Table of Contents – <u>DO NOT PRINT THIS PAGE</u>

One field form packet includes all core and contingent (minus MIM) indicators that could be collected at a site. It is compiled such that if it is printed double-sided, each form will print on the back of the appropriate form for ease of field data collection. In addition to printing entire packets, it may also be desirable to just print extra copies of the physical habitat transect forms. The last form (Veg Complexity) should only be printed for Alaska data collection.

- Verification form (pg. 2)
- Photos (pg. 3)
- Failed site form (pg. 4-5)
- WQ and Bugs (pg. 6)
- Physical habitat transect data (pg. 7-27)
 - 11 main transect and 10 mid transect forms Extra transect forms are not provided in each packet but may be needed to record data for side channels. Side channels should be labeled as "XA" etc. and data should be recorded on main transect forms. LWD on side channels can be recorded on mid-transect forms (back side of the main transect form).
- Large Wood (pg 28-29)
 - 2 forms provided will cover all main channel transects, but extra should be printed to collect LW on side channels.
- Floodprone width (pg. 30)
- Slope (pg. 31)
- Thalweg (pg. 32-41)
- Pools (pg. 42)
- Pool tail fines (pg. 43)
- Presence/Absence of Noxious/Native Vegetation and Human Influence (pg. 44-54)
 - 11 main transect forms
 - Veg and Human are not collected on mid transects so only 11 are provided
 - Veg and Human are collected on side channels so extra forms should be printed.
- Veg complexity (pg. 55)
 - Only print for Alaska crews.
 - Only one form provided in case of accidental printing.
 - AK crews should print 11 main channel copies and extra for side channels.

	Verificat	ion Forn	n				
	Reach In	formation					
PointID		Date		Time			
Stream Name		Project					
	Cr	ew					
Crew Lead							
Crew Member 1							
Crew Member 2							
Crew Member 3							
Field Visitors							
	Arrival a	nd Status					
	Sampled?		Not Sampled?	Fill out Faile	ed Form		
Sampled-Wadea	ble	Sampling	Comments:				
Full Reac	h						
Partial Re	ach						
Interrupte	d Flow						
Interrupte	d Flow and Partial Reach						
Sampled-Boatab	le						
Full Reac	h						
Partial Re	ach						
•	Point Coordinates	Reach Set Up					
Did you move the	point? Y N	#	Bankfull Width	Total Re	ach Length* (m)		
Latitude:		1					
Longitude:		2		Transec	t Spacing** (m)		
Elevation:		3					
Beaver Flow Mo	difications: None Minor Major	4			h= 20*Avg. Bankfull nin. 150m)		
Beaver Signs:	Absent Rare Common	5		**Transect spa	cing= Reach length/10		
Water Withdraw	vals: Absent Present	Avg:					
Weather Conditi	ons: Clear Cloudy Raining Hailing Snowing	Avg.					
Access and Local	Contacts:						

Photos and Reach Coordinates

PointID	
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Crew intials

Camera u	ised:					Date	e: Time:
Bottom of I	Reach Co	ordinates	Top of Reach Coordinates			rdinates	Monument Coordinates
Lat:			Lat:				Lat:
Long:			Long:				Long:
Photo #	Type*	Transect	Direct	tion fa	acing	Location	Photo description/comments
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	
			US	DS	XS	LF RT	

* BR = Bottom of Reach, TR = Top of Reach, F = F-Transect, M = monument, OV = overview, CC = Critical Concepts, FPW = Flood-Prone Width, DB = Depositional Bank, EB = Erosional Bank, EF = Bank Erosional Features, <math>OT = Other

Point	ID			Crew intials	
		Not Sa	mpled Form	n (1 of 2)	
	Reatte			Comments	
	Boatab	le crew needed			
	Above bankf	full or flow too high			
	Other tempo	orarily inaccessible			
	Permanently	Inaccessible			
		access denied			
		access denied			
		able nor boatable			
	Nonta	rget			
	Dry	ephemeral			
	Dry	intermittent			
	Read	ch too short			
		Lentic			
	N	1ap error			
	Destable (no	t compling heatship			
		t sampling boatable for this design)			
			Photos		
Camer	a used:	Date	e:	Time:	
Photo	# Type*	Direction Facing	Location	Photo descr	iption/comments
		US DS XS	LF RT	_	
	US DS XS		LF RT		
		US DS XS	LF RT		
		US DS XS	LF RT		
		US DS XS	LF RT		
		US DS XS	LF RT		
		US DS XS	LF RT		

