

Appendix 10.4K: Freshwater Communities Species Recorded within the Northern Portion of the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong ⁽¹⁾	Level of Concern ⁽²⁾	China Red Data Book ⁽³⁾	Red List of China's Vertebrates ⁽⁴⁾	IUCN Red List (Version 2022.2) ⁽⁵⁾	Project Area				Assessment Area						Freshwater Sampling Location ⁽⁶⁾						
							MIT	PO	MWC	SNWC	MIT	PO	NWC	MWC	SNWC	DAL	FS1	FS2	FS3	FS4	FS7	FS10	
Crabs and Shrimps																							
-	<i>Somanniathelphusa zanklon</i>	Endemic	GC	-	-	Endangered			+				+								+		
Atyid Shrimp	<i>Caridina</i> sp.	-	-	-	-	-							+								+		
Dragonflies and Damselflies (Order Odonata)																							
Yellow Featherlegs (larvae)	<i>Copera marginipes</i>	Abundant; Widespread	-	-	-	Least Concern			+				+								+		
Freshwater Fishes																							
-	<i>Channa</i> sp.	-	-	-	-	-			++	+			+	++	+						+	+	
Goldfish	<i>Carassius auratus</i>	Not common in streams but occurs in many reservoirs and cultivated in fishponds	-	-	-	Least Concern	Least Concern	++				++											
Mosquito Fish	<i>Gambusia affinis</i>	Common. Introduced species.	-	-	-	Least Concern							++								++		
Nile Tilapia	<i>Oreochromis niloticus</i>	Common. Also cultivated.	-	-	-	Least Concern			+++				+++	+++	+++					+++	+++	+++	+
Redbelly Tilapia	<i>Tilapia zillii</i>	Common	-	-	-	Vulnerable														+			
Rose Bitterling	<i>Rhodeus ocellatus</i>	Rare (Lee et al., 2004), Uncommon (AFCD, 2019). Recorded from a few localities in New Territories and a reservoir in Sha Tin	LC	-	-	Least Concern	Data Deficient		++				++										
Snakehead Murrel	<i>Channa striata</i>	Uncommon in the wild. Introduced species. Records from a few streams in North District and on Lantau Is.	-	-	-	Least Concern	Least Concern						+										
Spotted Snakehead	<i>Channa maculata</i>	Uncommon in the wild. Records from a few streams in North District, Tuseen Mun and on Hong Kong and Lantau Is. Cultivated food fish	-	-	-	Least Concern	Least Concern			++				++									
Other Freshwater Fauna																							
-	<i>Ptilomera tigrina</i>	Very common	-	-	-	-			+				+								+		
Blood Worm	<i>Chironomidae</i> sp.	-	-	-	-	-			+++				+++									+++	
Flatworm	<i>Dugesidae</i> sp.	-	-	-	-	-			+				+									+	
Leech	<i>Unidentified</i> sp. 1	-	-	-	-	-			+				+								+	++	
Mayfly (larvae)	<i>Unidentified</i> sp. 1	-	-	-	-	-			+				++								+	++	
Mosquito (larvae)	<i>Unidentified</i> sp. 1	-	-	-	-	-			+				+								+	++	
Waterskater/Water strider	<i>Gerris</i> sp.	-	-	-	-	-							+								+		
Snails and Bivalves																							
-	<i>Corbicula fluminea</i>	Very common	-	-	-	Least Concern			++				++									++	
-	<i>Planorbidae</i> sp.	-	-	-	-	-			++				++									++	
Apple Snail	<i>Pomacea canaliculata</i>	Invasive species	-	-	-	Least Concern			+				++	+	++	+++	++	+	+	++			
Chinese Pond Mussel	<i>Sinanodonta woodiana</i>	-	-	-	-	Least Concern							++								++		
Large Stream Snail	<i>Sulcospira hainanensis</i>	Abundant and widespread; Very common	-	-	-	Least Concern			++				++									++	
Pond Snail	<i>Sinotaia quadrata</i>	Rare	-	-	-	Least Concern			++				++									++	
Tadpole Snail	<i>Haitia acuta</i>	-	-	-	-	Least Concern			+				+									+	
Total no. of species							1	1	17	1	1	1	8	17	3	2	1	2	3	7	6	11	

