

Appendix 9.11
Aquatic Invertebrates Species Recorded
During Field Survey

Maximum count of aquatic invertebrate species recorded in Western Side (Sandy Ridge) of Assessment Area during field surveys for this Study

Species	Conservation Status (Fellowes <i>et al.</i> 2002, IUCN 2013) ¹	Stream							
		1	2	7	13	14	15	16	19
Gastropoda									
<i>Melanoides tuberculata</i>				3	15		19	4	25
<i>Physella acuta</i>									10
<i>Radix plicatulus</i>				1		21			
<i>Sinotaia quadrata</i>				1	15				
<i>Pomacea lineata</i>				1			10		20
Bivalvia									
<i>Corbicula fluminea</i>				10					
Crustacean									
<i>Somaniathelphusa zanklon</i>	GC; EN	10	1	55					1
<i>Macrobrachium hainanense</i>				15					
<i>Caridina cantonensis</i>				75	15		25		65
Odonata Larvae									
<i>Ceriagrion auranticum</i>		1							
<i>Copera marginipes</i>				2			3		5
<i>Idionyx victor</i>	LC	1							
<i>Orthetrum luzonicum</i>		1							
<i>Orthetrum triangulare</i>							1		
<i>Pantala flavescens</i>							1		
<i>Tramea virginia</i>		1							
<i>Trithemis aurora</i>							2		
<i>Trithemis festiva</i>				1					
<i>Urothemis signata</i>	LC	1							
Hemiptera									
<i>Ptilomera tigrina</i>							10		5
Diptera Larvae									
Tipulidae							1		
Total number of invertebrate species recorded		6	1	10	3	1	9	1	7

Note:

1. Conservation status by Fellowes *et al.* (2002): GC=Global Concern, LC=Local Concern. Conservation status by IUCN (2013): EN=Endangered.

Maximum count of freshwater aquatic invertebrate species recorded in Eastern Side (LMHR) of Assessment Area during field surveys for this Study

Species	Conservation Status ¹	Assessment Area	
		Watercourse	Marsh
Gastropoda			
<i>Melanoides tuberculata</i>	-	20	
<i>Physella acuta</i>	-	10	
<i>Radix plicatulus</i>	-	20	
<i>Pomacea lineata</i>	-	50	
Crustacean			
<i>Caridina cantonensis</i>	-	50	
<i>Somaniathelphusa zanklon</i>	GC,EN	3	
Odonata Larvae			
<i>Copera marginipes</i>	-	5	
<i>Trithemis aurora</i>	-	20	
<i>Orthetrum triangulare</i>	-	1	
<i>Orthetrum sp.</i>	-	20	
<i>Pantala flavescens</i>	-	1	
Fireflies			
<i>Aquatica leii</i>	-		1
Hemiptera			
<i>Ptilomera tigrina</i>	-	10	
Tipulidae			
<i>Neochauliodes boweringi</i>	-	1	
Total number of species recorded		12	1

Note:

1. Conservation status by Fellowes *et al.* (2002); GC=Global Concern. Those in parenthesis indicate that the assessment is on the basis of restrictedness in breeding and/or roosting rather than general occurrence. Conservation status by IUCN (2014): EN=Endangered.
2. *Orthetrum sp.* not included in final count

Maximum count of aquatic invertebrate species recorded in Western Side (Sandy Ridge) of Assessment Area during field surveys for this Study

Species	Conservation Status (Fellowes <i>et al.</i> 2002, IUCN 2013) ¹	Project Site Boundary			500m Assessment Area						
		Stream									
		1	2	7	13	14	15	16	19		
Gastropoda											
<i>Melanoides tuberculata</i>				3	15		19	4	25		
<i>Physella acuta</i>									10		
<i>Radix plicatulus</i>				1		21					
<i>Sinotaia quadrata</i>				1	15						
<i>Pomacea lineata</i>				1			10		20		
Bivalvia											
<i>Corbicula fluminea</i>				10							
Crustacean											
<i>Somaniathelphusa zanklon</i>	GC; EN	10	1	55					1		
<i>Macrobrachium hainanense</i>				15							
<i>Caridina cantonensis</i>				75	15		25		65		
Odonata Larvae											
<i>Ceriagrion auranticum</i>		1									
<i>Copera marginipes</i>				2			3		5		
<i>Idionyx victor</i>	LC	1									
<i>Orthetrum luzonicum</i>		1									
<i>Orthetrum triangulare</i>							1				
<i>Pantala flavescens</i>							1				
<i>Tramea virginia</i>		1									
<i>Trithemis aurora</i>							2				
<i>Trithemis festiva</i>				1							
<i>Urothemis signata</i>	LC	1									
Hemiptera											
<i>Ptilomera tigrina</i>							10		5		
Diptera Larvae											
Tipulidae							1				
Total number of invertebrate species recorded		6	1	10	3	1	9	1	7		

Note:

1. Conservation status by Fellowes *et al.* (2002): GC=Global Concern, LC=Local Concern. Conservation status by IUCN (2013): EN=Endangered.

Maximum count of freshwater aquatic invertebrate species recorded in Eastern Side (LMHR) of Assessment Area during field surveys for this Study

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		Watercourse	Marsh
Gastropoda			
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<i>Physella acuta</i>	-	10	
<i>Radix plicatulus</i>	-	20	
<i>Pomacea lineata</i>	-	50	
Crustacean			
<i>Caridina cantonensis</i>	-	50	
<i>Somanniathelphusa zanklon</i>	GC,EN	3	
Odonata Larvae			
<i>Copera marginipes</i>	-	5	
<i>Trithemis aurora</i>	-	20	
<i>Orthetrum triangulare</i>	-	1	
<i>Orthetrum sp.</i>	-	20	
<i>Pantala flavescens</i>	-	1	
Fireflies			
<i>Aquatica leii</i>	-		1
Hemiptera			
<i>Ptilomera tigrina</i>	-	10	
Tipulidae			
<i>Neochauliodes boweringi</i>	-	1	
Total number of species recorded		12	1

Note:

1. Conservation status by Fellowes *et al.* (2002); GC=Global Concern. Those in parenthesis indicate that the assessment is on the basis of restrictedness in breeding and/or roosting rather than general occurrence. Conservation status by IUCN (2014): EN=Endangered.
2. *Orthetrum sp.* not included in final count