Rezoning Application from
"Residential (Group D)" to
"Residential (Group C)2" Zone at Lot
No. 4822 in D.D. 104 and
Adjoining Government Land,
East of Kam Pok Road,
Mai Po, Yuen Long,
New Territories
[Volume 2 of 2]

Applicant : Glory Queen Limited

Planning Consultants : Vision Planning Consultants Limited

Project Architects : P&T Group

Environmental Consultants : Meinhardt Infrastructure & Environment Ltd.

Ramboll Hong Kong Limited

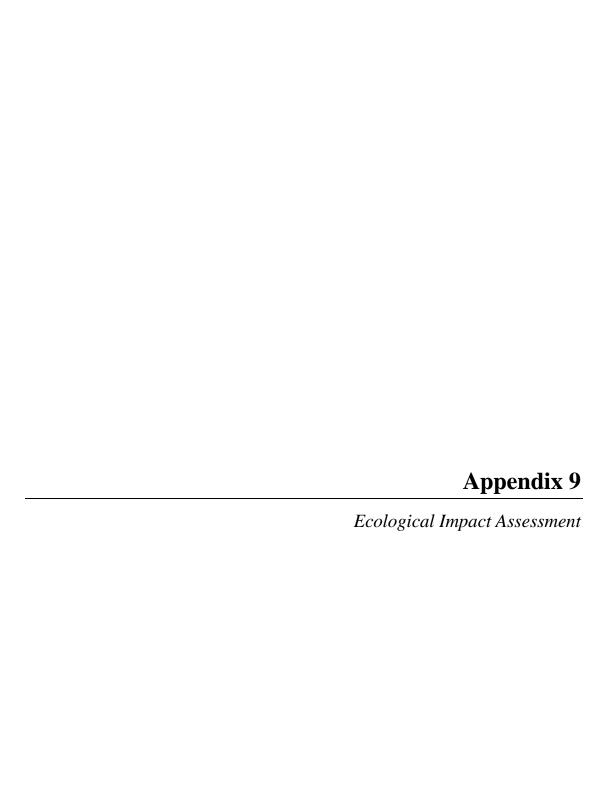
Westwood Hong & Associates Limited

Landscape Architects : Scenic Landscape Studio Limited

Traffic Consultants : MVA Hong Kong Limited

Ecological Consultants : Ecosystems Limited

Date of Submission : 8 August 2025



REZONING APPLICATION FROM "RESIDENTIAL (GROUP D)" TO "RESIDENTIAL (GROUP C)2" ZONE AT LOT 4822 IN D.D. 104 AND ADJOINING GOVERNMENT LAND, EAST OF KAM POK ROAD, MAI PO, YUEN LONG, NEW TERRITORIES

Ecology Impact Assessment

1. Summary

1.1.1 This report presents the Ecological Impact Assessment on any direct and indirect potential impacts to ecology arising from the construction and operation of the proposed rezoning layout. Ecological baseline conditions of the Subject Site and its surroundings were described, potential ecological impacts including losses or damages of habitats and other potential impacts to the inhabiting flora and fauna were assessed, and the need of mitigation measures such as avoidance, minimization and compensation were investigated. The potential ecological impacts on the identified species and habitats were found acceptable with implementation of mitigation measures.

2. Relevant Legislation, Standards, Guidelines and Criteria

- 2.1.1 The HKSAR ordinances and regulations relevant to ecological assessment of this Project include the following:
 - Forests and Countryside Ordinance (Cap. 96) and its subsidiary legislation, the Forestry Regulations (Cap. 96A);
 - Town Planning Ordinance (Cap. 131);
 - Wild Animals Protection Ordinance (WAPO, Cap. 170);
 - Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586);
 - Environmental Impact Assessment Ordinance ("the EIAO", Cap. 499) and the associated TM (EIAO-TM), in particular Annexes 8 and 16; and
 - Town Planning Board Guidelines for Application for Development within the Deep Bay Area under Section16 of the Town Planning Ordinance.
- 2.1.2 Ecological assessment also made reference to the following guidelines and standards as well as international conventions:
 - Hong Kong Planning Standards and Guidelines (HKPSG) Chapter 10, "Conservation":
 - PELB Technical Circular 1/97 / Works Branch Technical Circular 4/97, "Guidelines for Implementing the Policy on Off-site Ecological Mitigation Measures";
 - ETWB Technical Circular (Works) No. 5/2005, "Protection of natural streams/rivers from adverse impacts arising from construction works";
 - Relevant wildlife protection laws of the PRC;

