

Hoosier Riverwatch Biological Monitoring Data Sheet

Date: ____/____/____ Volunteer ID: ____ Site ID: ____
 Stream Name: _____ Latitude: _____ Longitude: _____
 Time ____:____ AM / PM Time Sampling: ____ hrs Air Temp.: ____ °C
 Current Weather: ☐ Clear/Sunny ☐ Overcast ☐ Showers ☐ Rain (steady) ☐ Storm (Heavy)
 Worst Weather (past 48 hours): ☐ Clear/Sunny ☐ Overcast ☐ Showers ☐ Rain (steady) ☐ Storm (Heavy)
 Check Methods Used: ☐ Kick Seine Net (3 times) ☐ Dip Net (20 jabs or scoops)
 Check Habitats Sampled: ☐ Undercut Banks ☐ Riffles ☐ Leaf Packs ☐ Snags/Vegetation ☐ Sediment

Pollution Tolerance Index (PTI)

Record the taxa (group) represented in your sampling by either entering the number of organisms you counted or a ✓

Group 1 - Intolerant	Group 2 - Moderately Intolerant	Group 3 - Fairly Tolerant	Groups 4 - Very Tolerant
☐ Stonefly nymph ☐ Mayfly nymph ☐ Caddisfly larva ☐ Riffle Beetle ☐ Dobsonfly Larva ☐ Right-Handed or Gilled snail ☐ Water Penny	☐ Damselfly nymph ☐ Dragonfly nymph ☐ Scud ☐ Sowbug ☐ Crane fly larva ☐ Clam/Mussel ☐ Crayfish	☐ Leech ☐ Midge larva ☐ Planaria/Flatworm ☐ Black fly larva	☐ Aquatic worm ☐ Blood midge larva (red) ☐ Rat-tailed Maggot ☐ Left-Handed or Pouch snail
☐ # of TAXA represented ☐ Weighting Factor (x4)	☐ # of TAXA represented ☐ Weighting Factor (x3)	☐ # of TAXA represented ☐ Weighting Factor (x2)	☐ # of TAXA represented ☐ Weighting Factor (x1)

Pollution Tolerance Index Rating

(Add the final index values for each group)

PTI Ratings	
Excellent	23 or More
Good	17 - 22
Fair	11 - 16
Poor	10 or Less

Please check other Biological Indicators you observed:

- ☐ Native Mussels
 ☐ Zebra Mussels
 ☐ Rusty Crayfish
 ☐ Aquatic Plants

____ % Algae Cover

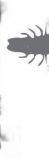
____ Diversity Index

Hoosier Riverwatch Biological Monitoring Data Sheet

Date: 10/04/2009 Volunteer ID: 1000 Site ID: 1000 Longitude: -85.76369
 Stream Name: Example Stream Indiana Latitude: 40.76054
 Time: 12:15 AM / PM Air Temp.: 29.5 °C
 Current Weather: ☒ Clear/Sunny ☐ Overcast ☐ Showers ☐ Rain (steady) ☐ Storm (Heavy)
 Worst Weather (past 48 hours): ☐ Clear/Sunny ☐ Overcast ☒ Showers ☐ Rain (steady) ☐ Storm (Heavy)
 Check Methods Used: ☒ Kick Seine Net (3 times) ☒ Dip Net (20 jabs or scoops)
 Check Habitats Sampled: ☒ Undercut Banks ☒ Riffles ☐ Leaf Packs ☒ Logs/Vegetation ☐ Sediment

Pollution Tolerance Index (PTI)

Record the taxa (group) represented in your sampling by either entering the number of organisms you counted or a ✓

Group 1 - Intolerant		Group 2 - Moderately Intolerant		Group 3 - Fairly Tolerant		Group 4 - Very Tolerant	
6				25			
5		15		>100			
10			16				
						1	
							
			2				
30			2	# of TAXA represented	2	# of TAXA represented	
4	# of TAXA represented	6	Weighting Factor (x3)	4	Weighting Factor (x2)	2	Weighting Factor (x1)
16	Weighting Factor (x4)	28		PTI Ratings		Excellent 23 or More Good 17 - 22 Fair 11 - 16 Poor 10 or Less	

Pollution Tolerance Index Rating

(Add the final index values for each group)

Please check other Biological Indicators you observed:

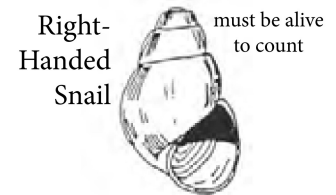
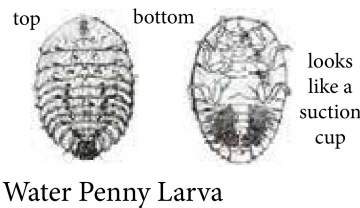
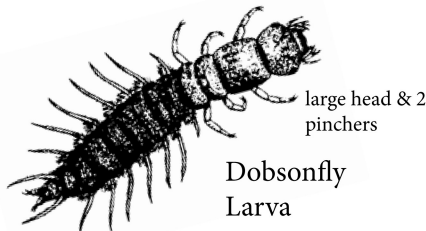
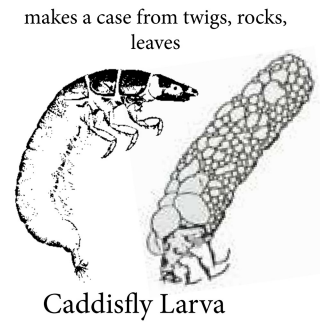
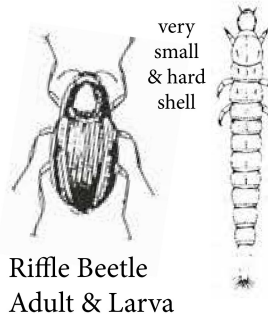
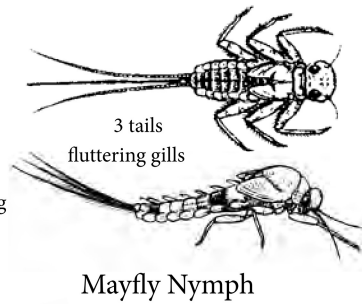
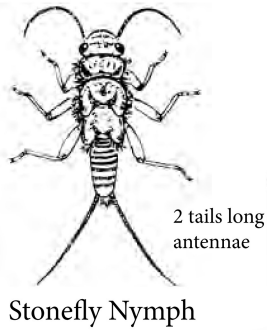
☐ Native Mussels ☐ Zebra Mussels ☐ Rusty Crayfish ☐ Aquatic Plants

