' dam(s)		Backwater(s) Floodplain b		osits	Mars	A 20	
Side channel(s)		*Leafy de	ebris		Water mead	low(s)		Natu	ıral	
*Natural waterfall(s) > 5m	high	Fringing	reed-bank(s)		en(s)				water	
*Natural waterfall(s) < 5m		Quaking	7		Bog(s)			Othe	ers (state)	
75	nign				Wet woodla	nd(s)				
Natural cascade(s)	(A) (F2)	*Sink ho			TV CT VVOCGIII	na(s)				2000
N CHOKED CHAN		ck one bo								
s 33% or more of the c	hannel cho	ked with	vegetation?		No A		Yes			
d notable nuis	ance pl	ant spi	ECIES L	lse√or E (≥ 33% leng	jth) -n	cord even if	<1%		
		ankface	banktop to 5	50m			bankface	bank	top to 50r	m
None *Giant ho	gweed			*Hin	nalayan bal	sam				
*Japanese	knotweed			*Oth	ner (state)					
P OVERALL CHAR	ACTERIS	TICS	(Circle ap	propriate	words, a	idd othe	rs as nece			
Major impacts: landfill mining - quarrying - over Evidence of recent m	deepening	- afforestat	tion - fisheries	manageme	ent - silting -	waterlogg	ing - hydroe	lectric	power	
gravel extraction - other			aging - bank	mowing -	weed cutui	ig - ciliai	icement - n	ver rei	iabilitatio	
Animals: otter-mink	- water vol	e - kingfish	ner - dipper -	grey wagta	il - sand ma	rtin - hero	n - dragonfli	es/dar	nselflies	
Other significant ob observations	servation	s: if nec	essary use se	parate she	et to descri	be overall	characteris	tics an	d relevan	t
Q ALDERS (tick or						rd even if <	1%			
Alders? None 📮 Pro	esent 📮	Extensi	ve 🔍	*Diseased	Alders? No	one 🗸	Present [7	Extensive	Ę
r Field Survey (QUALITY	CONTR	OL (🗸 bo:	kes to co	nfirm che	cks)				
Have you taken at least tw and major/intermediate st Have you completed all te Have you completed colu Have you recorded in sect Have you given an accura	ructures acr n spot-chec nn 11 of section C the nu	oss the cha ks and ma ction G (ar umber of ri	annel? de entries in a nd E if appropi iffles, pools an	ll boxes in E riate) on pag d point bars	& F on pag ge 2? (even if 0)	e 2? on page 1?		y weirs	s/ sluices	
Have you stated whether:										
Have you cross-checked you	our spot-che	ck and sw	eep-up respor	ises with the	e channel m	odification	indicators			Г

RIVER HAB	ITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS	
Site Number: leave blank if new site Site Reference: Spot-check 1 Grid Ref: 31 4136, 90 Spot-check 6 Grid Ref: 31 4247, 25 End of site Grid Ref: 326 698, 99 Reach Reference: River name: Tamage Date 02 /07/2015 Time: 116.09	Is the site part of a river or an artificial channel? River Artificial Artificial Are adverse conditions affecting survey? No Yes If yes, state
Surveyor name: Davide Furnandus	Control of the Contro
Accredited Surveyor code: LB100	When options shown with 'shadow boxes', tick one box only
	LEFT banks determined by facing downstream RIGHT (within the horizon limit) (tick one box only)
(tick one box only) shallow vee deep vee postinct flat valley bottom? No NUMBER OF RIFFLES, POOLS A	
Riffle(s)	Unvegetated point bar(s)
Pool(s)	2 Vegetated point bar(s) 2
D ARTIFICIAL FEATURES (indicate total n	number of occurrences of each category within the 500m site)
If none, tick box	Minor Major Intermediate Minor Outfalls/ intakes
Is channel obviously realigned? No Is channel obviously over-deepened? No Is water impounded by weir/dam? No	

Rippli - 11/1/11/11

SITE REF.	RIVER HA	BITA	T SUI	RVEY	: TEN	N SPC	T-CH	IECK	S	Pag	ge 2 of	f 4
Spot-check 1 is at: upstream er	nd 🔲 do	wnstrea	m end	Ø	of	site (ti	ck one l	oox)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	cross c	hanne	l within	a 1 m y	vide tr	ansect)		Trans.			
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Ring	g EC o	SC if	compo	sed of	sandy	subst	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WP, GA, BR, RR, TD, FA, BI	BE	130	RD	BA	EN	RE	BE	Ro	EN	EX	-
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	No	No	NO	PC	NO	No	00	No	NO	NO	
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	NO	1)0	DON	No	No	GU	NO	NO	NO	ND	100
CHANNEL				GP- ri	ng eith	ner G c	or P if p	redon	iinant			W
Channel substrate NV, BE, BO, CO), GP, SA, SI, CL, PE, EA, AR	Bo	BO	Bo	SA	30	30	30	CO	Co	Co	51
Flow-type NV, FF, CH, BW, UW, CF	, RP, UP, SM, NP, DR	51	RP	RP	MP	NP	UW	BP	UW	511	5h	4
Channel modification(s) NK,	NO, CV, RS, RI, DA, FO	100	100	NO	NO	20	NO	No	No	NO	NO	2 -
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	00	No	NP	No	ND	No	NO	N)	20	NO	nter oot-c
For braided rivers only: numl	ber of sub-channels	0	0	0)	0	10	0	0	0	0	char
RIGHT BANK			Rm	g EC c	r SC II	comp	osed of	sand	subst	mile		s bu
Material NV, BE, BO, CO, GS, EA, PE, CL, CC		BF	先	45	BO	ERX	Bo	SE	EA	30	BO	t pre
Bank modification(s) NK, NO,		100	NO	AC	1) 10	NO	NO.	No	VO	NO	ho	rate
Marginal & bank feature(s) NV, N	IO, EC, SC, PB, VP, SB, VS, NB	190	NU	100	10	NU	NO	1))	ho	No	NO	> U (S)
F BANKTOP LAND-USE	AND VEGETATION	ON ST	RUCT	URE	to be a	ssessed	over a	10m w	de trai	(selet)		1% c
Land-use: choose one from	BL, BP, CW, CP, SH,	OR, W	L, MH,	AW, 0	OW, RE	, IG, T	H, RD,	SU, TI	L, IL, P	G, NV		Enter channel substrate(s) not occurring as predominant in spot-checks but present in >1% of whole site.
LAND-USE WITHIN 5m OF LEFT	BANKTOP	BI	弘	SA	RD	SH	BL	32	BL	BL	5H	ole s
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	5	WE	9	U	5	5	S	5	C	C	ite.
LEFT BANK-FACE (structure)	B/U/S/C/NV	B	V	5	0	5	B	B	5	5	S	dom
RIGHT BANK-FACE (structure)	B/U/S/C/NV	B	B	U	U	5	5	5	5	U	U	inan
RIGHT BANKTOP (structure with	in 1m) B/U/S/C/NV	5	5	U	5	5	C	5	C	5	5	5
LAND-USE WITHIN 5m OF RIGHT	T BANKTOP	BL	BL	TH	SH	SA	RP	BP	RT	RP	RP	
G CHANNEL VEGETATI	ON TYPES (to be as	sessed or	ver a 101	m wide	ransect.	use E (≥ 33% a	res), 🗸	(presen	t) or NV	(not vis	ble)
None (/) or Not Visible (NV)			T	T	T		TT			I		
Liverworts/mosses/lichens		-	-	1)	6	1	t	V	1	1	
Emergent broad-leaved herbs									V			
Emergent reeds/sedges/rushes/g	grasses/horsetails		Maria.				4	1	L			
Floating-leaved (rooted)				1/						L	L	
Free-floating	rom montation			-								
Amphibious	THE RESIDENCE IN		1				14					TIES .
Submerged broad-leaved												
Submerged linear-leaved											1000	017
Submerged fine-leaved	glinter's											
Filamentous algae			5									

