

Appendix 9.5a: Avifauna Species Recorded within the Assessment Area

Common Name <sup>(1)</sup>	Scientific Name	Distribution in Hong Kong <sup>(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	China Red Data Book <sup>(6)</sup>	Red List of China's Vertebrates <sup>(7)</sup>	IUCN Red List (Version 2020.3) <sup>(8)</sup>	Habitats									
								Project Site		Within 500 m Assessment Area							
								MWC	DA	MWC	WL	PL	SL	VO	NWC	DA	
Crested Myna	<i>Acridotheres cristatellus</i>	Common resident	-	-	-	Least Concern	Least Concern	+	+		+						+
Common Sandpiper <sup>(9)</sup>	<i>Actitis hypoleucos</i>	Common passage migrant and winter visitor	-	-	-	Least Concern	Least Concern	+		+							
Fork-tailed Sunbird	<i>Aethopyga christinae</i>	Common resident	-	-	-	Least Concern	Least Concern				+						
Common Kingfisher <sup>(9)</sup>	<i>Alcedo atthis</i>	Common passage migrant and winter visitor	-	-	-	Least Concern	Least Concern			+							
House Swift	<i>Apus nipalensis</i>	Abundant spring migrant and locally common resident	-	-	-	Least Concern	Least Concern				+	+					
Great Egret <sup>(9)</sup>	<i>Ardea alba</i>	Common resident and winter visitor	PRC (RC)	-	-	Least Concern	Least Concern	+	++								+
Chinese Pond Heron <sup>(9)</sup>	<i>Ardeola bacchus</i>	Common resident	PRC (RC)	-	-	Least Concern	Least Concern	+	+	+							
Greater Coucal	<i>Centropus sinensis</i>	Common resident	-	Class II	Vulnerable	Least Concern	Least Concern				+						
Common Emerald Dove	<i>Chalcophaps indica</i>	Scarce but widespread resident	-	-	Vulnerable	Least Concern	Least Concern				+						
Domestic Pigeon	<i>Columba livia</i>	Common resident	-	-	-	Least Concern	Least Concern	+	+								+
Oriental Magpie Robin	<i>Copsychus saularis</i>	Abundant resident	-	-	-	Least Concern	Least Concern	+	++	+	+	+				+	++
Large-billed Crow	<i>Corvus macrorhynchos</i>	Common resident	-	-	-	Least Concern	Least Concern				+						+
Collared Crow <sup>(9)</sup>	<i>Corvus torquatus</i>	Uncommon resident	LC	-	-	Near Threatened	Vulnerable			+							
Scarlet-backed Flowerpecker	<i>Dicaeum cruentatum</i>	Common resident	-	-	-	Least Concern	Least Concern				+						+
Little Egret <sup>(9)</sup>	<i>Egretta garzetta</i>	Common resident	PRC (RC)	-	-	Least Concern	Least Concern	++	+	++							+
Asian Koel	<i>Eudynamis scolopaceus</i>	Common resident	-	-	-	Least Concern	Least Concern				+	+					+
Chinese Hwamei <sup>(2)</sup>	<i>Garrulax canorus</i>	Common resident	-	-	-	Near Threatened	Least Concern				+						
Black-throated Laughingthrush	<i>Garrulax chinensis</i>	Common resident	-	-	-	Least Concern	Least Concern				+					+	
Greater Necklaced Laughingthrush	<i>Garrulax pectoralis</i>	Common resident	-	-	-	Least Concern	Least Concern		+								
Masked Laughingthrush	<i>Garrulax perspicillatus</i>	Abundant resident	-	-	-	Least Concern	Least Concern		+		++					+	+
Black-collared Starling	<i>Gracupica nigricollis</i>	Common resident	-	-	-	Least Concern	Least Concern	+	++			+					++
Barn Swallow	<i>Hirundo rustica</i>	Abundant passage migrant and summer visitor	-	-	-	Least Concern	Least Concern	+				+					+
Long-tailed Shrike	<i>Lanius schach</i>	Common resident	-	-	-	Least Concern	Least Concern					+					
Silver-eared Leiothrix <sup>(2)</sup>	<i>Leiothrix argentea</i>	Common resident	-	-	-	Near Threatened	Least Concern				+						
Red-billed Leiothrix <sup>(2)</sup>	<i>Leiothrix lutea</i>	Uncommon resident	-	-	-	Least Concern	Least Concern				+						
White-rumped Munia	<i>Lonchura striata</i>	Common resident	-	-	-	Least Concern	Least Concern	+									
Black Kite <sup>(2)(9)</sup>	<i>Milvus migrans</i>	Common resident and winter visitor	(RC)	Class II	-	Least Concern	Least Concern				+						
White Wagtail	<i>Motacilla alba</i>	Common passage migrant and winter visitor	-	-	-	Least Concern	Least Concern	+++			+	+					
Grey Wagtail	<i>Motacilla cinerea</i>	Common passage migrant and winter visitor	-	-	-	Least Concern	Least Concern	+				+					
Blue Whistling Thrush	<i>Myophonus caeruleus</i>	Common resident	-	-	-	Least Concern	Least Concern	+			+					+	
Black-crowned Night Heron <sup>(9)</sup>	<i>Nycticorax nycticorax</i>	Common resident and winter visitor	(LC)	-	-	Least Concern	Least Concern	++									
Common Tailorbird	<i>Orthotomus sutorius</i>	Common resident	-	-	-	Least Concern	Least Concern	+	+		++	+				+	++
Collared Scops Owl <sup>(2)</sup>	<i>Otus lettia</i>	Common resident	-	Class II	-	Least Concern	Least Concern				+						