% Algae Cover

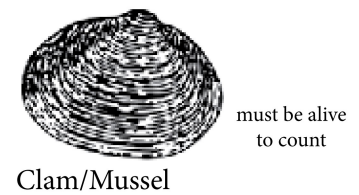
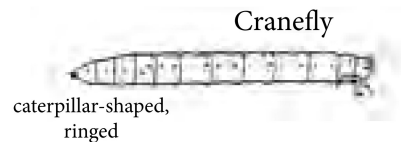
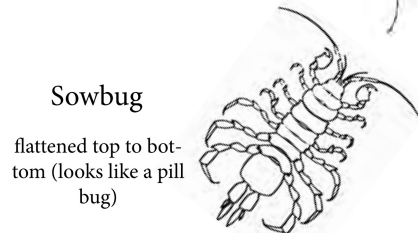
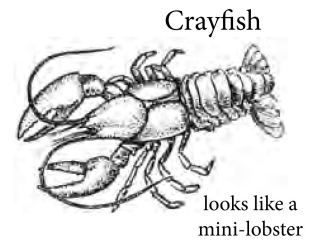
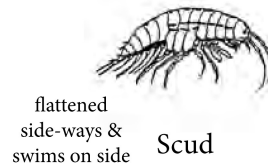
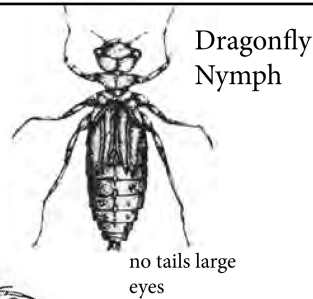
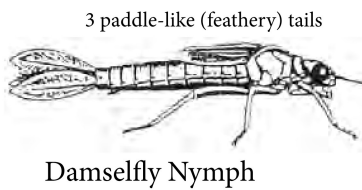
Diversity Index

Macroinvertebrate Identification Key

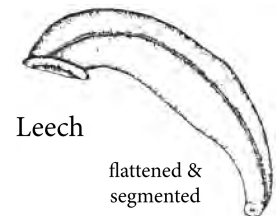
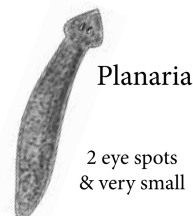
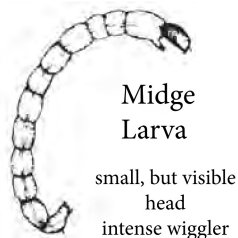
GROUP 1 – Very Intolerant of Pollution



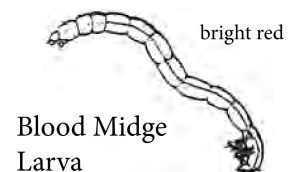
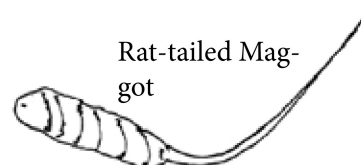
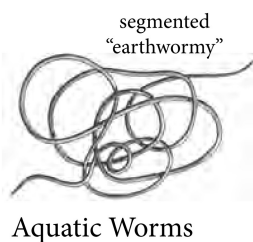
GROUP 2 – Moderately Intolerant of Pollution



GROUP 3 – Fairly Tolerant of Pollution



GROUP 4 – Very Tolerant of Pollution



Macroinvertebrate Adults Key

GROUP 1 – Young are Very Intolerant of Pollution



Stonefly
Adult



Mayfly
Adult



Riffle Beetle
Adult



Caddisfly
Adult



Dobsonfly Adult



Water
Penny
Adult



Right-
Handed
Snail

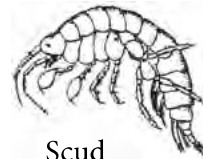
GROUP 2 – Young are Moderately Intolerant of Pollution



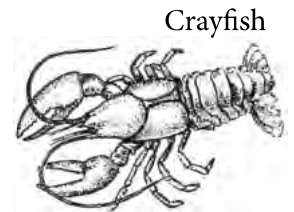
Damselfly
Adult



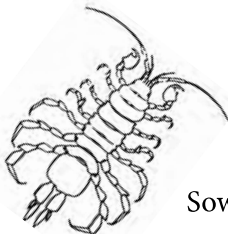
Dragonfly
Adult



Scud



Crayfish



Sowbug



Crane fly
Adult



Clam/Mussel

GROUP 3 – Young are Fairly Tolerant of Pollution



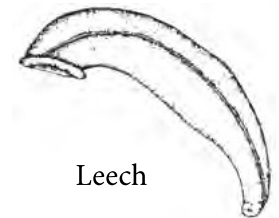
Midge
Adult



Planaria



Black Fly
Adult



Leech

GROUP 4 – Young are Very Tolerant of Pollution



Aquatic Worms

Left-Hand-
ed Snail



Hoverfly
(Rat-tailed maggot adult)



Blood Midge
Adult