STREAM HABITAT	TYPING SU	IRVEV DA	TA (NI	D Vub	o Doow	DCRED	0						61 (d)	1 . Alp	
te parte							-	aing) Ncti'W	Data St	cct #		7/	*** 0. 		2
Stream/Reach/Subreach: Team: Kathi F	reacod				aile		1 300		Page Date	914	of <u>X</u>	7		 D09i 	
UTM: 0660581,	43597	2210	AD 83 (Hab			ise		PM	Date	<u> </u>	4 - 1		Мар Gra	dient:	
Habitat Unit #	1			2			3	2086		4			15		
Habitat Type 1	FALL C	AS CHU	RAP	FALL	CAS	CHU RAF	FALL	CAS CH	U RAP	FALL	CAS (CHU RAP	FALL	CAS) CH	U RAP
3	HGR LO	GR GLI	RUN	HGR	LGR	GLI RUN	HGR	LGR GL		HGR		GLI RUN	HGR	LGR GL	
¢.		OW SHT	COP	STEP	POW	SHT COP	STER	POP SH	т сор	STEP	POW S	SHT COP	STEP	POW SH	r cop
*note if dammed pool	and the state of t	AP TRP	PLP	MCP	LAP	TRP PLP	MCP	LAP TR	P PLP	MCP	LAP 1	TRP PLP	MCP	LAP TR	P PLP
Length (R)		and the second se		12	111-	~	73	10	-	90			20	35	
Est. Avg. Width (R)	66;5	59,58		60,	64,7	> .	73	73,79	73	75,	55, 3	58	80)	
Est. Avg. Pool Depth (ft)	107	-		-						-			-	7	
Max. Pool Depth (ft)	10,b	30			•					(
Pooltail Embedded % Significant Cover? ¹	15 %	BLDR	2	NSIGNI			-	-	>	-		3		- 6	2
	VEG /	WOOD		EG		LDR	INSIGNE	F CBLD		INSIGNIE VEG		DOD	INSIGNI	F (BLD WOO	
SUBSTRATE COMPOSITION	1 1 7		din al			No. Tak	Anne anne anne anne anne anne anne anne								
Dominant Substrate		SND	СОВ	BED (BLD	COB	BED	BLD	COB	BED	(BLD)	COB	BED	BL	COB
		course :	SLT	GRV	SND	SLT	GRV	SND	SLT	GRV	SND	SLT	GRV	SND	SLT
Subdominant . Substrate	10000 E	BLD (COB	BED (BLD	COB	BED	BLD	COB	BED	BLD	COB	BED	(BLD)	COB
50050 au	Statement of the local division in the local	SND	SLT	GRV	SND	SLT	GRV	SND	SLT	GRV	SND	SLT	GRV	SND	SLT
Dominant C		BLD	сов	BED	BLD	COB	BED	BLD	СОВ	(BED)	BLD	COB	BED	BLD	COB
	No. of Concession, Name	SND	SLT	GRV	SND	SLT	GRV	SND	SLT	GRV	SND	SLT	GRV	SND	SLT
Length of LB and RB Exposed Banks (feet)	ø			dig	¢	SLT	GRV	SND	SLT	GRV	SND	SLT	GRV	SND	SLT
	ø			CRV 1	¢	SLT	Ø	SND	SLT		SND	SLT	GRV	SND	SLT
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N)	ø Yes,	basi		da 1 ho	¢	SLT	GRV Ø No	SND	SLT		SND	SLT	GRV Ø Yes	sno	SLT
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs	ø yes,	basi		ho b	¢	SLT	Ø no Ø	a	SLT	ø	SND	SLT	GRV GRV Yes	4.	SLT
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N)		basi 68	e i	1 10 136	ф я		p no p	SND 370	SLT	ø			de yez	4.	SLT
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs	¢ Yes, 13 Diamet class	basi 168		ho 1 1 3 1 3	¢	Length	6 no Ø 13	370 Diameter	Length	\$ 10 13 13 13	P) Diarreter	Length	Ø - 400 B - 3	tup 72 Diameter	Leage
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs	Diamet	basi 168	e i	ho 1 1 3 1 3	Ø 9 Nameter		6 no Ø 13	370		\$ 10 13 13 13	P]	×	Ø - 400 B - 3	top 72	Leage
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos JTA)	Diamet	basi 168	e i	ho 1 1 3 1 3	Ø 9 Nameter	Length	6 no Ø 13	370 Diameter	Length	\$ 10 13 13 13	P) Diarreter	Length	Ø - 400 B - 3	tup 72 Diameter	Leage
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos TA Large Woody Debris ³ within bankful width	Diamet	basi 168	e i	ho 1 1 3 1 3	Ø 9 Nameter	Length	6 no Ø 13	370 Diameter	Length	\$ 10 13 13 13	P) Diarreter	Length	Ø - 400 B - 3	tup 72 Diameter	Lengt
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos TA Large Woody Debris ⁵ within bankful width No. of LWD Pieces within wetted width	Diamet	basi 168	e i	ho 1 1 3 1 3	A Plameter class	Lingth class 1 1	6 no Ø 13	370 Diameter	Length	\$ 10 13 13 13	P) Diarreter	Length	Ø - 400 B - 3	tup 72 Diameter	Lengu
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos TA Large Woody Debris ⁴ within bankful width No. of LWD Pieces within wetted width	Diamet	basi 168	e i	ho 1 1 3 1 3	A Plameter class	Length	Ø no Ø 13 ·	370 Diameter	Length	\$ 10 13 13 13 13 13 13 13 13 13 13	P) Diarreter	Length	\$ 400 13	72 Diameter class	Leage
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos DTA .arge Woody Debris ⁴ vithin bankful width No. of LWD Pieces vithin wetted width Tsh Migration Barrier ⁶ v/n)? pawnable Gravel Area (sqft) ist. ²	Diamet class	basi 168	e i	ho 1 1 3 1 3	9 Dameter class	Length class 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ø no Ø 13 ·	370 Dianxter class 1 	Length	\$ 10 13 13 13	P) Diarreter	Length	0 13 13	72 Diameter class	Lenge
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Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos TA Landmarks or photos TA Large Woody Debris ⁴ vithin bankful width No. of LWD Pieces vithin wetted width Tsh Migration Barrier ⁴ y/n)? Ist ⁷ Ist ⁷ Ist Aigration Barrier ⁴ y/n)? Ist ⁷ Ist Sig (sq-ft) Est. Inflowmations:	Diamet class	basi 168	e i Length class	\$10034 10034 10034	9 Diameter class Y 41 Berry Luces	Length class 1 1 5 5 3 3 9 1 1 5 3 3 9 1 1 2 5 3 3 9 1 1 1 2 5 3 3 9 1 1 2 5 3 7 3 9 1 1 2 5 5 7 2 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	\$ no 13 2x	370 Dianxter class 1 	Length	\$ - 0 \$ 33 · \ \$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Diameter class X X 6 X Z	Length	\$ 300 13 · NA 200 N/A	72 Diameter class	Long class
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos TA Large Woody Debris ⁵ within bankful width Vo. of LWD Pieces within wetted width rish Migration Barrier ⁶ y/n)? iparmable Gravel Area (sqft) ist ² 1/4 ⁺ - 2.5 ⁺) fadmum Spawning Gravel atch Size (sq-ft) Est. ionments / beservations: ish? Wildlife? Amphibs?	h^{O}	bas was was bas bas bas bas bas bas bas b	e i Length class	\$10034 10034 10034	9 Diameter class Y 41 Berry Luces	Length class 1 1 5 5 3 3 9 1 1 5 3 3 9 1 1 2 5 3 3 9 1 1 1 2 5 3 3 9 1 1 2 5 3 7 3 9 1 1 2 5 5 7 2 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	\$ no 13 2x	370 Dianxter class 1 	Length class	\$ - 0 \$ 33. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Diameter class X X G X G X G X C X C X C X C X C X C Separ	Length class 1 1	\$ 300 13 · NA 200 N/A	72 Diameter class	Longi class
Exposed Banks (feet) Confinement ⁴ Unit Flagged/ Labeled? (Y/N) Tributary Inflow in cfs Landmarks or photos TA Landmarks or photos TA Large Woody Debris ⁴ vithin bankful width No. of LWD Pieces vithin wetted width Tsh Migration Barrier ⁴ y/n)? Ist ⁷ Ist ⁷ Ist Aigration Barrier ⁴ y/n)? Ist ⁷ Ist Sig (sq-ft) Est. Inflowmations:	N/A Could	Basilier Bas	e i Length class	\$10034 10034 10034	9 Diameter class Y 41 Berry Luces	Length class 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ no 13 2x	370 Diancier class 1 1 1 5 2+5 0 rateral 2+5 0 rateral orateral outur be	Length class	p - n p 13 . A c d the period	Diameter class X X 6 X Z	Length class 1 1 1 1	\$ 300 13 · NA 200 N/A	72 Diameter class	Longu Class

The minimum unit length should be 1x active channel width, unless there is something notable or unique about it. ² Note if cover is a significant or dominant feature of the unit:

(e.g., logs in stream, lots of boulders, >25% surface area has instream or low overhanging vegetation, etc.) *Channel Conlinement: 1=Confined Shallow; 2=Confined Deep; 3=Moderate Confined (<2x wetted channel width); 4=Unconfined (>= 2 wetted channel widths)

45K Q/C initials:

 (\hat{n})

⁵Criteria for LWD is:any downed wood within bankfull width of channel =or> than 1/2 bankfull width.