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								Project Site		Within 500 m Assessment Area								
								MWC	DA	MWC	WL	PL	SL	VO	NWC	DA		
Cinereous Tit	<i>Parus cinereus</i>	Common resident	-	-	-	Least Concern	-				++	+					+	
Eurasian Tree Sparrow	<i>Passer montanus</i>	Abundant resident	-	-	-	Least Concern	Least Concern	++++	++++		++	+++					+	+++
Scarlet Minivet	<i>Pericrocotus speciosus</i>	Common resident	-	-	-	Least Concern	-				+							
Daurian Redstart	<i>Phoenicurus aureus</i>	Common winter visitor	-	-	-	Least Concern	Least Concern				+							
Mountain Tailorbird	<i>Phyllergates cucullatus</i>	Uncommon resident	-	-	-	Least Concern	Least Concern				+							
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	Common winter visitor and spring migrant	-	-	-	Least Concern	Least Concern				+	+						
Oriental Magpie	<i>Pica serica</i>	Common resident	-	-	-	Least Concern	-		+		+	+						+
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	Abundant resident	-	-	-	Least Concern	Least Concern	+	++		++	++						++
Chinese Bulbul	<i>Pycnonotus sinensis</i>	Abundant resident	-	-	-	Least Concern	Least Concern		+		++	++					+	++
Spotted Dove	<i>Spilopelia chinensis</i>	Abundant resident	-	-	-	Least Concern	Least Concern	++	+		+	++					+	++
<b>Crested Serpent Eagle<sup>(2)</sup></b>	<b><i>Spilornis cheela</i></b>	Uncommon resident	(LC)	Class II	Vulnerable	Near Threatened	Least Concern				+							
<b>Rufous-capped Babbler</b>	<b><i>Stachyridopsis ruficeps</i></b>	Common resident	LC	-	-	Least Concern	Least Concern				+							
Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>	Common resident. Widely distributed in woodland edges throughout Hong Kong	-	-	-	Least Concern	Least Concern				+	+						+
Japanese White-eye	<i>Zosterops japonicus</i>	Abundant resident	-	-	-	Least Concern	Least Concern		+		++	++					+	++

Notes:

(1) All wild birds are protected under the Wild Animals Protection Ordinance (Cap. 170).

(2) Protected under the Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586).