Podulo sur Person M tratal de un Food

River Habitat Survey Manual: 2003 version

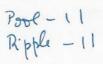
2.6

Use end column for overall assessment over 500m, including types not occurring in spot-checks (use \checkmark , E or NV)

SITE REF.	RIVER HAE	Page 3 of 4				
H LAND-USE WITHIN	N 50m OF BAN	KTOP	Use	√ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (se	emi-natural) (BL)	レ	V	Natural open water (OW)		
Broadleaf/mixed plantation (F	BP)			Rough/unimproved grassland/pasture (RP)		L
Coniferous woodland (semi-n	natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)	M Le Blin			Tall herb/rank vegetation (TH)	V	L
Scrub & shrubs (SH)		1	~	Rock, scree or sand dunes (RD)		1 100
Orchard (OR)				Suburban/urban development (SU)		1
Wetland (e.g. bog, marsh, fer	n) (WL)			Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)		
				Not visible (NV)		
I BANK PROFILES	Use 🗸 (presen	t) or E. (33% ba	nklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	m Zm	0	1	Resectioned (reprofiled)		
Vertical with toe	\m	4	~	Reinforced - whole		
Steep (>45°)	\			Reinforced - top only		
Gentle		1 -		Reinforced - toe only		
Composite		L	,	Artificial two-stage		
	~~ww	_	-		1	100
Natural berm	~			Poached bank howw		
				Embanked ———		
				Set-back embankment		
J EXTENT OF TREES A	ND ASSOCIAT	ED FEAT	URES	*record even if <1%		
TREES (tick one bo				ASSOCIATED FEATURES (tick one box per fea		20/1
Mana	Left F	Right		None Prese	nt E (_≥ 3	3%)
None		4		Shading of channel		110
Isolated/scattered	(S)	7		*Overhanging boughs *Exposed bankside roots	_	
Regularly spaced, sir Occasional clumps	igle 🛄	N N		*Underwater tree roots		1
Semi-continuous	H			Fallen trees	_	í
Continuous	ň	ň		Large woody debris		1
K EXTENT OF CHAN	INEL AND BAD	IK FEAT	JRES .	(tick one box for each feature) *record even if	<1%	NO.
		resent E(esent E(≥33%)
*Free fall flow				Exposed bedrock		
Chute flow	0	Ú		Exposed boulders		
Broken standing waves		4		Vegetated bedrock/boulders	4	
Unbroken standing waves				Unvegetated mid-channel bar(s)		
Rippled flow				Vegetated mid-channel bar(s)		
	Ō,		Table 1			
*Upwelling			ă	Mature island(s)		
*Upwelling Smooth flow				Mature island(s) Unvegetated side bar(s)		3
				Mature island(s) Unvegetated side bar(s)		
Smooth flow No perceptible flow	Book			Vegetated side bar(s)	Z (
Smooth flow No perceptible flow No flow (dry)	Sboods			Vegetated side bar(s) Unvegetated point bar(s)		
Smooth flow No perceptible flow No flow (dry) Marginal deadwater	SEBOOBO			Vegetated side bar(s) Unvegetated point bar(s) Vegetated point bar(s)	Z (
Smooth flow No perceptible flow No flow (dry)				Vegetated side bar(s) Unvegetated point bar(s)		

SITE REF.	RIVER	HABIT	AT SURV	/EY : DIN	MENSION	S AND INF	LUENCE	S Page	e 4 of 4
L CHANNEL DIME	nsions				on a straig	ht uniform sec	tion, prefe	rably acro	ss a riffle)
LEFT BANK			CHANNEL			RIGHT BANK	(
Banktop height (m)		0,6	Bankfull w	/idth (m)	12	Banktop hei	ght (m)		0,3
Is banktop height also b height? (Y or N)	100000000000000000000000000000000000000	N	Water wid	ith (m)	6	Is banktop h height? (Y o		bankfull	N
Embanked height (m)		1.5	Water de	oth (m)	0.4	Embanked h	eight (m)		1,2
If trashline lower than b	anktop, ind	icate: h	eight above	water (m)	= 0 v	width from bar	k to bank	(m) =	0
Bed material at site is:		cons	olidated ,	unco	onsolidated	l (loose)		unknov	vn 🛄
Location of measuremen	nts is: riffle	ot ot	her 🖵 (stat	e)					
M FEATURES OF S	PECIAL II	NTERES	l Use i	or E (≥ 33°	% length) *	record even if	<1%		
None Braided channels Side channel(s) *Natural waterfall(s) > 5m *Natural waterfall(s) < 5m Natural cascade(s)	high 🗌	*Debris of *Leafy de Fringing Quaking *Sink ho	ebris reed-bank(s bank(s) le(s)		Backwater(s Floodplain b Water mead Fen(s) Bog(s) Wet woodla	ooulder deposits dow(s)	F	Marsh(es) Flush(es) Natural Open water Others (stat	
N CHOKED CHAN	INEL (tic	k one bo	x)						
Is 33% or more of the c	hannel cho	ked with	vegetation	1	No 🗵		Yes		
o notable nuis	ANCE PLA	ant spi	CIES	Use √ or E	(.> 33% len	gth) *recor	d even if <1	%	
None *Giant ho *Japanese P OVERALL CHAR Major impacts: landfill	gweed knotweed ACTERIST	TICS	NA SECTION AND ASSESSMENT	*Hir *Otl ppropriate	e words,	Isam ACarcia add others a	is necess	ary)	3
mining - quarrying - over Evidence of recent m gravel extraction - other Animals: otter - mink Other significant ob observations	deepening - anageme (please spe - water vole	afforestat nt: dred ecify) e-kingfish	ion - fisherie dging - ban ner - dipper	s managem k mowing - - grey wagta	ent - silting weed cutti ail - sand ma	- waterlogging ing - enhancen artin - heron -	- hydroelec nent - rive Iragonflies	tric power r rehabilita /damselflie	ation -
Q ALDERS (tick or	e box in	each of	the two	categories	S) *reco	ord even if <1%			
*Alders? None 🔲 Pro	esent 🗖	Extensi	ve 🔲	*Diseased	d Alders? N	lone 🛣 Pr	esent 🔲	Exten	sive 📮
R FIELD SURVEY (QUALITY (CONTR	OL (/ b	oxes to co	nfirm ch	ecks)			
Have you taken at least tw and major/intermediate st Have you completed all te Have you completed colur Have you recorded in sect Have you given an accural Have you stated whether you given on page 2 of the spe	ructures acro n spot-check nn 11 of section C the nu- te (alphanum spot-check 1 our spot-che	oss the cha ks and ma tion G (ar imber of ri neric) grid is at the c ck and sw	annel? de entries in nd E if appro iffles, pools a reference fo upstream or	all boxes in I priate) on pa and point bar or spot-check downstream	E & F on page 2? ge 2? s (even if 0) s 1, 6 and er end of the s	ge 2? on page 1? nd of site (page site (top of page	1)?	weirs/ sluice	es विकायनाया वि

RIVER HABITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS
Site Number: Color Color
Accredited Surveyor code: LB100 LEFT banks determined by facing downstream RIGHT
B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box only)
shallow vee
C NUMBER OF RIFFLES, POOLS AND POINT BARS (enter total number in boxes)
Riffle(s) Pool(s) Unvegetated point bar(s) Vegetated point bar(s)
D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)
If none, tick box Bridges Other - state Major Intermediate Minor Outfalls/ intakes Outfalls/ intakes Deflectors/ groyries/croys Other - state
Is channel obviously realigned? No ☐ Yes, <33% of site ☐ ≥33% of site ☐ Is channel obviously over-deepened? No ☐ Yes, <33% of site ☐ ≥33% of



