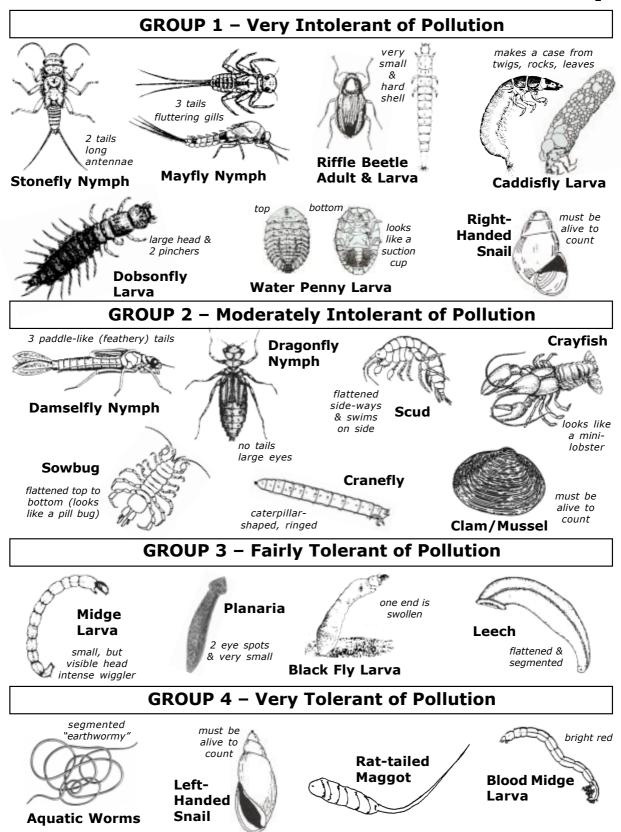
WATERSHED		STREAM MONITORING DATA SHEET UVM WATERSHED ALLIANCE					
	BACKGROUND INFORMATION:						
River/Stream Name: Watershed Name:							
		igators:			Town		
Date: Time of Sampling: Longitude:							
(GPS Coordinates) Latitude:					Longitude:		
Weather:		Today: (Check One)	Past 48 Hours: (Check One)	Site D	escription: (topograption, other defining o	phy, bank slope,	
Clear / Sunny				vegeta	tion, other defining (character istics)	
Overcast							
Showers							
Steady Rain							
Heavy Rain (Stormy)							
PHYSICA	AL AS	SSESSMENT:					
		epth: (measure 3	Stream/River V	elocity.		Bank Stability:	
Channel times a width: a)		cross channel)	Measurement 1: 10ft. / seconds =ft. / sec		% of banks eroding		
		ft. ft.	Measurement 2: 10ft. / seconds =ft. / sec.			(face downstream)	
ft.	c)	ft.	Total (add above) ft. / sec. Average Velocity for Site: Total / 2 = ft. / sec.			% Left Bank	
		ge (add above #s & by 3): ft.				% Right Bank	
	41,140	1v.	Average velocity is	or Site: 10ta	$11 _{1} / 2 = \pi. / sec.$		
Stream/River Bottom Composition: Estimate the % of river bottom that is composed of the following materials (%		Embeddedness: Estimate the % of river area of gravel, cobble, and boulder particles are surrounded by fine sediment.	Relative Flow Patterns: (check as many as present)		Water Appearance: ☐ Green ☐ Tea ☐ Milky ☐ Muddy ☐ Cloudy ☐ Foamy ☐ Clear ☐ Reddish	Surrounding Development or Land Uses: Dairy Farm	
should total 100 whe together)	ii added	□ 0-25%	Slow is < 1 ft/sec, fast is >1.5 ft/sec.			☐ Park Area	
% Bedrock		☐ 25-50%	☐ Slow-Deep		☐ Oily Sheen	☐ Golf Course	
% Boulders % Cobble % Gravel % Sand, Silt, Clay % Organic Matter (leaves)		☐ 50-75%	☐ Slow-Shallow		☐ Other:	☐ Residential	
		☐ 75-100%	☐ Fast-Deep			□ Forest	
		☐ /3-100/ ₀	☐ Fast-Shallow			☐ Factory/Mining	
						☐ Other:	
Zone Width (buffer): Estimate width of zone on both sides:		Overhead Canopy:% of stream width covered or shadowed by overhanging grasses, shrubs and trees.	Algal Growth: % of bottom covered		Water Odor: ☐ None ☐ Rotten Eggs ☐ Sewage ☐ Fish ☐ Oil ☐ Chlorine		
Do you see any pipes entering into the river?		Is there a water treatment plant upstream?			□ Other:		
Yes N	О	☐ Yes ☐ No					

BENTHIC MACROINVERTEBRATE SAMPLING:

POLLUTION TOLERANCE INDEX (PTI)						
PT GROUP 1 Intolerant	PT GROUP 2 Moderately Intolerant	PT GROUP 3 Fairly Tolerant	PT GROUP 4 Very Tolerant			
Stonefly Nymph	nefly Nymph Damselfly Nymph		Left-Handed Snail			
Mayfly Nymph	Dragonfly Nymph	Black Fly Larvae	Aquatic Worms			
Caddis Fly Larvae	Sowbug	Planaria	Blood Midge			
Dobsonfly Larvae	Scud	Leech	Rat-tailed Maggot			
Riffle Beetle	Crane Fly Larvae					
Water Penny	Clams/Mussels					
Right-Handed Snail	Crayfish					
# Of TAXA Weighting	# Of TAXA	# Of TAXA	# Of TAXA			
Factors: (x 4)	, ,	(x 2)	` '			
"# of TAXA" refers to the number of different types of BMI's in a PT Group, i.e, if there are 4 stoneflies and 3 mayflies in PT Group 1, the # of TAXA is 2, it is not 7, the total # of organisms						
23 or More Excellent POLLUTION TOLERANCE						
17 - 22 God	- I INDEX	RATING				
11 - 16 Fair 10 or Less Poor (Add the final index values for each group.)						
10 Of Less Foor						
Other Biological Indicators						
Other Biological Indicators						
Native Zebra Rusty Aquatic Mussels Rusty Plants Cover Index						

Macroinvertebrate Identification Key



CHEMICAL MONITORING:

	Temperature (Varies with life stage and species) Example: Atlantic Salmon Max. for growth -23 C Opt. for spawning -5 C Embryo survival -7 C	pH 6.5-8.0 Average pH range for most aquatic life	Turbidity (Transparency) No Impact >60 cm - 17cm = 0-50 ntu Possible Impact: 17 - 8cm = 65-150 ntu Impacted: 8 - < 6 cm = >150 ntu	Orthophosphate PO ₄ - ³ (Divide by 3 to get P) No Impact 0-0.05 mg/L of P Likely Impact 0.05-0.10 mg/L of P Certain Impact >0.1 mg/L of P	Dissolved Oxygen 4-7 mg/L of DO: low for cold fisheries, good for pond animals 7-11 mg/L of DO very good for most stream fish
Trial 1					
Trial 2					
Avg.					
Field Notes					

SITE PICTURE:

Direction Taken:	_
Label:	
Luoci.	