* BR = Bottom of Reach, TR = Top of Reach, F = F-Transect, OV = overview, OT = Other

Crew int	ials
Not Sampled Form (2	2 of 2)
Detailed Directions/ Access	Attempts
Navigational Coordin	ates
j	Description
]	Description
]	Description
]	Description
	Description
Correspondence Lo	og
Ι	Date:
г	Date:
	<i>Juc.</i>
	Not Sampled Form (Detailed Directions/ Access Navigational Coordin

		Wa	iter Qua	ality & Macroin	wertebrates
PointID				Crew intials	
				Water Quality	
Date: Time	le:	Instrum	ent Model:	Instru	ment Serial #:
Sonde Measure	ments	Flag*			Comments
Calibration Date:					
Temp (C):					
pH:					
Conduct (uS):					
Temp corrected: Y	Y N	*Flags:	R =Reasona	able, S =Suspect, N =No	t collected, NC=Not yet confirmed
Grab sampl	le	Sampl	le Types*		Comments
Date:			D D		

	* O =ori	ginal	, D =dup	blicate, B =blank
Гime:	0	D	Б	
Date.	0	D	D	

	Turbidity (NTU)										
Reading 1	Reading 2	Reading 3	Additional	Additional	Average						
Flag:	Comments:										
*Flags: R =Reason	able, S=Suspect, N=	Not collected									

			Mae	croinv	ertebrates
Method:	Reach Wid	e Targ	eted Riffle		Comments:
Net:	Hess Kick	Surber	Mini Surber		
Date Coll	lected:				
# Loc Sai	mpled:	# of Jars	:		

Additional Comments									

					PHA	B - Mai	n							
Transect]	Po	ointID]	Crew	intials				
(Channel					Bank C	over, Stability, and Angle							
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag	
Wetted			Left Bank											
Bar			Right Bank											
Bankfull							_							
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents			
Bankfull			% Dist LB	Size^	Loca	tion [?]								
Bench			5											
			15											
(Canopy		25											
Left			35											
Center Up			45											
Center Left			55											
Center Down			65											
Center Right			75											
Right			85											
			95											
Dry tr	ansect?				add wet o	r dry-mid								
Y	N	1			add wet o	r dry-mid								
Side C	hannel?				add wet o	r dry-mid								
Y	Ν	1			add wet o	r dry-mid								
Major M	linor Dry				add wet o	r dry-mid								
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated									
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^	
	rosional		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck	

U=Uncovered

					PHAB -	Mid							
Mid 7	Гran			PointID	PointID Crew intials								
Channel						Ba	ank Cove	er and St	ability				
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	ood Bedrock Stable		[#] Flag	
Wetted Bar				Left Bank Right Bank									
	(Comments			St	reambed	Particle	S			osion*]	
				Not Col	lected					D=Deposit E=Erosiona			
				% Dist LB	Size^		Loca	tion [?]					
				5							ver**		
				15							C=Covered U=Uncovered		
				25									
				35									
				45							Stablity [#]		
				55							(visible crack separate block		
				65							accumulated a (bare and stee		
				75						A=Absent		T (1)/	
				85									
				95						Sub	strate Locati	on [?]	
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge	
							add wet o	or dry-mid			ate Non-Mea		
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr		
							add wet o	or dry-mid					

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
	Canopy												
(
Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	Ν	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	Width (m)HVettedBarBankfullHeight (cm)HBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullCanopyLeftCenter UpCenter RightCenter RightSide Channel?YN		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

					PHAB -	Mid						
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
			15						C=Covered U=Uncove			
			25									
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
										Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
	Canopy												
(
Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	Ν	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	Width (m)HVettedBarBankfullHeight (cm)HBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullCanopyLeftCenter UpCenter RightCenter RightSide Channel?YN		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