SITE REF.		RIVER HA	BITA	T SUI	RVEY	: TEN	N SP(OT-CH	IECK	S	Pag	je 2 o	f 4
Spot-check 1 is at: upstream er	nd 🔲	do	wnstrea	m end	4	of	site (ti	ck one	box)				
E PHYSICAL ATTRIBUT	ES (to	be assessed a	cross c	hannel	vyithii	i Im w	vide tr	ansect)					
When boxes 'bordered', only	one er	ntry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK				Ring	j EC oi	· SC if o	compo	sed of	sandy	substi	ate		
Material NV, BE, BO, CO, GS, EA, PE, CI, CO	, SP, WP,	GA, BR, RR, TD, FA, BI	BE	3E	BE	BF	BE	EA	CL	EA	EA	EA	0
Bank modification(s) NK, NO,	RS, RI, F	C(B), BM, EM	Vo	No	NO	No	No	NO	NO	NO	OO	No	-
Marginal & bank feature(s) NV, N	O, EC, SC	C, PB, VP, SB, VS, NB	20	No	Do	No	ND	V5	VS	סע	NO	MP	110
CHANNEL					GP- ri	ng eith	ner G (or P if p	redon	ninant		v vesti	
Channel substrate NV, BE, BO, CO	, GP, SA,	SI, CL, PE, EA, AR	BE	80	30	Co	9P	SA	SA	SI	5I	CO	
Flow-type NV, FF, CH, BW, UW, CF	, RP, UF	P, SM, NP, DR	54	51	UP	NP	SPI	511	NP	NP	NP	NP	
Channel modification(s) NK, I	10, CV,	RS, RI, DA, FO	00	10	20	00	100	TOO	DA	NO	00	NO	ST
Channel feature(s) NV, NO, EB,	RO, VR	, MB, VB, MI, TR	EB	\$At	NO	DO	NO	NO	00	NO	20	No	pot-
For braided rivers only: numl	er of	sub-channels	0	0	1	0	0	0	0	0	0	1	chec
RIGHT BANK				STATE OF THE PERSON NAMED IN	g EC o	r SC if	comp	osed o	t sandy	y subst	rate		ks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WP,	GA, BR, RR, TD, FA, BI	36	Bo	BR	EX	EA	KR	EA	EA	BR	RR	ut pi
Bank modification(s) NK, NO,	RS, RI, P	PC(B), BM, EM	00	No	130	- VO	Na	BI	NO	NO	RI	RI	strat
Marginal & bank feature(s) NV, N	O, BC, SC	, PB, VP, SB, VS, NB	NO	No	OG	GU	V5	CU	NO	NO	Ca	29	e(s)
F BANKTOP LAND-USE	AND	VEGETATIO	ON ST	RUCT	URE (to be as	ssessed	over a	10m w	ide tran	isect)		>1%
Land-use: choose one from I	BL, BP	, CW, CP, SH,	or, w	L, MH,	AW, C	W, RP	, IG, T	H, RD,	SU, TI	L, IL, P	G, NV		spot-checks but present in >1% of whole site.
LAND-USE WITHIN 5m OF LEFT	BANKT	ОР	BL	SH	SH	CP	5 H	HT	WL	WL	ML	WL	hole 2
LEFT BANKTOP (structure within	1m)	B/U/S/C/NV	В	B	B	U	5	0	C	5	0	C	site.
LEFT BANK-FACE (structure)		B/U/S/C/NV	В	3	B	5	3	U	炬	U	U	C	don
RIGHT BANK-FACE (structure)		B/U/S/C/NV	U	B	U	U	U	0	C	C	C	C	ninar
RIGHT BANKTOP (structure withi	n 1m)	B/U/S/C/NV	5	B	0	U	11	U	5	5	5	5	i ii
LAND-USE WITHIN 5m OF RIGHT	FBANK	СТОР	BL	BL	TL	PG	PG	HT	RP	RP	THU	TH	
G CHANNEL VEGETATION	т ис	YPES (to be as	essed ov	er a 10n	n wide t	ransect:	use E (33% a	rea), 🗸	(presen	l) or NV	(not visi	ble)
None (✓) or Not Visible (NV)													
Liverworts/mosses/lichens			4	1	V	レ	L	V	V	2		L	
Emergent broad-leaved herbs						15 111							
Emergent reeds/sedges/rushes/g	asses/	horsetails	178		V	-	4	L	L	L	~	2	
Floating-leaved (rooted)						~	L	1	L				-
Free-floating	N.			rei									nist?
Amphibious	- 0											P. STILL	
Submerged broad-leaved													
Submerged linear-leaved		100-10											
Submerged fine-leaved													Dell'
Filamentous algae													79
										1		11 1 2000	1000

SITE REF.	RIVER HAE	ITAT	SURVE	Y: 500m SWEEP-UP	Page	3 of 4
H LAND-USE WITH	N 50m OF BAN	IKTOP	Use	✓ (present) or E (> 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (semi-natural) (BL)	V	V	Natural open water (OW)		
Broadleaf/mixed plantation ((BP)			Rough/unimproved grassland/pasture (RP)		V
Coniferous woodland (semi-	natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)		V	i en-	Tall herb/rank vegetation (TH)		V
Scrub & shrubs (SH)	TRI CLA	V	V	Rock, scree or sand dunes (RD)		
Orchard (OR)			el.	Suburban/urban development (SU)		
Wetland (e.g. bog, marsh, fe	en) (WL)	V		Tilled land (TL)		V
Moorland/heath (MH)				Irrigated land (IL)		1
Artificial open water (AW)				Parkland or gardens (PG)		V
				Not visible (NV)		
BANK PROFILES	Use / (presen		1			
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	Im Cm	V	V	Resectioned (reprofiled)		
Vertical with toe	h,m			Reinforced - whole		
Steep (>45°)	\mm	1/	11	Reinforced - top only		and and
Gentle		1/	1/	Reinforced - toe only		
Composite			-	Artificial two-stage		
Natural berm	~~~	* /				
Natural berm		0	L	Poached bank		-
				Embanked		
				Set-back embankment		
J EXTENT OF TREES	and associat	ED FEAT	URES	*record even if <1%		
TREES (tick one b		NI - L.A.		ASSOCIATED FEATURES (tick one box per fea	iture)	≥33%)
None	Left 1	Right		Shading of channel None Prese	1 (7
Name of the second		H				Ħ.
Isolated/scattered		7		Overnanging bodgits		
Regularly spaced, s	F 10	8		*Exposed bankside roots		7
Occasional clumps		×		*Underwater tree roots		7
Semi-continuous	3			Fallen trees		
Continuous K EXTENT OF CHA	NINEL AND BAL	AR EEVI	TIDES	(tick one box for each feature) *record even	f < 19h	
K EXILITION CHA		resent E			resent E	(≽33%)
*Free fall flow				Exposed bedrock	X	
Chute flow		X		Exposed boulders		U
Broken standing waves		A		Vegetated bedrock/boulders	X	
Unbroken standing waves		M		Unvegetated mid-channel bar(s)		
Rippled flow		M	ō	Vegetated mid-channel bar(s)		
*Upwelling	- n	X	n	Mature island(s)		
Smooth flow	Ħ	X	ō	Vegetated mid-channel bar(s) Mature island(s) Unvegetated side bar(s)	ō	ō
	7		H	Vegetated side bar(s)	Z	
No perceptible flow			7			
No flow (dry)			7	Unvegetated point bar(s)		
Marginal deadwater	-		1	Vegetated point bar(s)	M	
Eroding cliff(s)		H	H	*Unvegetated silt deposit(s)	H	
Stable cliff(s)	4	U	4	*Discrete unvegetated sand deposit(s)		
				*Discrete unvegetated gravel deposit(s)	u	

