

Stream	Warm Spring Run		Level	2	Date(s)	6/22/12
Monitor(s)	Lehman, Dean, Seims, Price, and S. Jones					
Directions	Near the intersection of River Road and Fairview Road				Start time	
			County	Morgan	RR Miles	Station
						Fairview
Latitude	41	46	Longitude	78	10	9
						9
			Database code	Fairview		

WATER CHEMISTRY

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)	23	c	Alkalinity			Fecal coliform		
pH	8.30		Nitrate/Nitrite	.2	MI	Iron		
Conductivity			Phosphates			Aluminum		
Dissolved O ₂	3	ppm	Total Dissolved Solids			Manganese		
Acidity			Turbidity	10.2	NTU	Other (describe below)		

Describe other conditions analyzed: Turbidity 60 JTU

PHYSICAL CONDITIONS

Water	murky	Algae color	brown
Water color	none	Algae abundance	scattered
Water/Sedi	fishy fishy	Algae texture	even coating
Streambed	sbrown	Surface foam	none
Comments			

Riffle width	Run width	15	Pool width	
Riffle depth	Run depth	0.42	Pool depth	
			Feet	Meters
			feet	Indicate units

Estimate	Count	yes	Entire reach	yes	Riffles only		
Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock	Woody debris
0	7	8	19	26	37	2	
Index					% Riffles	% Runs	% Pools
Comment:							

HABITAT CONDITIONS

Sediment deposition	13	Bank stability	7	7	C
					c
					n
					n
					e
					n

Embeddedness	13	Bank veg. protection	10	10
Channel shade	80%	Riparian buffer width	9	9
Total Score	78	Integrity Rating	suboptimal	

BIOLOGICAL CONDITIONS

Richness		Composition		Tolerance	
Total Taxa	9	% EPT Abundance	91%	Biotic Index	4.71
EPT Taxa	3	% Dominance	58%	% Tolerant	3%
				Stream Score	26
Other aquatic organisms observed or collected, or additional comments:				Integrity rating	suboptimal

Discharge (cfs)					
Current/past weather conditions:		Low	Normal yes	High	No flow
		Estimate water level			

LAND USE IMPACTS: Indicate the types of land uses that affect your stream reach and their approximate location using the code: **(S)** streamside, **(M)** within 1/4 mile, and **(W)** within the watershed. Also estimate the level of impact with the numeric codes **(1)** slight, **(2)** moderate, or **(3)** for high impacts.

	Impact	Location		Impact	Location	
Single family residences	1	w	Trash dumps			
Sub-urban developments			Intensive feedlots			
Urban areas			Pastureland	1	w	
Industrial areas			Cropland	2	w	
Parking lots, malls etc.			Oil & gas wells			
Bridges	1	s	Logging	2	w	
Paved roads	2	w	Mountaintop mining	3	w	
Unpaved roads			Abandoned mining			
Active construction	1	w	Deep mining			
Parks, trails etc			Quarries			
Other recreation			Other (describe)			
Landfills						
Comments:				Pipes?	Yes	No
						no

BENTHIC MACROINVERTEBRATES: Record the total and taxa of each macroinvertebrate group collected. Note: In the VAD the macroinvertebrates are recorded in three columns based upon their tolerance using taxonomic names.

Macroinvertebrates collected	Total	Taxa	Macroinvertebrates collected	Total	Taxa
Ephemeroptera			Megaloptera		
M Minnow mayflies			M Alderfly		
L Brush-legged mayfly			L Hellgrammite/Fishfly		

WV SAVE OUR STREAMS LEVEL-TWO SURVEY SUMMARY

L	Flatheaded mayfly	4	1		
L	Spiny-crawler mayfly				
M	Stout-crawler mayflies				
M	Burrowing mayflies				
Plecoptera					
L	Patterned stoneflies				
L	Brown stonefly				
L	Roach-like stonefly				
L	Giant stonefly				
L	Small winter stoneflies				
L	Winter stonefly				
Trichoptera					
M	Common netspinner	126	1		
L	Net-spinning caddisflies	67	1		
L	Free-living caddisfly				
L	Case-building caddisflies				
Odonata					
M	Dragonflies				
H	Damselflies				
Coleoptera and Hemiptera					
M	Riffle beetle	4	1		
L	Water penny	4	1		
M	Whirligig beetle				
M	Long-toed beetle				
H	Other beetles and True	1	1		
Totals				Totals	216 9
<p>Other aquatic invertebrates:</p> <p>(L) Low (M) Moderate (H) High</p> <p>0 1 2 3 4 5 6 7 8 9 10</p>					

Miscellaneous Insects					
M	Springtails				
M	Aquatic moths				
Diptera					
H	Non-biting midge				
M	Black fly				
M	Crane fly				
L	Watersnipe fly				
M	Dance fly				
L	Net-wing midge				
M	Dixid midge				
H	Other true flies				
Crustacea					
H	Aquatic sowbug				
M	Crawfish		3		1
M	Scud/Sideswimmer				
Mollusca					
M	Operculate snails				
H	Non-operculate snails				
M	Clams				
L	Mussels				
Annelida and Platyhelminthes					
H	Aquatic worms		3		1
H	Leeches				
H	Flatworms		4		1
Totals			216		9

Discuss present and future trends or provide any additional comments: _____
