



Biological Monitoring Data Form for Rocky Bottom Method

Name of Stream:					Site ID:		
Your Name:			Name of Certified Monitor(s):				
Group or Organization Name:				Number of I	Participants:		
Latitude:			Longitud	e:			
County/State:		Surv	ey Date:StartTim	e:	End Tim	e:	
Description of Site Loc	ation:						
ROCKY BOTTOM S Using a kick-siene net rocks, 25% of the time least 200 macroinvertonet mesh size used.	take up to	o four sample g the stream	oed). Adjust the leng	th of the samplir	ng period to ens	sure you collect at	
Net 1sec Net	2se	c Net 3	sec Net 4	_sec Net mes	h size: 1/16"	1/32" 1/50"	
PHYSICAL CON	DITIONS	(check all th	nat apply)				
Today:	Sunny	Overcast	Intermittent Rain	Steady Rain	Heavy Rain	Snow	
Yesterday:	Sunny	Overcast	Intermittent Rain	Steady Rain	Heavy Rain	Snow	
Day Before Yesterday:	Sunny	Overcast	Intermittent Rain	Steady Rain	Heavy Rain	Snow	
WaterTemperature	F° or C (circle Fº or		eam Widthft.	Avg. Stream De	epthin.	Flow Rate(high, normal, low, negligible)	
OTHER COMMENTS							

MACROINVERTEBRATE COUNT

Macroinvertebrate	Tally	Count
Alderflies, Fishflies, and Hellgrammites		
Beetles		
Black Flies		
Caddisflies (not Common Netspinning)		
THE REAL PROPERTY.		
Clams		
Common Nets staning Caddiflies		
Crayfish		
Dragonflies and Damselflies		
Flat Worms		
Gilled Snails		

Macroinvertebrate	Tally	Count
Leeches		
Lunged Snails		
4		
Mayflies		
Midges		
And the same of		
Scuds		
Sowbugs		
Stoneflies		
True Flies		
Worms		
Other benthic macroinvertebrates		
Total number of organisms in the sample (include "other" category)		