SITE REF.	RIVE	R HABI	TAT SURVEY : DIN	MENSION	S AND INFLU	ENCES Page	e 4 of 4
L CHANNEL DIME	nsions				ht uniform section	, preferably acro	ss a riffle)
LEFT BANK			CHANNEL		RIGHT BANK		
Banktop height (m)		4	Bankfull width (m)	10	Banktop height	(m)	2
ls banktop height also ba height? (Y or N)	ankfull	2	Water width (m)	4	Is banktop heigh height? (Y or N)		4
Embanked height (m)		4	Water depth (m)	0,7	Embanked heigh	110.00	2
If trashline lower than ba	anktop, in			= 0,6 V	vidth from bank to	bank (m) =	8
Bed material at site is:				onsolidated	(loose)	unknov	vn 📮
Location of measuremen	its is: riff	le 📛 o	ther 🔲 (state)				
M FEATURES OF S	PECIAL	INTERES	oT Use / or E (≥ 33	% length) *	record even if <19	Б	
None Braided channels		Very larg	ge boulders (>1 m) 🔀 dam(s)	Backwater(s Floodplain b	ooulder deposits	Marsh(es) Flush(es)	
Side channel(s)	X	*Leafy o	lebris	Water mea	dow(s)	Natural	
*Natural waterfall(s) > 5m	high	Fringing	reed-bank(s)	Fen(s)		open water	~ _
*Natural waterfall(s) < 5m	high 🔲	Quaking	g bank(s)	Bog(s)	5	Others (stat	е) 🔲
Natural cascade(s)		*Sink h	ole(s)	Wet woodl	and(s)	<	
n choked chan	NEL (ti	ck one bo	ox)				
Is 33% or more of the ch	nannel cho	oked with	vegetation?	No 🛅	Y	es 🔲	
o notable nuis/	ANCE PL	ant sp	ECIES Use Vor E	(> 33% len	gth) *record evi	en if <1%	
None *Giant hog *Japanese	gweed			nalayan ba her (state)		ace banktop to]
P OVERALL CHARA	ACTERIS	TICS	(Circle appropriat	e words,	add others as n	ecessary)	
Major impacts: landfill - mining - quarrying - overd							housing
Evidence of recent magravel extraction - other	anageme	ent: dre					ition -
Animals: otter-mink-			her dinner arevweat	ail sand m	ertin beron drag	onflies /damselflie	
Other significant obsobservations							-
Q ALDERS (tick on	e box in	each o	f the two categories	5) *reco	ud even if <1%		
Q ALDERS (tick on *Alders? None • Pre	700 SON SON HOLD				nd even if <1%	nt 🔲 Extens	sive 📮
*Alders? None 🔲 Pre	sent 🔼	Extens		l Alders? N	one 🔼 Preser	nt 🔲 Extens	sive 📮
*Alders? None 🔲 Pre	photos th uctures acn in spot-chec in 11 of se on C the ni e (alphanus oot-check '	Extens at illustrates the checks and maction G (aumber of remeric) gried is at the eck and sw	*Diseased OL (boxes to co te the general character of tannel? Ide entries in all boxes in the distribution of the propriate) on pa tiffles, pools and point bard the reference for spot-check upstream or downstream	I Alders? Note the site and E & F on page 2? s (even if 0) s 1, 6 and er end of the s	one Preservecks) I additional photos of ge 2? on page 1? nd of site (page 1)? ite (top of page 2)?	of any weirs/ sluice	

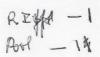
RIVER HABITAT SURVEY 2003 Version Page 1 o
A FIELD SURVEY DETAILS
Site Number: Site Number: Site Reference: Spot-check 1 Grid Ref: 1914 7300 N Spot-check 6 Grid Ref: 1945 5440 Spot-check 6 Grid Ref:
LEFT banks determined by facing downstream king
(tick one box only) (tick one box only) (tick one box only) shallow vee concave/bowl asymmetrical valley deep vee U-shape valley no obvious valley sides Distinct flat valley bottom? No Yes Natural terraces? No Yes Number of Riffles, POOLS AND POINT BARS (enter total number in boxes) Riffle(s) Unvegetated point bar(s)
Pool(s) Vegetated point bar(s)
D ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m site)
If none, tick box Culverts Fords Bridges Other - state
Is channel obviously realigned? No Yes, <33% of site \$33% of site Is channel obviously over-deepened? No Yes, <33% of site \$33% of site Is water impounded by weir/dam? No Yes, <33% of site \$33% of site

TE REF.	RIVER HA	BITAT	SUR	VEY:	TEN	SPOT	r-CHE	CKS		Pag	e 2 of	4
pot-check 1 is at: upstream e		wnstream					one bo	x)				
PHYSICAL ATTRIBUT	ES (to be assessed a	icross ch	annel v	vithin	lm wi	le trar	isect)					
Vhen boxes 'bordered', only		1, GPS		30	311	3/2 6	GPS		785	9	10	GPS
EFT BANK			Ring	EC or S	C if co	ompos	ed of s	andy	ubstr	ite		
/laterial NV, BE, BO, CO, GS, EA, PE, CL, C	C, SP, WP, GA, BR, RR, TD, FA, B	FA	EA	EAI	RA	RR	EA:	3€	BO	BO	EAA	
Sank modification(s) NK, NO,	The second secon	BI	RT	QT.	RI	RI	-	CV	NO	NO	NO	
Vlarginal & bank feature(s) NV,	NO, EC, SC, PB, VP, SB, VS, NE	SO	No	Ca	00	NO	ca	no	NO	No	WS	Name of Street
CHANNEL				GP- rin	g eithe	er G or	P if pr	edom	inant	0		
Channel substrate NV, BE, BO, C	O, GP, SA, SI, CL, PE, EA, AR	SA	30	SA	5A	30	NV	W	NV	Bo	NV	
Flow-type NV, FF, CH, BW, UW, C	CF, RP, UP, SM, NP, DR	81	NP	NP	100	NB	NP	NB	NP	NP	NP	1
Channel modification(s) NK	, NO, CV, RS, RI, DA, FO	ND	CN	NO	CATA	c v	NO	NO	No	R5	NO	85
Channel feature(s) NV, NO, E	B, RO, VR, MB, VB, MI, TR	70	Ng	No	MI	EB.	20	NO	NO	NO	Ng	ot-c
For braided rivers only: nun	nber of sub-channel	0	0	0	0	7	0	NO	0	0	0	heck
RIGHT BANK			Ring) EC or	SC if	-	sed of	_	Stiles	I A	TEA	s but
Material NV, BE, BO, CO, GS, EA, PE, CL,	CC, SP, WP, GA, BR, RR, TD, FA,	EA.	Es	EA	BR	RR	RR	EA	R.K	FA	IPA	pre
Bank modification(s) NK, NC), R5, RI, PC(B), BM, EM	RI	RI	Ba	Bt	IA	IA	NU	KT	100	NS	sent
Marginal & bank feature(s) NV	, NO, EC, SC, PB, VP, SB, VS, N	B NO	CN	ON	NO	NO	NO	V 5	NO	100	IND	17 V. E
F BANKTOP LAND US	E AND VEGETAT	ION ST	RUCT	URE (o be at	sessed	over a	10m vs	ide tra	nsect)		1%0
Land-use: choose one from	n BL, BP, CW, CP, SI	1, OR, W	L, MH,	AW, C	W, RP	, IG, T	H, RD,	SU, T	L, IİL, 1	G, NV		spot-checks but present in >1% of whole
LAND-USE WITHIN 5m OF LEF	The second colors are	AP	RR	RP	54	50	SA	5H	SA	SA	SA	ole si
LEFT BANKTOP (structure with		U	U	0	S	V	5	5	5	C	U	F 5
LEFT BANK-FACE (structure)	B/U/S/C/NV	5	5	C	1.	5	5	B	3	C	U	
RIGHT BANK-FACE (structure)	B/U/S/C/NV	C	C	5	C	3	V	3	C	6	0	e site.
RIGHT BANKTOP (structure w	- SMM	5	5	U	1)	V	V	5	C	V	9	1
LAND-USE WITHIN 5m OF RIG	THE SHOW AND AND SHOW	SH	SA	IL	IL	OR	OR	TL	-54	1	4 5 H	
G CHANNEL VEGETA		assessed o	overa 10	m wide	tranyect	s use E (≥ 33%	area), 🕠	(prese	nt) or t	√V (not v	isible)
				T	T	T		T			maj.	
None (/) or Not Visible (NV	,	12	. L	L	V	V				L		
Liverworts/mosses/lichens Emergent broad-leaved herbs					V	V	-			L	- L	
Emergent broad-leaved herbs		L	·L		L		L	1,	- L	- 1	- 1	
Floating-leaved (rooted)	ar grasses, riorsetans	-	-			L		1		L	_	
			1	1			E	1	- F		F	
		11			-	-		1	1			
Free-floating	No.	1										_
Free-floating Amphibious	Minute Service	L			-	+		+				
Free-floating Amphibious Submerged broad-leaved	Marine and American A											
Free-floating Amphibious Submerged broad-leaved Submerged linear-leaved	STATE IN THE			L	-							
Free-floating Amphibious Submerged broad-leaved					-							

