

Appendix 8.2 Fauna Species recorded within Project Site and AA and the Conservation Status

Table 1. Mammal species recorded within Project Site and AA

Species	Scientific Name	Conservation and Protection Status ¹	Habitat ²		
			AA		
			Gr/Sh	PI	DA
Short-nosed Fruit Bat	<i>Cynopterus sphinx</i>	Cap.170			Y*
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	Cap.170			Y
Pallas's Squirrel	<i>Callosciurus erythraeus</i>	Cap.170	Y		Y
Eurasian Wild Pig	<i>Sus scrofa</i>	-		Y	

Note:

*Roosts were recorded

1. Conservation and Protection Status follows AFCD database (2023) and Cap.170
 - a. Cap.170 = Wild Animals Protection Ordinance
2. Habitats: Gr/Sh = Grassland/Shrubland; PI = Plantation; DA = Developed Area

Table 2. Maximum count of avifauna species recorded within Project Site and AA

Species	Scientific Name	Conservation and Protection Status ¹	Habitat ²														
			Project Site				AA										
			PI	VA	DA	IF	CW	WC	Po	Ag	Orc	IF	Gr/Sh	PI	VA	WL	DA
Chinese Pond Heron	<i>Ardeola bacchus</i>	PRC(RC)				1	1						1				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	(LC)				1							1				1
Little Egret	<i>Egretta garzetta</i>	PRC(RC)				1	13	1					1				
Crested Serpent Eagle	<i>Spilornis cheela</i>	(LC); Cap.586												1			
Besra	<i>Accipiter virgatus</i>	Cap.586													1		
Black Kite	<i>Milvus migrans</i>	(RC); Cap.586			1	1									1		1
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	-					4	2	1								
Green Sandpiper	<i>Tringa ochropus</i>	-						1									
Rock Dove	<i>Columba livia</i>	-															40
Spotted Dove	<i>Spilopelia chinensis</i>	-					4						4				6
Greater Coucal	<i>Centropus sinensis</i>	-					2			1			2				1
Asian Koel	<i>Eudynamis scolopaceus</i>	-	1		1		2										2
Large Hawk-Cuckoo	<i>Hierococcyx sparveroides</i>	-					2						1				
House Swift	<i>Apus nipalensis</i>	-															5
Hair-crested Drongo	<i>Dicrurus hottentottus</i>	-											3				
Red-billed Blue Magpie	<i>Urocissa erythroryncha</i>	-			1		2						1				1
Large-billed Crow	<i>Corvus macrorhynchos</i>	-	1		2												1
Cinereous Tit	<i>Parus cinereus</i>	-		1			3						5	5			3
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	-					10						6	4			15

Species	Scientific Name	Conservation and Protection Status ¹	Habitat ²														
			Project Site				AA										
			PI	VA	DA	IF	CW	WC	Po	Ag	Orc	IF	Gr/Sh	PI	VA	WL	DA
Chinese Bulbul	<i>Pycnonotus sinensis</i>	-	5					4		1			4				10
Barn Swallow	<i>Hirundo rustica</i>	-					7			1					5		
Plain Prinia	<i>Prinia inornata</i>	-						1					1				
Common Tailorbird	<i>Orthotomus sutorius</i>	-					2	2					2	2			1
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	-	3				8	3					4	9			2
Swinhoe's White-eye	<i>Zosterops simplex</i>	-		3			10							10			10
Crested Myna	<i>Acridotheres cristatellus</i>	-			2		5	4		1			4				20
Common Myna	<i>Acridotheres tristis</i>	-					2										1
Black-collared Starling	<i>Gracupica nigricollis</i>	-			2		6	4		1			4	2			5
Oriental Magpie Robin	<i>Copsychus saularis</i>	-					4	2		1			2				3
Blue Whistling Thrush	<i>Myophonus caeruleus</i>	-					1	2					2				
Scarlet-backed Flowerpecker	<i>Dicaeum cruentatum</i>	-						1					1				
Fork-tailed Sunbird	<i>Aethopyga christinae</i>	-						1					1	2			
Eurasian Tree Sparrow	<i>Passer montanus</i>	-	10	3	5		40	20		1			20	3			30
Grey Wagtail	<i>Motacilla cinerea</i>	-					1	1									
White Wagtail	<i>Motacilla alba</i>	-					4			1							
Olive-backed Pipit	<i>Anthus hodgsoni</i>	-						1					3				3

