

Student Name:		
School Name:		Teacher Name:
Water Body Name:		Date:
COLUMN A Pollution Tolerance	COLUMN B Number Counted	COLUMN D Common Name
CATEGORY 1 (pollution intolerant)		Caddisfly Larva (EPT)
		Dobsonfly
		Mayfly nymph (EPT)
		Stonefly nymph (EPT)
		Water Penny
		Riffle Beetle
		Gilled Snail
Sub-total		
CATEGORY 2 (pollution semi-tolerant)		Sowbug
		Clams
		Crayfish
		Dragonfly Larva
		Damselfly Larva
		Scud
		Cranefly Larva
Sub-total		
CATEGORY 3 (pollution tolerant)		Aquatic Worms
		Leeches
		Blackfly Larva
		Pouch & Pond Snails
		Midge Larva (chironomid)
		True Bug Adults
Sub-total		
TOTAL		

A) ABUNDANCE

ABUNDANCE: total number of organisms from COLUMN B =

B) PREDOMINANT TAXON

C) WATER QUALITY ASSESSMENTS

POLLUTION TOLERANCE INDEX: use the **total number of broad taxonomic groups** found in each tolerance category, from **COLUMN D**

$$3x (\# \text{ of category 1}) + 2x (\# \text{ of category 2}) + (\# \text{ of category 3}) = \text{ }$$

POLLUTION TOLERANT INDEX RATING			
<11	11-16	17-22	>22
POOR	MARGINAL	ACCEPTABLE	GOOD

EPT TO TOTAL RATIO: total number of **EPT** organisms from **COLUMN B**, divided by the total number of organisms (total of all **COLUMN B**)

$$\# \text{ of EPT } \underline{\hspace{2cm}} \div \text{ total } = \text{ }$$

EPT INDEX			
0-0.25	0.25-0.50	0.5-0.75	0.75-1.0
POOR	MARGINAL	ACCEPTABLE	GOOD

D) DIVERSITY ASSESSMENT

PREDOMINANT TAXON RATIO: divide the **number** of invertebrate in the **predominant taxon** by the **total number of invertebrates** counted (total of **COLUMN B**):

$$\frac{\text{predominant}}{\text{total}} \div \text{total} = \text{ }$$

PREDOMINANT TAXON RATIO INDEX			
0.80-1	0.60-0.80	0.40-0.60	0-0.40
POOR	MARGINAL	ACCEPTABLE	GOOD

E) SITE ASSESSMENT RATING

Assign a rating from 1-4 to each index, then average the results to get a general site assessment

SITE ASSESSMENT RATING			
POOR	MARGINAL	ACCEPTABLE	GOOD
1	2	3	4

SITE ASSESSMENT RATING	
Index or Ratio	Rating
Pollution Tolerance Index	
EPT to Total Ratio	
Predominant Taxon Ratio	
Total	
Average	