SITE REF.			Page	e 3 of 4		
H LAND-USE WITH	HIN 50m OF BAN	IKTOP	Use	√ (present) or E (≥ 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland	(semi-natural) (BL)			Natural open water (OW)	a sage	
Broadleaf/mixed plantation	n (BP)			Rough/unimproved grassland/pasture (RP)	v	
Coniferous woodland (sem	ni-natural) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)			11/4	Tall herb/rank vegetation (TH)	h (0.81.10)	V
Scrub & shrubs (SH)	Fela Joseff S	F	V	Rock, scree or sand dunes (RD)	A Personal	
Orchard (OR)				Suburban/urban development (SU)	V	11
Wetland (e.g. bog, marsh,	fen) (WL)		-	Tilled land (TL)		5.0
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)		
				Not visible (NV)		089
1 BANK PROFILES	tise ✓ (presen	1) or E (> 33% ba			
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	7 7	1/		Resectioned (reprofiled)	The second	
Vertical with toe	7			Reinforced - whole	V	
Steep (>45°)	N.m.	V	-	Reinforced - top only	11/	1
Gentle —			1/	Reinforced - toe only		-
Composite	<u></u>		-	Artificial two-stage		
Natural berm —						
		TO SIL	-	Poached bank Embanked		
				Set-back embankment ————		
EXTENT OF TREE	s and associat	ED FEA	TURES	frecord even if <1%		
TREES (tick one		Right		ASSOCIATED FEATURES (tick one box per feat None Preser		33%)
None				Shading of channel)
Isolated/scattered	i i	ň.		*Overhanging boughs	. [5
Regularly spaced,		ō		*Exposed bankside roots		
Occasional clump	F-1	×		*Underwater tree roots	Ē	5
Semi-continuous	×	A		Fallen trees	Ē	5
Continuous	ō	ī		Large woody debris		5
	annel and bat	NK FEAT	TURES	(tick one box for each feature) *record even if	<1%	
			(≽33%)	None Pro	esent E(≽33%)
*Free fall flow				Exposed bedrock	4	
Chute flow	Z			Exposed boulders		
Broken standing waves				Vegetated bedrock/boulders	X	
Unbroken standing waves		Z		Unvegetated mid-channel bar(s)		
Rippled flow		1		Vegetated mid-channel bar(s)		
*Upwelling				Unvegetated mid-channel bar(s) Vegetated mid-channel bar(s) Mature island(s))	
Smooth flow				Unvegetated side bar(s)		
No perceptible flow	ā		X	Vegetated side bar(s)	X	
No flow (dry)		X		Unvegetated point bar(s) Vegetated point bar(s)		
Marginal deadwater	1	X		Vegetated point bar(s)		
Eroding cliff(s)	× ×			*Unvegetated silt deposit(s)		
Stable cliff(s)	X			*Discrete unvegetated sand deposit(s)		
				*Discrete unvegetated gravel deposit(s)	7	

SITE REF.	RIVER HAB	ITAT SURVEY : DIN	MENSIONS AND IN	NFLUENCES Page	e 4 of 4
. CHANNEL DIMEN	ISIONS (to be r		on a straight uniform		ss a riffle)
LEFT BANK		CHANNEL	RIGHT BA	INK	
Banktop height (m)	3	Bankfull width (m)	P Banktop I	neight (m)	3
s banktop height also bar height? (Y or N)	nkfull J	Water width (m)	3 Is bankto height? (o height also bankfull Y or N)	N
Embanked height (m)	3	Water depth (m)	0,9 Embanke	d height (m)	3
f trashline lower than bar	ktop, indicate:	height above water (m)	= 1 width from I	oank to bank (m) =	(0
Bed material at site is:			onsolidated (loose)	unknov	wn 📮
Location of measurement	s is: riffle 🔎	other 🖵 (state)			
M FEATURES OF SP	ecial intere	ST Use / or E (≥ 33	% length) *record ever	a if <1%	
None Braided channels Side channel(s) *Natural waterfall(s) > 5m hi *Natural waterfall(s) < 5m hi Natural cascade(s)	*Debri	debris greed-bank(s) greed-bank(s) graph bank(s)	Backwater(s) Floodplain boulder depo Water meadow(s) Fen(s) Bog(s) Wet woodland(s)	Marsh(es) Sists Flush(es) Natural open water Others (stat	
N CHOKED CHANN			. (8)	V [
Is 33% or more of the cha	innel choked wit	n vegetation?	No 🔼	Yes	
*Giant hogo *Japanese ke P OVERALL CHARA Major impacts: landfill - t mining - quarrying - overde Evidence of recent ma gravel extraction - other (Animals: otter - mink - o Other significant observations	cteristics cteris	*Ot (Circle appropriat vage - pollution - drought ation - fisheries managem edging - bank mowing - isher - dipper - grey wagt	ent - silting - waterloggir weed cutting - enhand ail - sand martin - heron	s as necessary) n - road - rail - industry - ng - hydroelectric power cement - river rehabilita - dragonflies/damselflie	ation -
Q ALDERS (tick one	box in each	of the two categorie	\$) *récord =ven if <1	%	
*Alders? None 🔲 Prese	ent 🗋 Exter	sive 🕜 *Diseased	d Alders? None	Present 🗀 Exten	sive 🔲
R FIELD SURVEY OL		_	onfirm checks)		
Have you taken at least two and major/intermediate stru Have you completed all ten Have you completed column Have you recorded in section Have you given an accurate Have you stated whether spr Have you cross-checked you	photos that illustrictures across the copot-checks and mention of the common of the co	ate the general character of thannel? nade entries in all boxes in and E if appropriate) on pa i riffles, pools and point bar id reference for spot-check e upstream or downstream	f the site and additional p E & F on page 2? ge 2? s (even if 0) on page 1? s 1, 6 and end of site (pa end of the site (top of pa	ge 1)? ge 2)?	
given on page 2 of the spot-		weep-up responses with tr	ie channel mounication il	idicatols	10

RIVER HABITAT SURVEY 2003 Version	Page 1 of 4
A FIELD SURVEY DETAILS	
Site Number: Lot 2	Yes ± entirely No channel one box only
B PREDOMINANT VALLEY FORM (within the horizon limit) (tick one box	
(tick one box only) shallow vee concave/bow asymmetrical U-shape valle porge Distinct flat valley bottom? No Yes Natural terraces? No	valley ey alley sides Yes
Riffle(s) Pool(s) ARTIFICIAL FEATURES (indicate total number of occurrences of each category within the 500m	0
If none, tick box Culverts Bridges Other - state Major Intermediate Minor Outfalls/ intakes Fords Deflectors/ groynes/croys Other - state	Minor
Is channel obviously realigned? No ☑ Yes, <33% of site ☐ ≥33% of is channel obviously over-deepened? No ☑ Yes, <33% of site ☐ ≥33% of is water impounded by weir/dam? No ☑ Yes, <33% of site ☐ ≥33% of	site 🗌



