

Appendix 9.5a: Avifauna Species Recorded within the Assessment Area

Common Name ⁽¹⁾	Scientific Name	Distribution in Hong Kong ⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	China Red Data Book ⁽⁶⁾	Red List of China's Vertebrates ⁽⁷⁾	IUCN Red List (Version 2020.3) ⁽⁹⁾	Habitats										
								Project Site		Within 500 m Assessment Area								
								MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO	DA
Crested Myna	<i>Acridotheres cristatellus</i>	Common resident	-	-	-	Least Concern	Least Concern	+	+		+				++			+
Common Sandpiper ⁽⁹⁾	<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			+								
-	<i>Aethopyga spp.</i>	-	-	-	-	-	-											+
Common Kingfisher ⁽⁹⁾	<i>Alcedo atthis</i>	Common passage migrant and winter visitor	-	-	-	Least Concern	Least Concern		+						+			
White-breasted Waterhen ⁽⁹⁾	<i>Amaurornis phoenicurus</i>	Common resident	-	-	-	Least Concern	Least Concern								+		+	
House Swift	<i>Apus nipalensis</i>	Abundant spring migrant and locally common resident	-	-	-	Least Concern	Least Concern			+								
Great Egret ⁽⁹⁾	<i>Ardea alba</i>	Common resident and winter visitor	PRC (RC)	-	-	Least Concern	Least Concern	++							++			+
Grey Heron ⁽⁹⁾	<i>Ardea cinerea</i>	Common winter visitor	PRC	-	-	Least Concern	Least Concern	+							+			+
Chinese Pond Heron ⁽⁹⁾	<i>Ardeola bacchus</i>	Common resident	PRC (RC)	-	-	Least Concern	Least Concern	+										
Eastern Cattle Egret ⁽⁹⁾	<i>Bubulcus coromandus</i>	Resident and common passage migrant	(LC)	-	-	Least Concern	-								+			
Eastern Buzzard ⁽²⁾⁽⁹⁾	<i>Buteo japonicus</i>	Common winter visitor	-	Class II	-	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 ⁽⁹⁾	<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 ⁽⁹⁾	<i>Egretta garzetta</i>	Common resident	PRC (RC)	-	-	Least Concern	Least Concern	++	+						++	+		+
Asian Koel	<i>Eudynamis</i>	Common resident	-	-	-	Least Concern	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	+	++	+					+			++
Chestnut Bulbul	<i>Hemixos castanonotus</i>	Common resident and winter visitor	-	-	-	Least Concern	Least Concern			+								+
Barn Swallow	<i>Hirundo rustica</i>	Abundant passage migrant and summer visitor	-	-	-	Least Concern	Least Concern	+	++	+								++
Mountain Bulbul	<i>Ixos mccllellandii</i>	Rare resident	-	-	-	Least Concern	Least Concern			+								
Long-tailed Shrike	<i>Lanius schach</i>	Common resident	-	-	-	Least Concern	Least Concern	+		+								
White-rumped Munia	<i>Lonchura striata</i>	Common resident	-	-	-	Least Concern	Least Concern	+	+									+
Black Kite ⁽²⁾⁽⁹⁾	<i>Milvus migrans</i>	Common resident and winter visitor	(RC)	Class II	-	Least Concern	Least Concern			+								+
Blue-winged Minla	<i>Minla cyanouroptera</i>	Uncommon resident	-	-	-	Least Concern	Least Concern											+
White Wagtail	<i>Motacilla alba</i>	Common passage migrant and winter visitor	-	-	-	Least Concern	Least Concern	+++	+		+				+	+	+	+

