

LOTIC BENTHOS FIELD SHEET

(2006 edition)

Site Location:

River (site) _____ River Mile _____ Site ID _____ BioLab ID _____
Town _____ Stream Order _____ Drainage Area _____ Km² Elevation _____ ft
D.D° Latitude _____ Longitude _____ Lat/Long source (GPS – set to NAD83) _____
Site Description _____

Sampling Information:

Date _____ Time _____ Personnel (circle sampler) _____ Gear _____
Effort time (min) _____ Area (m²) _____ Mesh (um) 500 Quantitative: Y / N #Reps: _____ Comp/rep _____
Weather _____ Flow/Weather Previous (2 weeks/2days) _____
Baseflow _____, or Freshet flow _____ Rising / Receding _____ Present Flow: H - M - L

General observations circle those that apply: Overall Aesthetic Rating 0 (poor) – 5 (exc.) _____

A:-Debris Obvious Pollution: Sludge, Sawdust, Paper Fiber, Sand, Silt, Sewage, Oily Sheen, Trash, Iron, Scum, None

B:-Water Clarity Clear, Slightly Turbid, Moderately Turbid, Very Turbid, Secci Tube _____ mm

C:-Water Color Clear, Green, Milky, Brown (Tannic) L M H, Gray, Metallic, Reddish

D:- Odors None, Musty, Fishy, Sewage, Manure, Sulfur(eggs), Oily/gas

Embeddedness: 0-5% Excel (5) 5-25% V Good (4) 25-50% Good (3) 50-75% Fair (2) > 75% Poor (1) Estimate _____ %
Silt rating (0-5) _____ (0=none, 5= high) CPOM rating (leaf packs)(0-5): _____ (0= none,5=high)
Snags/debris dams # _____ / _____ m (reach)

Bank Stability: EX , G , F , P ; **Riparian Width**(facing upstream) L _____ m, R _____ m

% Canopy: 100 90 80 70 60 50 40 30 20 10 0 Overhead = Open, Partly Open, or Closed (See back for Densimeter form)

Vegetation: (both sides) %: Overstory: Softwood _____ Hardwood _____
(Does not need to add up to 100%) %: Understory: Shrub(brush) _____ Grass _____ Herbaceous _____

Surrounding Land Use: _____

Periphyton Cover: For each type 0-100% (See back for Periphyton Cover Form)

Diatom _____ % Filamentous green _____ % and length _____ (in) Blue Green _____ % Moss _____ % Green _____ %
Other _____ % General Trophic Rating (0-5) _____ (0=oligo, 5=Eutroph)

General Water Type:

Riffle _____ Winder _____ Other _____ Warm _____ Cold _____ Mixed _____
B.F.Width _____ (m), Wetted Width _____ (m) Riffle Depth _____ (m) Pool Depth _____ (m) and Obs _____
Velocity (measured): _____ ft/sec, Velocity RANGE-estimate: (circle): _____ <.4 ft/sec (S) _____ .4-2 ft/sec (M) _____ >2 ft/sec (F)
Channelized: Y / N Upstream Dam: Y _____ mi / N Other modifications: _____

Water Quality Parameters: Field (Record) or Collected (Circle), Meter (type, #) _____ Chemistry LabId _____

Temp Air _____ °C, °F Water _____ °C fpH _____ lab pH _____ fCond _____ labCond _____ D.O.% _____ D.Omg/l _____

Cond pH Alk Color _____ TP DP Cl ICAnions Turb TN N02-3 Ca Mg Na K Hardness Metals, TNH3, TSS Other _____, _____, _____, _____, _____, _____, _____, _____

Field Sheet Complete: _____ (initial) Photo's: _____ Fish Survey Conducted (circle): Y / N _____

Site Sketch & Observations

Aquatic Biota Observed:

Mussels
Crayfish
Gastropods
Fish
Other

Complete % observed substrate when Pebble Count not performed

Particle	Millimeters	%Observed	Transect 1 (100 pebbles)	Tot #	Item %
Clay	<.004				
Silt	.004 -0.6				
Sand	0.06 – 2.0				
Gravel	2.0 -16				
Coarse Gravel	16 – 64				
Cobble	64 – 256				
Boulder	>256				
Bedrock					
			TOTALS		

Pebble Count Field Form

Periphyton Cover Observations

	Moss Cover Index			
Category	0	1(<5%)	2(5-25%)	3(>25%)
Tally				

	Macro-Algae Cover Index			
Category	0	1(<5%)	2(5-25%)	3(>25%)
Tally				

	Micro-Algae Cover Index						
Category	0	1 (slimy)	2 (draw line)	3(.5-1mm)	4(1-5mm)	5(5-20mm)	6(>20mm)
Tally							