SITE REF.	RIVER H	IABITA'	T SU	RVEY	: TEN	N SPO	OT-CH	IECK	S	Pag	ge 2 o	f 4
Spot-check 1 is at: upstream e	nd 🔲 .	downstrea	m end	D	of	site (t	ick one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed	d across c	hanne	l withir	ı 1m v	vide tr	ansect)					
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Rin	J EC O	SC if	comp	sed of	sandy	substr	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CO	C, SP, WP, GA, BR, RR, TD, FA	BIEA	EA	EA	PE	60	RR	BA	RR			
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	No	No	No	NO	CG	RI	BI	RI			ayard.
Marginal & bank feature(s) NV, N	10, EC, SC, PB, VP, SB, VS,	NB U)	100	NI	NO	NJ	NO	CN	No			
CHANNEL				GP- ri	ng eitl	ier Gi	or Pilip	redon	ninant			
Channel substrate NV, BE, BO, CO), GP, SA, SI, CL, PE, EA, AR	160	SA	SA	60	BE	BE	Bo	BE			
Flow-type NV, FF, CH, BW, UW, CF	F, RP, UP, SM, NP, DR	NP	25	NB	NP	511	BW	57	NP			
Channel modification(s) NK,	NO, CV, RS, RI, DA, FO	NO	20	NO.	00	100	00	00	100			SI
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, T	R NO	NO	199	NO	73	EB	NO	20			pot-
For braided rivers only: numl	ber of sub-channe	ls ()	0	0	0	0	0	0	0			chec
RIGHT BANK			Rin	g EC o	r SC if	comp	osed o	sandy	/ substi	rate		ks bu
Material NV, BE, BO, CO, GS, EA, PE, CL, CO	C, SP, WP, GA, BR, RR, TD, FA	BO BO	Ba	BŁ	EA	FA	EA	RR	EA			rt pr
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	170	100	100	NO	no	199	RI	NO			esen
Marginal & bank feature(s) NV, N	40, EC, SC, PB, VP, SB, VS,	MB 199	190	170	NO	NO	VP	NO	100			tin S
F BANKTOP LAND-USE	AND VEGETAT	ION ST	RUCT	URE (to be a	ssessed	over a	10m w	ide tran	sect)		19%
Land-use: choose one from	BL, BP, CW, CP, SI	H, OR, W	L, MH,	AW, 0	W, RP	, IG, 1	H, RD,	SU, TI	, IL, P	G, NV		of w
LAND-USE WITHIN 5m OF LEFT	BANKTOP	WL	Wi	SA	TH	SA	5h	50	SW			spot-checks but present in >1% of whole site.
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	U	5	U	U	5	U	0	()			site.
LEFT BANK-FACE (structure)	B/U/S/C/NV	V	U	0	U	S	5	S	B			90
RIGHT BANK-FACE (structure)	B/U/S/C/NV	C	5	5	5	C	C	5	C			
RIGHT BANKTOP (structure with	in 1m) B/U/S/C/NV	C	5	S	5	5	U	V	C			1 3
LAND-USE WITHIN 5m OF RIGH	T BANKTOP	RIN	SW	54	BI	SH	BP	50	RI			
G CHANNEL VEGETATI	ON TYPES (to be	assessed ov	er a 10	n wide t	vanives ()	use E /	> 33% a		Toresent) or NV	(not vis	ibie)
None (✓) or Not Visible (NV)				T		Г		I				
Liverworts/mosses/lichens		-		V		-	V		1			
Emergent broad-leaved herbs		+-	- 11	-	1	-		V	-			
Emergent proad-leaved herbs Emergent reeds/sedges/rushes/g	rasses/horsetails	-		1.)	,					
Floating-leaved (rooted)	n assess non secans	V	V	1		-						-
Free-floating		1		-		-	-					-
		-				-						
Amphibious Submerged broad leaved		-		-								
Submerged broad-leaved	400						-					1000
Submerged linear-leaved	1694	-										
Submerged fine-leaved		-	10 77	-								
Filamentous algae	A Description		= 177									

SITE REF.	RIVER HAE	BITAT	SURVE	EY : 500m SWEEP-UP	Page :	3 of 4
h land-use with	tiN 50m OF BAI	NKTOP	IJ₅∈	√ (present) or E (≥ 33% banklength)	N.B.	
		L	R		L	R
Broadleaf/mixed woodland	(semi-natural) (BL)	V	V	Natural open water (OW)		in SV
Broadleaf/mixed plantation	1 (BP)			Rough/unimproved grassland/pasture (RP)		V
Coniferous woodland (sem				Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)	me India			Tall herb/rank vegetation (TH)	V	TENNY
Scrub & shrubs (SH)		4	1	Rock, scree or sand dunes (RD)	He HITTS	
Orchard (OR)			16	Suburban/urban development (SU)	V	V
Wetland (e.g. bog, marsh,	fen) (WL)	1		Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)		
		The state of the s		Not visible (NV)		
I BANK PROFILES	Use 🗸 (presen	t) or E. (33% ba	inklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut	Im Cm	0	7	Resectioned (reprofiled)	7	V
Vertical with toe	Zm	J	2	Reinforced - whole		
Steep (>45°)	/			Reinforced - top only	la l	a dinasi
Gentle		7	7	Reinforced - toe only		4
Composite	~~~~			Artificial two-stage		
Natural berm				Poached bank Tunning		
	THE YEAR OF S	-		Embanked		
				Set-back embankment	1177	
1 EXTENT OF TREES	AND ASSOCIAT	ED FEAT	URES	*record even if <1%		A STATE OF
TREES (tick one				ASSOCIATED FEATURES (tick one box per feat	ure)	
	Left P	Right		None Preser		3%)
None	y	Ц		Shading of channel		
Isolated/scattered		H		*Overhanging boughs *Exposed bankside roots		
Regularly spaced, Occasional clumps		H		Emposed burmande roots		
Semi-continuous	, ,	4		*Underwater tree roots	H	
Continuous	ä			Large woody debris	ŏ	
K EXTENT OF CHA	ANNEL AND BAN	VK FEAT	URES	(tick one box for each feature) *record even if	<1%	
		resent E(sent E(≥	33%)
*Free fall flow				Exposed bedrock		ב
Chute flow	0			Exposed boulders)
Broken standing waves		N		Vegetated bedrock/boulders	A C]
Unbroken standing waves				Unvegetated mid-channel bar(s))
Rippled flow				Vegetated mid-channel bar(s)]
*Upwelling			Ū.	Mature island(s)	1	1
		4	J	Unvegetated side bar(s)		1
Smooth flow	_					- 1
No perceptible flow	Ō		7	Vegetated side bar(s)		
No perceptible flow No flow (dry)				Vegetated side bar(s) Unvegetated point bar(s)		1
No perceptible flow No flow (dry) Marginal deadwater				Vegetated side bar(s) Unvegetated point bar(s) Vegetated point bar(s)		<u>)</u>
No perceptible flow No flow (dry)				Unvegetated point bar(s)]

