





Biological Monitoring Data Form for Rocky Bottom Method

Station ID:				
onitor(s):				
	Number of Participants:			
	L	.ongitude:		
	Start Time:		End Time:	
ocation:				
SAMPLING				
ks, 25% of the nsure you colle econds and pla	time disturbing ect at least 200 i ce a check mark	the streamb macroinverto next to the	ed). Adjust the lengebrates. Write the net mesh size use	gth of the length of each d
Net 2	Net 3	Net 4	Net Mesh Size:	1/32'' 1/50''
TIONS (check	k predominate c	ondition for	each day)	
: Sunny	Overcast 🗆 Inte	ermittent Rain	Steady Rain	Heavy Rain □Snow
	C°	Avg. Stre	am Width	ft.
S				
	ocation: SAMPLING It, take up to focks, 25% of the ensure you collected and plate of reach 200 or ensure. Net 2 TIONS (check of the ensure is sunny in the condition of the	Start Time: Start Time: Start Time: SAMPLING St, take up to four samples in the start to the		

MACROINVERTEBRATE COUNT

Macroinvertebrate	Tally	Count	Macroinvertebrate	Tally	Count
Worms			Common Netspinning Caddisflies		
Flat Worms			Most Caddisflies (not Common Netspinning)		
Leeches			Beetles		
Crayfish					
Sowbugs			Midges		
Scuds			Black Flies True Flies		
Stoneflies			Gilled Snails		
Mayflies			Lunged Snails		
Dragonflies and Damselflies			Clams		
Alderflies, Fishflies, and Hellgrammites			Other benthic macroinvertebrates		
			Total number of organisms in the sample (include "other" category)		

INDIVIDUAL METRICS

	Organism Groups	Number of Organisms		Total Number of Organisms in the Sample		Percent (This is your value for this metric.)
Metric 1	Mayflies + Stoneflies + Most Caddisflies (not Common Netspinning)		÷		Multiply by 100	%
Metric 2	Common Netspinning Caddisflies		÷		Multiply by 100	%
Metric 3	Lunged Snails		÷		Multiply by 100	%
Metric 4	Beetles		÷		Multiply by 100	%

Metric 5: Tolerant

Organism Groups	Number of Organisms
Black Flies	
Clams	
Dragonflies and Damselflies	
Flatworms	
Leeches	
Lunged Snails	
Midges	
Scuds	
Sowbugs	
Worms	
Total Tolerant	
÷	
Total number of organisms	
in sample	
Multiply by 100	
Percent (This is your value for Metric 5.)	%

Metric 6: Non-Insect

Organism Groups	Number of Organisms
Clams	
Crayfish	
Flatworms	
Gilled Snails	
Leeches	
Lunged Snails	
Scuds	
Sowbugs	
Worms	
Total Non-Insect	
÷	
Total number of organisms	
in sample	
Multiply by 100	
Percent (This is your value for Metric 6.)	%

MULTIMETRIC INDEX (STREAM HEALTH SCORE)

	Metric Organism	Your Metric Value	2	1	0
Metric 1	Mayflies + Stoneflies + Most Caddisflies (not Common Netspinning)		Greater than 32.2	16.1 - 32.2	Less than 16.1
Metric 2	Common Netspinning Caddisflies		Less than 19.7	19.7 - 34.5	Greater than 34.5
Metric 3	Lunged Snails		Less than 0.3	0.3 - 1.5	Greater than 1.5
Metric 4	Beetles		Greater than 6.4	3.2 - 6.4	Less than 3.2
Metric 5	Tolerant		Less than 46.7	46.7 - 61.5	Greater than 61.5
Metric 6	Non-Insects		Less than 5.4	5.4 - 20.8	Greater than 20.8
			Total # of 2s:	Total # of 1s:	Total # of Os:
			Multiply by 2:	Multiply by 1:	Multiply by 0:
		SUBTOTALS			

Add the three subtotals to get the Save Our Streams Multimetric Index Score:
Acceptable Ecological Condition (9 - 12)
Ecological conditions cannot be determined at this time/Grayzone (8)
Unacceptable Ecological Condition (0 - 7)

STREAM CONDITIONS (check all that apply)

movement: beaver dams man-made dams waterfalls (> 1 ft.)	appearance: clear clear, but tea colored	(bottom):
man-made dams		grey
	clear, but tea colored	
waterfalls (> 1 ft.)		orange/red
	colored sheen (oily)	yellow
none	☐ foamy	□ black
other	☐ milky	brown
	☐ muddy	silt
	☐ black	sand
	grey	other
	other	
Stability of streambed	Algae color:	Algae located:
(bed sinks beneath your	│ │	everywhere
feet in):		in spots
no spots		% covered
a few spots		
many spots		
	Streambank erosion:	Riffle composition (=100%):
	severe (more than 75%)	% silt (mud)
		% sand (1/16" - 1/4" grains)
		% gravel (1/4" - 2" stones)
0/1		% cobbles (2" - 10" stones)
% rocks		% boulders (> 10" stones)
% other		
ng land uses within a one	e-mile radius of your samplin	g site have a high (H),
Urban uses (parkir	ng lots, highways, etc.)	Agriculture (type:)
Sanitary landfill		Trash dump
Active construction	on	Fields
Mining (type:)	_Livestock pasture
		Other
		stream and indicate the
	Stability of streambed (bed sinks beneath your feet in): no spots a few spots many spots Streambank composition (=100%): % trees % shrubs % grass % bare soil % rocks % other ATERSHED (UPSTF ng land uses within a one of (N) potential impact to of the construction	muddy black grey other

Submit data online at www.cleanwaterhub.org. If you have any questions about this protocol, please contact the VA SOS Coordinator at vasos@iwla.org. Data sheets must be stored for five years after sampling. If you are unable to keep your datasheets, please contact the VA SOS Coordinator.