(3) Agriculture, Fisheries and Conservation Department (AFCD) (2020). Hong Kong Biodiversity Database.

(4) Fellowes, 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 Concern; PGC=Potential Global Concern; GC=Global Concern.

Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.

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

(6) Zheng, G.-M. & Wang, Q.-S. (1998). China Red Data Book of Endangered Animals: Aves. First Edition. Beijing: Science Press.

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

(8) International Union for the Conservation of Nature (IUCN) (2020). IUCN Red List of Threatened Species. Version 2020-3.

(9) Wetland-dependent species (including wetland-dependent species and waterbirds).

Habitat Type: **WL**: Woodland; **PL**: Plantation; **SL**: Shrubland; **VO**: Village/Orchard; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **DA**: Developed Area.

Code for Abundance: ++++ = abundant; +++ = frequent; ++ = occasional; + = scarce

Species of conservation importance is in **bold** type face.

Appendix 9.5b: Butterfly Species Recorded within the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong <sup>(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	IUCN Red List (Version 2020.3) <sup>(6)</sup>	Habitats								
						Project Site		Within 500 m Assessment Area						
						MWC	DA	MWC	WL	PL	SL	VO	NWC	DA
Water Snow Flat	<i>Tagiades litigiosus litigiosus</i>	Common	-	-	-				+					
Common Bluebottle	<i>Graphium sarpedon sarpedon</i>	Very common	-	-	-				+				+	
Tailed Jay	<i>Graphium agamemnon agamemnon</i>	Common	-	-	-				+					
Five-bar Swordtail	<i>Pathysa antiphates antiphates</i>	Common	-	-	-									+
Common Mime	<i>Chilasa clytia clytia</i>	Common	-	-	-				+					
Lime Butterfly	<i>Papilio demoleus demoleus</i>	Common	-	-	-									+
Red Helen	<i>Papilio helenus helenus</i>	Very common	-	-	-					+				+
Common Mormon	<i>Papilio polytes polytes</i>	Very common	-	-	-				+					+
Great Mormon	<i>Papilio memnon agenor</i>	Very common	-	-	-				+				+	+
Spangle	<i>Papilio protenor protenor</i>	Very common	-	-	-				+				+	+
Painted Jezebel	<i>Delias hyparete hierte</i>	Uncommon	-	-	-									+
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	Very common	-	-	-				+					+
Indian Cabbage White	<i>Pieris canidia canidia</i>	Very common	-	-	-		+						+	+
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	Common	-	-	-				+					+
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	Very common	-	-	-				+				+	
-	<i>Eurema spp.</i>	-	-	-	-				++				+	+
Long-banded Silverline	<i>Spindasis lohita formosana</i>	Common	-	-	-				+					
Purple Sapphire	<i>Heliophorus epicles phoenicoparyphus</i>	Common	-	-	-		+							
Transparent 6-line Blue	<i>Nacaduba kurava euplea</i>	Common	-	-	-				+					
Long-tailed Blue	<i>Lampides boeticus</i>	Common	-	-	-									+
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	Very common	-	-	-			+						++
Dark Grass Blue	<i>Zizeeria karsandra karsandra</i>	Uncommon	-	-	-			+						
Common Hedge Blue	<i>Acytolepis puspa gisca</i>	Common	-	-	-									+
Plum Judy	<i>Abisara echerius echerius</i>	Very common	-	-	-		+			+			+	
Dark Evening Brown	<i>Melanitis phedima muskata</i>	Uncommon	-	-	-				+					
Banded Tree Brown	<i>Lethe confusa confusa</i>	Common	-	-	-				+					
Common Palmfly	<i>Elymnias hypermnestra haihana</i>	Common	-	-	-				+					
Dark Brand Bush Brown	<i>Mycalesis mineus mineus</i>	Very common	-	-	-				+	+				
South China Bush Brown	<i>Mycalesis zonata</i>	Common	-	-	-				+	+				
Common Five-ring	<i>Ypthima baldus baldus</i>	Very common	-	-	-				+					
Large Faun	<i>Faunis eumeus eumeus</i>	Common	-	-	-								+	
Rustic	<i>Cupha erymanthis erymanthis</i>	Very common	-	-	-				+					+
Chocolate Pansy	<i>Junonia iphita iphita</i>	Common	-	-	-				+					
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	Common	-	-	-								+	
Common Sailer	<i>Neptis hylas hylas</i>	Very common	-	-	-								+	
Short-banded Sailer	<i>Phaedyma columella columella</i>	Common	-	-	-				+				+	
Common Lascar	<i>Pantoporia hordonia</i>	Uncommon	-	-	-								+	
Colour Sergeant	<i>Athyma nefte seitzi</i>	Common	-	-	-				+					