SITE REF.	RIVER HAB	TAT SURVEY : DIN	MENSION	S AND INFLUENCE	ES Page	e 4 of 4	
CHANNEL DIME	NSIONS (to be r	neasured at one location	on a straig	jht uniform section, pre	ferably acro	ss a riffle)	
LEFT BANK		CHANNEL		RIGHT BANK			
Banktop height (m)	2	Bankfull width (m)	12	Banktop height (m)		1.5	
s banktop height also ba neight? (Y or N)		Water width (m)	10	Is banktop height al height? (Y or N)	so bankfull	2	
Embanked height (m)	18	Water depth (m)	0,5	Embanked height (r	n)	15	
f trashline lower than ba		height above water (m)		width from bank to bar	nk (m) = 3	8	
ed material at site is:	CO	nsolidated 🔁 unc	onsolidate	d (loose)	unknov	vn 📮	
ocation of measuremen	ts is: riffle	other 🔲 (state)					
M FEATURES OF S	PECIAL INTERE	ST Use √or E (≥ 33°	% length)	record even if <1%			
None	Very la	rge boulders (>1m)	Backwater(s)	Marsh(es)	4	
Braided channels	*Debris	dam(s)	Floodplain	boulder deposits	Flush(es)		
	*Leafy	debris 🗆	Water mea	dow(s)	Natural		
ide channel(s)			Fen(s)		open water		
"Natural waterfall(s) > 5m "Natural waterfall(s) < 5m		ig bank(s)	Bog(s)		Others (state	e) 🔲	
Natural cascade(s)	*Sink h	ole(s)	Wet wood	and(s)			
N CHOKED CHAN		441					
33% or more of the ch		ANALYSIS IN STREET	No 😹	Yes			
NOTABLE NUIS/							
mining - quarrying - overd	ACTERISTICS tipping - litter - sev leepening - afforest		e words, - abstractio ent - silting	 waterlogging - hydroe 	l - industry - ectric power		
gravel extraction - other Animals: otter - mink - Other significant obs observations	water vole - kingfi						our doce
Q ALDERS (tick on	e box in each (of the two categories	s) *rec	ord even if <1%			
Alders? None 📮 Pre	sent 🛭 Exten	sive 🔲 *Diseased	Alders? N	lone 🏻 Present [Extens	sive 🔲	
FIELD SURVEY Q	UALITY CONT	ROL (/ boxes to co	nfirm ch	ecks)			
Have you taken at least two and major/intermediate str Have you completed all ter Have you completed colum Have you recorded in section Have you given an accurate Have you stated whether st	uctures across the consport of the consport of the number of a consport of the number of a consport of the con	hannel? ade entries in all boxes in l and E if appropriate) on pa riffles, pools and point bar id reference for spot-check	E & F on pa ge 2? s (even if 0 s 1, 6 and e end of the	ge 2? on page 1? nd of site (page 1)? site (top of page 2)?	y weirs/ sluice		o ficami

RIVER HABI	ITAT SURVEY 2003 Version Page 1 of 4
A FIELD SURVEY DETAILS	
Site Number: leave blank if new site	Is the site part of a river or an artificial channel? River Artificial
Site Reference:	Are adverse conditions affecting survey? No Yes
Spot-check 1 Grid Ref:	If yes, state
Spot-check 6 Grid Ref:	Is bed of river visible? barely or not partially tentirely tentirely
End of site Grid Ref:	Is health and safety assessment form attached? Yes 🔯 No 🔲
Reach Reference:	Number of photographs taken:
River name:	Photo references:
Date 9 / 07/20 5 Time: 8650mi	Site surveyed from: left bank right bank channel
Surveyor name: Davide Fernandes	☐ When options shown with 'shadow boxes', tick one box only
Accredited Surveyor code:	LEFT banks determined by facing downstream RIGHT
B PREDOMINANT VALLEY FORM	
shallow vee deep vee gorge	concave/bowl asymmetrical valley U-shape valley no obvious valley sides
Distinct flat valley bottom? No	Yes Natural terraces? No Yes Yes
C NUMBER OF RIFFLES, POOLS A	ND POINT BARS (enter total number in boxes)
Riffle(s) Pool(s)	Unvegetated point bar(s) Vegetated point bar(s)
D ARTIFICIAL FEATURES (Indicate total	number of occurrences of each category within the 500m site)
If none, tick box	Minor Major Intermediate Minor 1 Outfalls/ intakes Fords Deflectors/ groynes/croys
Is channel obviously over-deepened? N	lo ☐ Yes, <33% of site ☐ ≥33% of site ☐

SITE REF.	RIVER HA	BITA	RVEY	TEN SPOT-CHECKS					Page 2 of 4			
Spot-check 1 is at: upstream er	nd 🔲 do	wnstrea	m end	OX	of	site (ti	ick one	box)				
E PHYSICAL ATTRIBUT	ES (to be assessed a	across c	hanne	l withii	ı 1m v	vide ti	ansect)					E MEAN
When boxes 'bordered', only	one entry allowed	1 GPS	2	3	4	5	6 GPS	7	8	9	10	GPS
LEFT BANK			Rine	j EC oi	SC if	comp	sed of	sandy	substi	ate		
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	, SP, WP, GA, BR, RR, YD, FA, BI	ВО	RR	BF	BE	BE	BE	BEA	BE	BE	BE	00
Bank modification(s) NK, NO,	RS, RI, PC(B), BM, EM	R5	R5	NO	NO	NO	NO	No	NO	No	NO	line I
Marginal & bank feature(s) NV, N	O, EC, SC, PB, VP, SB, VS, NB	No	NO	NB:	VP	VP	NO	100	NO	110	NO	0.07
CHANNEL				GP- ri	ng eith	ier Gio	or P if p	redon	ninant			
Channel substrate NV, BE, BO, CO	, GP, SA, SI, CL, PE, EA, AR	RO	5A	30	BO	Во	30	NV	NV	NV	NV	
Flow-type NV, FF, CH, BW, UW, CF	, RP, UP, SM, NP, DR	BW	57	BW	517	511	BW	51	NP	NP	NP	
Channel modification(s) NK, I	NO, CV, RS, RI, DA, FO	R5	R5	OU	NO	BI	NO	No	No	NO	NO	T
Channel feature(s) NV, NO, EB,	RO, VR, MB, VB, MI, TR	RO	TVA	NO	EB	EB	ABB	NO	NO	NO	NO	Enter spot-
For braided rivers only: numb	per of sub-channels	0	0	0	0	1	1	0	0	0	0	chec
RIGHT BANK			Rim	10	avitu	Much	osed o	sand	/ subst	rate		nnel ks b
Material NV, BE, BO, CO, GS, EA, PE, CL, CC	SP, WP, GA, BR, RR, TD, FA, BI	BO	BO	BR	BR	LAR	30	30	EA	EA	EA	ut pi
Bank modification(s) NK, NO, I	RS, RI, PC(B), BM, EM	R5	NO	KI	RI	RI	RI	RI	35	NO	NO	eser
Marginal & bank feature(s) NV, N	O, EC, SC, PB, VP, SB, VS, NB	NO	V5	V5	V5	145	VP	NU	NO	NO	NO	e(s)
F BANKTOP LAND-USE	AND VEGETATION	ON ST	RUCT	URE (o be a	ssessed	оует а	10m w	ide trai	isect)	134-31	ot o
Land-use: choose one from I	BL, BP, CW, CP, SH,	OR, W	L, MH,	AW, 0	W, RP	, IG, T	H, RD,	SU, TI	, IL, P	G, NV		Enter channel substrate(s) not occurring as predominant in spot-checks but present in >1% of whole site.
LAND-USE WITHIN 5m OF LEFT I	BANKTOP	BP	BL	BL	BL	BL	BL	BL	BL	BL	BL	ing a
LEFT BANKTOP (structure within	1m) B/U/S/C/NV	5	5	5	5	5	5	C	C	C	C	site.
LEFT BANK-FACE (structure)	B/U/S/C/NV	105	5	5	5	5	5	9	U	U	V	don
RIGHT BANK-FACE (structure)	B/U/S/C/NV	195	5	5	5	5	5	5	5	6	(inar
RIGHT BANKTOP (structure withi	n 1m) B/U/S/C/NV	5	5	5	5	5	5	5	S	5	5	i i
LAND-USE WITHIN 5m OF RIGHT	T BANKTOP	5U	54	PG	76	Pa	PG	PG	TH	511	SH	
G CHANNEL VEGETATION	ON TYPES (to be as	sessed ov	er a 10n	n wide t	ansect	use É (2 3 3 % ai	°€a), √	(presen	i) or NV	(not visi	ble)
None (✓) or Not Visible (NV)	and the second							V	V	V	V	
Liverworts/mosses/lichens		V	1	L	V	L	F					
Emergent broad-leaved herbs		L		V	V							
Emergent reeds/sedges/rushes/gr	rasses/horsetails		411	V	V		1					
Floating-leaved (rooted)	inshinitases.		ew V						200			200
Free-floating	ON HOUSE	-							-			
Amphibious		V										
Submerged broad-leaved	1000		ai			1	-					
Submerged linear-leaved	C) and all											
Submerged fine-leaved	(00001000					4						086
Filamentous algae	Tolleans and		TENT I							0,00		
Use end column for overall assess	ment over 500m, incl	uding ty	pes no	t occur	ing in s	spot-ch	ecks (us	se 🗸, E	or NV)			

