STREAM:				SIT	E:		DATE:			2001	
RIF	FLE SERIES	} :	, ,	/	/	/	/ /	/	/	/ .	
		·	/ /	/	/	/	/ /	/	/	meters	
POC	OL SERIES:_	/	/	/	/	/ /	//	/	/	meters	
Tran	nsects at 10 m		_		1	1			1		
Т	Stream Width	Bank Cover L	Bank Cover R	Angle Left	Angle Right	Densio. Left	Densio. Up	Densio. Down	Densio. Right		
1										Rndm No.	
2											
3											
4											
5											
-											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
GPS	S:					E	LEVATION	:		_	
	OPE(s): am length(s)		upper le	vel reading(s	Σ	<u>lo</u>	wer level rea	ding(s)			
LIN	EAR DISTA	NCE ALON	[G 150 MET]	ER REACH	LENGTH:	_	WAT	ER CHEM. SA	AMPLED?_		
TEN	MPERATUR	E	рН	CONDUC	TIVITY		D.O	ALK	ALINITY	<u>.</u>	
[des	criptions of sparse=<25%, Coaceous Cover	oecies presen ommon=50%	t if known and, b, Dense=>75	d sparse/com 5%; S-C=25-5	mon/ or dens	se] 0-75%]		AE TYPE(s) Properties of the Type (s) Properti	olive green)		
	ody Bushes							Mat / Slime (bl			
	iduous Trees_								•		
Eve	rgreen Trees_						<u>РНОТ</u>	OS:			

PHYSICAL HABITAT CODES

At each equidistant point along a transect (5 for streams more than 1 meter wide, or 4 for streams less than 1 meter wide), record depth (**D**) and current velocity (**V**) and substrate (**ST**) as coded below:

SUBSTRATE SIZE CLASSES [=ST or SUBSTRATE TYPE]

 $\mathbf{F} = \mathbf{FINES} = < 1 \text{ mm}$

S = SAND = 1 - 3 mm

G = GRAVEL = 3 - 65 mm (6.5 cm)

C = COBBLE = 6.5 - 25 cm (2.5-10 inches)

 $\mathbf{B} = \text{BOULDER}$ (or BEDROCK) = > 25 cm (>10 inches)

these may be associated with:

V = AQUATIC VEGETATION (emergent or submerged)

 $\mathbf{A} = ALGAE$ (filamentous or slime/mat forms)

W = WOOD

L = LEAVES

D = DETRITUS (fine organic particles)

R = ROOTS (usually of emergent vegetation, sometimes riparian)

Other Measures Along Transects:

Stream Width = wetted perimeter width of the stream (bank to bank water width)

Bank Cover (L&R) = types of cover or bank condition on each bank to the bankfull height.

Coded as the dominant substrate and condition:

(used to evaluate erosion potential or stability at edge of active stream channel)

[one of the first 3 may be combined with one or more of the second three]

O = open or exposed bank soils composed of fines or sand substrates

V =vegetated bank (grasses, bushes or shrubs, and trees growing in bank soils)

use veg. type categories also to classify main cover, V_C =grass, V_R =bushes, V_T =trees

A = armored bank, with <u>rocks or wood</u> protecting the bank

 $\mathbf{E} = \underline{\text{eroded}}$ bank or erosion apparent

 $I = \underline{\text{incised}}$ bank, vertical downcut along channel

 $S = \underline{\text{stable}}$ bank, uneroded

Examples: V_GS =grass vegetated stable bank, OE=open eroded bank, OEI=same but incised,

AS=stable bank armored by wood or rock, VE=bank vegetated but eroded

Bank Angles = angle formed by bank at the stream edge,

categorized as Shallow ($<30^{\circ} = S$), Moderate to Steep ($30^{\circ} - 90^{\circ} = M$), or Undercut ($>90^{\circ} = U$)

Densiometer = points where vegetation reflected in concave mirror at 17 total grid intersects

Cobble Embeddedness:

That portion of a cobble-size rock buried in fine or sand particles and estimated as the percent volume of the rock buried (visual estimate). Often marked by a ring of particles at the burial line or by algae color on the upper exposed surface, or other discoloration, or by holding the rock at the point where the rock was excavated. Scored during the transect-point measures, with additional cobbles added if needed by choosing further random transects until a total of n=25 are sampled.

Slope is measured along known stream distance(s), sighting a level on a level rod (at least 75 m of reach). **Linear distance** along reach is measured as the direct distance along the stream valley from the top of the reach to the bottom of the reach (used with total stream reach length = 150 m to calculate sinusity of the channel).

STREAM:				SITE:					DATE:				2001		
T	D-1	V-1	ST-1	D-2	V-2	ST-2	D-3	V-3	ST-3	D-4	V-4	ST-4	D-5	V-5	ST-5
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
						1									
		COBBLE	EMBEDDI	EDNESS	MEASURE	ES (n=25)		Cu	rrent Meter	used and u	units:				

COBBLE EN	MBEDDEDNE	Current Meter used and units:		