

Biological Monitoring Working Party (BMWP) Score Sheet					
Date	Watercourse	Site	NGR	Habitat	Flow
12.11.20	ALLENMIDGE BURN	D/S VILLAGE		RIFPLE	HIGH
Common Name	Family	BMWP Score	Present/score	Abundance	Abundance categories
Stoneflies	Pertidae	10			A: 0 - 9
	Chloroperlidae	10			B: 10 - 99
	Perlodidae	10			C: 100 - 999
	Capniidae	10			D: 1000 - 9999
	Leuctridae	10			E: >10000
	Taeniopterygidae	10			
	Nemouridae	7			
Mayflies	Heptageniidae	10	✓ 10	A	
	Leptophlebiidae	10			
	Ephemereidae	10			
	Pothamanthidae	10			
	Ephemeridae	10			
	Siphonuridae	10			
	Caenidae	7			
Caddisflies	Baetidae	4	✓ 4	A	
	Sericostomatidae	10	✓ 10	A	
	Brachycentridae	10			
	Lepidostomatidae	10	✓ 10	A	
	Goeridae	10			
	Leptoceridae	10			
	Odontoceridae	10			
	Beraeidae	10	✓ 10	A	
	Molannidae	10			
	Phryganeidae	10			
	Philopotamidae	10	✓ 10	A	
	Psychomyiidae	8			
	Polycentropidae	7	✓ 7	A	
	Rhyacophilidae	7			
	Limnephilidae	7			
	Hydroptilidae	6			
	Hydropsychidae	5	✓ 5	A	
	Glossosomatidae	5	✓ 5	A	
Crustaceans	Astacidae	8			
	Gammaridae	6	✓ 6	C	
	Corophiidae	6			
	Asellidae	3			
Limpets and Mussels	Ancylidae	6	✓ 6	A	
	Unionidae	6			
	Sphaeriidae	3			
Flatworms	Planariidae	5	✓ 5	C	
	Dendrocoelidae	5			
Snails	Neritidae	6			
	Viviparidae	6			
	Valvatidae	3			
	Hydrobiidae	3			
	Lymnaeidae	3			
	Physidae	3			
	Planorbidae	3			

SITE 1

Date	Watercourse	Site	NGR	Habitat	Flow
12.11.20	ARGUMIDAE BURN	B/S VILLAGE		RIFLE	HIGH
Common Name	Family	BMWP Score	Present/score	Abundance	Abundance categories
Leeches	Piscicolidae	4			
	Glossiphoniidae	3			
	Erpobdellidae	3			
	Hirudidae	3			
Beetles	Elmidae	5			
	Halplidae	5			
	Hygrobiidae	5			
	Dytiscidae	5			
	Gyrinidae	5			
	Hydrophilidae	5			
	Clambidae	5			
	Scirtidae	5			
	Dryopidae	5			
True flies	Tipulidae	5	✓	5	A
	Simuliidae	5	✓	5	A
	Chironomidae	2	✓	2	A
Worms	Oligochaeta	1	✓	1	A
Dragonflies	Gomphidae	8			
	Cordulegasteridae	8			
	Aeshnidae	8			
	Corduliidae	8			
	Libellulidae	8			
Damselflies	Calopterygidae	8			
	Lestidae	8			
	Coenagrionidae	6			
	Platycnemidae	6			
Bugs	Aphelocheiridae	10			
	Hydrometridae	5			
	Gerridae	5			
	Nepidae	5			
	Naucoridae	5			
	Notonectidae	5			
	Pleidae	5			
	Corixidae	5			
Alderflies	Sialidae	5			
		Total score	101		
		No. Taxa	16		
		ASPT	6.31		
		BMWP Scoring System		ASPT	
		BMWP Score	Category	Interpretation	
		0 - 10	Very Poor	Heavily polluted	0 - grossly polluted
		11 - 40	Poor	Polluted or impacted	
		41 - 70	Moderate	Moderately impacted	
		71 - 100	Good	Clean but slightly impacted	
		>100	Very good	Unpolluted, unimpaired	> 6 - unpolluted ✓

REMARKABLY DIVERSE
AND ABUNDANT
INVERTEBRATE FAUNA
UNUSUAL COMBINATION OF
CADDISFLY SPECIES AND
HIGH ABUNDANCE OF
FLATWORMS,
INDICATES VERY GOOD
WATER QUALITY WITH
NO SIGNS OF POLLUTION.