SITE REF. R	IVER HAB	ITAT	SURVE	Y : 500m SWEEP-UP	Page 3	of 4
H LAND-USE WITHIN	50m OF BAN	NKTOP		(present) or E. (> 33% banklength)		
		L	R		L	R
Broadleaf/mixed woodland (sem	ni-natural) (BL)	E		Natural open water (OW)		
Broadleaf/mixed plantation (BP)			Rough/unimproved grassland/pasture (RP)		
Coniferous woodland (semi-nat	urai) (CW)			Improved/semi-improved grassland (IG)		
Coniferous plantation (CP)		4 ===		Tall herb/rank vegetation (TH)		-
Scrub & shrubs (SH)		Alge	V	Rock, scree or sand dunes (RD)	Lis ()/lini	1
Orchard (OR)		11 45		Suburban/urban development (SU)		U
Wetland (e.g. bog, marsh, fen)	(WL)			Tilled land (TL)		
Moorland/heath (MH)				Irrigated land (IL)		
Artificial open water (AW)				Parkland or gardens (PG)		
				Not visible (NV)	AND DESCRIPTION OF THE PERSON	WINDS CO.
I BANK PROFILES U	Jse 💸 (preser	nt) or E (≥ 33% ba	nklength)		
Natural/unmodified		L	R	Artificial/modified	L	R
Vertical/undercut w	~ Zm	E		Resectioned (reprofiled)	V	V
Vertical with toe	···		la T	Reinforced - whole	AM	1
Steen (: 45°)				Reinforced - top only		dont
Gentle			V	Reinforced - toe only		
Composite				Artificial two-stage		11/
Natural berm		v1				
Natural berni		1	1	O O		
				Embanked	-	All -
				Set-back embankment	NAME OF TAXABLE PARTY.	STATE OF THE PARTY
) EXTENT OF TREES AN	ND ASSOCIAT	TED FEAT	URES	*record even if < 1%		
TREES (tick one box		Right		ASSOCIATED FEATURES (tick one box per features None Prese		33%)
None				Shading of channel	_	A
Isolated/scattered	ă	ō		*Overhanging boughs)
Regularly spaced, sing	ale 🗖	ō		*Exposed bankside roots		COLL
Occasional clumps				*Underwater tree roots]
Semi-continuous				Fallen trees	L	1
Continuous		9		Large woody debris		1
K EXTENT OF CHAN	nel and ba	nk feat	TURES	(tick one box for each feature) *record even	200	
	None	Present E	(≽33%)	None P Exposed bedrock	resent E((≥33%)
*Free fall flow		H	H		N	ň
Chute flow		(V)		Exposed boulders		Ŏ.
Broken standing waves			7	Vegetated bedrock/boulders Unvegetated mid-channel bar(s)	ň	Ĭ.
Unbroken standing waves		-	H		ŏ.	W)
Rippled flow		7	8	Mature island(s)	ň	ā
*Upwelling		7	150	Vegetated mid-channel bar(s) Mature island(s) Unvegetated side bar(s)	T	
Smooth flow		4		Vegetated side bar(s)	ň	X
No perceptible flow				Unvegetated point bar(s)	ň	ī
No flow (dry)		Z	7	Vegetated point bar(s)	ň	ō
Marginal deadwater			ă	*Unvegetated silt deposit(s)	ō	ō ·
Eroding cliff(s) Stable cliff(s)		ň	ă	*Discrete unvegetated sand deposit(s)		
Stable clin(s)	4	_	_	*Discrete unvegetated gravel deposit(s)	ō	

SITE REF.	RIVER HAI	BITAT SURVEY:	DIMENSION	IS AND INFLUE	NCES Pa	ge 4 of 4
CHANNEL DIME	NSIONS (to be					oss a riffle)
LEFT BANK		CHANNEL		RIGHT BANK		
Banktop height (m)	9	Bankfull width (m	52	Banktop height	(m)	911
Is banktop height also b height? (Y or N)	ankfull	Water width (m)		Is banktop heigh height? (Y or N)	t also bankfull	
Embanked height (m)	10	Water depth (m)	0,5	Embanked heigh	it (m)	141
If trashline lower than ba	anktop, indicate:	height above water	(m) = 0, 4 v	width from bank to	bank (m) =	18
Bed material at site is:	c	onsolidated 🖾	unconsolidated	d (loose)	unkn	own 📮
Location of measuremer	nts is: riffle 🔯	other (state)	bartude	tenti)		
M FEATURES OF S	PECIAL INTER	EST Use / or E (>	33% length)	record oven if <19	6	
None Braided channels	*Deb	large boulders (>1m) ris dam(s) y debris		boulder deposits	Marsh(es) Flush(es) Natural	
Side channel(s) *Natural waterfall(s) > 5m *Natural waterfall(s) < 5m	high Fring	ing reed-bank(s)	Fen(s) Bog(s)		open wat	ate) 🔀
Natural cascade(s)	*Sink	hole(s)] Wet woodl	and(s)] posque	/piseina
N CHOKED CHAN	NEL (tick one					
Is 33% or more of the cl	hannel choked w	ith vegetation?	No 🔣	Y	es 🔲	
O NOTABLE NUIS	ANCE PLANT	SPECIES Use via	or E (≥ 3396 ler	ngth) - record eve	en if <1%	4970 HINE
None *Giant ho			*Himalayan ba *Other (state).		ce banktop t	o 50m
P OVERALL CHAR	ACTERISTICS	(Circle approp	riate words,	add others as n	ecessary)	
Major impacts: landfill- mining - quarrying - overe Evidence of recent m gravel extraction - other Animals: otter - mink Other significant obsobservations	deepening - affore nanagement: or r (please specify) - water vole - king	station - fisheries manag dredging - bank mowi gfisher - dipper - grey w	gement - silting ng - weed cutt vagtail - sand m	- waterlogging - hyd ing - enhancement artin - heron - drago	roelectric power rehabil onflies/damself	er itation - lies
Q ALDERS (tick or	ie box in each	of the two catego	ories) *reco	ord even if <1%		
*Alders? None 🔲 Pre	esent 🕰 Exte	ensive 🔲 *Dise	ased Alders? N	lone 🖾 Preser	t 🗋 Exte	ensive 🔲
R FIELD SURVEY O	QUALITY CON	TROL (/ boxes to	confirm ch	ecks)		
Have you taken at least tw and major/intermediate st Have you completed all te Have you completed colur Have you recorded in secti Have you given an accurat	ructures across the en spot-checks and mn 11 of section G ion C the number	channel? made entries in all boxe (and E if appropriate) o of riffles, pools and poin	s in E & F on pa n page 2?	ge 2? on page 1?	of any weirs/ slu	ices A A A A A A A
	te (aipnanumeric)	grid reference for spot-cl	necks 1, 6 and e	nd of site (page 1)?		
Have you stated whether s						