- Convention on Wetlands of International Importance Especially as Waterfowl Habitat (the "Ramsar Convention"), which requires parties to conserve and make wise use of wetland areas, particularly those supporting waterfowl populations:
- United Nations Convention on Biological Diversity, which requires parties to regulate or manage biological resources important for the conservation of biological diversity, to promote the protection of ecosystems, natural habitats and the maintenance of viable populations of species in natural surroundings. Signatories of the convention are required to make active efforts to protect and manage their biodiversity resources. The Government of the Hong Kong SAR has stated that it will be "committed to meeting the environmental objectives" of the Convention:
- International Union for Conservation of Nature and Natural Resources (IUCN)
 Red List of Threatened Species;
- The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is an international agreement between governments. Its aim is to ensure that international trade in specimens of wild animals and plants does not threaten their survival.

3. Establishment of Ecological Baseline

3.1.1 Ecological baseline condition of the Subject Site and 500m Assessment Area was established by literature review and updating survey of habitat mapping in May 2025.

Literature Review

- 3.1.2 The following literatures were reviewed. Ecological surveys carried out in these projects have gathered a large amount of ecological information of the Subject Site and the surrounding areas.
 - "Proposed Low-rise and Low-density Residential Development at Various Lots and their Adjoining Government Land in D.D. 104, East of Kam Pok Road, Mai Po, Yuen Long, N.T.";
 - "Proposed Residential cum Passive Recreational Development within "Recreation" ("REC") Zone and "Residential (Group C)" Zone at Various Lots in DD 104, Yuen Long, N.T." (hereafter REC Site EIA);
 - "Comprehensive Development and Wetland Protection near Yau Mei San Tsuen" (hereafter YMST EIA);
 - On-going construction phase ecological monitoring data of Light Public Housing at Yau Pok Road, Yuen Long (DIR-296/2023);
 - "Residential Development within R(D) Zone at Various Lots in DD104, Yuen Long, N.T." (hereafter R(D) Site EcolA);
 - "Light Public Housing at Yau Pok Road, Yuen Long Project Profile";
 - "S12A Planning Application Mai Po & Fairview Park OZP No. S/YL-MP/8 Rezoning from "Residential (Group D)" to "Residential (Group C) 1" Zone For a Proposed Residential Development at Various Lots in D.D. 104 and the Adjoining Government Land in Yuen Long" (Y/YL-MP/10);
 - Ecological survey to provide back-up data for the application of variation of environmental permit A/YL-MP/287. Ecological surveys including habitat mapping, mammal, bird, herpetofauna, dragonfly and butterfly between February

and July 2023. Surveys covered the Subject Site and 500m Assessment Area; and

Hong Kong Bird Report published by the Hong Kong Bird Watching Society.

Habitat Mapping

3.1.3 A habitat mapping survey was conducted in May 2025. Habitats in the Subject Site and 500m Assessment Area were mapped based on aerial photos and ground truthing. Walk-over surveys were conducted at representative areas of each habitat type.

4. Results of Literature Review

- 4.1 Recognized Sites of Conservation Importance
- 4.1.1 There is no Recognized Site of Conservation Importance within the Subject Site of this application.

Wetland Buffer Area (WBA)

- 4.1.2 The planning intention of WBA is to protect the ecological integrity of the fishponds and wetlands within the Wetland Conservation Area (WCA) and to prevent development that would have a negative off-site impact on the ecological value of those fishponds.
- 4.1.3 The Subject Site is located immediately outside the boundary of Wetland Buffer Area (WBA), and part of the Assessment Area covered the WBA.

Wetland Conservation Area

4.1.4 The Subject Site is about 520m away from the boundary of WCA. WCA comprises of the existing and contiguous, active or abandoned fishponds in the Deep Bay Area. The planning intention of WCA is to conserve the ecological value of the fishpond which form an integral part of the wetland ecosystem in the Deep Bay Area. New development within the WCA will not be allowed unless it is required to support the conservation of the ecological value of the area or the development is essential infrastructural project with overriding public interest.

