

Stream	Warm Spring Run		Level	2	Date(s)	6/28/12
Monitor(s)	Dean, Jones, Lehman, Reece, Seims and Swaim					
Directions	Intersection of Route 522 and Jimstown Road				Start time	
			County	Morgan		
			RR Miles	Station	Jimstown	
Latitude	38	41	Longitude	78	15	8 Watershed Database code

WATER CHEMISTRY

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)	24	c	Alkalinity			Fecal coliform		
pH	7.45		Nitrate/Nitrite	0.2	Mg/l	Iron		
Conductivity			Phosphates			Aluminum		
Dissolved O ₂	2	ppm	Total Dissolved Solids			Manganese		
Acidity			Turbidity	4.2	NTU	Other (describe below)		

Describe other conditions analyzed:

PHYSICAL CONDITIONS

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

Riffle width	Run width	19.1	Pool width	
Riffle depth	Run depth	0.56	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
	38	16	30	31	6	0	
Index					% Riffles	% Runs	% Pools
Comment:							

HABITAT CONDITIONS

Sediment deposition	18	Bank stability	7	9	C c n n e n t
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Embeddedness	19	Bank veg. protection	5	8	s
Channel shade	80%	Riparian buffer width	10	7	
Total Score	83	Integrity Rating	Optimal		

BIOLOGICAL CONDITIONS

Richness		Composition		Tolerance	
Total Taxa	11	% EPT Abundance	52%	Biotic Index	4.53
EPT Taxa	4	% Dominance	40%	% Tolerant	7%
				Stream Score	32
Other aquatic organisms observed or collected, or additional comments:				Integrity rating	Marginal

Discharge (cfs)	3 cfs	from USGS gage				
Current/past weather conditions:	today hot and clear. Last 3 days - 6/25 clear, 6/26 clear, 6/27 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 ¼ 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	2	w	Trash dumps			
Sub-urban developments	2	w	Intensive feedlots			
Urban areas			Pastureland	1	w	
Industrial areas	1	W	Cropland	1	w	
Parking lots, malls etc.			Oil & gas wells			
Bridges	3	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	1	w	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	2	1	L Hellgrammite/Fishfly		
L Flatheaded mayfly	5	1	Miscellaneous Insects		

WV SAVE OUR STREAMS LEVEL-TWO SURVEY SUMMARY

L	Spiny-crawler mayfly			M	Springtails		
M	Stout-crawler mayflies			M	Aquatic moths		
M	Burrowing mayflies			Diptera			
Plecoptera				H	Non-biting midges		
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 midges		
L	Winter stonefly			M	Dixid midges		
Trichoptera				H	Other true flies		
M	Common netspinner	43	1	Crustacea			
L	Net-spinning caddisflies	6	1	H	Aquatic sowbug		
L	Free-living caddisfly			M	Crayfish		
L	Case-building caddisflies			M	Scud/Sideswimmer		
Odonata				Mollusca			
M	Dragonflies	2	1	M	Operculate snails		
H	Damselflies			H	Non-operculate snails		
Coleoptera and Hemiptera				M	Clams		
M	Riffle beetle	32	1	L	Mussels		
L	Water penny	5	1	Annelida and Platyhelminthes			
M	Whirligig beetle			H	Aquatic worms	8	1
M	Long-toed beetle			H	Leeches		
H	Other beetles and True	1	1	H	Flatworms	3	1
Totals				Totals		108	11
				(L) Low (M) Moderate (H) High			
Other aquatic invertebrates:				0 1 2 3 4 5 6 7 8 9 10			

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