

EII Calculation for High Gradient Streams in Eastern Kentucky Coalfield (VERSION 2002.6)
 (Genus/species Level Taxonomy - Riffle Only Sample)

Project ID:	Division Meeting
Stream/Reach:	Clemons Fork (least disturbed stream)
Assessment Objectives:	Demonstration of quality assessment protocol; Genus/species Level Taxonomy (Riffle Only)

1.00	Ecological Integrity Index (MBI + Habitat Integrity + Conductivity)
1.00	Ecological Integrity Index (Habitat Integrity + Conductivity)

Variables	Measure	Units	
>>>>>> Enter quantitative or categorical measure from Field Data Sheet in shaded cells			
RBP Habitat Parameters			
1. Epifaunal Substrate	19	no units (0-20)	
2. Embeddedness	19	no units (0-20)	
3. Velocity/Depth Regime	16	no units (0-20)	
4. Sediment Deposition	16	no units (0-20)	
5. Channel Flow Status	15	no units (0-20)	
6. Channel Alteration	20	no units (0-20)	
7. Freq. Of Riffles (bends)	19	no units (0-20)	
8. Bank stability (both combined)	18	no units (0-20)	
9. Veg. Protection (both combined)	18	no units (0-20)	
10. Riparian Width (both combined)	20	no units (0-20)	
Total Habitat Score	180	no units	Subindex
Habitat Integrity			1.00
Macroinvertebrate Data - Genus/species Level			
11. Genus/species Taxa Richness	44	# of taxa sampled	
12. Genus/species EPT Richness	23	# of EPT species sampled	
13. % Ephemeroptera	51.97	% Mayflies (0-100)	
14. % Chironomidae & Oligochaeta	2.69	% Midges & Worms (0-100)	
15. % Clingers	64.8	% Clingers (0-100)	
16. mHBI	2.45	no units	
Macroinvertebrate Bioassessment	86.64	no units	1.00
Conductivity	150	microMHOs	1.00