Site of Special Scientific Interest (SSSI) and Egretries

- 4.1.5 There is no SSSI or egretry within the Subject Site or 500m Assessment Area.
- 4.1.6 There are three SSSIs between 1.2km and 2.1km from the Subject Site, namely the Mai Po Marshes SSSI, the Inner Deep Bay SSSI and the Mai Po Village SSSI (Anon. 2022).
- 4.1.7 Two active egretries lie within the potential foraging distance of breeding egrets (Young 1993), including Mai Po Village egretry (1.8km from the Assessment Area) and Mai Po Lung egretry (2.3km from the 500m Assessment Area). Foraging ecology of Little Egret and Chinese Pond Heron nesting in Mai Po Village SSSI Egretry was studied previously (Wong 1992, Young 1998, City University of Hong Kong. 2001). Fishpond was the most frequently used habitat by both species. Drained fishponds are particularly attractive to Little Egret (Young 1998). The average distances flown

by Little Egret and Chinese Pond Heron were 2.1km and 1.6km respectively (Wong 1992, Young 1998). Foraging ecology of Little Egret and Chinese Pond Heron in Mai Po Village SSSI Egretry was also studied in 2011 during the EIA study of "Proposed Residential Cum Passive Recreation Development within "Recreation" Zone and "Residential (Group C)" Zone at Various Lots in DD 104, Yuen Long, N.T." (ENVIRON Hong Kong Limited. 2013). Most breeding birds of these two species took off from the Mai Po Village egretry flew towards Mai Po, Tam Kon Chau or other nearby wetlands to forage. Foraging ecology of Little Egret and Chinese Pond Heron nesting in Mai Po Lung Egretry was not studied previously, but the uses of foraging habitat and average flight distance of might be similar to the observations in the Mai Po Village SSSI Egretry.

Mai Po Inner Deep Bay Ramsar Site

4.1.8 About 1500 ha of wetland in the Mai Po and Inner Deep Bay region was designated as a Ramsar Site on 4 September 1995. The wetland habitats in the Ramsar Site included intertidal mudflats, mangroves, tidal shrimp ponds (*gei wais*), fishponds and reedbeds. The site serves as an important over-wintering and refuelling station site for the migratory waterbirds.

Proposed Sam Po Shue Wetland Conservation Park

4.1.9 The Proposed Sam Po Shue Wetland Conservation Park (WCP) is about 400m from the Subject Site and part of this WCP falls within the northern fringe of 500m Assessment Area. Sam Po Shue WCP is one of the five parks to be developed under the multi-functional WCPs System under the Northern Metropolis Development Strategy. The total area will be about 338 ha, covering the wetland in Lok Ma Chau, San Tin and area adjacent to Fairview Park. The WCP will provide four major functions, including: 1) enhance the ecological quality and biodiversity of the Northern Metropolis; 2) compensate for ecological and fisheries impacts arising from development of San Tin Technopole, to achieve no-net-loss in ecological function; 3) provide quality outdoor eco-education and recreation facilities for public enjoyment; and 4) introduce ecologically friendly and modernised aquaculture in the park. The commencement of development of the Sam Po Shue WCP is tentatively scheduled in 2026/2027. Construction works will be completed in phase works and finish in 2039.

Vegetation

4.1.10 No plant species considered of conservation importance / concern was reported in the Subject Site or 500m Assessment Area in reviewed literatures.

Birds

- 4.1.11 Only four bird species of conservation importance were recorded in the Subject Site during the EIA stage (AEIAR-205/2017). These waterbird species were only present in low abundance. No bird species of conservation importance was reported in the Subject Site in other reviewed literatures.
- 4.1.12 Twenty bird species recorded in the Assessment Area during the EIA Stage were considered of conservation importance. These bird species were mainly recorded both in pond habitats and the Ngau Tam Mei Drainage Channel (hereafter NTMDC).