Appendix 9.5a: Avifauna Species Recorded within the Assessment Area

Common Name ⁽¹⁾	Scientific Name	Distribution in Hong Kong ⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	China Red Data Book ⁽⁶⁾	Red List of China's Vertebrates ⁽⁷⁾	IUCN Red List (Version 2020.3) ⁽⁸⁾	Habitats											
								Project Site		Within 500 m Assessment Area									
								MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO	DA	
Grey Wagtail	<i>Motacilla cinerea</i>	Common passage migrant and winter visitor	-	-	-	Least Concern	Least Concern	+	+						+				
-	<i>Lonchura spp.</i>	-	-	-	-	-	-			+									
Blue Whistling Thrush	<i>Myophonus caeruleus</i>	Common resident	-	-	-	Least Concern	Least Concern		+	+			+		+			+	
Black-crowned Night Heron⁽⁹⁾	<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		+	++	+	+			+			+	+
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	-			+								+	
Mountain Tailorbird	<i>Phyllergates cucullatus</i>	Uncommon resident	-	-	-	Least Concern	Least Concern			+								+	
Dusky Warbler	<i>Phylloscopus fuscatus</i>	Common passage migrant and winter visitor	-	-	-	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	-	+	+	+	+								
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	Common resident	-	-	-	Least Concern	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		++	++	+	+			+			++	+
Yellow-fronted Canary	<i>Serinus mozambicus</i>	-	-	-	-	-	Least Concern								+				
Spotted Dove	<i>Spilopelia chinensis</i>	Abundant resident	-	-	-	Least Concern	Least Concern	+++	++	++	+	+			+			+	++
Rufous-capped Babbler	<i>Stachyridopsis</i>	Common resident	LC	-	-	Least Concern	Least Concern		+	+	+								
Red-billed Blue Magpie	<i>Urocissa erythroryncha</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; **MWL**: Mixed Woodland; **PLT**: Plantation; **GL**: Grassland; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **RES**: Reservoir; **VO**: Village/Orchard; **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 ⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	IUCN Red List (Version 2020.3) ⁽⁶⁾	Habitats										
						Project Site		Within 500 m Assessment Area								
						MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO	DA
Water Snow Flat	<i>Tagiades litigiosus litigiosus</i>	Common	-	-	-			+								
Chestnut Bob	<i>Iambrix salsala salsala</i>	Uncommon	-	-	-			+								
Little Branded Swift	<i>Pelopidas agna agna</i>	Uncommon	-	-	-						+					+
Common Bluebottle	<i>Graphium sarpedon sarpedon</i>	Very common	-	-	-			+	+							
Common Jay	<i>Graphium doson axion</i>	Common	-	-	-			+								
Tailed Jay	<i>Graphium agamemnon agamemnon</i>	Common	-	-	-			+	+	+						+
Common Mime	<i>Chilasa clytia clytia</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	-	-	-		+	+	+	+					+	+
Chinese Peacock	<i>Papilio bianor bianor</i>	Common	-	-	-				+	+						
Paris Peacock	<i>Papilio paris paris</i>	Very common	-	-	-				+	+					+	+
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	Very common	-	-	-										+	
Indian Cabbage White	<i>Pieris canidia canidia</i>	Very common	-	-	-				+	+						
Yellow Orange Tip	<i>Ixias pyrene pyrene</i>	Uncommon	-	-	-							+				+
Great Orange Tip	<i>Hebomoia glaucippe glaucippe</i>	Common	-	-	-									+		+
Mottled Emigrant	<i>Catopsilia pyranthe pyranthe</i>	Very common	-	-	-					+						
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	Common	-	-	-				+	+	+	+			+	+
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	Very common	-	-	-		+	+	+	+						++
Three-spot Grass Yellow	<i>Eurema blanda hylama</i>	Common	-	-	-				+	+						+
-	<i>Eurema spp.</i>	-	-	-	-				++	+					+	+
Transparent 6-line Blue	<i>Nacaduba kurava euplea</i>	Common	-	-	-				+			+				
Dark Cerulean	<i>Jamides bochus bochus</i>	Common	-	-	-					+					+	+
Metallic Cerulean	<i>Jamides alecto alocina</i>	Very rare	-	-	-		+									
Long-tailed Blue	<i>Lampides boeticus</i>	Common	-	-	-				+							
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	Very common	-	-	-		+	+				+			+	++
Malayan	<i>Megisba malaya sikkima</i>	Very rare; Species of conservation concern	LC	-	-		+									
Common Hedge Blue	<i>Acytolepis puspa gisca</i>	Common	-	-	-				+							+
Lime Blue	<i>Chilades lajus leucofasciatus</i>	Common	-	-	-		+					+				
Tiny Grass Blue	<i>Zizula hylax</i>	Very rare; Species of conservation concern	-	-	-		+									
Punchinello	<i>Zemeros flegyas flegyas</i>	Common	-	-	-				+							
Plum Judy	<i>Abisara echerius echerius</i>	Very common	-	-	-				+				+			
Common Evening Brown	<i>Melanitis leda leda</i>	Common	-	-	-				+			+				
Banded Tree Brown	<i>Lethe confusa confusa</i>	Common	-	-	-										+	
Dark Brand Bush Brown	<i>Mycalasis mineus mineus</i>	Very common	-	-	-				+	+		+			+	
South China Bush Brown	<i>Mycalasis zonata</i>	Common	-	-	-										+	
Common Five-ring	<i>Ypthima baldus baldus</i>	Very common	-	-	-				+	+						+
Large Faun	<i>Faunis eumeus eumeus</i>	Common	-	-	-										+	
Shan Nawab	<i>Polyura nepenthes nepenthes</i>	Uncommon	-	-	-				+							
Tawny Rajah	<i>Charaxes bernardus bernardus</i>	Common	-	-	-				+				+			
Angled Castor	<i>Ariadne ariadne alterna</i>	Common	-	-	-		+									
Rustic	<i>Cupha erymanthis erymanthis</i>	Very common	-	-	-				++	+						+
Lemon Pansy	<i>Junonia lemonias lemonias</i>	Common	-	-	-				+							
Chocolate Pansy	<i>Junonia iphita iphita</i>	Common	-	-	-											
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	Common	-	-	-				+	+	+				+	+
Danaid Eggfly	<i>Hypolimnas misippus</i>	Uncommon	LC	-	-		+	+	+							
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	-	-	-				+							
White-edged Blue Baron	<i>Euthalia phemius seitzii</i>	Common	-	-	-					+						
Common Mapwing	<i>Cyrestis thyodamas chinensis</i>	Common	-	-	-				+	+						+
Black Prince	<i>Rohana parisatis staurakius</i>	Common	-	-	-				+	+						
Red Ring Skirt	<i>Hestina assimilis assimilis</i>	Common	-	-	-				+							