Size classes: 6-12", 12-24", 24-36", or 36"+ x 3-10', 10-25', 25-50', 50-75', 75'+ (le. 6 | 25 = 6-12", 25-50')

⁶ Waterfalls, high velocity chutes or cascades at approx bankful flows. NOTE VERTICAL DROP and IF CONDITIONAL or PERMANENT

7 Spawning Sized gravel submersed in an area of adequate depth and velocity within one unit

Notes regarding access points (read condition, bridge crossings, trails, etc.)

#1-pool at helicopter landing #3 produce a slightly diverg channel around big rocks Apat short rappid forms a control between 2 sections of pocket water

#5

UTM: 066076, 1	1359	471	NAD 83 (E	labitat unit N	io	د			PM.		120				Map Grad	ent:	
Habitat Unit #	6	1420722		7				8	-		9	010	0111	DAD	10	CAS	CHU R
Habitat Type ¹	FALL	LGR	CHU RAP GLI RUN	FALL	LGR		RAP	FALL (LGR GL		FALL	LGR	7.225	RAP	FALL	LGR	GLI R
	STEP	POW	SHT COP	STEP	POW		COP	STEP	POW SH	and Sectorization	STEP	POW		COP	STEP	POW	SHT C
note if dammed pool	MCP	LAP	TRP) PLP	мср	LAP		PLP	МСР	LAP TR	P PLP	MCP	LAP	TRP	PLP	MCP	LAP	TRP Z
Length (ft)	210	0	<u> </u>	14	21	9		28			105			_	125	-	1
Est. Avg. Width (ft)	98	60,	68	5	2;7	5,2	3	75	T		7,5	,60	<u>k. </u>		-	17	42
Est. Avg. Pool Depth (ft)	8.	53	0	9	5,3	3,0		-	·					4	10,	6,4	,v
Max. Pool Depth (ft)	8	1		9	-3(÷ 9	7	-			-		_		104	1 m	- 6.0
Pooltail Embedded % Significant Cover? ²	INSIGNI		BLDR	26/		BLDR	_	INSIGNIE	BLD	Ð	INSIGNE	1	SLDR		INSIGNIE		BLDR
	VEG	r	WOOD	VEG		WOOD		VEG	WO		VEG		NOOD		VEG		WOOD
SUBSTRATE COMPOSITIO	BED	BLD	COB	BED	BLD		COB	BED	BLD	COB	BED	BLD		COB	BEB	BLD	c
Dominant Substrate	GRV	SND		GRV	SND		SLT	GRV	SND	SLT	GRV	SND		SLT	GRV	SND	1
6113 June 1	BED	BLD		BED !	BLD	$\overline{\mathbf{x}}$	COB	BED	BLD	COB	BED	BLD	1	COB)	BED	BLD	5
Subdominant Substrate	GRV	SND		GRV	SND		SLT	GRV	SND	SLT	GRV	SND		SLT	GRV	SND	
Dominant	BED	BLD	СОВ	(BED)	BLD		сов	BED	BLD	COB	(BED)	BLD		COB (BED	BLD	(
Bank Substrate	GRV	SND	SLT	GRV	SND		SLT	GRV	SND	SLT	GRV	SND		SLT	GRV	SND	
Length of LB and RB				A				,									
Exposed Banks (feet)	Ø			$ \varphi $				Ø			ob				Ø		
Confinement ⁴	1			H				7			1	_			1		
Unit Flagged/ Labeled? (Y/N)	n	2		1 n	D			0.0			100				Hes	1.	an
								no	100	Ino	no				NC3	17	7.1
Tributary Inflow in cfs	n			no				holefri	16-	1	no		ns	_	L-D4	10	
Landmarks or photos	13	73		137				137	/	CLUP	137	S L	35 61	Length	BA	Diameter	++
		Diameter class	Length class		Diameter class		Length class		Class	Length		class		class		class	
Large Woody Debris ³					/	-	_		1			1	1			/	
within bankful width	-/			/	_		-	-4			1				1		
No. of LWD Pieces	13	20	- 12	-	-			Ŕ			1 ~				d		
within wetted width Fish Migration Barrier		7 /	DO_	-0	Attal	42.51		P.	0666	710	ø				14	2	
(y/n)?	no)		L D	0	an le		Yes	43	59581	no				1 ' Y	0	
Spawnable Gravel Area (sqft) Est. ⁷	9X(fint	water	0			8	2			A				R		1
(1/4" - 2.5")	0	nn	nargiv	P	_			4	_		φ			-	14	-	<u>s</u>
Maximum Spawning Gravel Patch Size (sq-ft) Est.	0	116		N	A			NA	5 ft.	perm	NA				N/	4	
Comments /	San	du h	unle	L tre fi			-	(ST)	bar	mer	10.				need	stin	acces
Observations:	02	12.00	Npoolin					Som	SM. 0	JOEC Y							HI B
Fish? Wildlife? Amphibs? Backwater or side chan. amphib	0		10	1				man	(Role	tral					AL	re	1.
habitat? Riparian? Landmarks,	6	OWNI	ngu					arto	- 000	tish					End	UTA	1 block
Photo #5, Etc.	10	an.	>					60+	18 15	1. grad					al -		43
¹ FALL = Falls, CAS = Cascade, Pools: COP = Convergence, M													Pocket W	later, St	HT = Sheet	10	1.10
The minimum unit length	should be	1 x active	channel width, u	inless then	e is some	athing notal	ble or u	unique abo	ut it. Mut	mouth no chul	DAA1	ls no	0.01	voltin		\sim	010
(e.g., logs in stream, lots of	boulders,	>25% su	face area has in	nstream or	low over	hanging ve	getatic	n, etc.)	(N)	S. Pull 8.	8 N.	- SI	Q/C initi			K	ľ
⁴ Channel Confinement: 1=Co ⁵ Criteria for LWD is:any down								annel width); 4=Unconfi	ned (>= 2 w	vetted char	nel width				. 1	
Size classes: 6-12", 12-24	", 24 -36", c	or 36"+ x	3-10', 10-25', 2	5- 50', 50-7	5', 75 ' + (i	ie. 6 25 =	6-12",	25-50')					lool	km	star	ard	
⁵ Waterialls, high velocity chut ⁷ Spawning Sized gravel subn							and IF	CONDITI	ONAL or PER	MANENT			3	0			1
													4	-0	omi	ng	bro
Notes regarding access points (road condition, bridge																	1
points (read condition, bridge crossings, trails, etc.) phath 137 different k lery difficul =10 flagge c	. a.		· L·	1	6.10	n	HI	IR I	19 a	nd :	#10		00	rC	cont	10	but
nhah 137	1 tr	ans	, non	be	iwi	eri	1.1			, te,		1					
Stead k	pol	tyr	205					. #			·		A -	-h	en	bed	rele
		11		2011 C.41	-++			1 11	1000	1000	WICH	NS	େଟେ⊂	>r u			

middle yuba TN yuba metr KPIGB Stopped & HMU 10 - too steep & dingerous to entrue 0660691/4359615 (On LOA ciff) rough mecane from ciff 60 hong 40' wide 15% grad. CAS # 11 "Ing 75'mile # 12 STEP 95 #13 50' 75' CAS # 1/4 POL and cirke 1380 Shins entire sequence phisto Ħ FILL Ned where stopped a ceff above #10 laseled "My thy Houro" (My 7 My) below my/Ny Inchin 665 pow last, stern deep went. walls/blogs se bldrs. TRP not study site material. no 25555 DTAI 1406 -> LOSE TLE 7 across Sr. CAS 1407 415 SLAND (AS-) shalf me tolls intro a 1408 605 1401 ->CAS Bldr. dom son petches of ge gravel inter bldes where shools Thes het a whet lots pocket pools, where the Stille Sed

DEAL

DARLING CORP TACOMA, WA 984 www.BrteintheRain.com

9/14/09 Middle N. Yuba June. PHOfy (below inch - rip. Zme) UB limited Riparian veg. community due to sheer rock slopes of river canyonno soils/transitional zone for established) community. Plenty of riparian/mesic OBL plants, such as Salix Meida, S. exigua, Alder incanus, Populus transami, at bars and base of canyon walls where wider Typical riparian barbs: 2 asters (to be keyed later) brickellia, and occos. Carer nudata scattered throughout bailders at water's edge. carey good indicator of turbulent flows & establish scd deposits (see Sedges of Pac. NW. book as reference) Upland species generally ~ 37-20-12 above boulder bar to includes canyon live bak as dominant. some grey pire, ponderusa back Dale Some greas GN On S-Factory & MP grass (too far to is) and Archtostaphyla patua as under smid story. Hyp per (Hamoth weed), Satter broom dominate @ base starcess read tomain road. Also spreading for short dist at River Junction.