FOMR FAMILY LEVEL BENTHIC DATA

NON-INSECTS	(Class/Order/Family)	Total	# Individuals	(Class/Order/Family)	Total	# Individuals
Hirudinea (Leeches) Digochaeta (Worms) Amphipoda (Scuds)-preserve Decapoda (Crayfish) Aselidae (Sow Bugs) Decapoda (Crayfish) Aselidae (Sow Bugs) Unionacea (Mussels)-return to stream Corbiculidae (Asian Clams) Sphaeriidae (Pea Clams) Peuroceridae (Peurocerid Snails) Ancylidae (Ancylid Snails-lunged) Ancylidae (Ancylid Snails-lunged) Taeniidae (Saml Winter) Capniidae (Small Winter) Chironomidae (Small Winter) Chorperlidae (Green) Aldidae (Common) Perlodidae (Perdodid) Perlodidae (Perdodid) Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caenidae (Common Burrower) Ephemerelidae (Common Burrower) Heptageniidae (Common Burrower) Heptagen	NON-INSECTS		Trichoptera (Caddisflies)			
Oligochaeta (Worms) Amphipoda (Scuds)-preserve Amphipoda (Scuds)-preserve Decapoda (Crayfish) Brachycentridae (Humpless)-preserve Hydroplidae (Micro)-preserve Unionacea (Mussels)-return to stream Glossosomatidae (Saddlecase)- preserve Heliocepsydae (Snailcase)- preserve Diptera (True Flies) Pleuroceridae (Pleurocerid Snails) Hydrobiidae (Per Clams) Pleuroceridae (Pleurocerid Snails) Anthericidae (Hydrobiid Snails) Anthericidae (Hydrobiid Snails) Anthericidae (Horse/Deer) Tahnidae (Horse/Deer) Tipuliidae (Small Winter) Capniidae (Small Winter) Chloroperiidae (Green) Nemouridae (Nemourid) Perlidae (Common) Perlodidae (Perdodid) Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Winnow) Caeniidae (Small Winnow) Caeniidae (Small Winnow) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caeniidae (Simall Squiregills) Hydrophilidae (Water Scavenger) Ephemeridae (Crombon Burrower) Ephemeridae (Crombon Burrower) Ephemeridae (Common Burrower) Ephemeridae (Common Burrower) Helpapeniidae (Clustails) Leptophebiidae (Pronggilled) Leptophebiidae (Pronggilled) Leptophebidae (Pronggilled) Freserve all Unknowns, Case Makers and Scuds. (Do not	Turbellaria (Flatworms)			Hydropsychidae (Netspinner)		
Amphipoda (Scuds)-preserve Decapoda (Crayfish) Brachycentridae (Humpless)-preserve Asellidae (Sow Bugs) Unionacea (Mussels)-return to stream Glossosomatidae (Sadlecase)- preserve Corbiculidae (Asian Clams) Heliocepsydae (Snailcase)- preserve Diptera (True Filies) Pleuroceridae (Pleurocerid Snails) Heliocepsydae (Snailcase)- preserve Diptera (True Filies) Pleuroceridae (Pleurocerid Snails) Hydrobiidae (Hyrdrobiid Snails) Ancylidae (Ancylid Snails-lunged) INSECTS Plecoptera (Stonefly) Capniidae (Small Winter) Megaloptera Chloroperlidae (Green) Nemouridae (Nemourid) Perlidae (Green) Perlidae (Common) Perlidae (Common) Perlidae (Common) Perlidae (Perlodid) Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caenidae (Small Squaregills) Bethemoptera (Mayfly) Bethemorellidae (Crawler) Pephemeridae (Common) Caenidae (Spiny Crawler) Pephemeridae (Common Burrower) Pephemeridae (Common Burrower) Pephemeridae (Common Burrower) Pephemeridae (Common Burrower) Pephemeridiae (Crawler) Pephemeridae (Common Burrower) Preserve all Unknowns, Case Makers and Scuds. (Do not	Hirudinea (Leeches)			Philopotamidae (Fingernet)		
Decapoda (Crayfish) Asellidae (Sow Bugs) Hydroptilidae (Micro)- preserve Unionacea (Mussels)-return to stream Corbiculidae (Asian Clams) Heliocepsydae (Snailcase)- preserve Diptera (True Flies) Pleuroceridae (Pleurocerid Snails) Athericidae (Watersipe) Hydrobiidae (Hyrdrobiid Snails) Achionomidae (Midge) Ancylidae (Ancylid Snails-lunged) NISECTS Tabnidae (Horse/Deer) Tipullidae (Crane) Capniidae (Small Winter) Capniidae (Small Winter) Chloroperlidae (Green) Nemouridae (Memourid) Perlodae (Common) Perlodae (Perlodid) Tanidae (Norter) Perlodae (Predodid) Tanidae (Norter) Perlodae (Predodid) Tanidae (Mater) Ephemoptera (Mater) Ephemoptera (Mater) Ephemoptera (Maffy) Baetidae (Small Ninnow) Caenidae (Small Squaregills) Ephemerildae (Small Squaregills) Ephemerildae (Small Squaregills) Ephemeridae (Cramnon) Caenidae (Small Squaregills) Ephemeridae (Cramnon) Caenidae (Small Squaregills) Ephemeridae (Cramnon) Caenidae (Small Minnow) Caenidae (Small Minnow) Caenidae (Small Squaregills) Ephemeridae (Cramnon Burrower) Ephemeridae (Cramnon Burrower) Ephemeridae (Common Burrower) Dodnata (Dragon & Danselflies) Leptophlebiidae (Pronggilled) Leptophlebiidae (Pronggilled) Leptophlebiidae (Pronggilled) Leptophlebiidae (Evramselfies) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not	Oligochaeta (Worms)			Polycentropodidae (Tube Net)		
