

Stream name	SECOND CREEK			Basin	GREENBRIER RIVER		
Group name					Date	10/21/2009	
Directions	SECOND CREEK RD.; SITE IS UPSTREAM OF 2 <sup>ND</sup> BRIDGE						
Latitude	37-39-49		Longitude	80-27-9		County	MONROE

### Water chemistry

	Units		Units		
Temperature	12.3	C	Conductivity	260	µS/CM
pH	8.2		Alkalinity	125	PPM
Dissolved oxygen	9.2	PPM	Other (describe)	0	JTU

### TURBIDITY

### Physical conditions

Water clarity	CLEAR	Algae color	DARK GREEN/BROWN		
Water color	NONE	Algae abundance	SCATTERED		
Water odor	NONE	Algae texture	EVEN COAT		
Streambed color	BROWN	Surface foam	NONE		
Discharge <sup>(cfs)</sup> /Water level	35.7	NORMAL	Run width/depth <sup>(feet)</sup>	30	0.7

### Pebble count

Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock	Woody debris
		20	30	45	5		

### Habitat conditions

	Index	Left	Right	
Sediment deposition	SUBOPTIMAL	SUBOPTIMAL	OPTIMAL	
Embeddedness	OPTIMAL	MARGINAL	OPTIMAL	
Total/Index	27	84	Integrity rating	OPTIMAL

### Comments

### Macroinvertebrates collected

Low	#	Moderate	#	High	#				
						1	2	3	4
FLATHEADED MAYFLY	3	SMALL MINNOW MAYFLY	3	NON-BITING MIDGE	1				
BRUSH-LEGGED MAYFLY	3	COMMON NETSPINNER	6	AQUATIC WORM	1				
GOLDEN STONEFLY	3	RIFFLE BEETLE	1						
PATTERN STONEFLY	1	CRANE FLY	1						
WINTER STONEFLY	1	CRAYFISH	3						
HUMPLESS-CASE CADDISFLY	1	OPERCULATE SNAILS	6						
FINGER-NET CADDISFLY	6								
FREE-LIVING CADDISFLY	3								
WATER PENNY	3								
HELLGRAMMITE	3								
WATERSNIPE FLY	3								
Total	30	Total	20	Total	2				
Other aquatic life observed/collected				SEVERAL TYPES OF MINNOWS		Totals	52		

### Metrics

	Value	Points		Value	Points		
1. Total Taxa	19	10	86	4. Biotic Index	3.90	10	87
2. EPT Taxa	10	7	77	5. % Tolerant			
3. % EPT Abundance				6. % Dominance			
<b>Stream Index</b>	<b>27</b>	<b>83</b>	<b>Integrity rating</b>	<b>OPTIMAL</b>			

Additional comments \_\_\_\_\_

Level **1**

6 (> 50); 3 (5-50); 1 (< 5)