Appendix 9.5b: Butterfly Species Recorded within the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong ⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	IUCN Red List (Version 2020.3) ⁽⁶⁾	Habitats										
						Project Site		Within 500 m Assessment Area								
						MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO	DA
Common Archduke	<i>Lexias pardalis</i>	Unknown; First recorded in 2008, monitoring underway	-	-	-										+	
Ceylon Blue Glassy Tiger	<i>Ideopsis similis similis</i>	Very common	-	-	-			+								+
Blue Tiger	<i>Tirumala limniace limniace</i>	Common	-	-	-			+	+							
Common Tiger	<i>Danaus genutia genutia</i>	Common	-	-	-											+
Blue-spotted Crow	<i>Euploea midamus midamus</i>	Very 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. 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.

Species of conservation importance is in bold type face.

Habitat Type: **WL**: Woodland; **MWL**: Mixed Woodland; **PLT**: Plantation; **GL**: Grassland; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **RES**: Reservoir; **VO**: Village/Orchard; **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 ⁽¹⁾	Level of Concern ⁽²⁾	Protection Status in China ⁽³⁾	IUCN Red List (Version 2020.3) ⁽⁴⁾	Habitats										
						Project Site		Within 500 m Assessment Area								
						MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO	DA
Damselfly																
Black-banded Gossamerwing	<i>Euphaea decorata</i>	Abundant; Very Widespread	-	-	Least Concern									+		
Yellow Featherlegs	<i>Copera marginipes</i>	Abundant; Widespread	-	-	Least Concern				+					+		
Black Threadtail	<i>Prodasineura autumnalis</i>	Abundant; Widespread	-	-	Least Concern				+							
Black-kneed Featherlegs	<i>Pseudocoptera ciliata</i>	Common; Widespread	-	-	Least Concern									+		
Dragonfly																
Pale-spotted Emperor	<i>Anax guttatus</i>	Common; Scattered	-	-	Least Concern										+	
Fiery Emperor	<i>Anax immaculifrons</i>	Common; Sparse	-	-	Least Concern				+							
Lesser Emperor	<i>Anax parthenope</i>	Common; Scattered	-	-	Least Concern	+										
Crimson Darter	<i>Crocothemis servilia servilia</i>	Abundant; 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									+	+	
Common Red Skimmer	<i>Orthetrum pruinosum neglectum</i>	Abundant; Widespread	-	-	-	+								+		
Green Skimmer	<i>Orthetrum serapia</i>	Abundant; Widespread	-	-	Least Concern	+				+				+	+	
Lesser Blue Skimmer	<i>Orthetrum triangulare triangulare</i>	Common; Widespread	-	-	Least Concern									+	+	
Wandering Glider	<i>Pantala flavescens</i>	Abundant; Widespread	-	-	Least Concern					+					++	
Pied Skimmer	<i>Pseudothemis zonata</i>	Common; Very Widespread	-	-	Least Concern				+							
Saddlebag Glider	<i>Tramea virginia</i>	Abundant; Widespread	-	-	Least Concern	+										
Crimson Dropwing	<i>Trithemis aurora</i>	Abundant; Very Widespread	-	-	Least Concern									+		
Chinese Cascader	<i>Zygonyx asahinai</i>	Uncommon; Scattered	GC	-	Least Concern										+	
Emerald Cascader	<i>Zygonyx iris insignis</i>	Abundant; Widespread	PGC	-	-										+	