					PHAB -	Mid						
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
			15						C=Covered U=Uncove			
			25									
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
										Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
	Canopy												
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Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	Ν	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	Width (m)HVettedBarBankfullHeight (cm)HBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullCanopyLeftCenter UpCenter RightCenter RightSide Channel?YN		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

					PHAB -	Mid						
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
			15						C=Covered U=Uncove			
			25									
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
										Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
	Canopy												
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Center Down			65										
Center Right			75										
Right			85										
			95										
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Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	Ν	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	Width (m)HVettedBarBankfullHeight (cm)HBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullCanopyLeftCenter UpCenter RightCenter RightSide Channel?YN		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

					PHAB -	Mid						
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
			15						C=Covered U=Uncove			
			25									
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
										Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
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Y	Ν	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	Width (m)HVettedBarBankfullHeight (cm)HBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullCanopyLeftCenter UpCenter RightCenter RightSide Channel?YN		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

					PHAB -	Mid						
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
			15						C=Covered U=Uncove			
			25									
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
										Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
	Canopy												
(
Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	Width (m)HVettedBarBankfullHeight (cm)HBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullBankfullCanopyLeftCenter UpCenter RightCenter RightSide Channel?YN		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

					PHAB -	Mid						
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
			15						C=Covered U=Uncove			
			25									
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
										Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
			15										
(Canopy		25										
Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	rosional		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

	PHAB - Mid											
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
				15						C=Covered U=Uncovered		
				25								
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
				95						Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
			15										
(Canopy		25										
Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	rosional		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

	PHAB - Mid											
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
				15						C=Covered U=Uncovered		
				25								
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
				95						Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
			15										
(Canopy		25										
Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	Ν	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	rosional		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

	PHAB - Mid											
Mid 7	Гran			PointID					Crew	intials		
		Channel				Ba	ank Cove	er and St	ability			
	Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Flag
Wetted Bar				Left Bank Right Bank								
	(Comments			St	reambed	Particle	S			osion*]
				Not Col	lected					D=Deposit E=Erosiona		
				% Dist LB	Size^		Loca	tion [?]				
				5							ver**	
				15						C=Covered U=Uncovered		
				25								
				35								
				45							Stablity [#]	
				55							(visible crack separate block	
				65							accumulated a (bare and stee	
				75						A=Absent		T (1)/
				85								
				95						Sub	strate Locati	on [?]
							add wet o	or dry-mid		wet,	dry-mid, dry-e	edge
							add wet o	or dry-mid			ate Non-Mea	
							add wet o	or dry-mid		FN=fines HP=hardpa	SN=sand n BR=bedr	
							add wet o	or dry-mid				

					PHA	B - Mai	n						
Transect]	Po	ointID]	Crew	intials			
(Channel					Bank C	over, St	ability, a	nd Angle	1			
Wid	th (m)	Flag		Erosion *	Cover**	Veg	Cobble	Lg Wood	Bedrock	Stable [#]	Obt/Acu	Angle	Flag
Wetted			Left Bank										
Bar			Right Bank										
Bankfull							_						
Heigl	ht (cm)	Flag		Streambed Pa	rticles					Com	nents		
Bankfull			% Dist LB	Size^	Loca	tion [?]							
Bench			5										
			15										
(Canopy		25										
Left			35										
Center Up			45										
Center Left			55										
Center Down			65										
Center Right			75										
Right			85										
			95										
Dry tr	ansect?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Side C	hannel?				add wet o	r dry-mid							
Y	N	1			add wet o	r dry-mid							
Major M	linor Dry				add wet o	r dry-mid							
Left of main	Right of main		Flags: N= No	t collected, E=es	stimated								
Ero	osion*	j I	Cover**		tablity [#]			Substrate	e Location [?]		Substra	te Non-Meas	. Size^
	rosional		C=Covered	F=Fracture S=Slur E=Eroding A=Abs	np L=Slough ent	1		wet, dry-m	nid, dry-edge		FN=fines HP=hardpan	SN=sand	ck

U=Uncovered

Large Wood

PointID

Crew intials

*Remember to survey side channels

Transect:

Transect:												
Large Wood												
Fill in it	f unmark	ed boxes a	re zero									
	Pi	Pieces All/Part In Bankfull										
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m								
0.1 < .3m												
0.3 < 0.6m												
0.6 < 0.8m												
> 0.8m												
		Pieces Abo	ove Bankfu	11								
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m								
0.1 < .3m												
0.3 < 0.6m												
0.6 < 0.8m												
> 0.8m												
m (

	Large Wood										
Fill in i	Fill in if unmarked boxes are zero										
	Pi	eces All/Pa	rt In Bankf	ull							
Diameter	1.5 < 3m	1.5 < 3m $3 < 5m$ $5 < 15m$ $> 15m$									
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
> 0.8m											
		Pieces Abo	ve Bankfull	1							
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m							
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
> 0.8m											

Transect:

	Large Wood										
Fill in it	l in if unmarked boxes are zero										
	Pi	Pieces All/Part In Bankfull									
Diameter	1.5 < 3m	1.5 < 3m $3 < 5m$ $5 < 15m$									
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
> 0.8m											
		Pieces Abo	ove Bankfu	11							
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m							
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
> 0.8m											

Transect:

	Large Wood										
Fill in i	unmarked boxes are zero										
	Pi	Pieces All/Part In Bankfull									
Diameter	1.5 < 3m	1.5 < 3m $3 < 5m$ $5 < 15m$									
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
> 0.8m											
		Pieces Abo	ove Bankfu	11							
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m							
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
> 0.8m											

Transect:

	Large Wood										
Fill in i	if unmarked boxes are zero										
	Pi	Pieces All/Part In Bankfull									
Diameter	1.5 < 3m	1.5 < 3m $3 < 5m$ $5 < 15m$ $> 15m$									
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
>0.8m											
]	Pieces Abo	ve Bankfull	l							
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m							
0.1 < .3m											
0.3 < 0.6m											
0.6 < 0.8m											
> 0.8m											

Large Wood

PointID

Crew intials

*Remember to survey side channels

Transect:

Transect:										
Large Wood										
Fill in if unmarked boxes are zero										
	Pi	eces All/Pa	art In Bank	full						
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m						
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
> 0.8m										
		Pieces Abo	ove Bankfu	11						
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m						
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
> 0.8m										
m (

	Large Wood									
Fill in if unmarked boxes are zero										
	Pi	Pieces All/Part In Bankfull								
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m						
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
> 0.8m										
		Pieces Abo	ve Bankfull	1						
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m						
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
> 0.8m										

Transect:

Large Wood										
Fill in if unmarked boxes are zero										
	Pi	Pieces All/Part In Bankfull								
Diameter	1.5 < 3m	1.5 < 3m 3 < 5m 5 < 15m								
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
> 0.8m										
		Pieces Abo	ove Bankfu	11						
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m						
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
> 0.8m										

Transect:

Large Wood									
Fill in i	if unmarked boxes are zero								
	Pi	eces All/Pa	art In Bank	full					
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m					
0.1 < .3m									
0.3 < 0.6m									
0.6 < 0.8m									
> 0.8m									
		Pieces Abo	ove Bankfu	11					
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m					
0.1 < .3m									
0.3 < 0.6m									
0.6 < 0.8m									
> 0.8m									

Transect:

Large Wood										
Fill in i	Fill in if unmarked boxes are zero									
	Pi	eces All/Pa	rt In Bankf	ull						
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m						
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
>0.8m										
]	Pieces Abo	ve Bankfull	l						
Diameter	1.5 < 3m	3 < 5m	5 < 15m	>15m						
0.1 < .3m										
0.3 < 0.6m										
0.6 < 0.8m										
> 0.8m										

Flood-Prone Width

PointID

Crew intials

Measurement	Location 1	Location 2
Longitude		
Latitude		
Bankfull width (m)		
Bankfull height (cm)		
Max water depth (cm)		
Flood-prone height (cm) = (Bankfull Height + Max Water Depth) * 2		
Flood-prone width $(m)^{\#}$		