Appendix 9.5b: Butterfly Species Recorded within the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong <sup>(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	IUCN Red List (Version 2020.3) <sup>(6)</sup>	Habitats								
						Project Site		Within 500 m Assessment Area						
						MWC	DA	MWC	WL	PL	SL	VO	NWC	DA
White-edged Blue Baron	<i>Euthalia phemius seitzi</i>	Common	-	-	-					+				
Common Mapwing	<i>Cyrestis thyodamas chinensis</i>	Common	-	-	-				+					
Black Prince	<i>Rohana parisatis staurakius</i>	Common	-	-	-								+	
Glassy Tiger	<i>Parantica aglea melanoides</i>	Common	-	-	-				+					
Ceylon Blue Glassy Tiger	<i>Ideopsis similis similis</i>	Very common	-	-	-				+					+
Blue Tiger	<i>Tirumala limniace limniace</i>	Common	-	-	-				+	+				+
Blue-spotted Crow	<i>Euploea midamus midamus</i>	Very common	-	-	-				+				+	
Common Indian Crow	<i>Euploea core amymone</i>	Common	-	-	-				+					

Notes:

(1) Protected under Wild Animals Protection Ordinance (Cap. 170).

(2) Protected under Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586).

(3) Agriculture, Fisheries and Conservation Department (AFCD) (2020). Hong Kong Biodiversity Database.

(4) Fellowes, 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 Concern; PGC=Potential Global Concern; GC=Global Concern.

*Memoirs of the Hong Kong Natural History Society* 25:123-159; LC=Local Concern; PRC=Potential Regional Concern; RC=Regional Concern; PGC=Potential Global Concern; GC=Global Concern.

Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.

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

(6) International Union for the Conservation of Nature (IUCN) (2020). IUCN Red List of Threatened Species. Version 2020-3.

Habitat Type: **WL**: Woodland; **PL**: Plantation; **SL**: Shrubland; **VO**: Village/Orchard; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **DA**: Developed Area.

Code for Abundance: ++++ = abundant; +++ = frequent; ++ = occasional; + = scarce

Species of conservation importance is in **bold** type face.

Appendix 9.5c: Odonate Species 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>	IUCN Red List (Version 2020.3) <sup>(4)</sup>	Habitats								
						Project Site		Within 500 m Assessment Area						
						MWC	DA	MWC	WL	PL	SL	VO	NWC	DA
<b>Damselfly</b>														
Common Blue Jewel	<i>Rhinocypha perforata</i>	Abundant; Very Widespread	-	-	Least Concern								+	
Black-banded Gossamerwing	<i>Euphaea decorata</i>	Abundant; Very Widespread	-	-	Least Concern	+							++	
<b>Chinese Yellowface</b>	<b><i>Agriomorpha fusca</i></b>	Abundant; Scattered	LC	-	Least Concern								+	
Black Threadtail	<i>Prodasineura autumnalis</i>	Abundant; Widespread	-	-	Least Concern								+	
<b>Dragonfly</b>														
Common Shadow-emerald	<i>Macromidia rapida</i>	Common; Scattered	-	-	Least Concern								+	
Russet Percher	<i>Neurothemis fulvia</i>	Common; Widespread	-	-	Least Concern								+	
Red-faced Skimmer	<i>Orthetrum chrysis</i>	Abundant; Very Widespread	-	-	Least Concern								+	
Common Blue Skimmer	<i>Orthetrum glaucum</i>	Abundant; Very Widespread	-	-	Least Concern								+	+
Marsh Skimmer	<i>Orthetrum luzonicum</i>	Abundant; Widespread	-	-	Least Concern									+
Wandering Glider	<i>Pantala flavescens</i>	Abundant; Widespread	-	-	Least Concern	+							+	++
Crimson Dropwing	<i>Trithemis aurora</i>	Abundant; Very Widespread	-	-	Least Concern	+							++	+
Indigo Dropwing	<i>Trithemis festiva</i>	Abundant; Widespread	-	-	Least Concern								+	+