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; **MWL**: Mixed Woodland; **PLT**: Plantation; **GL**: Grassland; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **RES**: Reservoir; **VO**: Village/Orchard; **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 ⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	China Red Data Book ⁽⁶⁾	Red List of China's Vertebrates ⁽⁷⁾	IUCN Red List (Version 2020.3) ⁽⁸⁾	Habitats									
								Project Site		Within 500 m Assessment Area							
								MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO
Reptiles																	
Four-clawed Gecko	<i>Gehyra mutilata</i>	Widely distributed throughout Hong Kong	-	-	-	Vulnerable	-									+	
Chinese Gecko	<i>Gekko chinensis</i>	Widely distributed throughout Hong Kong	-	-	-	Least Concern	Least Concern			+						+	
Tokay Gecko	<i>Gekko gecko</i>	Distributed on Lamma Island, Lantau Island, Hong Kong Island, Lion Rock Country Park, Ma On Shan Country Park and Pat Sin Leng Country Park. Some population are considered as escaped from snake shops.	RC	Class II	Endangered	Critically Endangered	Least Concern			+							
Bowring's Gecko	<i>Hemidactylus bowringii</i>	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	-				+						+
Long-tailed Skink	<i>Eutropis longicaudata</i>	Widely distributed throughout Hong Kong	-	-	-	Least Concern	Least Concern			+			+				
Mock Viper	<i>Psammodynastes pulverulentus</i>	Distributed in woodlands, shrublands and grasslands on Lantau Island, Hong Kong Island, in the central New Territories and eastern New Territories	-	-	-	-	-									+	
Mountain Water Snake	<i>Sinonatrix percarinata percarinata</i>	Distributed in streams in central New Territories (Shing Mun Country Park, Tai Po Kau Nature Reserve, Tai Lam Country Park)	LC	-	-	Vulnerable	Least Concern							+			
Many-banded Krait	<i>Bungarus multicinctus multicinctus</i>	Widely distributed throughout Hong Kong	PRC	-	Vulnerable	Endangered	Least Concern			+							
Amphibians																	
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	+								+	
Lesser Spiny Frog	<i>Quasipaa exilispinosa</i>	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	+							+		