[#]Max floodprone width= 3*Bankfull width

Flood-Prone Width Photos										
	Camera used: Date: Time:									
Photo #	Closest Transect	Direction Facing	Location	Photo description/comments						
		US DS XS	LF RT							
		US DS XS	LF RT							
		US DS XS	LF RT							
		US DS XS	LF RT							

Comments

PointID

Crew intials

Instructions: A minimum of 2 Passes are required. Continue measuring slope until 2 reach slopes are within 10% range. Instructions: A minimum of 2 Passes by 0.9 and 1.1. Determine if other Passes fall within the 10% range. End Transect: Instruction: Transit Hand Level Units: CM Start Transect: End Transect: Passe Height Slope Start Transect: End Transect: Instruction: CM Passe Height Slope Note Passes within 10%? CM Passe Height Slope Are passes within 10%? Passe Height Slope Note Passes within 10%? Passe Height Slope Note Passes within 10%? Passe Height Slope Note Passes within 10%? Passe Shot Start End Difference=Start-End 1 4 Image: Passes within 10%? Image: Passes within 10%? Image: Passes within 10%? 2 1 General Image: Passes within 10%? Image: Passes within 10%? Image: Passes within 10%? 2 1 Image: Passes within 10%? Image: Passes within 10%? Image: Passes within 10%?				Was slope coll	ected? Full	Partial	No Slope					
Instrument:TransitHand LevelUnits:CMI Shot $DassesHeightSlopePassShotStartEndDifference=Start-End1111Lower Limit = (Sum Pass 1)*0.091211Upper Limit = (Sum Pass 1)*1.11311Upper Limit = (Sum Pass 1)*1.114111151111611121112111211121112111231123112411251125112611$	Instruc											
Image: Image	<u>Instru</u>	<u>iment:</u>	Transit	Hand Level	<u>Units:</u> CM	Start	Transect:	End Transect:				
Pass Shot Start End Difference=Start-End 1 <			-	ot √								
1 1	Pas	sses	Hei	ight	Slope		Are pass	es within 10%?				
1 2 Image: Constraint of the second sec	Pass	Shot	Start	End	Difference=Start-E	nd	Lower Limit	= (Sum Pass 1)*0.09				
1 3	1	1										
1 4	1	2					Upper Limit	= (Sum Pass 1)*1.1				
1 5 Image: Comments 1 6 Image: Comments 2 1 Image: Comments 2 2 Image: Comments 2 3 Image: Comments 2 4 Image: Comments 2 5 Image: Comments 2 6 Image: Comments	1	3										
1 6 \Box 2 1 $Sum:$ 2 1 \Box 2 2 \Box 2 3 \Box 2 4 \Box 2 5 \Box 2 6 \Box	1	4										
Sum: 2 1 2 2 2 2 2 3 2 4 2 5 2 6	1	5					Comments					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	6										
				Sum:								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	1										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	2										
2 5 2 6	2	3										
2 6	2	4										
	2	5										
Sum: Image: Sum: <t< td=""><td>2</td><td>6</td><td></td><td></td><td></td><td>_</td><td></td><td></td></t<>	2	6				_						
				Sum:								
						_						
						_						
						_						
						_						
						_						
						_						
						-						

	Thalweg										
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials				
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments				
1		Y N	>5m t	taken at angle							
2		Y N	>5m t	taken at angle							
3		Y N	>5m t	taken at angle							
4		Y N	>5m t	taken at angle							
5		Y N	>5m t	taken at angle							
6		Y N	>5m t	taken at angle							
7		Y N	>5m t	taken at angle							
8		Y N	>5m t	taken at angle							
9		Y N	>5m t	taken at angle							
10		Y N	>5m t	taken at angle							
11		Y N	>5m t	taken at angle							
12		Y N	>5m t	taken at angle							
13		Y N	>5m t	taken at angle							
14		Y N	>5m t	taken at angle							
15		Y N	>5m t	taken at angle							
16		Y N	>5m t	taken at angle							