- Notes:
- (1) Agriculture, Fisheries and Conservation Department (AFCD) (2020). Hong Kong Biodiversity Database.
- Reels, G.T. (2019). An Annotated Check List of Hong Kong Dragonflies and Assessment of Their Local Conservation Significance. Faunistic Studies in South-east Asian and Pacific Island Odonata. *Journal of the International Dragonfly Fund* **30**:1-49.
- (2) Fellowes, 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 Concern; PGC=Potential Global Concern; GC=Global Concern.
- Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.
- (3) List of Wild Animals Under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).
- (4) International Union for the Conservation of Nature (IUCN) (2020). IUCN Red List of Threatened Species. Version 2020-3.

Habitat Type: **WL**: Woodland; **PL**: Plantation; **SL**: Shrubland; **VO**: Village/Orchard; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **DA**: Developed Area.  
Code for Abundance: ++++ = abundant; +++ = frequent; ++ = occasional; + = scarce  
Species of conservation importance is in **bold** type face.

**Appendix 9.5d: Herpetofauna Species Recorded within the Assessment Area**

Common Name	Scientific Name	Distribution in Hong Kong <sup>(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	China Red Data Book <sup>(6)</sup>	Red List of China's Vertebrates <sup>(7)</sup>	IUCN Red List (Version 2020.3) <sup>(8)</sup>	Habitats								
								Project Site		Within 500 m Assessment Area						
								MWC	DA	MWC	WL	PL	SL	VO	NWC	DA
<b>Reptiles</b>																
Red-eared Slider	<i>Trachemys scripta elegans</i>	Widely distributed and commonly found in reservoirs or ponds in urban parks	-	-	-	-	Least Concern	+								
Chinese Gecko	<i>Gekko chinensis</i>	Widely distributed throughout Hong Kong	-	-	-	Least Concern	Least Concern				+					+
Garnot's Gecko	<i>Hemidactylus garnotii</i>	Distributed in Lantau Island, Hong Kong Island and Eastern New Territories	-	-	-	Least Concern	-				+					
Changeable Lizard	<i>Calotes versicolor</i>	Widely distributed throughout Hong Kong	-	-	-	Least Concern	-				+					+
<b>Chinese Water Dragon</b>	<b><i>Physignathus cocincinus</i></b>	-	-	-	-	-	Vulnerable									+
<b>Brown Forest Skink</b>	<b><i>Sphenomorphus incognitus</i></b>	Distributed in streams in New Territories	-	-	-	Near Threatened	Least Concern				+					+
<b>Chinese Cobra<sup>(2)</sup></b>	<b><i>Naja atra</i></b>	Widely distributed	PRC	-	Vulnerable	Vulnerable	Vulnerable				+					
<b>Amphibian</b>																
Asian Common Toad	<i>Duttaphrynus melanostictus</i>	Widely distributed	-	-	-	-	Least Concern				+					+
Asiatic Painted Frog	<i>Kaloula pulchra pulchra</i>	Widely distributed	-	-	-	-	Least Concern				+					
Paddy Frog	<i>Fejervarya limnocharis</i>	Widely distributed	-	-	-	-	Least Concern	+								+
<b>Lesser Spiny Frog</b>	<b><i>Quasipaa exilispinosa</i></b>	Occurs throughout territory	PGC	-	-	Vulnerable	Least Concern									+
Gunther's Frog	<i>Hylarana guentheri</i>	Widely distributed	-	-	-	-	Least Concern									++ ++
Green Cascade Frog	<i>Odorrana chloronota</i>	Widely distributed in mountain streams in Hong Kong	-	-	-	-	Least Concern									++
Brown Tree Frog	<i>Polypedates megacephalus</i>	Widely distributed	-	-	-	-	Least Concern	+								+

**Notes:**

(1) Protected under Wild Animals Protection Ordinance (Cap. 170).