Appendix 9.5d: Herpetofauna Species Recorded within the Assessment Area

Common Name	Scientific Name	Distribution in Hong Kong ⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	China Red Data Book ⁽⁶⁾	Red List of China's Vertebrates ⁽⁷⁾	IUCN Red List (Version 2020.3) ⁽⁸⁾	Habitats										
								Project Site		Within 500 m Assessment Area								
								MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO	DA
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; **MWL**: Mixed Woodland; **PLT**: Plantation; **GL**: Grassland; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **RES**: Reservoir; **VO**: Village/Orchard; **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 ⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	China Red Data Book ⁽⁶⁾	Red List of China's Vertebrates ⁽⁷⁾	IUCN Red List (Version 2020.3) ⁽⁸⁾	Habitats											
								Project Site		Within 500 m Assessment Area									
								MWC	DA	WL	MWL	PLT	GL	NWC	MWC	RES	VO	DA	
Short-nosed Fruit Bat ⁽¹⁾	<i>Cynopterus sphinx</i>	Very Common	-	-	Indeterminate	Near Threatened	Least Concern		+										+
Himalayan Leaf-nosed Bat ⁽¹⁾	<i>Hipposideros armiger</i>	Very Common	(LC)	-	-	Least Concern	Least Concern			+									
Chinese Noctule ⁽¹⁾	<i>Nyctalus plancyi</i>	Common	PRC, (RC)	-	-	Least Concern	Least Concern	+											+
Japanese Pipistrelle ⁽¹⁾	<i>Pipistrellus abramus</i>	Very Common	-	-	-	Least Concern	Least Concern			+									
Least Pipistrelle ⁽¹⁾	<i>Pipistrellus tenuis</i>	Uncommon	-	-	-	Near Threatened	Least Concern			+									+
Chinese Pipistrelle ⁽¹⁾	<i>Hypsugo pulveratus</i>	Rare; Species of Conservation Concern	(LC)	-	-	Near Threatened	Least Concern												+
Lesser Bamboo Bat ⁽¹⁾	<i>Tylonycteris pachypus</i>	Very Common	(LC)	-	Rare	Least Concern	Least Concern			+									
Rhesus Macaque ⁽¹⁾⁽²⁾	<i>Macaca mulatta</i>	Common	-	Class II	Vulnerable	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; **MWL**: Mixed Woodland; **PLT**: Plantation; **GL**: Grassland; **NWC**: Natural Watercourse; **MWC**: Modified Watercourse; **RES**: Reservoir; **VO**: Village/Orchard; **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 ⁽¹⁾⁽²⁾⁽³⁾	Level of Concern ⁽⁴⁾	Protection Status in China ⁽⁵⁾	China Red Data Book ⁽⁶⁾	Red List of China's Vertebrates ⁽⁷⁾	IUCN Red List (Version 2020.3) ⁽⁸⁾	Sampling Points/Streams (Habitats)			
									FW1 (MWC)	FW2 (MWC)	FW3 (MWC)	S1 (MWC)
Fishes												
Poeciliidae	Mosquito Fish	<i>Gambusia affinis</i>	Common. Introduced species.	-	-	-	-	Least Concern	+++			++++
Poeciliidae	Guppy	<i>Poecilia reticulata</i>	Common	-	-	-	-	-	+			
Cichlidae	Mozambique Tilapia ⁽⁹⁾	<i>Oreochromis mossambicus</i>	Common. Also cultivated.	-	-	-	-	Vulnerable	+++		+	
Cichlidae	Redbelly Tilapia	<i>Tilapia zillii</i>	Common	-	-	-	-	Least Concern	+		+	
Crustaceans												
-	Pond Snail	<i>Sinotaia quadrata</i>	Rare	-	-	-	-	Least Concern	+			
-	Tadpole Snail	<i>Haitia acuta</i>	-	-	-	-	-	Least Concern		+	+	
-	Red-rimmed Melania	<i>Melanooides tuberculata</i>	-	-	-	-	-	Least Concern	+			
-	-	<i>Corbicula fluminea</i>	Very Common	-	-	-	-	Least Concern	+			
-	Stream Crab	<i>Cryptopotamon anacoluthon</i>	Endemic to Hong Kong; Very Common	PGC	-	-	-	Vulnerable				+
-	-	<i>Somaniathelphusa zanklon</i>	Considered endemic	GC	-	-	-	Endangered				+
-	Japanese Mitten Crab	<i>Eriocheir japonica</i>	Very Common	-	-	-	-	-			+	
-	Canton Bee Shrimp	<i>Caridina cantonensis</i>	Common and widespread	-	-	-	-	Least Concern	+			+++
Insects												
-	Backswimmer	<i>Enithares sinica</i>	-	-	-	-	-	-				+
-	Backswimmer	<i>Enithares bimpressa</i>	-	-	-	-	-	-				+
-	Waterskater/Water strider	<i>Ptilomera tigrina</i>	Very Common	-	-	-	-	-				+
-	Caddisfly	<i>Goerodes</i> sp.	-	-	-	-	-	-				+
-	Blood Worm	<i>Chironomus plumosus</i>	Abundant in polluted waters; Very Common	-	-	-	-	-	+		+	
-	Red-faced Skimmer	<i>Orthetrum chrysis</i>	Abundant; Very Widespread	-	-	-	-	Least Concern	+			
-	Orange-tailed Midget	<i>Agriocnemis femina oryzae</i>	Abundant; Scattered	-	-	-	-	Least Concern	+			
-	Crimson Drowpwing	<i>Trithemis aurora</i>	Abundant; Very Widespread	-	-	-	-	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; 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) 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.