

Appendix 10.3h: Aquatic Communities Fauna Recorded within the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)</sup>	Level of Concern <sup>(2)</sup>	Protection Status in China <sup>(3)</sup>	China Red Data Book <sup>(3)</sup>	Red List of China's Vertebrates <sup>(4)</sup>	IUCN Red List (Version 2022.2) <sup>(5)</sup>	FS1	FS2	FS3	FS4	FS5	FS6	FS7	FS8	FS9	FS10	FS11	FS12	FS13	FS14	FS15	FS16	FS17	FS18	FS19	FS20	FS21	FS22	FS23	FS24	
<b>Freshwater Fishes</b>																																
Nile Tilapia	<i>Oreochromis niloticus</i>	A widespread species occurring in most local streams, rivers and reservoirs. The fish is also cultivated in some fish farms	-	-	-	-	Least Concern							+++		+		+						+++	++	+++		+++		+		
-	<i>Channa</i> sp.		-	-	-	-	-							+	+	+							+		++					+		
-	<i>Rhinogobius duospilus</i>	Probably the commonest goby in Hong Kong and is widely distributed in upper and middle course of streams, sometimes occurs in lowland streams.	-	-	-	-	Data Deficient																							+		
Mosquito Fish	<i>Gambusia affinis</i>	Introduced as a mosquito-control agent, widespread in local freshwater bodies.	-	-	-	-	Least Concern							+	+	+++	+	++							+							
Redbelly Tilapia	<i>Tilapia zillii</i>	Records from streams, rivers and estuaries throughout Hong Kong	-	-	-	-	Least Concern							+	+	+									+							
Grey Mullet	<i>Mugil cephalus</i>	Common. Widespread in estuaries and marine environment in Hong Kong	-	-	-	-	Least Concern											+														
Dwarf Snakehead	<i>Channa gachua</i>	Records from a few streams in North District	-	-	-	-	Least Concern			++		+		+																		
Flat-headed Loach	<i>Oreonectes platycephalus</i>	It can be found in upper streams throughout Hong Kong	-	-	-	-	Least Concern																							+		
<b>Snails and Bivalves</b>																																
-	<i>Planorbidae</i> sp.		-	-	-	-	-							+		+				++		+		+								
-	<i>Thiaridae</i> sp.	Very common	-	-	-	-	-						+																			
Red-rimmed Melania	<i>Melanoides tuberculata</i>		-	-	-	-	Least Concern																									
Large Stream Snail	<i>Succinea hainanensis</i>	Abundant and widespread. Very common	-	-	-	-	Least Concern														+											
Apple Snail	<i>Pomacea canaliculata</i>	Invasive species	-	-	-	-	Least Concern	++																								
Tadpole Snail	<i>Halina acuta</i>		-	-	-	-	Least Concern			++	+	+++	+++	++	+++	++			+					+++	++	+		+				
<b>Crabs and Shrimps</b>																																
-	<i>Helice</i> sp.		-	-	-	-	-																									
-	<i>Macrobrachium</i> spp.		-	-	-	-	-																									
-	<i>Somanniathelphusa zanklion</i>	Endemic	GC	-	-	-	Endangered																									
Canton Bee Shrimp	<i>Caridina cantonensis</i>	Very common	-	-	-	-	Least Concern								+															+	++	
Longbeak Cardina Shrimp	<i>Caridina longirostris</i>		-	-	-	-	Least Concern																								+	
Stream Crab	<i>Cryptopotamon anacoluthon</i>	Common ; Endemic	PGC	-	-	-	Vulnerable																								+	
<b>Dragonflies and Damselflies (Order Odonata)</b>																																
Red-faced Skimmer (larvae)	<i>Orthetrum chrysis</i>	Abundant; Very Widespread	-	-	-	-	Least Concern							+											+							
Yellow Featherlegs (larvae)	<i>Copera marginipes</i>	Abundant; Widespread	-	-	-	-	Least Concern								+																	
<b>Mayflies (Order Ephemeroptera)</b>																																
Mayfly (larvae)	Unidentified sp. 1		-	-	-	-	-							+																		
Prong-gilled Mayfly	Unidentified sp. 1	Very common	-	-	-	-	-																									
Spiny Crawler Mayfly	Unidentified sp. 1	Common	-	-	-	-	-							+																		
<b>Other Freshwater Fauna</b>																																
Blood Worm	<i>Chironomus plumosus</i>	Abundant in polluted waters; Very common	-	-	-	-	-							+		++++	+	++++														
-	<i>Chironomidae</i> sp.		-	-	-	-	-									++	+															
Water Mite	<i>Hydrachnida</i> sp.		-	-	-	-	-																									
Backswimmer	Unidentified sp. 1	Very common	-	-	-	-	-																									
-	<i>Enithares</i> sp.	Very common	-	-	-	-	-																									
Flatworm	<i>Turbellaria</i> sp.		-	-	-	-	-																									
Leech	Unidentified sp. 1		-	-	-	-	-																									
-	<i>Hirudinea</i> sp.		-	-	-	-	-																									
Waterskater/Water strider	<i>Metrocoris</i> sp.	Very common	-	-	-	-	-																									
-	<i>Ptilomera tigrina</i>	Very common	-	-	-	-	-								+																	
Worm	<i>Oligochaeta</i> sp.		-	-	-	-	-																									
-	<i>Polychaeta</i> sp.		-	-	-	-	-																									
Caddisfly	<i>Anisocentropus maculatus</i>	Very common	-	-	-	-	-																									
<b>Total No. of Species Recorded</b>								<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>10</b>	<b>17</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>9</b>	<b>1</b>	<b>11</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>0</b>	

Notes:

(1) Agriculture, Fisheries and Conservation Department (AFCD) (2022). Hong Kong Biodiversity Information Hub.

Dudgeon, D. (2003). Hillstreams - Hong Kong Field Guides 2. The Department of Ecology and Biodiversity, The University of Hong Kong. Hong Kong: Wan Li Book Co., Ltd.

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.

Reels, G.T. (2019). An Annotated Check List of Hong Kong Dragonflies and Assessment of Their Local Conservation Significance.

(2) Followes, J.R., Lau, M.W.N., Dudgeon, D., Reels, G.T., Ades, G.W.J., Carey, G.J., Chan, B.P.L., Kendrick, R.C., Lee, K.S., Leven, M.R., Wilson, K.D.P. & Yu, Y.T. (2002). Wild Animals to Watch: Terrestrial and Freshwater Fauna of Conservation Concern in Hong Kong. *Memoirs of the Hong Kong Natural History Society* 25:123-159; LC=Local Concern; PRC=Potential Regional Concern; RC=Regional

(3) Yue, P.Q. & Chan, Y.Y. (1998). China Red Data Book of Endangered Animals, Pisces, First Edition. Beijing: Science Press.

(4) Jiang, Z.G., et al. (2016). Red List of China's Vertebrates. *Biodiversity Science* 24(5): 500-551.

(5) International Union for the Conservation of Nature (IUCN) (2022). IUCN Red List of Threatened Species. Version 2022.2.

(6) List of Wild Animals Under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).

Species of conservation importance is in bold type face.

Code of Abundance: +=Rare; +=Occasional; +++=Common; ++++=Abundant; +++++=Dominant