(2) Protected under Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586).

(3) Agriculture, Fisheries and Conservation Department (AFCD) (2020). Hong Kong Biodiversity Database.

(4) Fellowes, 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 Concern; PGC=Potential Global Concern; GC=Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.

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

(6) Zhao, E.-M. (1998). China Red Data Book of Endangered Animals. Amphibia and Reptilia. First Edition. Beijing: Science Press.

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

(8) International Union for the Conservation of Nature (IUCN) (2020). IUCN Red List of Threatened Species. Version 2020-3.

Habitat Type: **WL**: Woodland; **PL**: Plantation; **SL**: Shrubland; **VO**: Village/Orchard; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **DA**: Developed Area.

Code for Abundance: ++++ = abundant; +++ = frequent; ++ = occasional; + = scarce

Species of conservation importance is in **bold** type face.

Appendix 9.5e: Mammal Species Recorded within the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong <sup>(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	China Red Data Book <sup>(6)</sup>	Red List of China's Vertebrates <sup>(7)</sup>	IUCN Red List (Version 2020.3) <sup>(8)</sup>	Habitats										
								Project Site		Within 500 m Assessment Area								
								MWC	DA	MWC	WL	PL	SL	VO	NWC	DA		
Short-nosed Fruit Bat <sup>(1)</sup>	<i>Cynopterus sphinx</i>	Very Common	-	-	Indeterminate	Near Threatened	Least Concern											+
Chinese Horseshoe Bat <sup>(1)</sup>	<i>Rhinolophus sinicus</i>	Very Common	-	-	-	Least Concern	Least Concern					+						
Least Horseshoe Bat <sup>(1)</sup>	<i>Rhinolophus pusillus</i>	Uncommon	PRC, (RC)	-	-	Least Concern	Least Concern					+						
Pomona Leaf-nosed Bat <sup>(1)</sup>	<i>Hipposideros pomona</i>	Very Common	(LC)	-	-	Least Concern	Endangered					++						
Chinese Noctule <sup>(1)</sup>	<i>Nyctalus plancyi</i>	Common	PRC, (RC)	-	-	Least Concern	Least Concern											+
Japanese Pipistrelle <sup>(1)</sup>	<i>Pipistrellus abramus</i>	Very Common	-	-	-	Least Concern	Least Concern	+				+						
Chinese Pipistrelle <sup>(1)</sup>	<i>Hypsugo pulveratus</i>	Rare; Species of Conservation Concern	(LC)	-	-	Near Threatened	Least Concern					+						
Lesser Bamboo Bat <sup>(1)</sup>	<i>Tylonycteris pachypus</i>	Very Common	(LC)	-	Rare	Least Concern	Least Concern					+						
East Asian Porcupine <sup>(1)</sup>	<i>Hystrix brachyura</i>	Very Common	PGC	-	-	Least Concern	Least Concern					+						
Eurasian Wild Pig	<i>Sus scrofa</i>	Very Common	-	-	-	Least Concern	Least Concern					+						

Notes:

(1) Protected under Wild Animals Protection Ordinance (Cap. 170).

(2) Protected under Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586).

(3) Agriculture, Fisheries and Conservation Department (AFCD) (2020). Hong Kong Biodiversity Database.

(4) Fellowes, 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 Concern;

PGC=Potential Global Concern; GC=Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.

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

(6) Wang, S. (1998). China Red Data Book of Endangered Animals. Mammalia. First Edition. Beijing: Science Press.

