

Stream	Yellow Run			Level	3	Date(s)	20nov2012
Monitor(s)	Lehman,Oaks, Jones Swaim, Lucas and Dean						
Directions	Rt 522 and Rt 9 behind Sheetz Store				Start time		
				County	Morgan		
				RR Miles	Station	yellowruneast	
Latitude	37	26	Longitude	78	13	Watershed	Warm Spring
Database code							

**WATER CHEMISTRY**

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)			Alkalinity			Fecal coliform/E-coli		
pH			Nitrate/Nitrite			Iron		
Conductivity			Phosphates			Aluminum		
Dissolved O <sub>2</sub>			Total Dissolved Solids			Manganese		
Acidity			Turbidity			Other (describe below)		

Describe other conditions analyzed:

**PHYSICAL CONDITIONS**

Water	_____	Algae color	_____
Water color	_____	Algae abundance	_____
Water/Sedi	_____	Algae texture	_____
Streambed	_____	Surface foam	_____
Comments	_____		

Riffle width	Run width	Pool width		
Riffle depth	Run depth	Pool depth	Feet	Meters
Indicate units				

Estimate	Count			Entire reach		Riffles only	
Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock	Woody debris
<b>Index</b>					% Riffles	% Runs	% Pools
Woody debris adjustment							

**HABITAT CONDITIONS**

Attachment sites	Channel flow status	Embeddedness
Riffle frequency	Channel alterations	Bank veg. protection

Velocity/d  
epth

Sediment deposition

Bank stability

<b>Total Score</b> Integrity Rating Comments	Channel shade	Riparian buffer width

**BIOLOGICAL CONDITIONS**

Richness		Composition		Tolerance	
Total Taxa	7	% EPT Abundance	45	Biotic Index	4.05
EPT Taxa	3	% Dominance	30	% Tolerant	5
				<b>Stream Score</b>	<b>62.4</b>
Other aquatic organisms observed or collected (e.g. fish, salamanders etc.), or additional comments:				Integrity Rating	Marginal
Discharge (cfs)				Water level	Low   Normal   High   No flow
Current/past weather conditions:		Sunny 55 degrees			

**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			Trash dumps		
Sub-urban developments			Intensive feedlots		
Urban areas			Pastureland		
Industrial areas			Cropland		
Parking lots, malls etc.			Oil & gas wells		
Bridges			Logging		
Paved roads			Mountaintop mining		
Unpaved roads			Abandoned mining		
Active construction			Deep mining		
Parks, trails etc			Quarries		
Other recreation			Other (describe)		
Landfills					

Comments: Pipes?      Yes      No

**BENTHIC MACROINVERTEBRATES:** Record the total number of each macroinvertebrate collected. Note: In the VAD the macroinvertebrates are recorded in three columns based upon their tolerance rating.

WV SAVE OUR STREAMS ADVANCED SURVEY SUMMARY

Low	Total	Moderate	Total	High	Total
Ameletidae (Ameletid minnow mayfly)		Baetidae (Small minnow mayfly)		Coenagrionidae (Narrow-wing damselfly)	
Ephemereillidae (Spiny-crawler mayfly)		Beatiscidae (Armored mayfly)		Lestidae (Spread-wing damselfly)	
Heptaeniidae (Flatheaded mayfly)		Caenidae (Square-gilled mayfly)		Libellulidae (Skimmer dragonfly)	
Isonychiidae (Brush-legged mayfly)		Ephemeridae (Burrowing mayfly)		Chrysomelidae (Reed beetle)	
Leptophlebiidae (Prong-gilled mayfly)		Potamanthidae (Hackle-gilled mayfly)		Dytiscidae (Predacious diving beetle)	
Siphonuridae (Primitive minnow mayfly)		Tricorythidae (Stout-crawler mayfly)		Halilidae (Crawling water beetle)	
Canniidae (Small winter stonefly)	1	Hydropsychidae (Common netspinner)	2	Hydrophilidae (Water scavenger beetle)	
Chloroperlidae (Green stonefly)		Hydroptilidae (Purse-case caddisfly)		Belostomatidae (Giant water bug)	
Leuctridae (Rolled-wing stonefly)		Molannidae (Hooded-case caddisfly)		Corixidae (Water boatman)	
Nemouridae (Little brown stonefly)		Phryganeidae (Giant-case caddisfly)		Gerridae/Veliidae (Water striders)	
Perlidae (Common stonefly)		Polychaetopodidae (Tube-net caddisfly)		Hydrometridae (Water measurer)	
Perlodidae (Patterned stonefly)		Psychomyiidae (Trumpet-net caddisfly)		Nepidae (Water scorpion)	
Peltoperlidae (Roach-like stonefly)		Pvralidae (Aquatic moth)		Notonectidae (Backswimmer)	
Pteronarcyidae (Giant stonefly)		Calopterygidae (Broad-wing damselfly)		Ceratopogonidae (Biting midge)	
Taeniopterygidae (Large winter stonefly)		Gomphidae (Clubtail dragonfly)		Chironomidae (Non-biting midge)	
Brachycentridae (Humpless-case caddisfly)		Drvoipidae (Long-toed beetle)		Culicidae (Mosquito)	
Glossosomatidae (Saddle-case caddisfly)		Elmidae (Riffle beetle)		Muscidae (Muscid fly)	
Goeridae (Goerid-case caddisfly)		Gyrinidae (Whirligig beetle)		Psychodidae (Moth fly)	
Helicopsychidae (Snail-case caddisfly)		Sialidae (Alderfly)		Ptychopteridae (Phantom crane fly)	
Lepidostomatidae (Case-maker caddisfly)		Entomobryidae (Springtail)		Stratiomyidae (Soldier fly)	
Leptoceridae (Longhorn-case caddisfly)		Dixidae (Dixid midge)		Syrphidae (Rat-tailed maggot)	
Limnephilidae (Northern-case caddisfly)		Empididae (Dance fly)		Tabanidae (Horse fly)	
Philopotamidae (Finger-net caddisfly)	6	Simuliidae (Black fly)		Asellidae (Aquatic sowbug)	
Rhyacophilidae (Free-living caddisfly)		Tipulidae (Crane fly)	1	Ancylidae (Limpet snail)	
Uenoidae (Uenoid-case caddisfly)		Hvdrachnidae (Water mites)		Physidae (Left-handed snail)	
Aeshnidae (Darner dragonfly)		Cambaridae (Crawfish)		Planorbidae (Orb snail)	
Cordulegastridae (Spiketail dragonfly)		Gammaridae (Sideswimmer)	3	Hirudinea (Leech)	
Psephenidae (Water penny)	6	Palaemonidae (Freshwater shrimp)		Nematoda (Round worm)	
Corvalidae (Hellgrammite/Fishfly)		Bithyniidae (Bithynid snail)		Nematomorpha (Horsehair worm)	
Athericidae (Watersnipe fly)		Pleuroceridae (Rock snail)		Oligochaeta (Aquatic worm)	
Blephariceridae (Net-wing midge)		Viviparidae (Viviparid snail)		Turbellaria (Flatworms)	1
Hydrobiidae (Pebble snail)		Corbiculidae (Asian clam)		<b>Tolerance unknown</b>	
Unionidae (Mussel)		Sphaeriidae (Pea clam)		Hydrozoa (Freshwater jellyfish)	
				Neuroptera (Spongilliflies)	
				Spongia (Freshwater sponge)	