Species	Scientific Name	Conservation and Protection Status ¹	Habitat ²														
			Project Site				AA										
			PI	VA	DA	IF	CW	WC	Po	Ag	Orc	IF	Gr/Sh	PI	VA	WL	DA
Tristram's Bunting	<i>Emberiza tristrami</i>	-												2			

Note:

1. Status in Hong Kong and Conservation and Protection Status follows AFCD database (2023), Fellowes *et al.* (2002), Cap.586
 - a. Fellowes *et al.* (2002): PRC = Potential Regional Concern; RC = Regional Concern; LC = Local Concern; Letters in parentheses indicate assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence.
 - b. Cap.586 = Protection of Endangered Species of Animals and Plants Ordinance.
2. Habitats: PI = Plantation; VA = Village Area; DA = Developed Area; CW = Channelised Watercourse; WC = Semi-natural Watercourse; Po = Pond; Ag = Agricultural Land; Orc = Orchard; IF = In Flight; Gr/Sh = Grassland/Shrubland; WL = Wasteland.

Table 3. Amphibian species recorded within Project Site and AA and their relative abundance

Species	Scientific Name	Status in Hong Kong ¹	Conservation and Protection Status ¹	Habitat ²												
				Project Site			AA									
				PI	VA	DA	CW	WC	Po	Ag	Orc	Gr/Sh	PI	VA	WL	DA
Asian Common Toad	<i>Duttaphrynus melanostictus</i>	Widely distributed throughout Hong Kong.	-				+	+	+	+		+				
Asiatic Painted Frog	<i>Kaloula pulchra</i>	Widely distributed throughout Hong Kong.	-	+	+	+	+						++	+	+	++
Ornate Pigmy Frog	<i>Microhyla fissipes</i>	Widely distributed throughout Hong Kong.	-				+			++	+++				+	
Marbled Pigmy Frog	<i>Microhyla pulchra</i>	Widely distributed throughout Hong Kong.	-								+					
Paddy Frog	<i>Fejervarya multistriata</i>	Widely distributed throughout Hong Kong.	-						+							
Günther's Frog	<i>Sylvirana guentheri</i>	Widely distributed throughout Hong Kong.	-				+	++*				+				
Brown Tree Frog	<i>Polypedates megacephalus</i>	Widely distributed throughout Hong Kong.	-	+		+		+	+			+	+			++
Greenhouse Frog	<i>Eleutherodactylus planirostris</i>	Widely distributed throughout Hong Kong.	-	+								+	+	+		

Note:

* Tadpoles were also recorded.

+++ = high abundance, very common; ++ = medium abundance, common; + = low abundance

3. Status in Hong Kong and Conservation and Protection Status follows AFCD database (2023).

4. Habitats: PI = Plantation; VA = Village Area; DA = Developed Area; CW = Channelised Watercourse; WC = Semi-natural Watercourse; Po = Pond; Ag = Agricultural Land; Orc = Orchard; Gr/Sh = Grassland/Shrubland; WL = Wasteland.

Table 4. Reptile species recorded within Project Site and AA and their relative abundance

Species	Scientific Name	Status in Hong Kong ¹	Conservation and Protection Status ¹	Habitat ²													
				Project Site			AA										
				PI	VA	DA	CW	WC	Po	Ag	Orc	Gr/Sh	PI	VA	WL	DA	
Red-eared Slider	<i>Trachemys scripta</i>	Widely distributed throughout Hong Kong.	-				++			+							
Changeable Lizard	<i>Calotes versicolor</i>	Widely distributed throughout Hong Kong.	-	+	+	+						+	+	+	+		+
Long-tailed Skink	<i>Eutropis longicaudata</i>	Widely distributed throughout Hong Kong.	-	+					+		+				+		+
Chinese Gecko	<i>Gekko chinensis</i>	Widely distributed throughout Hong Kong.	-		+	+										+	+
Bowring's Gecko	<i>Hemidactylus bowringii</i>	Widely distributed throughout Hong Kong.	-		+	++	+				+		++	++	+		++
Common Wolf Snake	<i>Lycodon aulicus</i>	Widely distributed throughout Hong Kong.	-														Y
Taiwan Kukri Snake	<i>Oligodon formosanus</i>	Widely distributed throughout Hong Kong.	-														Y
Common Rat Snake	<i>Ptyas mucosus</i>	Widely distributed throughout Hong Kong.	PRC; Cap.586														Y