STREAM HABITAT										ing)		Data Sh	eet #						
Stream/Reach/Subreach:	m	1 0	in	144	19 (Even	Um y	(IN)				1	. 7	~				
10/1	B	1		- / 1		100)			Page		of	G .				
	1	1711	1		5.2	040	i.					Date	9-1	60	4				
UTM: 0664871	0/450	01731		(AD 83 (H	abitat unit N	io_]	5 0-	ye.			PM						Map Grad	ient:	_
Habitat Unit #		1				2			3	PL	IT *	ř.		3				4	
Habitat Type ¹	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS CH	IU RAP
	HGR	LGR	GLI SHT	COP	HGR STEP	LGB	GLI	RUN	HGR	LGR	GLI	RUN	HGR	LGR	GLI	RUN	HGR STEP	(LGR) GI	
note if dammed pool	MCP	LAP	TRP	PLP	MCP	LAP	TRP	PLP	MCP	POW	SHT	COP	STEP MCP	LAP)	SHT	COP	MCP	POW SE	
Length (ft)		74	1			63				47			- Charles	3B2	-		7	223	
Est. Avg. Width (ft)	49	31	3	7	38	38	48						136	143	149	135	115	107 119	
Est. Avg. Pool Depth (ft)		/				-							35.	3,1	0 4	0.5		-	
Max. Pool Depth (ft)	BAD=	226				-								3.5				1	
Pooltail Embedded % Significant Cover? ¹	INSIGNIE	-			DUCIÓN	-	3				\sim	~	-	50	10		-	<	
	VEG		BLDR WOOD	· `	INSIGNI VEG	2	BLDR WOOD		INSIGNIF VEG		WOOD		ENSIGNI VEG		BLDR WOOD		VEG	9 BLI WO	
UBSTRATE COMPOSITION	BED	6LD	5	COB	BED	BLD		COB	PEP			6	pup			COB	ppp	BID	6
ominant obstrate	GRV	SND		SLT	GRV	SND		SLT	BED GRV	BLI		OB SLT	GRV	BLD		SLT	BED GRV	BLD	COB SLT
Subdominant	BED	BLD		COB)	BED	(BLD	-	COB	BED	BLI	-	COB	BED	BLD		COD	BED	(BLD)	COB
Substrate	GRY	SND		SLT	GRV	SND		SLT	GRV	SNL		SLT	GRV	SND		SLT	GRV	SND	SLT
Dominant	BED	(BLD)		СОВ	BED	GLD)	COB	BED	GLI	-	COB	BED	GLD	-	COB	BED	(LD)	COB
Bank Substrate	GRV	SND		SLT	GRV	SND		SLT	GRV	SNL		SLT	GRV	SND		SLT	GRV	SND	SLT
					and the statement	Distance	21000								3-1-C				and a second
ength of LB and RB xposed Banks (feet)		Ð	÷	× - (Ð	-			_	-								
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andmarks or photos DTA	14514	1064	3141	67	# 146	BWS	>		#1400	L	15		#14-	to L	15	-	Hy:	71 LUS	>
<i>j</i> #		Hameter class		Length		Diameter class		Length	C	iameter	- /	Length		Diameter		Length		Diameter	Leogth
arge Woody Debris ⁵			1	-		CIASS	1	class	<u> </u>	lass	1	class		class		class		class	class
ithin bankful width		/	1			/	1			/								/	
o. of LWD Pieces	ľ	<u> </u>	1		-				1		1		1	1	1				1
ithin wetted width		Ð				-Ð	1.58		4	9				Ð	•			Ð	
sh Migration Barrier * /n)?		N				A)				N				2	1				
pawnable Gravel Area (sqft)		0			1×1				6x2 (4)		20×6	OBF	100	imbic	etes +		12×3	12×6	6×3
st. ⁷ /4" - 2.5")		-0			6				18×12 6×3 4		7WS. 1043 "	1	embe				6×3	6x2	33
aximum Spawning Gravel			-	2	(x)		2000		14431			I'IXI					12×	6	
tch Size (sq-ft) Est.					1.67				LBA		RBA	1,122		-	-				
omments / bservations:	modil	redt	mil		3%				161-7	IL	64->	6217		stail			Arti	icial po	sole
h? Wildlife? Amphibs?	FAIt	ipziz	21 dz	m	- 10				GUIZ		627	6217	Scan hot o gvice	roni	-60 5	0	mihiv	<u>`</u> ```	
ckwater or side chan. amphib pitat? Riparian? Landmarks,									4627	1	bh		hot o	cours	Kd. G	pes	dictili	J & gr. el	loce.
oto #s, Etc.									Frage	+	r		and the second second		iplit a	l (e	split	butem	· n. y . u
ALL = Fails, CAS = Cascade, CH	III - Chute I	RAD - Ra	d GLL	- Clide F	UN - Duo	RTED - P	Non Due M		8	- 121	see.		cette	ois r	60	(ales 61		redow	<u>`</u>
cola: COP = Convergence, MC	P = mld-cha	nnel pool,	LAP = L	ateral, TF	IP = Trench	1, PLP = P	lunge				4%), LGH	= LOW G	radient Hill	10, POW =	POCKET W	ater, Sr	II = Sueen	μ.	P
The minimum unit length shots if cover is a significant or	dominant fe	eature of	the unit	:						t it.								1 July	\mathcal{M}
(e.g., logs in stream, lots of b	oulders, >2	5% surfa	ce area	has inst	tream or lo	w overha	anging ver	getatio	n, etc.)						Q/C init	als:		20	~ / /
Channel Confinement: 1=Confi Criteria for LWD is:any downed	l wood with	in banklu	il width	of chanr	nel ≖or> th	an 1/2 ba	ankfull wid	th.		4=Uno	onfined (>= 2 we	itted chan	nel width	s)				\bigcirc
Size classes: 6-12", 12-24", Vaterfalls, high velocity chutes	24-36",or 3	36"+ x 3-	10', 10-3	25', 25-5	50', 50-75'	, 75'+ (ie	6 25 =	6-12". 3	25-50')		DEDUC								
pawning Sized gravel subme	rsed in an a	area of ac	lequate	depth a	nd velocity	/ within o	ne unit	and IF	CONDITIO	WAL OF	rehmA	NENT							

* sput looks like was contr. Sp. ch. m LBD.