	Thalweg										
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials				
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments				
1		Y N	>5m t	taken at angle							
2		Y N	>5m t	taken at angle							
3		Y N	>5m t	taken at angle							
4		Y N	>5m t	taken at angle							
5		Y N	>5m t	taken at angle							
6		Y N	>5m t	taken at angle							
7		Y N	>5m t	taken at angle							
8		Y N	>5m t	taken at angle							
9		Y N	>5m t	taken at angle							
10		Y N	>5m t	taken at angle							
11		Y N	>5m t	taken at angle							
12		Y N	>5m t	taken at angle							
13		Y N	>5m t	taken at angle							
14		Y N	>5m t	taken at angle							
15		Y N	>5m t	taken at angle							
16		Y N	>5m t	taken at angle							

	Thalweg										
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials				
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments				
1		Y N	>5m t	taken at angle							
2		Y N	>5m t	taken at angle							
3		Y N	>5m t	taken at angle							
4		Y N	>5m t	taken at angle							
5		Y N	>5m t	taken at angle							
6		Y N	>5m t	taken at angle							
7		Y N	>5m t	taken at angle							
8		Y N	>5m t	taken at angle							
9		Y N	>5m t	taken at angle							
10		Y N	>5m t	taken at angle							
11		Y N	>5m t	taken at angle							
12		Y N	>5m t	taken at angle							
13		Y N	>5m t	taken at angle							
14		Y N	>5m t	taken at angle							
15		Y N	>5m t	taken at angle							
16		Y N	>5m t	taken at angle							

Thalweg												
Transect Reach Length:		PointID Number of Thalwegs: 16			Thalweg S							
Station	Depth (cm)	Flow	Too Deep?		Rod Angle	Flag	Comments					
1		Y N	>5m t	taken at angle								
2		Y N	>5m t	taken at angle								
3		Y N	>5m t	taken at angle								
4		Y N	>5m t	taken at angle								
5		Y N	>5m t	taken at angle								
6		Y N	>5m t	taken at angle								
7		Y N	>5m t	taken at angle								
8		Y N	>5m t	taken at angle								
9		Y N	>5m t	taken at angle								
10		Y N	>5m t	taken at angle								
11		Y N	>5m t	taken at angle								
12		Y N	>5m t	taken at angle								
13		Y N	>5m t	taken at angle								
14		Y N	>5m t	taken at angle								
15		Y N	>5m t	taken at angle								
16		Y N	>5m t	taken at angle								

Thalweg												
Transect Reach Length:		PointID Number of Thalwegs: 16			Thalweg S							
Station	Depth (cm)	Flow	Too Deep?		Rod Angle	Flag	Comments					
1		Y N	>5m t	taken at angle								
2		Y N	>5m t	taken at angle								
3		Y N	>5m t	taken at angle								
4		Y N	>5m t	taken at angle								
5		Y N	>5m t	taken at angle								
6		Y N	>5m t	taken at angle								
7		Y N	>5m t	taken at angle								
8		Y N	>5m t	taken at angle								
9		Y N	>5m t	taken at angle								
10		Y N	>5m t	taken at angle								
11		Y N	>5m t	taken at angle								
12		Y N	>5m t	taken at angle								
13		Y N	>5m t	taken at angle								
14		Y N	>5m t	taken at angle								
15		Y N	>5m t	taken at angle								
16		Y N	>5m t	taken at angle								

				Т	halweg			
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials	
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments	
1		Y N	>5m t	taken at angle				
2		Y N	>5m t	taken at angle				
3		Y N	>5m t	taken at angle				
4		Y N	>5m t	taken at angle				
5		Y N	>5m t	taken at angle				
6		Y N	>5m t	taken at angle				
7		Y N	>5m t	taken at angle				
8		Y N	>5m t	taken at angle				
9		Y N	>5m t	taken at angle				
10		Y N	>5m t	taken at angle				
11		Y N	>5m t	taken at angle				
12		Y N	>5m t	taken at angle				
13		Y N	>5m t	taken at angle				
14		Y N	>5m t	taken at angle				
15		Y N	>5m t	taken at angle				
16		Y N	>5m t	taken at angle				