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

(8) International Union for the Conservation of Nature (IUCN) (2020). IUCN Red List of Threatened Species. Version 2020-3.

Habitat Type: **WL**: Woodland; **PL**: Plantation; **SL**: Shrubland; **VO**: Village/Orchard; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **DA**: Developed Area.

Code for Abundance: ++++ = abundant; +++ = frequent; ++ = occasional; + = scarce

Species of conservation importance is in **bold** type face.

Appendix 9.5f: Freshwater Communities Recorded within the Assessment Area

Family	Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)(2)(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	China Red Data Book <sup>(6)</sup>	Red List of China's Vertebrates <sup>(7)</sup>	IUCN Red List (Version 2020.3) <sup>(8)</sup>	Sampling Points/Streams (Habitats)					
									FW1 (NWC)	FW2 (NWC)	FW3 (MWC)	FW4 (MWC)	S2 (NWC)	S3 (NWC)
<b>Fishes</b>														
Sparidae	Blackhead seabream	<i>Acanthopagrus schlegelii</i>	-	-	-	-	-	Least Concern				+		
Cyprinidae	Big Head Carp	<i>Hypophthalmichthys nobilis</i>	Occurs in some reservoirs. Cultivated in fishponds	-	-	-	-	Least Concern	Data Deficient			+		
Cyprinidae	Mud Carp	<i>Cirrhinus molitorella</i>	Not common in streams but occurs in large numbers in many reservoirs and cultivated in fishponds as food fish	-	-	-	-	Least Concern	Near Threatened			+		
Cyprinidae	<b>Predaceous Chub</b>	<b><i>Parazacco spilurus</i></b>	Common. A widespread species occurring in most unpolluted hill streams in both upper and lower courses	-	-	Vulnerable	-	Least Concern	Data Deficient		+			
Cyprinidae	Chinese Barb	<i>Barbodes semifasciolatus</i>	Common. Widely distributed in most of local freshwater streams, rivers and reservoirs	-	-	-	-	Least Concern	Least Concern					++
Cobitidae	Oriental Weatherfish	<i>Misgurnus anguillicaudatus</i>	Common. Records from streams and marshes throughout Hong Kong	-	-	-	-	Least Concern	Least Concern	+				
Balitoridae	Broken-band Hillstream Loach	<i>Liniparhomaloptera disparis</i>	Common. It occurs in most upper stream courses	-	-	-	-	Data Deficient	Data Deficient	+	+			++
Balitoridae	Sucker-belly Loach	<i>Pseudogastromyzon myersi</i>	Common. Widely distributed in reservoir catchments and upland streams	-	-	-	-	Data Deficient	Least Concern	+				
Balitoridae	Striped Loach	<i>Schistura fasciolata</i>	Common. Widespread in reservoir catchments and upland streams	-	-	-	-	Data Deficient	Data Deficient	+				++
Mugilidae	Grey Mullet	<i>Mugil cephalus</i>	Common. Widespread in estuaries and marine environment in Hong Kong	-	-	-	-	Least Concern				++	++	
Belonidae	Spottail Needlefish	<i>Strongylura Strongylura</i>	Common. It is mainly recorded from estuaries in Hong Kong	-	-	-	-	-				+		
Poeciliidae	Guppy	<i>Poecilia reticulata</i>	Common. Occurs in large number in many local streams and ponds	-	-	-	-	-		+	++			
Poeciliidae	Variable Platyfish	<i>Xiphophorus variatus</i>	Common. Found in large numbers in many local freshwater streams, rivers and ponds	-	-	-	-	Least Concern						+
Centreopomida	Giant Perch	<i>Lates calcarifer</i>	Common. Popular food fish and an important mariculture species	-	-	-	-	Least Concern					+	
Lutjanidae	Mangrove Red Snapper	<i>Lutjanus argentimaculatus</i>	Common. Popular food fish and an important mariculture species	-	-	-	-	Least Concern					+	
Gerreidae	Common Silver-biddy	<i>Gerres oyena</i>	Common	-	-	-	-	Least Concern					+	
Sparidae	Yellowfin Seabream	<i>Acanthopagrus latus</i>	Common. Popular food fish and an important mariculture species	-	-	-	-	Data Deficient					+	
Cichlidae	Mozambique Tilapia <sup>(9)</sup>	<i>Oreochromis mossambicus</i>	Common. Also cultivated.	-	-	-	-	Vulnerable				+++	+	
Cichlidae	Nile Tilapia	<i>Oreochromis niloticus</i>	Common. Also cultivated.	-	-	-	-	Least Concern				+		
Gobiidae	-	<i>Rhinogobius duospilus</i>	Common	-	-	-	-	Data Deficient	-	++				
Scatopontidae	Spotted Scat	<i>Scatophagus argus</i>	Common. Frequently recorded from estuaries and coastal areas. Popular food fish.	-	-	-	-	Least Concern				++	+	
Siganidae	White-spotted Rabbit Fish	<i>Siganus canaliculatus</i>	Common. Widespread in local coastal waters and estuaries.	-	-	-	-	Least Concern					+++	