Asellidae (Sow Bugs) Unionacea (Mussels)-return to stream Corbiculidae (Asian Clams) Sphaeriidae (Pea Clams) Pleuroceridae (Pleurocerid Snails) Athericidae (Pleurocerid Snails) Hydrobiidae (Hydrobiidid Snails) Ancylidae (Ancylid Snails-lunged) INSECTS Plecoptera (Stonefly) Capniidae (Small Winter) Chloroperiidae (Green) Nemouridae (Mater) Perlidae (Green) Nemouridae (Mater) Perlodidae (Perdoidid) Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caenidae (Small Minnow) Baetidae (Small Minnow) Caenidae (Small Minnow) Baetidae (Small Minnow) Caenidae (Small Minnow) Baetidae (Small Minnow) Baetidae (Small Minnow) Caenidae (Small Minnow) Baetidae (Small Minnow) Baetidae (Small Minnow) Baetidae (Small Minnow) Caenidae (Small Minnow) Baetidae (Small Squaregills) Behemoptera (Mayfly) Baetidae (Small Squaregills) Behemore (Spiny Crawler) Behemerellidae (Spiny Crawler) Behemerellidae (Spiny Crawler) Behemeridae (Common Burrower) Behemeridae (Common Burrower) Behemeridae (Flatheaded) Betyphlebiidae (Prongailled) Betyphlebiidae (Prongailled) Betyphlebiidae (Prongailled) Betyphlebiidae (Prongailled) Betyphlebiidae (Prongailled) Berverve all Unknowns, Case Makers and Scuds. (Do not	Amphipoda (Scuds)- preserve			Rhyacophilidae (Free-living)		
Unionacea (Mussels)-return to stream Corbiculidae (Asian Clams) Sphaeriidae (Pea Clams) Pleuroceridae (Pleurocerid Snails) Hydrobiidae (Hydrobiid Snails) Ancylidae (Ancylid Snails-lunged) NSECTS Plecoptera (Stonefly) Capniidae (Green) Corydalidae (Green) Nemouridae (Green) Nemouridae (Green) Perloidae (Green) Perloidae (Common) Perloidae (Perloidid) Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Minnow) Baetidae (Small Minnow) Betidae (Small Squaregills) Betidae (Common Burrower) Bethemeridae (Common Burrower) Be	Decapoda (Crayfish)			Brachycentridae (Humpless)- preserve		
Corbiculidae (Asian Clams) Sphaeriidae (Pea Clams) Pleuroceridae (Pleurocerid Snails) Hydrobiidae (Hydrobiid Snails) Ancylidae (Ancylid Snails-lunged) INSECTS Plecoptera (Stonefly) Capniidae (Small Winter) Chloroperlidae (Green) Chloroperlidae (Green) Nemouridae (Nemourid) Perlodidae (Perlodid) Famioptera (Water Beetle Larva) Baetidae (Small Winnow) Baetidae (Small Minnow) Baetidae (Small Minnow) Caeniidae (Small Minnow) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caeniidae (Small Minnow) Caeniidae (Small Minnow) Caeniidae (Small Minnow) Baetidae (Small Minnow) Caeniidae (Small Squaregills) Ephemerellidae (Small Squaregills) Ephemerellidae (Common Burrower) Ephemeridae (Common Burrower) Ephemeridae (Common Burrower) Codonata (Dragon & Damselflies) Freserve all Unknowns, Case Makers and Scuds. (Do not	Asellidae (Sow Bugs)			Hydroptilidae (Micro)- preserve		
Sphaeriidae (Pea Clams) Diptera (True Flies) Pleuroceridae (Pleurocerida Snails) Athericidae (Watersnipe) Hydrobiidae (Hydrobiid Snails) Chironomidae (Midge) Ancylidae (Ancylid Snails-lunged) Simuliidae (Black) INSECTS Tabnidae (Horse/Deer) Plecoptera (Stonefly) Tipuliidae (Crane) Capniidae (Small Winter) Megaloptera Chioroperlidae (Green) Corydalidae (Dobson/Fishflies) Nemouridae (Nemourid) Salidae (Alderflies) Perlidae (Common) Coleoptera (Water Beetles) Perlodidae (Perlodid) Dytiscidae (Predaceous Diving) Taeniopterygidae (Winter) Elmidae (Riffle Beetle Larva) Baetidae (Small Minnow) Haliplidae (Crawling) Caenidae (Small Squaregills) Hydrophilidae (Water Scavenger) Ephemerellidae (Spiny Crawler) Psephenidae (Water Penny) Ephemeridae (Common Burrower) Odonata (Dragon & Damselflies) Heptageniidae (Flatheaded) Aeshnidae (Darners) Isonychiidae (Brushlegged) Calopterygidae (BW-damselflies) Tricorythidae (Little Stout Crawlers) Coenagrionidae (NW-damselflies) Preserve all Unknowns, Case Makers and Scuds. (Do not	Unionacea (Mussels)- return to stream			Glossosomatidae (Saddlecase)- preserve		