CONTRACT A DITAT 7	WDINC	STIDY	EVDA	TA (N	TD V	Doom	DC 8.1	7 D	- Crould	ling)			8							
STREAM HABITAT T Stream/Reach/Subreach: Team:	Mill	ldlı	4ı							iing)		Data Sh Page Date	zet # 7-1	of 7	9	-	1		18	w.
UTM: 0664908/	430	1120	N	AD 83 (Ha	abitat unit	No. 5	5 6	ρ			РМ						Map Grad	lient:		.
Habitat Unit#	1	5			<u> </u>	6				4				E	3					
Habitat Type ¹	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP
	HGR	LGR	GLI SHT	RUN) COP	HGR STEP	POW	GLI	RUN	HGR	LGR	GLI	RUN)	HGR	LGR POW	GLI	RUN	HGR STEP	LGR	GL1 SHT	RUN
note if dammed pool	MCP	LAP	TRP	PLP	MCP	LAP	TRP	PLP	MCP	LAP	TRP	PLP	MCP	LAP	TRP	PLP	MCP	LAP	TRP	PLP
Length (ft)		8	3			129	-			140				85	5					
Est. Avg. Width (ft)	120	117			1	05 1	27	115	103	67	BI		79	69	101		201	, un	de	/
Est. Avg. Pool Depth (ft)		1				-	<			in	L.W	1200	125	/	- 66	0-2	1-	bria	ge	
Max. Pool Depth (ft)	*	/				~	3			/	-		2	/				wy	Sy	9
Pooltail Embedded %	-	1			DIGIGLE	~	~~~~			<	0		DISTORY				INSIGNI			/
Significant Cover? ¹	INSIGNI VEG	シ	BLDR WOOD		INSIGN VEG	ur (WOOD		INSIGNI VEG		WOOD		INSIGNI VEG		BLDR		VEG	·	BLDR WOOD	
SUBSTRATE COMPOSITION				0		BLD				(-	BED	BLD		COB	BED	BLD		СОВ
Dominant Substrate	BED GRV	BLD		COB SLT	BED	SND		COB SLT	BED	SND	,	COB SLT	GRV	SND		SLT	GRV	SND		SLT
	BED	(BL)		СОВ	BED	BLD		(OB)	BED	BLD	-	(con	BED	(BLD	5	сов	BED	BLD		COB
Subdominant Substrate	GRV	SND		SLT	GRV	SND		SLT	GRV	SND		SLT	GRV	SND		SLT	GRV	SND		SLT
Dominant	BED	BLD)	COB	BED	BLD	>	СОВ	BED	BLD	>	СОВ	BED	(BLD)	сов	BED	BLD		сов
Bank Substrate	GRV	SND		SLT	GRV	SND	1	SLT	GRV	SND		SLT	GRV	SND		SLT	GRV	SND	Internet	SLT
Length of LB and RB Exposed Banks (feet)		4	€			Ē	Э			Ð)			-É	Э					
Confinement ⁴		1				1				t				1						
Unit Flagged/ Labeled? (Y/N)		46	et 6)		A.	400	re		1	1			N						
Tributary Inflow in cfs		-	- 1			-	~			_	r			Æ	€					
Landmarks or photos	#14	1721	-05	_	#14		-05		# 14	74	W		#147							
	*	Diameter class		Length class		Diameter class		Length class		Diameter class		Class		Diameter class	_	Class		Diameter class		Length class
Large Woody Debris ⁵		- /	1			-	1			-	\checkmark			-			-		_[
within bankful width		\sim				-	_			\checkmark	-		/	—	+					
No. of LWD Pieces		Ð	-		1 19	e	>			Ð				6	,					
within wetted width Fish Migration Barrier *	1	N	o			Ľ,	2 <u></u>			Ŭ				ų						
(y/n)? Spawnable Gravel Area (sqft)	1876		3 17	13	3×1	64	25	/	3×	16	(6		15	×12	2×6	101				
Est. ⁷ (1/4" - 2.5")	14				Constant of the	le lix								3 LX						
Maximum Spawning Gravel Patch Size (sq-ft) Est.		IBX	b			Jex.	1			6×4			<u> </u>	×12						
Comments / Observations: Fish? Wildlife? Amphibs? Backwater or side chan. amphib habitat? Riparian? Landmarks, Photo #s, Etc.	oug, split frim	hod bAu lun	sfied, versi VN	1	10	s mu	- NL	-	Split Some HF (riff	ler	BA	bld	5% rstur rc.rm	n LB Niku	A -				

TALL = Falls, CAS = Cascade, CHU = Chute, RAP = Rapid, GLI = Glide, RUN = Run, STEP = Step Run, HGR = High Gradient Riffle (>4%), LGR = Low Gradient Riffle, POW = Pocket Water, SHT = Sheetlow

Pools: COP = Convergence, MCP = mid-channel pool, LAP = Lateral, TRP = Trench, PLP = Plunge

The minimum unit length should be 1x active channel width, unless there is something notable or unique about it.

² Note if cover is a significant or dominant feature of the unit:

(e.g., logs in stream, lots of boulders, >25% surface area has instream or low overhanging vegetation, etc.)

*Channel Confinement: 1=Confined Shallow; 2=Confined Deep; 3=Moderate Confined (<2x wetted channel width); 4=Unconfined (>= 2 wetted channel widths)

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Size classes: 6-12", 12-24", 24-36", or 36"+ x 3-10', 10-25', 25-50', 50-75', 75'+ (ie. 6 | 25 = 6-12", 25-50')

^e Waterfalls, high velocity chutes or cascades at approx bankful flows. NOTE VERTICAL DROP and IF CONDITIONAL or PERMANENT

⁷ Spawning Sized gravel submersed in an area of adequate depth and velocity within one unit

Notes regarding access

points (road condition, bridge crossings, trails, etc.)

best gravels due to mining digging aut a separating - good size + surfing appropriation of the open lots mining moulfication. Very few modelstee hubit ats due to multiple wse, splits, artificial pools, artificial d/s annols. Not regressitative of hobitat but of mining.

O/C initials:

)rum Spaulding)	
Stream	/Reach/Subread	. Midd	1e lubo	a above	Oreg	an Crede	/
Team:	Kathi-	Racek,	PattyHa	rdesty, a	Saray	Banky	
UTM:	06651	05. 430	02264 NA	0.83 (Habitat unit No	1 (bace	\sim /	

Data S	Sheet # _	1
Page	Ĩ	of
Date_	9/1	3/09

UTM: 066510				(Habitat un		(bas	~/			°М					_	Map Grad	inenti		<u>. </u>
Habitat Unit #				2	100	p		3				3				4			
Habitat Type ¹			CHU R	P FALI	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAI
		_	GLI RU		LGR	GLI	RUN	HGR	EGR)	GLI	RUN	HGR	LGR	GLI	RUN	HGR	LGR	GLI	RUN
5			SHT CO		207010	SHT	COP	STEP			COP		POW	SHT	COP	STEP	POW	SHT	COF
*note if dammed pool			TRP PI	P MCP		TRP	PLP	MCP	LÀP	TRP	PLP	(MICP)	LAP	TRP	PLP	MCP	LAP	TRP	PLP
Length (ft)	The second strategy and	389	0	-2	58	-		40				167		-		10			
Est. Avg. Width (ft)	53,45	,544	2,59	70,1	02,66	_		60,	63				3,6	>		43	41		
Est. Avg. Pool Depth (ft)			12-2	6.3	,2.	5.0		-				7.5	5,3	.2	O				
Max. Pool Depth (ft)				16		1	- 1					7	12	+-)				
Pooltail Embedded %	· · -		-	151		-					-		no m	Ar			- î		
Significant Cover? ²	INSIGNIF VEG		LDR	INSIGN VEG		BLDB		INSIGNIE VEG		LDR VOOD		INSIGNIF	0	BLDR		INSIGNIE		BLDR) WOOD	
SUBSTRATE COMPOSITIO	1	~ >																	
Dominant	BED	(BLD)	co	B BED	BLD	9	COB	BED	BLD	(СОВ	BED	BLD	D	COB	BED	BLD		COB
Substrate	GRV	SND	SL	T GRV	SND	dor	SLT	GRV	SND		SLT	-GRV	SND		SLT	GRV	SND		SLT
Subdominant	BED (BLD	CO	B BED	BLD	0	COB	BED	BLD	1	COB)	BED	BLD		COB	BED	BLD	1	COB
Substrate	GRV	SND	SL	r GRV	SND		SLT	GRV	SND	-	SLT	GRV	SND		SLT	GRV	SND	· ·	SLT
Dominant	BED (BLD	CO	B BED	(BLD	5	СОВ	BED	BLD	_	COB	BER	BLD		СОВ	BED	BLD		NEW SP
Bank Substrate	GRV	SND	SL	106 E222856	SND		SLT	GRV	SND		SLT	GRV	SND		SLT	GRV	TSND		COB
Length of LB and RB Exposed Banks (feet) E YDS 1000 Confinement ⁴	ø			Ø	>			Ø				ø			-	Ø	BA BA	BEI	>
								<u>)</u>			_		_			1		_	
Unit Flagged/ Labeled? (Y/N)	yes-b	ase		no	ê			no				no				Yes	-+-	P	
Fributary Inflow in cfs			-		-			3 1000 - 1				1							
Landmarks or photos [XA]	1333			137	54			132	5			133	6			133	57		
Large Woody Debris ⁵ vithin bankful width	Dia: # cla	meter 155			Diameter class		Length class		Diameter		ength lass		lameter lass	-	Length class		Class	1	Lengti class
io. of LWD Pieces	1		1	14	K,	4		1		1		1	<u> </u>	1				1	
vithin wetted width		_		-				/						/		1	1		
ish Migration Barrier ⁶ y/n)?	/				\sim				/			/	/	-		/			
pawnable Gravel Area (sqft) ist. ⁷ 1/4" - 2.5")	3×15,7	Lyl, 2 Lyl, 2 Frater	43, 1×1 4×6	ø				Ø				42×12,	1			/			
faximum Spawning Gravel	12×6 >gradic			Ø				Ø				42.41	2			/			
Comments / Poservations: ish? Wildlife? Amphibs? ackwater or side chan. amphib abitat? Binarian? Landwarks.	Step run step cha on 1/2 or channel Diff. to	aracte r less pun	itle- vishes of chaling	N/NOV	vousing	ulder di ulder di ulder di staff q s-oud-ol ivu habi	isge .	but 6	reque	bitat, htmo oxes.	2	tail verg lout grav	lots	poul fied spar) N	Madela 7% C	ible s grad	ection	た

to obligue flows mult in pointed for slowin-baxed so unwerequently

FALL = Falls, CAS = Cascade, CHU = Chute, RAP = Rapid, GLI = Gilde, RUN = Run, STEP = Step Run, HGR = High Gradient Riffle (>4%), LGR = Low Gradient Riffle, POW = Pocket Water, SHT = Sheetllow, Poola: COP = Convergence, MCP = mid-channel pool, LAP = Lateral, TRP = Trench, PLP = Plunge