- 4.1.13 Yau Mei Site is located about 350m to the north of the present Subject Site. The 500m distance of YMST EIA covered the northern half of the present Assessment Area, including the urbanized/disturbed habitat of the Subject Site. Ecological surveys were conducted between September 2007 and August 2008. Thirty-five bird species of conservation importance were recorded in this EIA study (**Table 1**). The bird species of conservation importance were mostly waterbirds (e.g., Northern Shoveler *Anas clypeata*, Yellow Bittern *Ixobrychus sinensis*). These waterbird species were recorded in a variety of habitats, e.g., agricultural land, drainage channel, fishpond habitat, but only moderate numbers of common wetland-dependent species were present in the NTMDC south of the project area.
- 4.1.14 Ecological surveys of the REC Site EIA were conducted between January 2009 and July 2009 and between August 2010 and January 2011. Twenty-seven bird species of conservation importance were recorded in this EIA study. The bird species of conservation importance were mostly waterbirds (e.g., Black-faced Spoonbill *Platalea minor*). The NTMDC, despite of its concreted bottom and regular human disturbance, supported moderate abundance of foraging ardeids, particularly during low tides in winter.
- 4.1.15 During the R(D) Site EcoIA, 26 bird species of conservation importance were recorded. The NTMDC was found to provide foraging habitats to ardeids in winter. Food items might be brought in the NTMDC by tides. High counts of ardeids were occasionally recorded during dry season.
- 4.1.16 Ecological surveys of "Light Public Housing at Yau Pok Road, Yuen Long" were carried out in December 2022. Nine bird species were considered of conservation importance were recorded. These bird species were mainly recorded in NTMDC.
- 4.1.17 Fifteen bird species were considered of conservation importance were recorded in habitats outside the Subject Site in 2023 (Appendix 1). All were waterbird species, including Northern Shoveler Anas clypeata, Eurasian Wigeon Mareca penelope, Little Grebe Tachybaptus ruficollis, Black-crowned Night Heron Nycticorax nycticorax, Chinese Pond Heron Ardeola bacchus, Grey Heron Ardea cinerea, Great Egret Ardea alba, Little Egret Egretta garzetta, Great Cormorant Phalacrocorax carbo, Black Kite Milvus migrans, Pied Avocet Recurvirostra avosetta, Common Greenshank Tringa nebularia, Common Redshank Tringa tetanus and Black-winged Stilt Himantopus himantopus. As in the EIA stage, these bird species of conservation importance were mostly recorded in the NTMDC and pond habitats.
- 4.1.18 Ecological surveys of "S12A Planning Application Mai Po & Fairview Park OZP No. S/YL-MP/8 Rezoning from "Residential (Group D)" to "Residential (Group C) 1" (Y/YL-MP/10) were carried out between January and May 2024. Twenty-six bird species considered of conservation importance were recorded.
- 4.1.19 Twenty-six bird species were considered of conservation importance were recorded in habitats outside the Subject Site during the ecological monitoring of the Light Public Housing at Yau Pok Road between April 2024 and June 2025. Most of these bird species were waterbird species. Most of these waterbird species were recorded in NTMDC, flood storage pond and temporary pond of YMST. More than half of the waterbirds (51.5%) recorded in NTMDC between April 2024 and June 2025 were ardeids. Ardeids are known to be able to tolerate high levels of disturbance and human activities (Lansdown *et al.* 2000). Abundance of waterbirds recorded in the temporary pond of YMST was low. Apart from the survey in April 2024, number of waterbirds recorded during the monthly monitoring surveys was lower than 10 birds between April 2024 and June 2025.
- 4.1.20 During the EIA stage (AEIAR-205/2017), no major flight line of waterbirds was observed over the Subject Site. Waterbirds mainly flew along the drainage channel

- within the Assessment Area. Very few birds (2.4% of total observed) flew across the Subject Site as it and the surroundings were mainly urbanized/disturbed area, which supported low bird abundance. Area of urbanized/disturbed near the Subject Site increased after the construction of light public house in 2024. This change might further reduce the flight activities across the Subject Site.
- 4.1.21 The flight line surveys of other previous studies (REC Site EIA, YMST EIA, R(D) Site EcolA) also revealed that waterbirds mainly flew along NTMDC. The flight zone above the Subject Site was rarely used by waterbirds. During the most recent study carried out in the S12A Planning Application Mai Po & Fairview Park OZP No. S/YL-MP/8 (Y/YL-MP/10), same flight pattern was observed. Only two flight lines were identified above the Subject Site. One of those merely passed across the northern fringe of the Site. A north-southwest flight line across the Site was recorded, but this flight line only accounted for 4.36% of total observed birds.