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INSECTS Tabnidae (Horse/Deer) Plecoptera (Stonefly) Tipuliidae (Crane)	Hydrobiidae (Hyrdrobiid Snails)			Chironomidae (Midge)		
INSECTS Tabnidae (Horse/Deer) Plecoptera (Stonefly) Tipuliidae (Crane)				, , ,		
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Chloroperlidae (Green) Nemouridae (Nemourid) Perlidae (Common) Perlodidae (Perlodid) Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caenidae (Small Squaregills) Ephemerellidae (Spiny Crawler) Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Leptophlebiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not				Megaloptera		
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Perlodidae (Perlodid) Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caenidae (Small Squaregills) Ephemerellidae (Spiny Crawler) Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not						
Taeniopterygidae (Winter) Ephemoptera (Mayfly) Baetidae (Small Minnow) Caenidae (Small Squaregills) Ephemerellidae (Spiny Crawler) Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not	Perlidae (Common)			Coleoptera (Water Beetles)		
Ephemoptera (Mayfly) Baetidae (Small Minnow) Caenidae (Small Squaregills) Ephemerellidae (Spiny Crawler) Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not	Perlodidae (Perlodid)			Dytiscidae (Predaceous Diving)		
Baetidae (Small Minnow) Caenidae (Small Squaregills) Ephemerellidae (Spiny Crawler) Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not	Taeniopterygidae (Winter)			Elmidae (Riffle Beetle Adult)		
Baetidae (Small Minnow) Caenidae (Small Squaregills) Ephemerellidae (Spiny Crawler) Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not	Ephemoptera (Mayfly)			Elmidae (Riffle Beetle Larva)		
Ephemerellidae (Spiny Crawler) Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not				Haliplidae (Crawling)		
Ephemeridae (Common Burrower) Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not	Caenidae (Small Squaregills)			Hydrophilidae (Water Scavenger)		
Heptageniidae (Flatheaded) Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not Makers and Scuds. (Do not Gomphidae (Clubtails) Aeshnidae (Darners) Calopterygidae (BW-damselflies) Coenagrionidae (NW-damselflies) OTHER ORGANISMS	Ephemerellidae (Spiny Crawler)			Psephenidae (Water Penny)		
Leptophlebiidae (Pronggilled) Isonychiidae (Brushlegged) Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not	Ephemeridae (Common Burrower)			Odonata (Dragon & Damselflies)		
Isonychiidae (Brushlegged) Calopterygidae (BW-damselflies) Tricorythidae (Little Stout Crawlers) Coenagrionidae (NW-damselflies) Preserve all Unknowns, Case OTHER ORGANISMS Makers and Scuds. (Do not	Heptageniidae (Flatheaded)			Gomphidae (Clubtails)		
Isonychiidae (Brushlegged) Calopterygidae (BW-damselflies) Tricorythidae (Little Stout Crawlers) Coenagrionidae (NW-damselflies) Preserve all Unknowns, Case OTHER ORGANISMS Makers and Scuds. (Do not	Leptophlebiidae (Pronggilled)			Aeshnidae (Darners)		
Tricorythidae (Little Stout Crawlers) Preserve all Unknowns, Case Makers and Scuds. (Do not Coenagrionidae (NW-damselflies) OTHER ORGANISMS	, , , , , , , , , , , , , , , , , , , ,			· · ·		
Preserve all Unknowns, Case Makers and Scuds. (Do not	, , ,			1 / 3		
Makers and Scuds. (Do not	Preserve all Unknowns Case					
record.) i nanks.	· · · · · · · · · · · · · · · · · · ·					
	record.) i nanks.					
Total Grand Total	Total			Grand Total		•