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7 Spawning Sized gravel submersed in an area of adequate depth and velocity within one unit

Notes regarding access points (road condition, bridge

crossings, trails, etc.)

upstream of conjunction @ end of first puol-ruan campgrounds

Q/C initials:

tream/Reach/Subreach:	11.1	01 - X	I. I		abor	en	-		~			Data She	eet #	1						
tream/Reach/Subreach:	Mia	vie :	las	201	etto		rege	suc	х,		1	Page	2	of	_					
eam: <u>KP, PH, G</u>	B,				i.							Date	<u>413</u>	09						
TM: 0665372	2, 431	217	1N/	AD 83 (H	ibitat unit N	56	ase				PM		32				Map Gra	lient:		
labitat Unit #	15				6				7*	-			8				9			
Labitat Type ¹	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP
	HGR	LGR	GLI	RUN	HGB	LGR	GLI	RUN	HGR	LGR	GLI	RUN	HGR	LGR	GLI (RUN	HGR	LGR	GLI) RUN
	STEP	POW	SHT	COP	MCP	POW	SHT	COP	STEP MCP)	POW	SHT	COP	STEP	POW	SHT	COP	STEP	POW	SHT	PLP
note if dammed pool ength (ft)	170		TRP	FLF	40	LAP	INT	FLF	88		IM	T LA	124	Ditt		100	210	Carlo Carlo		
st. Avg. Width (ft)		6,3	7		45	43.	39		55	.51				48	59		55	48,4	3.5	4
					_	1-4			5	4	75	,0						1	/	
ist. Avg. Pool Depth (ft) fax. Pool Depth (ft)	-				-				5	-)		10	-	s)			-	h		
ooltail Embedded %	-				-				-	A-	\sim		-				-	-		
ignificant Cover? ²	INSIGNE VEG	r C	SLDR/		INSIGNI VEG	F (BLDR		INSIGNE VEG	FC	BLDE		INSIGNI		WOOD		INSIGN	FC	BLDR	
UBSTRATE COMPOSITIO	N			196710	10.000	2		2000		7		0.000						~		
lominant	BED	BLD)	COB	BED	BLD		COB	BED	BLD		COB	BED	BLD		COB	BED (SNI		COB
lubstrate	GRV	SND		SLT	GRV	SND		SLT	GRV	SND	,	SLT	GRV	SND		SLT	GRV	8.1040FF		SLT
ubdominant ubstrate	BED	BLD		COB	BED	BLD		COB	BED	BLD		COB	BED	BLD SND		COB SLT	BED GRV	BLI		SLT
	GRV		, 	SLT	GRV	SND	-	SLT	GRV	SND	5	SLT	GRV			COB	BED	(BL)	-	COB
ominant Jank Substrate	BED	BLD		COB	BED GRV	BLD		COB	BED GRV	BLD		COB	BED GRV	BLD		SLT	GRV	SNI		SLT
	GRV	SND		SLI	GRY	SND	10000	361	GRV	SND		361	GRV	BILD			-	-	-	-
ength of LB and RB	4				~	1			-				~				2	and	uldo	WAL.
xposed Banks (feet)	Ø				Ø				φ				Ø			_	101	7		
onfinement ⁴	3				3				3	8			3	~ 1			1			
nit Flagged/ Labeled? (Y/N)	ves	-60	HU.	m	no				no	>			no	1			Ne	5-7	top	
ributary Inflow in cfs	1				~					->134	3 12	41	-				12	_		
andmarks or photos	133	*			133	a			1442	100	m=1		134	14			13	46		
and the set of process		Diameter	100	Length		Dianteter		Length	cont	Diameter	MEL	Length	12	Diameter		Length	12.1	Diamete		Length
		class	~	class	#	class	S.	class		class		class		class	7	class		class	1	class
arge Woody Debris ⁵ ithin bankful width		\neq	-				-													
						/	1				1						1	1	1	
o. of LWD Pleces ithin wetted width		\geq				/	_		2	/	/			/			1	-		
ish Migration Barrier ⁶	no				0	<u> </u>			no	1			no				n	D		
n/n)? pawnable Gravel Area (sqft)					170				110				1×1	_				x1, 1	×4	
sL ⁷	-						3			6			1.10.50				1. 1		,	
/4" - 2.5")			-								-		1.cl			-				-
laximum Spawning Gravel atch Size (sq-ft) Est.	-								-				IXI				1 ×4			
omments /	High	Flow	side	2.4	Highly	mod	ified r	iffle-	Dam	ned P	001*	do.	se	e bel	ow	(#8)	de	pers	ectio	n in
bservations: sh? Wildlife? Amphibs?	exceller	and mod	iasi	ient,	crist. pool	- Jam	ned a	1 cob	NOT	mode	1× de	state ili	red				mid	dec	fglig	te- fredi
ackwater or side chan. amphib	Caretr	indata.	area	+ "	a'	. 90	adie	nt	creativ	s-dug	the	fied	9				Obvi 4	e er	NOAT	due
ubitat? Riparian? Landmarks, noto #s, Etc.	sedin	stabiliz high f	urb	avea		. 0.		• • •	back	heck	ins	m					tor	nodif	ricoti	on;
	both b	inks :	701.0	cove	ige	3	ľ		2						-			-	et t	
ALL = Falls, CAS = Cascade, C Pools: COP = Convergence, N								HGR =	High Gradie	int Rittle (>	4%), LG	R = Low C	Gradient Rif	le, POW =	POCKET	water, S	n	VOU	s cui	ble
The minimum unit length Note if cover is a significant of					nless there	is some	thing not	able or	unique abo	out it.							L9	A	Ch	vale
(e.g., logs in stream, lots of	boulders, >	25% surfa	ace area	a has in											Q/C ini	tials:			HP.	
Channel Confinement: 1=Con Criteria for LWD is:any down									annel widt	h); 4=Uno	contined	(>= 2 w	etted char	inei width	s)				69	
Size classes: 6-12", 12-24	", 24- 36",o	r 36"+ x 3	- 10 ′, 10	-25 ', 25	- 50', 50-75	5', 75 ' + (le. 6 25	= 6-12",			DEDM									
Vaterfalls, high velocity chut Spawning Sized gravel subm								r anα (F			rcHM/	-\N⊆N I								
	1-		N															24		
otes regarding access																				

- High-blow side channel on LBA - 31% gradient

Hg-Run, out because of damns & dug out banks, creating pools at banks, and step pool for length of run Highly mulified; afterhigh flows remove dams, will prob be a run!