				Т	halweg			
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials	
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments	
1		Y N	>5m t	taken at angle				
2		Y N	>5m t	taken at angle				
3		Y N	>5m t	taken at angle				
4		Y N	>5m t	taken at angle				
5		Y N	>5m t	taken at angle				
6		Y N	>5m t	taken at angle				
7		Y N	>5m t	taken at angle				
8		Y N	>5m t	taken at angle				
9		Y N	>5m t	taken at angle				
10		Y N	>5m t	taken at angle				
11		Y N	>5m t	taken at angle				
12		Y N	>5m t	taken at angle				
13		Y N	>5m t	taken at angle				
14		Y N	>5m t	taken at angle				
15		Y N	>5m t	taken at angle				
16		Y N	>5m t	taken at angle				

				Т	halweg			
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials	
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments	
1		Y N	>5m t	taken at angle				
2		Y N	>5m t	taken at angle				
3		Y N	>5m t	taken at angle				
4		Y N	>5m t	taken at angle				
5		Y N	>5m t	taken at angle				
6		Y N	>5m t	taken at angle				
7		Y N	>5m t	taken at angle				
8		Y N	>5m t	taken at angle				
9		Y N	>5m t	taken at angle				
10		Y N	>5m t	taken at angle				
11		Y N	>5m t	taken at angle				
12		Y N	>5m t	taken at angle				
13		Y N	>5m t	taken at angle				
14		Y N	>5m t	taken at angle				
15		Y N	>5m t	taken at angle				
16		Y N	>5m t	taken at angle				

				Т	halweg			
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials	
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments	
1		Y N	>5m t	taken at angle				
2		Y N	>5m t	taken at angle				
3		Y N	>5m t	taken at angle				
4		Y N	>5m t	taken at angle				
5		Y N	>5m t	taken at angle				
6		Y N	>5m t	taken at angle				
7		Y N	>5m t	taken at angle				
8		Y N	>5m t	taken at angle				
9		Y N	>5m t	taken at angle				
10		Y N	>5m t	taken at angle				
11		Y N	>5m t	taken at angle				
12		Y N	>5m t	taken at angle				
13		Y N	>5m t	taken at angle				
14		Y N	>5m t	taken at angle				
15		Y N	>5m t	taken at angle				
16		Y N	>5m t	taken at angle				

				Т	halweg			
Transect Reach Len	gth:		intID of Thalwo	egs: 16	Thalweg S		intials	
Station	Depth (cm)	Flow	Тоо	Deep?	Rod Angle	Flag	Comments	
1		Y N	>5m t	taken at angle				
2		Y N	>5m t	taken at angle				
3		Y N	>5m t	taken at angle				
4		Y N	>5m t	taken at angle				
5		Y N	>5m t	taken at angle				
6		Y N	>5m t	taken at angle				
7		Y N	>5m t	taken at angle				
8		Y N	>5m t	taken at angle				
9		Y N	>5m t	taken at angle				
10		Y N	>5m t	taken at angle				
11		Y N	>5m t	taken at angle				
12		Y N	>5m t	taken at angle				
13		Y N	>5m t	taken at angle				
14		Y N	>5m t	taken at angle				
15		Y N	>5m t	taken at angle				
16		Y N	>5m t	taken at angle				

					Pool H	abitat	
Poin	tID					Crew i	intials
Sur	vey Stat	us*:				Length St	urveyed:
Unit #	Habitat Type**	Pool Tail Depth (cm)	Max Depth (cm)	Angle if too deep	Length (m)	Flag†	Which main transects does pool overlap?
1	FΡ						
2	FΡ						
3	F P						
4	F P						
5	F P						
6	F P						
7	FΡ						
8	F P						
9	FΡ						
10	F P						
11	FΡ						
12	FΡ						
13	FΡ						
14	FΡ						
15	F P						
16	FΡ						
17	FΡ						
18	FΡ						
19	FΡ						
20	FΡ						
21	FΡ						
22	FΡ						
23	F P						
24	F P						
25	F P						
26	F P						
27	FΡ						
28	FΡ						
29	FΡ						
30	F P						

*Survey Status: C = Collected, P = Partial Collected/Partial Flow, NF = No Flow, NP = No Pools, NC = Not Collected**Habitat Types: F = Full pool, P = Partial pool

