Biosurvey: Field Data Sheets (p 1 of 3)

Macroinvertebrate Survey

Date: year	month	day	Time:	hour	minute
	(NOTE: Time	hr./min. on 24-ho	ur clock, as 10:1	0 for AM or 22	2:10 for PM)
Site ID#			_		
Recorder In Name					
Monitor Info					
Monitor Info					
Monitor Info					
Monitor Info Name					
Storm (h Rain (st		n)	Rain	cast	
Type of Stre	eam -bottom		Muc	ldy-bottom	
Muddy-botto	om Sampling C	nly: Record the r	umber of jabs ta	aken in each h	abitat type.
	Vegetated Bar Snags and Loc	_	•	atic Vegetatio sand/gravel S	

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Macroinvertebrate Count

_____ (____) Leeches

Identify the macroinvertebrates (to order) in your sample using the identification sheets. We are only concerned with organisms that appear on the identification sheets. Record the number of organisms below and then assign them letter codes based on their abundance:

R (rare) = 1-9; **C** (common) = 10-99; **D** (dominant) = 100 plus organisms. example: 20 (C) WaterPenny larvae **Group I - Sensitive** _____ (____) Water Penny larvae _____ (____) Riffle beetle adults _____ (___) Hellgrammites _____ (____) Stonefly nymphs _____ (____) Non-net spinning _____ (____) Mayfly nymphs _____ (____) Gilled snails caddisfly larvae **Group II - Somewhat Sensitive** _____ (____) Beetle larvae _____ (____) Scuds _____ (____) Sowbugs _____ (____) Clams _____ (____) Cranefly larvae _____ (____) Fishfly larvae _____ (____) Crayfish _____ (____) Alderfly larvae _____ (___) Net-spinning _____ (____) Damselfly nymphs _____ (____) Dragonfly nymphs caddisfly larvae **Group III - Tolerant** _____ (____) Midge larvae _____ (____) Aquatic worms _____ (____) Snails _____ (____) Blackfly larvae

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Water Quality Rating

To calculate the index value, add the number of letters found in the three groups above and multiply by the indicated weighing factor.

Group I - Sensitive

(# of R's) x 5.0 = ____

(# of C's) x 5.6 = ____

(# of D's) x 5.3 = ____ Sum of the Index Value for Group I = _____

Group II - Somewhat Sensitive

(# of R's) x 3.2 = ____

(# of C's) x 3.4 = _____

(# of D's) x 3.0 =

Sum of the Index Value for Group II =

Group III – Tolerant

(# of R's) x 1.2 = ____

(# of C's) x 1.1 =

(# of D's) x 1.0 =

Sum of the Index Value for Group III = _____

To calculate the water quality score for the stream site, add together the index values for each group. The sum of these values equals the water quality score.

Water Quality Score = _____

Compare this score to the following number ranges to determine the quality of your stream site.

_____ Good > 40 _____ Fair 20-40 ____ Poor <20

• Note: The tolerance groupings (Group I, II, III) and the water quality rating categories were developed for streams in the Mid-Atlantic states.