STREAM HABITAT T Stream/Reach/Subreach: Team: KP, PH, UTM: 0605552	tiddl GB	le Yub		NID Yubi JANC <u>DW</u> () - łabitat unit N	Vegor	<u>n(</u> u			PM	Data Sh Page Date		or_6	7		Map Grav	dient:		
T. 1.1 T. 1. H	10			1.1			12			-	13	-	-		14			
Habitat Unit # Habitat Type ¹	FALL	CAS C	HU RAP	FALL	CAS	CHU R	AP FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	77 FALL	CAS	CHU	RAP
naoitat Type	HGR		LI RUN	HGR	LGR		UN HGR	(LGR)	GLI	RUN	HGR	LGR	(III)	RUN	HGR		GLI	RUN
	STEP	POW SI	нт сор	STEP	POW	SHT C	OP STEP	POW	SHT	COP	STEP	POW	SHT	COP	STEP '	POW	SHT	COP
note if dammed pool	MCP	LAP T	RP PLP	MCP	LAP	TRP P	LP MCP	LAP	TRP	PLP	МСР	LAP	TRP	PLP	MCP	LAP	TRP	PLP
Length (ft)	118			A	- 1	-80		7			03				22	5		
Est. Avg. Width (ft)	47.0	54.33	,	162	152	A.6	1 5	7.55			58	15.	N		72,	65,57	8	
Est. Avg. Pool Depth (ft)	-	.,, ,		41	2	2.0												
Max. Pool Depth (ft)	5			43	151	~10		_				3,	5		-			
Pooltail Embedded %	-			40	1							יכ		1				
Significant Cover? ²	INSIGNE		DR	INSIGNE	5	BLDR	INSIGN	IF (ALDR)	INSIGNI	F (BLDD		INSIGNI		LDR	5
CIDORD LTD COLDOURIO	VEG	WC	10D	VEG		NOOD	VEG		WOOL		VEG		WOOD		VEG		VOOD	~
SUBSTRATE COMPOSITION	BED	(BLD)	СОВ	BED	BLD	C	BED	BLD	2	СОВ	BED	BLD	D	COB	BED	BLD		СОВ
Dominant Substrate	GRV	SND	SLT		SND						BED	\sim	/			\sim		
		-	-	GRV				SND		SLT	GRV	SND		SLT	GRV	SND	28	SLT
Subdominant	BED	BLD	COB	BED	BLD		OB BED	BLD		COB	BED	BLD		COB	BED	BLD		COB
lubstrate	GRV	SND	SLT	GRV	SND	S	LT GRV	SND		SLT	GRV	SND		SLT	GRV	SND		SLT
Dominant	BED	(BLD)	COB	BED	BLD	C	OB BED	BLD	>	COB	BED	BLD)	СОВ	BED	BLD	2	COB
Bank Substrate	GRV	SND	SLT	GRV	SND	S	LT GRV	SND		SLT	GRV	SND		SLT	GRV	SND		SLT
Length of LB and RB Exposed Banks (feet)	¢			ø	LBA	P.68	Ø				Ø		8		đ	5		
Confinement ⁴	1			2			1								1			
Unit Flagged/ Labeled? (Y/N)	Nes	-bas	5	n	7		nõ				no		74		yes	toF	>	
Fributary Inflow in cfs				no				D			no				0			R.
	134	1	_	-	_		111								no		_	
Landmarks or photos	-	1			48	_	13				135			*	135	51		
	1	class /	Length class	#	Diameter class		ngth ASS #	Diameter class		Length class		Diameter class		Length class	*	Diameter class		Lengtl class
Large Woody Debris ⁵		1			/	Ê		1	Ĩ			/	Ĩ			0	ĩ	
within bankful width						1	1	1	- î		/		1	8.0		1	1	
	1					1	1		Î		1		1	- A	1		1	
io. of LWD Pieces within wetted width	1			1			1	~			/				1	/		
Fish Migration Barrier ⁶ y/n)?	no			n	0		n	,			no				1	/	1	
Spawnable Gravel Area (sqft)					_	7 11		1×2,1	XI	2.12	210	1.71	1411.	امد ام	AXI	12×20	ut a	W
Est. ⁷ 1/4" - 2.5")	lxl,	ואי		1 VNI	,	2,11	5+3	out	st w	ater	141	145	171,17 17,25	r1, CAI		inchal 124.2		1000
Aaximum Spawning Gravel Patch Size (sq-ft) Est.	1×7		÷	3 🗙)		5×				2×		6121	r 1 6 7 4	847		×6	
Comments / Diservations: 7ish? Wildlife? Amphibs? Sackwater or side cham. amphib abitat? Riparian? Landmarks, fuoto #s, Etc.	Step-1 HGK Steps	Scoor	al show	10" Hea run Stur	101-1	Pol 29 biguos	504	grad Nº Sa osits a re him	ndy		3 inc 2 sci 5 cpu glidy	h fish	Sles SA-o Encl	S.ST	stepp	e ind ing, bu where why sca	ut lo	ts

Q/C initials:

Pools: COP = Convergence, MCP = mid-channel pool, LAP = Lateral, TRP = Trench, PLP = Plunge

The minimum unit length should be 1x active channel width, unless there is something notable or unique about it.

²Note if cover is a significant or dominant feature of the unit:

(e.g., logs in stream, lots of boulders, >25% surface area has instream or low overhanging vegetation, etc.)

Channel Confinement: 1=Confined Shallow; 2=Confined Deep; 3=Moderate Confined (<2x wetted channel width); 4=Unconfined (>= 2 wetted channel widths)

⁵ Criteria for LWD is: any downed wood within bankfull width of channel =or> than 1/2 bankfull width,

Size classes: 6-12", 12-24", 24-36", or 36"+ x 3-10', 10-25', 25-50', 50-75', 75'+ (ie. 6 | 25 = 6-12", 25-50')

[®]Waterfalls, high velocity chutes or cascades at approx bankful flows. NOTE VERTICAL DROP and IF CONDITIONAL or PERMANENT

⁷ Spawning Sized gravel submersed in an area of adequate depth and velocity within one unit

Notes regarding access points (road condition, bridge crossings, trails, etc.)

#19- Spawn grav ount: 2×1.5, 1×1, 1×1, 2×1, 1×1, 2×20hannel margin, banke. Fulldepth 1,75 [2×16 above bankful (next page)

STREAM HABITAT Stream/Reach/Subreach:_ Team: KP, PH, UTM: 0665846	Middle Yi GB	iba	bot	we we	rego	n Spauld	eek_	PM	Data She Page <u>4</u> Date	*** <u>2</u> } }/13	of			Map Grad	_	4. Sa.	
	<u> </u>	_NAN 93 (B	L and				2	PM					_	<u> </u>	icut.		
Habitat Unit #	15		16			1				18			ar-1923	19		120001	
labitat Type ¹	FALL CAS CH	LI RUN	FALL HGR	CAS CI	LI RUN	FALL HGR	CAS LGR	GLI	RAP RUN	FALL HGR	CAS LGR	GLI	RAP RUN	FALL	CAS LGR	CHU GLI	RAP RUN
	STEP POW SH		STEP	POW SE		STEP	POW	SHT	COP	STEP	POW		COP	TEP	POW	SHT	COP
tote if dammed pool	MCP LAP TI	EP PLP	MCP	LAP TH	IP PLP	MCP	LAP	TRP	PLP	MCP)	LAP	TRP	PLP	MCP 1/2	LAP	TRP	PLP
ength (ft)	\$0		45.1	17,65		32	10	67	-	42	E1	21	-	38	40.2	2	
st. Avg. Width (ft)	62,61,48		172,0	17,00			1141	64		10	1211	27		201	10,0	· C	
st. Avg. Pool Depth (ft)	<u> </u>					8,5	13,	0		35	, 2,7	5,1,5	0		·		
fax. Pool Depth (ft)	·			-		8	0.10			3,5	5		•				
ooltail Embedded %	INSIGNIF BLI		INSIGNI	F /BLI	np?	307		LDE	,	Ø-s	cour	ALDR		INSIGNU		BLDR	5
ignificant Cover :	VEG WO		VEG	WO	OD	VEG	4	WOOD		VEG		WOOD		VEG		WOOD	<u></u>
UBSTRATE COMPOSITIO	Colors.	2010000	(second	6	0.120-0.1	i.			Same	5400007	77 5						1. Children
Dominant	BED BLD	COB	BED	(BLD)	COB	BED	BLD	Ζ.	COB	BED	BLD		COB (BED	BLD		COB
ubstrate	GRV SND	SLT	GRV	SND	SLT	GRV	SND		SLT	GRV	SND		SLT	GRV	SND	-	SLT
ubdominant	BED BLD	COB	BED	BLD	COB	BED .	BLD		COB	BED	BLD		сов	BED	BLD		COB
abstrate	GRV SND	SLT	GRV	SND	SLT	GRV	SND	3	SLT (GRY	SND		SLT	GRV	SND	2.	SLT
ominant	BED (BLD)	COB	BED	BLD	COB	BED	BLD	1	COB	BED	BLD)	COB	BED	BLD		COB
lank Substrate	GRV SND	SLT	GRV	SND	SLT	GRV	SND		SLT	GRV	SND	e	SLT	GRV	SND	D	SLT
Length of LB and RB Exposed Banks (feet)	Ø		ø			Ø				ø				Ø		yî.	
onfinement ⁴	1 - FPh	1/20	1			1				1							
nit Flagged/ Labeled? (Y/N)	Yes-ba	se	no	Ì		no				NO				yes	-		
ributary Inflow in cfs	no		n	2		no				no				no			
andmarks or photos	1352		13	53		135	Ц			135	5			13	56		
	Diameter	Leagth		Diameter	Length		Diameter		Length		Diameter	5	Length		Diameter		Length
640 -	# class	class		class	class		class	•	class		class	1	class		class	1	class
arge Woody Debris [®] ithin bankful width											/	-		1	r		
						1				/			_	1			-
o. of LWD Pieces				/			/		_	//	-			17			
ithin wetted width ish Migration Barrier *				/		1			-	/	-	_		10			
/n)?	no		-	ho			0			nc				no	_	1.2	
nawnable Gravel Area (sqft) rL ⁷ /4" - 2.5")	see note pr	t٧	242	above han, m	argin	12×6	-chai good	nma	14.	>	1×2	8		· ·	3 ab ,) 1 l	pure_	BF
aximum Spawning Gravel tch Size (sq-ft) Est.	1216		64.6			1241	-		~	307	(6			1×	64	3	
omments / bservations: sh? Wildlife? Amphibs? ackwater or side chan, amphib bita? Riparian? Landmarks, ioto #s, Etc.	Almost pock but too mu surface as	et	sect	ne blas nons- topinot grad	modelal	Sco	widt	nel(12×12)	Pini ma l co	ch-p lang	oint ds ol		ups sep lots	er 21. er 1/3 veg veg	onl	no wif

¹ FALL = Falls, CAS = Cascade, CHU = Chute, RAP = Rapid, GLI = Gilde, RUN = Run, STEP = Step Run, HGR = High Gradient Riffie (>4%), LGR = Low Gradient Riffie, POW = Pocket Water, SHT = Sheetflow; Pools: COP = Convergence, MCP = mid-channel pool, LAP = Lateral, TRP = Trench, PLP = Plunge

Q/C initials:

The minimum unit length should be 1x active channel width, unless there is something notable or unique about it.

