

Stream	Warm Spring Run		Level	2	Date(s)	6/10/12
Monitor(s)	Lehman, Dean, O'Brien, Price, Seims					
Directions	Rt 522 North to Airport Road and follow Airport Rd. To Bridge			Start time		
	County	Morgan				
	RR Miles	Station	Airport			
Latitude	41	Longitude	78	10	Watershed	Warm Spring Run
					Database code	Airport

**WATER CHEMISTRY**

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)	19	c	Alkalinity			Fecal coliform		
pH	8.2		Nitrate/Nitrite	2	ppm	Iron		
Conductivity			Phosphates			Aluminum		
Dissolved O <sub>2</sub>			Total Dissolved Solids			Manganese		
Acidity			Turbidity	0	jt	Other (describe below)		

Describe other conditions analyzed:

**PHYSICAL CONDITIONS**

Water	clear	Algae color	dark green
Water color	none	Algae abundance	scattered
Water/Sediment	none	Algae texture	even coating
Streambed	brown	Surface foam	slight
Comments			

Riffle width	9.8	Run width	23	Pool width	
Riffle depth		Run depth	.63	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
1	6	6	27	59	12	1	
<b>Index</b>					% Riffles	% Runs	% Pools
Comment:							

**HABITAT CONDITIONS**

Sediment deposition	19	Bank stability	9	9	C
					c
					m
					m
					e

Embeddedness	13	Bank veg. protection	9	9
Channel shade	80%	Riparian buffer width	5	5
<b>Total Score</b>	<b>78</b>	<b>Integrity Rating</b>	<b>Suboptimal</b>	

**BIOLOGICAL CONDITIONS**

Richness		Composition		Tolerance	
Total Taxa	12	% EPT Abundance	76%	Biotic Index	4.96
EPT Taxa	4	% Dominance	68%	% Tolerant	2%
				<b>Stream Score</b>	<b>36</b>
Other aquatic organisms observed or collected, or additional comments:				Integrity rating	suboptimal

Discharge (cfs)	3.60				
Current/past weather conditions:	Today Dry and Warm . Last 3 days 6/7 rain, 6/8 clear, 6/9 clear	Estimate water level	Low	Normal yes	High No flow

**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	S	
Parking lots, malls etc.			Oil & gas wells			
Bridges	2	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 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			M   Alderfly		

WV SAVE OUR STREAMS LEVEL-TWO SURVEY SUMMARY

L	Brush-legged mayfly			L	Hellgrammite/Fishfly		
L	Flatheaded mayfly			<b>Miscellaneous Insects</b>			
L	Spinv-crawler mayfly			M	Springtails		
M	Stout-crawler mayflies			M	Aquatic moths		
M	Burrowing mayflies			<b>Diptera</b>			
<b>Plecoptera</b>				H	Non-biting midge		
L	Patterned stoneflies			M	Black fly		
L	Brown stonefly			M	Crane fly		
L	Roach-like stonefly			L	Watersnipe fly		
L	Giant stonefly			M	Dance fly		
L	Small winter stoneflies			L	Net-wing midge		
L	Winter stonefly			M	Dixid midge		
<b>Trichoptera</b>				H	Other true flies		
M	Common netspinner	205	1	<b>Crustacea</b>			
L	Net-spinning caddisflies	12	1	H	Aquatic sowbug	1	1
L	Free-living caddisfly			M	Crayfish	2	1
L	Case-building caddisflies	5	1	M	Scud/Sideswimmer	36	1
<b>Odonata</b>				<b>Mollusca</b>			
M	Dragonflies			M	Operculate snails		
H	Damselflies			H	Non-operculate snails		
<b>Coleoptera and Hemiptera</b>				M	Clams		
M	Riffle beetle	2	1	L	Mussels		
L	Water penny	14	1	<b>Annelida and Platyhelminthes</b>			
M	Whirligig beetle			H	Aquatic worms	4	1
M	Long-toed beetle			H	Leeches	3	1
H	Other beetles and True			H	Flatworms	9	1
<b>Totals</b>				<b>Totals</b> 300   12			
stream integrity rating suboptimal							
Oth er aqu atic inve rted rate s:							
(L) Low (M) Moderate (H) High							
0 1 2 3 4 5 6 7 8 9 10							

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

\_\_\_\_\_

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