SITE 2

Biological Monitoring Working Party (BMWP) Score Sheet					
Date	Watercourse	Site	NGR	Habitat	Flow
12.11.20	GILN MIDG BURN	50m D/S BUSH BIT BRIDGE		CANALISED RUN/RIFLE	HIGH
Common Name	Family	BMWP Score	Present/score	Abundance	Abundance categories
Stoneflies	Perlidae	10			A: 0 - 9
	Chloroperlidae	10			B: 10 - 99
	Perlodidae	10			C: 100 - 999
	Capniidae	10			D: 1000 - 9999
	Leuctridae	10			E: >10000
	Taeniopterygidae	10			
	Nemouridae	7			
Mayflies	Heptageniidae	10			
	Leptophlebiidae	10			
	Ephemereiliidae	10			
	Pothamanthidae	10			
	Ephemeridae	10			
	Siphonuridae	10			
	Caenidae	7			
Caddisflies	Baetidae	4			
	Sericostomatidae	10			
	Brachycentridae	10			
	Lepidostomatidae	10			
	Goeridae	10			
	Leptoceridae	10			
	Odontoceridae	10			
	Beraeidae	10			
	Molannidae	10			
	Phryganeidae	10			
	Philopotamidae	10			
	Psychomyiidae	8			
	Polycentropidae	7			
	Rhyacophilidae	7	✓ 7	A	
	Limnephilidae	7			
	Hydroptilidae	6			
	Hydropsychidae	5	✓ 5	A	
	Glossosomatidae	5			
Crustaceans	Astacidae	8			
	Gammaridae	6	✓ 6	A	
	Corophiidae	6			
	Asellidae	3	✓ 3	A	
Limpets and Mussels	Ancylidae	6			
	Unionidae	6			
	Sphaeriidae	3			
Flatworms	Planariidae	5	✓ 5	A	
	Dendrocoelidae	5			
Snails	Neritidae	6			
	Viviparidae	6			
	Valvatidae	3			
	Hydrobiidae	3			
	Lymnaeidae	3			
	Physidae	3			
	Planorbidae	3			

SITE 2

Date	Watercourse	Site	NGR	Habitat	Flow
12.11.20	GLANMIDGE CURN	50M D/S BUSY BT BRIDGE		CANALISED RUN/RIFLE	HIGH
Common Name	Family	BMWP Score	Present/score	Abundance	Abundance categories
Leeches	Pisicolidae	4			
	Glossiphoniidae	3			
	Erpobdellidae	3			
	Hirudidae	3			
Beetles	Elmidae	5	✓ 5	A	
	Halplidae	5			
	Hygrobiidae	5			
	Dytiscidae	5			
	Gyrinidae	5			
	Hydrophilidae	5			
	Clambidae	5			
	Scirtidae	5			
	Dryopidae	5			
	Tipulidae	5			
	Simuliidae	5	✓ 5	C	
	Chironomidae	2	✓ 2	C	
	Oligochaeta	1	✓ 1	C	
Worms					
Dragonflies	Gomphidae	8			
	Cordulegasteridae	8			
	Aeshnidae	8			
	Corduliidae	8			
	Libellulidae	8			
Damselflies	Caloptergidae	8			
	Lestidae	8			
	Coenagruidae	6			
	Platycnemidae	6			
Bugs	Aphelocheiridae	10			
	Hydrometridae	5			
	Gerridae	5			
	Nepidae	5			
	Naucoridae	5			
	Notonectidae	5			
	Pleidae	5			
	Corixidae	5			
Alderflies	Sialidae	5			
		Total score	39		
		No. Taxa	9		
		ASPT	4.33		
BMWP Scoring System				ASPT	
BMWP Score		Category	Interpretation		
0 - 10		Very Poor	Heavily polluted	0 - grossly polluted	
11 - 40		Poor	Polluted or impacted	✓	
41 - 70		Moderate	Moderately impacted		
71 - 100		Good	Clean but slightly impacted		
>100		Very good	Unpolluted, unimpaired	> 6 - unpolluted	

HEAVY GROWTH OF
FONTINALIS ANTIPYRETICA
- PREFERS FAST FLOWING,
WELL OXYGENATED
WATER. USUALLY INDICATES
GOOD WATER QUALITY.

BUT
EMPTY CASES OF SEVERAL
TYPES OF CADDIS LARVAE
SHOW THAT INVERTEBRATES
REQUIRING CLEAN WATER
CONDITIONS (UNPOLLUTED &
WELL OXYGENATED) HAD
RECENTLY LIVED HERE BUT

A RECENT (C. FEW MONTHS) POLLUTION EVENT
HAD KILLED THEM LEAVING EMPTY SHELLS
+ ALLOWING HIGHER NUMBERS OF INVERTEBRATES
TOLERANT OF POORER WATER QUALITY.