

## APPENDIX 10.3: FRESHWATER INVERTEBRATE RESULTS

<b>Table 10.3.1: Freshwater Invertebrate Results</b>							
<b>Taxon name</b>	<b>BMWP Score</b>	<b>Site 1</b>	<b>Site 2</b>	<b>Site 3</b>	<b>Site 4</b>	<b>Site 5</b>	<b>Site 6</b>
<i>Planariidae #</i>	5						
<i>Planariidae #</i>	5						
<i>Dugesiiidae</i>							
<i>Dendrocoelidae</i>	5					1	1
<i>Nematomorpha</i>							
<i>Gordioidea</i>							
<i>Nematodes</i>		1	1	2		1	
<i>Hydrobiidae</i>	3						
<i>Hydrobiidae #</i>	3						
<i>Physidae</i>	3						
<i>Lymnaeidae</i>	3						
<i>Planorbidae</i>	3						
<i>Ancylidae</i>	6						
<i>Ancylidae #</i>	6						
<i>Sphaeriidae</i>	3						
<i>Oligochaeta</i>	1						
<i>Glossiphoniidae</i>	3						
<i>Erpobdellidae</i>	3	1					
<i>Hydracarina</i>							
<i>Mites</i>							
<i>Asellidae</i>	3						
<i>Gammaridae</i>	6						
<i>Gammaridae #</i>	6	3		2	12	5	
<i>Collembola</i>							
<i>Baetidae</i>	4						
<i>Heptageniidae</i>	10				3	3	
<i>Leptophlebiidae</i>	10						
<i>Ephemerellidae</i>	10						
<i>Caenidae</i>	7						
<i>Taeniopterygidae</i>	10						
<i>Nemouridae</i>	7						
<i>Leuctridae</i>	10						
<i>Perlodidae</i>	10						
<i>Perlidae</i>	10						
<b>Taxon name</b>	<b>BMWP Score</b>	<b>Site 1</b>	<b>Site 2</b>	<b>Site 3</b>	<b>Site 4</b>	<b>Site 5</b>	<b>Site 6</b>

<i>Chloroperlidae</i>	10	2		1			
<i>Haliplidae</i>	5						
<i>Dytiscidae</i>	5						
<i>Dytiscidae #</i>	5						
<i>Gyrinidae</i>	5						
<i>Hydrophilidae #</i>	5						
<i>Hydraenidae</i>							
<i>Scirtidae</i>	5						
<i>Elmidae</i>	5						
<i>Sialidae</i>	4						
<i>Rhyacophilidae #</i>	7	1	1				
<i>Glossosomatidae</i>					1		
<i>Hydroptilidae</i>	6						
<i>Philopotamidae</i>	8						
<i>Psychomyiidae</i>	8						
<i>Psychomyiidae #</i>	8						
<i>Polycentropodidae</i>	7						
<i>Hydropsychidae</i>	5				11		1
<i>Brachycentridae</i>	10						
<i>Lepidostomatidae</i>	10						
<i>Limnephilidae</i>	7			1			
<i>Goeridae</i>	10						
<i>Beraeidae</i>	10						
<i>Sericostomatidae</i>	10						
<i>Odontoceridae</i>	10						
<i>Leptoceridae</i>	10						
<i>Tipulidae</i>	5						
<i>Limoniidae</i>							
<i>Pediciidae</i>							
<i>Psychodidae</i>							
<i>Ceratopogonidae</i>							
<i>Simuliidae</i>	5						
<i>Chironomidae</i>	2						
<i>Athericidae</i>							
<i>Rhagionidae</i>							
<i>Empididae</i>							
<i>Muscidae</i>							

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<b>BMWP Score</b>	26	7	23	21	21	15
<b>ASPT</b>	6.5	7	7.66667	7	7	7.5
<b>No of Scoring Taxa</b>	4	1	3	3	3	2
<b>PSI (%)</b>	100	100	100	100	60	50

- 1.1.1 As shown in Table 10.3.1, the Biological Monitoring Working Party (BMWP) scores suggest that the water quality of the watercourses is moderate or poor for all sampling sites.
- 1.1.2 Even though the BMWP score is considered to be a good indicator of water quality, other indicators are considered to be more reliable for evaluating the results of invertebrate sampling. One of these indicators is the Average Score Per Taxon (ASPT), which is considered to be much more reliable than the BMWP scores. In this case, ASPT results indicate that the water quality at all six sites is very good.
- 1.1.3 Furthermore, Percentage Silt Intolerance (PSI) calculations show that out of these six sites, only two are marked as sedimented, with the other four achieving high scores, which suggest that they are not affected by any presence of silt.