Note:

Y = single record during the survey period

+++ = high abundance, very common; ++ = medium abundance, common; + = low abundance

1. Status in Hong Kong and Conservation and Protection Status follows AFCD database (2023), Fellowes *et al.* (2002), Cap.586

a. Fellowes *et al.* (2002): PRC = Potential Regional Concern

b. Cap.586 = Protection of Endangered Species of Animals and Plants Ordinance.

2. Habitats: PI = Plantation; VA = Village Area; DA = Developed Area; CW = Channelised Watercourse; WC = Semi-natural Watercourse; Po = Pond; Ag = Agricultural Land; Orc = Orchard; Gr/Sh = Grassland/Shrubland; WL = Wasteland.

Table 5. Butterfly species recorded within Project Site and AA and their relative abundance

Species	Scientific Name	Status in Hong Kong ¹	Habitat ²												
			Project Site			AA									
			PI	VA	DA	CW	WC	Po	Ag	Orc	Gr/Sh	PI	VA	WL	DA
Bush Hopper	<i>Ampittia dioscorides</i>	Uncommon				+	+		+	+	+	+			
Formosan Swift	<i>Borbo cinnara</i>	Common					+				+				
Plains Cupid	<i>Chilades pandava</i>	Uncommon	+									++			+
Long-tailed Blue	<i>Lampides boeticus</i>	Common									+				+
Tailless Line Blue	<i>Prosotas dubiosa</i>	Vagrant									+				
Pale Grass Blue	<i>Pseudozizeeria maha</i>	Very Common	++	++	++	+		+	+			++			
Lesser Grass Blue	<i>Zizina otis</i>	Common				+									
Plum Judy	<i>Abisara echerius</i>	Very Common	+								+				
Common Tiger	<i>Danaus genutia</i>	Common							+				+		
Common Indian Crow	<i>Euploea core</i>	Common					+					+			
Blue-spotted Crow	<i>Euploea midamus</i>	Very Common					+						+		
Angled Castor	<i>Ariadne ariadne</i>	Common							+		+	+	+		+
Rustic	<i>Cupha erymanthis</i>	Very Common					+								
Red-ring Skirt	<i>Hestina assimilis</i>	Common							+						
Great Egg-fly	<i>Hypolimnas bolina</i>	Common										+			
Peacock Pansy	<i>Junonia almana</i>	Common									+				
Lemon Pansy	<i>Junonia lemonias</i>	Common									+				
Common Sailer	<i>Neptis hylas</i>	Very Common	+				+		+	+					+
Common Palmfly	<i>Elymnias hypermnestra</i>	Common		+				+	+	+					
Banded Tree Brown	<i>Lethe confusa</i>	Common										+			+
Common Evening Brown	<i>Melanitis leda</i>	Common	+								+	+			
Dark Evening Brown	<i>Melanitis phedima</i>	Uncommon									+	+			
Dark-brand Bush Brown	<i>Mycalesis mineus</i>	Very Common	+		+	+	+	+	+		+	+	+		+

Species	Scientific Name	Status in Hong Kong ¹	Habitat ²												
			Project Site			AA									
			PI	VA	DA	CW	WC	Po	Ag	Orc	Gr/Sh	PI	VA	WL	DA
South China Bush Brown	<i>Mycalesis zonata</i>	Common										+			
Common Five-ring	<i>Ypthima baldus</i>	Very Common	+					+				++	+		
Common Mime	<i>Chilasa clytia</i>	Common		+					+					+	
Tailed Jay	<i>Graphium agamemnon</i>	Common						+				+			
Common Bluebottle	<i>Graphium sarpedon</i>	Very Common										+	+		+
Red Helen	<i>Papilio helenus</i>	Very Common									+				+
Great Mormon	<i>Papilio memnon</i>	Very Common									+				
Paris Peacock	<i>Papilio paris</i>	Very Common										+	+		
Common Mormon	<i>Papilio polytes</i>	Very Common	+		+						+		+	+	+
Spangle	<i>Papilio protenor</i>	Very Common						+				+	+		
Swallowtail	<i>Papilio xuthus</i>	Rare												+	
Lemon Emigrant	<i>Catopsilia pomona</i>	Common		+	+	+	+	+	+	+	+	+	+	+	+
Common Grass Yellow	<i>Eurema hecabe</i>	Very Common	+		+	+									
Red-base Jezebel	<i>Delias pasithoe</i>	Very Common	+		+	+							++		++
Great Orange Tip	<i>Hebomoia glaucippe</i>	Common													+
Indian Cabbage White	<i>Pieris canidia</i>	Very Common		+	+	+	+++		+++				++	+	+