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		Metric 6: Non-Insect	
Organism Groups	Number of Organisms	Organism Groups	Number of Organisms
Black Flies		Clams	
Clams		Crayfish	
Dragonflies and Damselflies		Flatworms	
Flatworms		Gilled Snails	
Leeches		Leeches	
Lunged Snails		Lunged Snails	
Midges		Scuds	
Scuds		Sowbugs	
Sowbugs		Worms	
Worms			
		Total Tolerant	
Total Tolerant			divided by
Fotal number of organisms	divided by	Total number of organisms	
nsample		in sample	
	multiply by 100		multiply by 100
Percent	%	Percent	%
(This is your value for Metric 5.))	(This is your value for Metric 6.)

MULTIMETRIC INDEX (STREAM HEALTH SCORE)

Metric Number	Metric Organism	Your Metric Value	2	1	0
1	Mayflies + Stoneflies + Most Caddisflies		Greater than 32.2	16.1 – 32.2	Less than 16.1
2	Caddiflies: Common Netspinning		Less than 19.7	19.7 – 34.5	Greater than 34.5
3	Snails: Lunged		Less than 0.3	0.3 – 1.5	Greater than 1.5
4	Beetles		Greater than 6.4	3.2 – 6.4	Less than 3.2
5	Tolerant		Less than 46.7	46.7 – 61.5	Greater than 61.5
6	Non-Insects		Less than 5.4	5.4 – 20.8	Greater than 20.8
			Total # of 2s:	Total # of 1s:	Total # of 0s:
		SUBTOTALS	Multiply by 2:	Multiply by 1:	Multiply by 0:

Add the three subtotals to get the Save Our Streams Multimetric Index Score:	
<u> </u>	

Acceptable Ecological Condition (9 – 12)

Ecological conditions cannot be determined at this time (8)

Unacceptable Ecological Condition (0 – 7)

STREAM CONDITIONS

Fish water quality indicators: scattered individuals scattered schools trout (pollution sensitive) bass (somewhat sensitive) catfish (pollution tolerant) carp (pollution tolerant)	Barriers to fish movement: beaverdams man-made dams waterfalls (> 1 ft.) none other	Surface water appearance: clear clear, but tea-colored colored sheen (oily) foamy milky muddy black grey other	Streambed deposit (bottom): grey orange/red yellow black brown silt sand other	
Odor: musky oil sewage other none	Stability of streambed (bed sinks beneath your feet in): no spots a few spots many spots	Algae appearance: light green darkgreen brown coated matted on stream bed hairy	Algae located: everywhere in spots % bed covered	
Stream channel shade: More than 75% full 50% - 74% high 25% - 49% moderate 1% - 24% slight none	Streambank composition (=100%):% trees% shrubs% grass% bare soil% rocks% other	Streambank erosion: More than 75% severe 50% - 75% high 25% - 49% moderate 1% - 24% slight none	Riffle composition (=100%):% silt (mud)% sand (1/16" – ¼" grains)% gravel (1/4" – 2" stones)% cobbles (2" – 10" stones)% boulders (> 10" stones)	
	ATERSHED (UPSTRE wing land uses within a or mpact to the quality ofUrban uses (p	your stream. arking lots, highways, etc.) Ifill uction	S SAMPLING SITE) In g site have a high (H), moderate (M), s Agriculture (type:) Trash dump Fields Livestock Pasture Other	ligh
COMMENTS: Describe the threats to the stream's h		er in and around the stream an	d indicate the current and potential fut	cure

Please send your data sheets to your regional coordinator or submit them online at www.vasos.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.