- Notes:**
(1) AFCD (2022). Hong Kong Biodiversity Database.
Dudgeon D. (2003). Hong Kong Field Guides: Hillstreams.
Lee, L. F., Lam, K. S., Ng, K. Y., Chan, K. T. and Young, L. C. (2004). Field Guide to the Freshwater Fish of Hong Kong. Friends of the Country Parks.
(2) Fellowes et al. (2002).
(3) Yue P. and Chen Y. (1998). China Red Data Book of Endangered Animals: Pisces. Science Press, Beijing.
(4) Jiang, Z.G., et al. (2016). Red List of China's Vertebrates.
(5) IUCN (2022). The IUCN Red List of Threatened Species. Version 2022.02.
(6) Refer to Figure 10.1 for locations of freshwater sampling locations.

Abbreviation for Habitats: MIT=Mitigation Wetland; MAR=Marsh / Reed; PO=Pond; NWC=Natural Watercourse; MWC=Modified Watercourse; SNWC=Semi-natural Watercourse; DAL=Dry Agricultural Land
Code for Abundance: +++++=Dominant; ++++=Abundant; +++=Frequent; ++=Occasional; +=Scarce
Species of conservation importance is in **bold** type face

Appendix 10.4L: Freshwater Communities Species Recorded within the Southern Portion of the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong ⁽¹⁾	Level of Concern ⁽²⁾	China Red Data Book ⁽³⁾	Red List of China's Vertebrates ⁽⁴⁾	IUCN Red List (Version 2022.2) ⁽⁵⁾	Project Area			Assessment Area			Freshwater Sampling Location ⁽⁶⁾			
							NWC	MWC	SNWC	NWC	MWC	SNWC	FS6	FS7	FS8	FS9
Dragonflies and Damselflies (Order Odonata)																
Indigo Dropwing (larvae)	<i>Trithemis festiva</i>	Abundant; Widespread	-	-	-	Least Concern	+			+					+	
Freshwater Fishes																
-	<i>Channa sp.</i>	-	-	-	-	-	+	+	+	+	+	+			+	
Chinese Barb	<i>Barbodes semifasciolatus</i>	Common. Widely distributed in most of local freshwater streams, rivers and reservoirs	-	-	Least Concern	Least Concern	++			++					+	
Dwarf Snakehead	<i>Channa gachua</i>	Introduced. Records from a few streams in North District	-	-	Least Concern	Least Concern	+			+					+	
Other Freshwater Fauna																
-	<i>Metrocoris sp.</i>	Very common	-	-	-	-	+			+					+	
-	<i>Ptilomera tigrina</i>	Very common	-	-	-	-	++			++					++	
-	<i>Rhagovelia sp.</i>	Common	-	-	-	-	++++			++++					++++	
Blood Worm	<i>Chironomidae sp.</i>	-	-	-	-	-		++			++	+	++		+	
Flatworm	<i>Dugesidae sp.</i>	-	-	-	-	-						+			+	
Mayfly (larvae)	<i>Unidentified sp. 1</i>	-	-	-	-	-	+			+		+		+	+	
Waterskater/Water strider	<i>Gerris sp.</i>	-	-	-	-	-	++			++					++	
Snails and Bivalves																
-	<i>Planorbidae sp.</i>	-	-	-	-	-	++++			++++				++++	+	
Apple Snail	<i>Pomacea canaliculata</i>	Invasive species	-	-	-	Least Concern	++	+		++	+		+	++	++	
Large Stream Snail	<i>Sulcospira hainanensis</i>	Abundant and widespread; Very common	-	-	-	Least Concern	++	++		++	++	+	++	++	+	
Total no. of species							12	4	1	12	4	5	3	3	12	5

- Notes:**
- (1) AFCD (2022). Hong Kong Biodiversity Database.
Dudgeon D. (2003). Hong Kong Field Guides: Hillstreams.
Lee, L. F., Lam, K. S., Ng, K. Y., Chan, K. T. and Young, L. C. (2004). Field Guide to the Freshwater Fish of Hong Kong. Friends of the Country Parks.
 - (2) Fellowes et al. (2002).
 - (3) Yue P. and Chen Y. (1998). China Red Data Book of Endangered Animals: Pisces. Science Press, Beijing.
 - (4) Jiang, Z.G., et al. (2016). Red List of China's Vertebrates.
 - (5) IUCN (2022). The IUCN Red List of Threatened Species. Version 2022.02.
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Species of conservation importance is in **bold** type face