

WV SAVE OUR STREAMS LEVEL-TWO SURVEY SUMMARY

Stream	Warm Spring Run		Level	2	Date(s)	8/15/12
Monitor(s)	Dean, Lehman, O'Brien, Reece					
Directions	1/4 mile south Wdmyer School		Start time	9:00		
			County	Morgan		
			RR Miles	Station	Widmyer	
Latitude	46	44	Longitude	78	14	1 Waters
				5 hed Potomac Direct Drain -Warm Spring Run		
				Database code Widmyer		

**WATER CHEMISTRY**

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)	24	c	Alkalinity			Fecal coliform		
pH	7.65		Nitrate/Nitrite	.6	Mg/L	Iron	0.5	Ppm
Conductivity			Phosphates			Aluminum		
Dissolved O <sub>2</sub>	2	pmm	Total Dissolved Solids			Manganese		
Acidity			Turbidity	7	jtu	Other (describe below)		

Describe other conditions analyzed:

**PHYSICAL CONDITIONS**

Water	clear	Algae color	light green
Water color	none	Algae abundance	scattered
Water/Sedi	sewage	Algae texture	even coating
Streambed	brown	Surface foam	none
Comments			

Riffle width	10	Run width	10	Pool width	
Riffle depth		Run depth	.23	Pool depth	
				Feet	Meters
				Indicate units	

Estimate	Count	yes	Entire reach	yes	Riffles only		
Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock	Woody debris
5	28	15	26	15	5	2	
<b>Index</b>					% Riffles	% Runs	% Pools
Comment:							

**HABITAT CONDITIONS**

Sediment deposition	8	Bank stability	5	5	C
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Embeddedness	5	Bank veg. protection	6	8
Channel shade	Excellent	Riparian buffer width	10	10
<b>Total Score</b>	<b>57</b>	<b>Integrity Rating</b>	<b>marginal</b>	

**BIOLOGICAL CONDITIONS**

Richness		Composition		Tolerance	
Total Taxa	12	% EPT Abundance	79%	Biotic Index	3.5
EPT Taxa	5	% Dominance	53%	% Tolerant	0
				<b>Stream Score</b>	<b>40</b>
				Integrity rating	suboptimal

Other aquatic organisms observed or collected, or additional comments:

Wood turtle observed in the steam. Also netted one minnow.

Discharge (cfs)	2.3				
Current/past weather conditions:	overcast	Low	Normal	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	1w	
Industrial areas			Cropland		
Parking lots, malls etc.	2	m	Oil & gas wells		
Bridges			Logging		
Paved roads	2	m	Mountaintop mining		
Unpaved roads			Abandoned mining		
Active construction	1	W	Deep mining		
Parks, trails etc			Quarries		
Other recreation			Other (describe)		
Landfills					
Comments:			Pipes?	Yes	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
<b>Ephemeroptera</b>			<b>Megaloptera</b>		
M   Minnow mayflies	2	1	M   Alderfly		
L   Brush-legged mayfly			L   Hellgrammite/Fishfly	2	1
L   Flatheaded mayfly	5	1	<b>Miscellaneous Insects</b>		
L   Spin-crawler mayfly			M   Springtails		
M   Stout-crawler mayflies			M   Aquatic moths		

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M	Burrowing mayflies				
<b>Plecoptera</b>					
L	Patterned stoneflies				
L	Brown stonefly				
L	Roach-like stonefly				
L	Giant stonefly				
L	Small winter stoneflies				
L	Winter stonefly				
<b>Trichoptera</b>					
M	Common netspinner	33	1		
L	Net-spinning caddisflies				
L	Free-living caddisfly	124	1		
L	Case-building caddisflies	20	1		
<b>Odonata</b>					
M	Dragonflies	15	1		
H	Damselflies				
<b>Coleoptera and Hemiptera</b>					
M	Riffle beetle	13	1		
L	Water penny	5	1		
M	Whirligig beetle				
M	Long-toed beetle				
H	Other beetles and True	1	1		
<b>Totals</b>					
<b>Diptera</b>					
H	Non-biting midge				
M	Black fly				
M	Crane fly		5	1	
L	Watersnipe fly				
M	Dance fly				
L	Net-wing midge				
M	Dixid midge				
H	Other true flies				
<b>Crustacea</b>					
H	Aquatic sowbug				
M	Crayfish		9	1	
M	Scud/Sideswimmer				
<b>Mollusca</b>					
M	Operculate snails				
H	Non-operculate snails				
M	Clams				
L	Mussels				
<b>Annelida and Platyhelminthes</b>					
H	Aquatic worms				
H	Leeches				
H	Flatworms				
<b>Totals</b>					
_____ (L) Low                      (M) Moderate                      (H) High					
_____ 0      1      2      3      4      5      6      7      8      9      10					

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Discuss present and future trends or provide any additional comments: \_\_\_\_\_

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