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⁷ Spawning Sized gravel submersed in an area of adequate depth and velocity within one unit

Notes regarding access points (road condition, bridge crossings, trails, etc.)

19 - Sm. rapid (2 waved at top of 1ST step, rapid separates steps End Survey, begin characterization ob666029, 4362161

March	middle beton ore above	Juba		P 50f1	KP, I	9/13/09 HGB
	unit#	HAB	lengh	width	(poolsonly) Wx depth	photot
	20	MCH	105	50,47	5	1357
	Big hdelp	oole base	posts de	up; max de	pth main	3' WScour Lute @bottom
	3×1,6×2	spawn g	rarel			hule@bottom
	2-1	LGR	54	43,40,42		
	37. 9.	adent			3	
		RUN	133	51,53		
101-1012	LX1, 1X1 deep bor	, 21×1 ak	n w/some	6x3, 18x scour, s	light cor	thol events
MM COT		MCP		29,43	7	- pow
ACOMA TeRain	bedrou	ck side	LBA			
Alteint	24	RAP	70	31,22		1358
UNWW	25	CHIN	47	27,18,22	I	1359 -
L DAR		SPLIT	245	1.01		
4	RBA_	HDR, L	BA = RIF	RUN, R	BA = RIF	Runy
	31.	Poul	000	\$21.0°		
	6x4 span	vnaval.	2×2.1/1	, <u>3 1×1,</u> 5 58,96,74	X10, 6X6	
	127	HGR	325	58,96,74		#360
	4º10 g	radj non ines	modoble	multiplev	vater surfo	ces and
	28	MCP	918	97, 119,1049	8	1364 LDS :
	bx1 4	spawno	prav.			1365 LUP
	long tai	W/some	surface			
0 612	dead we	tomorph	1362 -	prob ab	TEYE-	1363
N	interal d	WP KBA	to MCP	wino con	E	4

 \mathbf{e}_i

÷.

Madle giba roregn ce 9/13/09 Plogb anit this pool becomes unwallcable, too deep w Few to no places to get out; very deep wide, bedrock walls w/ full viparian veg. community where suils allow PUN 90 65 29 trench/MCP 433 15 10't dyth 30 CAS END @ bese 30 The preserved L. of 0666588/4361973 1009 -----Froz signing - + 1367 + 1366 0665734/ 4362260 But low boly for This wall

STREAM HABITAT	TYPING SURVEY I	DATA (N	ID Yub	a-Bear, P	G&E Dru	n Spaulo	ding)			1						
	veine .	1 .		1	. 1		F	Data	Sheet #	1						
Stream/Reach/Subreach:	Middle	lub	oa t	2eio	W O	JV H	CUS	C Page		of	<u> </u>					
ream: Kathi	Peacod	·k	GC	<i>rea</i> E	Sailey J	Dai	m	Date	9/11	00	1_					
UTM: 0671924	1/4363951	NAD 83 (H	abitat unit N	1+0	ρ'			PM			-	_	Map Gra	lient:		-
Habitat Unit #			2	~		3			199 - C	50	LIT		. "4	3 		
Habitat Type ¹	FALL CAS CHI	U RAP	FALL	(CAS)	CHU RAP	FALL	CAS	CHU RA		CAS	CHU	RAP	FALL	CAS	CHU	RAP
	HGR LGR GL		HGR		GLI RUN	HGR	LGR	GLI RU		LGR	GLI	RUN	HGR	LGR	GLI	RUN
	MCP LAP TRI		STEP	1000000 III	SHT COP TRP PLP	STEP MCP	POW	SHT CO TRP PL	the second	POW	SHT	COP PLP (STEP	POW	SHT	COP
note if dammed pool Length (ft)	130	r rtr	77		INF FLF	6A	LAP	IRP PL	7	1.000	110	101	T)	114	1.61
Est. Avg. Width (ft)	50.70 1	0		.58.4	.2	54	46	40	10	107	.47	0,	50	-7	ð	21
115 15 - COL 2002 - SAL 1000	10 10 4	-		170,9		1,2,	14			100	1- 6	-	H	2 -	2,0	7.1
Est. Avg. Pool Depth (ft)	10,6,9,	-					BFD.	0	_				4		-1	<i>, , ,</i>
Max. Pool Depth (ft)				2		-	1212	-2	-				0			
Pooltail Embedded % Significant Cover? ²	IND ACCESS		INSIGNI		LDR	INSIGNE	1	BLDR	INSIGN	IF C	BLDR		INSIGNI	FC	BLDR	
SUBSTRATE COMPOSITIO	VEG WOO		VEG		/OOD	VEG		WOOD	VEĞ		WOOD)	VEG		WOOD	K
	BED BLD	СОВ	BED	BLD	COB	BED	BLD	C CC	B BED	BLT	2	COB	BED	BLD	>	COB
Dominant Substrate	GRV SND	SLT	GRV	SND	SLT	GRV	SND	SL	Among Concerns	SNI	/	SLT	GRV	SND		SLT
Subdominant	BED BLD	СОВ	(BED)	BLD	COB	BED	BLD	(cc		BLI)	COB	BED	BLD		COB
Substrate	GRV SND	SLT	GRV	SND	SLT	GRV	SND	SL		SNI	· •	SLT	GRV	SND		SLT
Dominant	BED BLD	COB	BED) BLD	COB	BED	BLD) co		BLI)	СОВ	BED	BLD	2	COB
Bank Substrate	GRV SND	SLT	GRV	SND	SLT	GRV	SND	SL		SNI		SLT	GRV	SND		SLT
				the second second									1	Concerner,		
Length of LB and RB Exposed Banks (feet)	1		\sim			M.			A				d			
	Ø		φ			Ø1			φ				P			_
Confinement ⁴	2		1			1,FB	W = (20-	1				4	2	-	
Unit Fiagged/ Labeled? (Y/N)	yes-top	>	no	2		no	2		5	0	20		10	D. '	P	>
Fributary Inflow in cfs	no		no	(no			nt)			5	0		2.0
andmarks or photos DTA		1.05	1444			144	5		110	41			14		UK I	LIVEL
	adats in the second second	LD5 Length		Diameter	Length	1.1.1.	2 Diameter	Leo	- T	Diameter		Length	19	Diameter		Length
	Diameter 60%	tclass		class	class	- an :	class	cla		class		class		class	11	class
arge Woody Debris				1	1									1-	<u> </u>	-
vithin bankful width	$\vdash A \rightarrow \downarrow$					A				1			+			
to. of LWD Pleces			0			R				,			N			
vithin wetted width Fish Migration Barrier ⁶	P		φ			φ			ϕ		÷		4	-		
y/n)?	no		no	2		No)		na	>			n	0		
Spawnable Gravel Area (sqft)	A		44 1	d	2	442	2,10	X23	12 2	X3 6	aton	6 Wick		43	124	3.
Est. ⁷ 1/4" - 2.5")	19,		1-174	P			· · ·	, ,	JX-	2 01	YZ	-	¥1,	10	wt.	
faximum Spawning Gravel	ā la		11	ен. К		bx	7_		10%	-)			0	2		
atch Size (sq-ft) Est.	na		NI	5		e k			3	13			2Y	5		
	difficult a	ccess	119	600	adjent	la b	pulde	son	5%	gys	dier	x	C.	nall	flo	was
Comments /	william on		1111	- UXY1	nyperi	wa a	6 ha	son	1/2	clas	nne	lis	1 2	pul	der	SV2
Comments / Observations:	to botton	1		V		11/////										
Comments / Dbservations: Tish? Wildlife? Amphibs? Backwater or side chan. amphib	to botton			V		mour	gin		14	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NIN	hal	15	Cont	lo	10
Comments / Diservations: ish? Wildlife? Amphibs?	to botton			U		TV COLV	gin		ste	Par	in,	haf	121	ade	ion r2	12p

O/C initials:

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⁴ Waterfalls, high velocity chutes or cascades at approx bankful flows. NOTE VERTICAL DROP and IF CONDITIONAL or PEHMANENT

⁷ Spawning Sized gravel submersed in an area of adequate depth and velocity within one unit