Note:

+++ = high abundance, very common; ++ = medium abundance, common; + = low abundance

1. Status in Hong Kong follows AFCD database (2023)

2. Habitats: PI = Plantation; VA = Village Area; DA = Developed Area; CW = Channelised Watercourse; WC = Semi-natural Watercourse; Po = Pond; Ag = Agricultural Land; Orc = Orchard; Gr/Sh = Grassland/Shrubland; WL = Wasteland.

Species	Scientific Name	Conservation and Protection Status ¹	Habitat ²													
			Project Site			AA										
			PI	VA	DA	CW	WC	Po	Ag	Orc	Gr/Sh	PI	VA	WL	DA	
Scarlet Basker	<i>Urothemis signata</i>	LC					+									
Emerald Cascader	<i>Zygonyx iris</i>	PGC				+	+									

Note:

+++ = high abundance, very common; ++ = medium abundance, common; + = low abundance

1. Conservation and Protection Status follows AFCD database (2023) and Fellowes *et al.* (2002)

a. Fellowes *et al.* (2002): LC = Local Concern; PGC = Potential Global Concern.

2. Habitats: PI = Plantation; VA = Village Area; DA = Developed Area; CW = Channelised Watercourse; WC = Semi-natural Watercourse; Po = Pond; Ag = Agricultural Land; Orc = Orchard; Gr/Sh = Grassland/Shrubland; WL = Wasteland.

Table 7. Aquatic Assemblages recorded at sizable sampling locations within AA

Species	Scientific Name	Status in Hong Kong ¹	Habitat ²			
			AA			
			CW	WC	Po	Ag
<u>Fish</u>						
White-cheeked Goby	<i>Rhinogobius duospilus</i>	-		+		
Mozambique Tilapia	<i>Oreochromis mossambicus</i>	-	++	++		
Nile Tilapia	<i>Oreochromis niloticus</i>	-	++	++		
Mosquito Fish	<i>Gambusia affinis</i>	-	++	+++	+	
Guppy	<i>Poecilia reticulata</i>	-	++	+	++	
Variable Platfish	<i>Xiphophorus variatus</i>	-	++	+		
Large Mouth Bass	<i>Micropterus salmoides</i>	-		+		
<u>Aquatic Invertebrate</u>						
Common Bluetail (Larva)	<i>Ischnura senegalensis</i>	-		+		
Hainan Clubtail (Larva)	<i>Lamelligomphus hainanensis</i>	LC		+		
Emerald Cascader (Larva)	<i>Zygonyx iris</i>	PGC	+	+		
Backswimmer	<i>Enithares</i> sp.	-			+	
Water Strider	<i>Ptilomera tigrina</i>	-		++		
Freshwater Shrimp	<i>Caridina cantonensis</i>	-			++	++
Freshwater Crab	<i>Somanniathelphusa zanklon</i>	GC; IUCN(EN)	+	+		
Apple Snail	<i>Pomacea canaliculata</i>	-	+++		+	+++

Note:

+++ = high abundance, very common; ++ = medium abundance, common; + = low abundance

1. Status in Hong Kong follows AFCD database (2023), Fellowes *et al.* (2002) and IUCN (2023)

a. Fellowes *et al.* (2002): PGC = Potential Global Concern; GC = Global Concern; LC = Local Concern.

b. IUCN (2023): EN = endangered.

2. Habitats: CW = Channelised Watercourse; WC = Semi-natural Watercourse; Po = Pond; Ag = Agricultural Land.