BioSurvey	Macro Tally		
Stream Name:	Date	Weather Yesterday	
Monitor ID #s	Time:	Today	
Please record all			
Group I-Sensitive			
	Water penny larvae		Riffle beetle adults
	Helligrammites		Stonefly nymphs
	Mayfly nymphs		Non net-spinning caddisfly larvae
	Gilled snails		(case builders)
Group II-Somewhat Sensitive			
5 -	Beetle larvae		Scuds
	Clams		Sowbugs
	Cranefly larvae		Fishfly larvae
	Crayfish		Alderfly larvae
	Damselfly nymphs		Net-spinning caddisfly laravae (non case
	Dragonfly nymphs		builders)
Group III-Tolerant			
	Aquatic worms		Midge larvae
	Blackfly larvae		Snails

Leaches

## Biosurvey: Field Data Sheets

## Macroinvertebrate Survey

Type of Stream	
	Muddy-bottom
Muddy-bottom Sampling Only: Record the r Vegetated Bank Margin	number of jabs taken in each habitat type Aquatic Vegetation Beds
Snags and Logs	Silt/sand/gravel Substrate
concerned with organisms that appear on the below and then assign them letter codes base	your sample using the identification sheets. We are only identification sheets. Record the number of organisms of on their abundance:  -99 organisms; <b>D</b> (dominant) = 100 plus organisms.
example: 20 (C) WaterPenny larvae	
(Enter a who	ole number for each, 0-999)
Group I - Sensitive	
() Water Penny larvae () Hellgrammites () Mayfly nymphs () Gilled snails	() Riffle beetle adults() Stonefly nymphs() Non-net spinning caddisfly larvae
Group II - Somewhat Sensitive	
() Beetle larvae() Clams() Cranefly larvae() Crayfish() Damselfly nymphs() Dragonfly nymphs	() Scuds() Sowbugs() Fishfly larvae() Alderfly larvae() Net-spinning
Group III - Tolerant	
() Aquatic worms() Blackfly larvae() Leeches	() Midge larvae () Snails

## **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			
		$(\# \text{ of R's}) \times 5.0 = $	
		$(\# \text{ of C's}) \times 5.6 =$	
		$(\# \text{ of D's}) \times 5.3 = $	
		Sum of the Index Value for Group I =	
Group II – Somewhat Se	ensitive		
		$(\# \text{ of R's}) \times 3.2 = $	
		$(\# \text{ of C's}) \times 3.4 = $	
		$(\# \text{ of D's}) \times 3.0 = $	
		Sum of the Index Value for Group II =	
Group III – Tolerant			
		$(\# \text{ of R's}) \times 1.2 = $	
		(# of C's) x 1.1 =	
		(# of D's) x 1.0 =	
	9 - 1	Sum of the Index Value for Group III =	
To calculate the water quadd together the index values equals the water of	alues for each group		
		Water Quality Score =	
Compare this score to th	e following number	r ranges to determine the quality of your stream	m 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.