Notes regarding access points (road condition, bridge crossings, trails, etc.) #1-arms taken at top of pool - between #1 and #2--14143 LOS Brown near for of whit the #11 - 1449 photo of step at top of #4 from LBA LDS

UTM: 0672		119	6 026 NAD 83 (H	abitat unit l	No UY	0,0	1	PM					Map Gra	dient:		
Habitat Unit #	5.		_	6			7	-		SF	NIT		8			
Habitat Type ¹	FALL		CHU RAP	FALL		CHU RAP	FALL	CAS CHU		FALL	CAS CI		FALL	CAS	CHU	1
	HGR	LGR POW	GLI RUN SHT COP	HGR STEP		GLI RUN	HGR	POW SHT	RUN	HGR STEP	LGR GI POW SH		HGR) LGR POW	GLI	1
note if dammed pool	MCP	LAP	TRP PLP	MCP	1	TRP PLP	MCP	LAP TRP	11 severes	MCP	LAP TH	an analysis	MCP	LAP	TRP	2
Length (ft)	111	16	b gr		97		38	: 109	0.000	35			90	-		-
Est. Avg. Width (ft)	61,	51,5	55	54	,61,	68	530	60,58		-			7	57	7,	3
Est. Avg. Pool Depth (ft)				3.	5.		-								- 1	
Max. Pool Depth (ft)		BFT	>-3	3	5,3.	1775	BF	フニろ		-			BF.	De	Z	
Pooltail Embedded %			~	9	_	-	-	-			e	5	-	e	~	
Significant Cover? ²	INSIGNII VEG		LDR) VOOD	INSIGNI VEG		.DR DOD	INSIGNI VEG	F WOOI		INSIGNI VEG	WO BLI		INSIGNI VEG	FQ	BLDB/	,
SUBSTRATE COMPOSITION	12355	(ALD)	COR	RED							(3)			/	\ \	
Dominant Substrate	BED, GRV	BLD	COB	BED	(BLD) SND	COB SLT	BED GRV	BLD	COB	BED	BLD	COB SLT	BED GRV	BLD		100
		ANNO. AN		-			152	127234720	SLT	GRV	- 6000 (mm			SND		
Subdominant Substrate	BED GRV	BLD	SLT	BED GRV	SND	COB SLT	BED	BLD	COB	BED	BLD	COB	BED	BLD		C
	-			-	-		1	SND	SLT	GRV	SND	_		1	0	
Dominant Bank Substrate	BED	SND	COB SLT	BED	SND	CON SLT	GRV	SND	COB SLT	BED GRV	SND	COB SLT	BED GRV	SND		
	1	_							U A A	Sart.	NAME.			0,10	10.4	
Length of LB and RB Exposed Banks (feet)	11			d	6		A			A			N			
Confinement ⁴	1			ų.			4			4		_	P			-
	10	c. 1	20	1.0		.0	1			1.00			1			-
Jnit Flagged/ Labeled? (Y/N)	15	2-1	op	yes	s bas	a(50			n	2		no	Ř		_
ributary Inflow in cfs	no			'n	0		NO			n	D		n	0		
andmarks or photos	145			14	51		14	52		14	531.	omli	A	145	41	R
		Diameter class	Leogth class		Diameter class	Length		Diameter class	Length		Diameter	Length		Diameter class		
arge Woody Debris ⁵		1	1		1	1		/ 1			1 1			\Box	1	
vithin bankful width	-A		į	_/	<u> </u>		1						/		1	
io. of LWD Pieces	68		1	A		1	-	1		/			1	<u> </u>	1	_
vithin wetted width	Y			0			Ø			R)		0	1	_	_
ish Migration Barrier * y/n)?	no			no)		no			\sim	0		NO	<u>[</u>		
pawnable Gravel Area (sqft) st ⁷ /4" - 2.5")	ŻY	2,6	x1.5	Ø		×	3	×1,2×2	1	rh			Ø			
faximum Spawning Gravel	10%			n//	a		2	3×2		m	a		, le	\ \	2	
atch Size (sq-ft) Est.	-	معجم ومشاركة	and that	17			1.51	1L		1 ~/	0~	0	N/F			
Observations: ish? Wildlife? Amphibs? ackwater or side chan. amphib abitat? Riparian? Landmarks,	LBA	Su		067	contra 2025/ 240222	ntings How	SA)	delab	ent.	12 1	han n; 1/2	pow	5%	>		
FALL = Falls, CAS = Cascade, C Pools: COP = Convergence, Me The minimum unit length si Note if cover is a significant or (e.g., logs in stream, lots of t Channel Conlinement: 1=Coni Criteria for LWD is:any downe Size classes: 6-12", 12-24",	CP = mid-chi hould be 1> r dominant boulders, >2 lined Shalld d wood with , 24-36", or	annel pool, I k active chi feature of I 25% surfac xw; 2=Coni hin bankful 36"+ x 3-1 des at appr	LAP = Lateral, T annel width, ur the unit: ce area has ins lined Deep; 3 = l width of chan 10' , 10- 25' , 25- rox bankful flov	RP = Tranc less there tream or I Moderate nel =or> ti 50', 50-75 vs. NOTE	h, PLP = Plun b is something ow overhang Confined (<2 han 1/2 bank b', 75'+ (ie. 6	g notable or ging vegetatio 2x wetted ch dull width. 25 = 6-12*, DROP and IF	unique abo on, etc.) annel width 25-50')	utit,	(>= 2 we		Q/C	et Water, SH initials:	T = Sheet	low: K	P	

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TREAM HABITAT T	1.3.	survey i fle Yu						•			Data She	eel #_2				ж.	9		
eam: Kathi Pec	icoc	Ł&G	aea	Bai	Dey		0.00	ac y	Urri		Page Date	9/10	00	9		e.	17		
TM: 0672124/	4364	[11]	_NAD 83 (E	labitat unit h	vo Ba	Se	0		ì	PM				_		Map Grad	lient:		a 5
abitat Unit #	9			10				11		14	Q.	12	2_			13	5.	2	
abitat Type ¹	FALL	CAS CH	A.C. 190203-1-1	FALL	CAS	1911/222 11	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP	FALL	CAS	CHU	RAP
	HGR STEP	LGR GL POW SH		HGR STEP	LGR POW		COP	HGR STEP	LGR POW	GLI	RUN	HGR STEP	LGR	GLI	COP	HGR STEP	LGR	GLI SHT	RUN
ote if dammed pool	(MCP)	LAP TR	and the state	MCP	LAP		PLP	MCP	LAP	TRP	PLP	MCP	LAP	TRP	PLP	MCP	LAP	TRP	PLP
ength (ft)		104		63	3			~	165	-	- Personal I	24	D			~	125	-	
st. Avg. Width (R)	65	55 5	1,56	168	1			56,1	01,104	a .		5	5			75	, 80	0,8	8
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mments / servations: h? Wildlife? Amphibs? ekwater or side chan. amphib jitat? Riparian? Landmarks, oto #s, Etc.	(#			agr	e su tatio tou c vif	Dey		run ho a indu	- like	e, bi	NY SO	agi- ver	e state	ivfa an, ep	cep	but	still BA	por le	es.
ALL = Falls, CAS = Cascade, Cl Pools: COP = Convergence, Mc The minimum unit length si oto if cover is a significant or (e.g., logs in stream, lots of t hannel Confinement: 1=Coni riteria for LWD is:any downe Size classes: 6-12*, 12-24*, 'aterfalls, high velocity chuted pawning Sized gravel subme	CP = mld-ch hould be 1 dominant boulders, > lined Shall d wood wit 24-36",or s or casca	annel pool, LAP x active chann feature of the 25% surface a ow; 2=Confine thin bankfull wi 56"+ x 3-10', des at approx	= Lateral, 1 el width, u unit: urea has in d Deep; 3= dth of char 10-25', 25 bankful flo	RP = Trenc nless there stream or I =Moderate nnel =or> ti -50', 50-75 ws_NOTE	th, PLP = Pi b is someth low overha Confined (han 1/2 ba 5', 75'+ (ie. VERTICAI	unge nging notabl nging veg (<2x wette nkfull widt 6 25 = 6 L DROP в	le or u letation id cha lh. 5-12", ;	nique abo n, etc.) nnel width 25-50')	utit.);4≖Unco	nfined (:	>= 2 we	.2.		् Q/C ini		T = Sheetf	<u> </u>	ſ	
tes regarding access nts (road condition, bridge ssings, trails, etc.) DM H + + + W nayrDW US, B+C, R NG From 2 Accp (from	da the ip.v	mi can can leg co zo f	yon msize t tz	sts of	pavi Jeep 6 Al	the hus	der	slove slove ba	nun s- s-	it in via Mar	ot Sugar	stab mu aCr sin	his h ich r lui r an	ed are cid	co. or 1 A	nsid to	levil coll alix 15	nag ect ex 25	igu

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