+ Pool Flags: MDE = Max depth estimated, LE = Pool length estimated, TDE = Tail depth estimated

			Pool Tail Fines	5	
Po	intID			Crew intials	
Pool#	Grid#	Fines ≤2mm	Fines ≤6mm	OM or Boulder	> 6mm <512 mm
1	1				
1	2				
1	3				
2	1				
2	2				
2	3				
3	1				
3	2				
3	3				
4	1				
4	2				
4	3				
5	1				
5	2				
5	3				
6	1				
6	2				
6	3				
7	1				
7	2				
7	3				
8	1				
8	2				
8	3				
9	1				
9	2				
9	3				
10	1				
10	2				
10	3				

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nfluen	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, l	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
	LF RT		LF	RT	Comments										
	LF RT		LF	RT		1									
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
L		I I	1												

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nfluen	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, l	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											I
	LF RT		LF	RT	Comments										
	LF RT		LF	RT		1									
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
L		I I	1												

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nfluen	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, l	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											I
	LF RT		LF	RT	Comments										
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
L		I I	1												

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nfluen	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, l	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
	LF RT		LF	RT	Comments										
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
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		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nfluen	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, l	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
	LF RT		LF	RT	Comments										
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
L		I I	1												

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nflueno	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, I	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
	LF RT		LF	RT	Comments										
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nflueno	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, I	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
	LF RT		LF	RT	Comments										
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nflueno	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, I	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
	LF RT		LF	RT	Comments										
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
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	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											

		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nflueno	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, I	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
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		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nflueno	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, I	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
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		Vegetat	ion 8	k Hu	man Influence										
Transect		PointID					Cre	ew int	tials						
	Bank		Ba	nk											
Sedges/Rushes	LF RT	Sedges/Rushes None/Not Collected	LF	RT											
Equisetum	LF RT	Equisetum None/Not Collected	LF	RT						Fla	ags: N=	Not co	ollected	, E =e	stimated
Noxious Species		Native Woody						Hun	nan I	nflueno	ce				
Species	Bank	Species	Ba	nk			Left	Bank		Flag		Right	Bank		Flag
None / Not Collected	LF RT	None / Not Collected	LF	RT	Wildfire	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Row crops	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pasture/hay/fences	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Livestock/horses	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Logging activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Mining activity	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Oil and gas wells	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Powerline/pipeline	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Buildings	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pavement/lot	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Road/railroad	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Wall/dike/riprap	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Pipes	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Instream Hab Rest	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Hydro Alteration	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Landfill/trash	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Park/lawn	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	Recreation	0	Р	С	S		0	Р	С	S	
	LF RT		LF	RT	O = N	Not Pre	esent, I	P = >1	0m, C	= Within	Plot, S	= Stre	ambed		
	LF RT		LF	RT											
	LF RT		LF	RT	Comments										
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											
	LF RT		LF	RT											

Vegetation Complexity

Transect	Point	ID					Crew	Initia	ls				
Canopy >5m high		Left Bank						Ri	ght B	ank		Flag	
Woody Veg Type	D	С	E	М	Ν		D	С	E	М	Ν		
Big Trees	0	1	2	3	4		0	1	2	3	4		
Small Trees	0	1	2	3	4		0	1	2	3	4		
Understory 0.5 to 5 m high													
Woody Veg Type	D	С	E	М	Ν		D	С	E	М	Ν		
Woody	0	1	2	3	4		0	1	2	3	4		
Non-woody	0	1	2	3	4		0	1	2	3	4		
			Grou	ind Co	over <0.	5 m high							
Woody	0	1	2	3	4		0	1	2	3	4		
Non-woody	0	1	2	3	4		0	1	2	3	4		
Bare	0	1	2	3	4		0	1	2	3	4		

Woody Veg Type: D=Deciduous, C=Coniferous, E= Broadleaved Evergreen, M=Mixed, N=None Complexity Categories: 0=Absent, 1 = <10%, 2 = 10-40%, 3 = 41-75%, 4 = greater than 75% Flags: N= Not collected, E=estimated

Comments