Appendix 9.5f: Freshwater Communities Recorded within the Assessment Area

Family	Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)(2)(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	China Red Data Book <sup>(6)</sup>	Red List of China's Vertebrates <sup>(7)</sup>	IUCN Red List (Version 2020.3) <sup>(8)</sup>	Sampling Points/Streams (Habitats)					
									FW1 (NWC)	FW2 (NWC)	FW3 (MWC)	FW4 (MWC)	S2 (NWC)	S3 (NWC)
Percichthyidae	Japanese seaperch	<i>Lateolabrax japonicus</i>	-	-	-	-	-	-				+		
<b>Crustaceans</b>														
-	Large Stream Snail	<i>Sulcospira hainanensis</i>	Abundant and widespread	-	-	-	-	Least Concern	++					
-	-	<i>Radix plicatulus</i>	Rare	-	-	-	-	-	+					
-	-	<i>Somaniathelphusa zanklon</i>	Considered endemic	GC	-	-	-	Endangered			+			
-	Japanese Mitten Crab	<i>Eriocheir japonica</i>	Very Common	-	-	-	-	-				+		
-	-	<i>Macrobrachium hainanense</i>	Very Common	-	-	-	-	Least Concern	++					
-	Canton Bee Shrimp	<i>Caridina cantonensis</i>	Common and widespread	-	-	-	-	Least Concern	+++	++				
<b>Insects</b>														
-	-	<i>Cloeon harveyi</i>	Abundant and widespread	-	-	-	-	-	+					
-	Backswimmer	<i>Enithares sinica</i>	-	-	-	-	-	-	+					
-	Backswimmer	<i>Enithares bimpressa</i>	-	-	-	-	-	-					+	
-	Waterskater/Water strider	<i>Ptilomera tigrina</i>	Very Common	-	-	-	-	-	+	+				
-	Yellow Featherlegs	<i>Copera marginipes</i>	Abundant; Widespread	-	-	-	-	Least Concern	+					
-	<b>Tiger Hawker (Nymph)</b>	<i>Polycanthagyna erythromelas</i>	Common; Scattered	LC	-	-	-	Least Concern	+					

Notes:

(1) 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) Agriculture, Fisheries and Conservation Department (AFCD) (2020). Hong Kong Biodiversity Database.

(3) 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.

(4) Fellowes, 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 Concern;

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

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

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

(8) International Union for the Conservation of Nature (IUCN) (2020). IUCN Red List of Threatened Species. Version 2020-3.

(9) Although Mozambique tilapia (*Oreochromis mossambicus*) is considered as vulnerable in IUCN, it is a commonly cultivated exotic species in Hong Kong and therefore not considered as species of conservation importance.

Habitat Type: **NWC**: Natural Watercourse; **MWC**: Modified Watercourse.

Code for Abundance: ++++ = abundant; +++ = frequent; ++ = occasional; + = scarce

Species of conservation importance is in **bold** type face.