Other Terrestrial Fauna

4.1.22 Significant observations of other terrestrial fauna within the 500m Assessment Area from reviewed literature included Japanese Pipistrelle *Pipistrellus abramus*, Javan Mongoose *Herpestes javanicus*, Many-banded Krait *Bungarus multicinctus*, King Cobra *Ophiophagus hannah*, Chinese Bullfrog *Hoplobatrachus rugulosus*, Pale Palm Dart *Telicota colon*, Plain Hedge Blue *Celastrina lavendularis*, Danaid Eggfly *Hypolimnas misippus*, Scarlet Basker *Urothemis signata* and Coastal Glider *Macrodiplax cora*. Records of these species were only present in very low abundance and irregularly recorded.

Aquatic Fauna

4.1.23 There was no significant observation in the Subject Site or 500m Assessment Area from the reviewed literatures.

Table 1 Fauna Species of Conservation Importance from Previous Studies

Fauna	YMST EIA ¹	REC Site EIA ²	R(D) Site EcolA ³	EIA Stage AEIAR- 205/2017 ⁴	Yau Pok Light Public House ⁵	2023 Ecological survey	R(D) Site S12A Y/YL- MP/10	Yau Pok On-going monitoring survey	Local/ Regional/ International Conservation Status ⁶	Commonness & distribution in Hong Kong ⁶
Mammal										
Japanese Pipistrelle Pipistrells abramus		+		+		+			WAPO	Widely distributed throughout Hong Kong
Small Asian Mongoose Herpestes javanicus		+							WAPO	Fairly widely distributed in countryside areas in the New Territories.
Birds				_						
Common Teal Anas crecca	+	+	+		+				WAPO; RC	Common winter visitor. Found in Deep Bay area, Shuen Wan, Tai Lam Chung Reservoir, Victoria Harbour, Urban Park.
Northern Shoveler Spatula clypeata	+				+	+	+	+	WAPO; RC	Abundant winter visitor. Found in Deep Bay area
Eurasian Wigeon Mareca penelope						+		+	WAPO; RC	Abundant winter visitor. Found in Deep Bay area, Tai Lam Chung.
Mallad Anas platyrhynchos							+		WAPO, RC	Scarce winter visitor. Found in Deep Bay area, Tai Lam Chung, Hok Tau Reservoirs, Tolo Harbour, Nam Chung, Long Valley, Kam Tin.
Eurasian Pintail Anas acuta								+	WAPO, RC	Abundant winter visitor. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin.
Little Grebe Tachybaptus ruficollis	+	+	+	+		+	+		WAPO; LC	Common resident. Found in Deep Bay area.
Black-faced Spoonbill Platalea minor	+	+	+	+				+	IUCN: endangered; WAPO; PGC	Common winter visitor. Found in Deep Bay area.
Yellow Bittern Ixobrychus sinensis	+							+	WAPO; (LC)	Uncommon summer visitor and passage migrant. Found in Deep Bay area, Chek Keng, Tai Long Wan.
Cinnamon Bittern Ixobrychus cinnamomeus	+						+		WAPO; LC	Uncommon passage migrant and scarce summer visitor. Found in Deep

Fauna	YMST EIA ¹	REC Site EIA ²	R(D) Site EcolA ³	EIA Stage AEIAR- 205/2017 ⁴	Yau Pok Light Public House ⁵	2023 Ecological survey	R(D) Site S12A Y/YL- MP/10	Yau Pok On-going monitoring survey	Local/ Regional/ International Conservation Status ⁶	Commonness & distribution in Hong Kong ⁶
										Bay area, Long Valley, Tai Yuen (Sheung Shui), Pui O.
Black-crowned Night Heron Nycticorax nycticorax	+	+	+	+		+	+	+	WAPO; (LC)	Common resident and migrant. Widely distributed in Hong Kong
Striated Heron Butorides striatus	+								WAPO; (LC)	Common summer visitor. Widely distributed in Hong Kong.
Chinese Pond Heron Ardeola bacchus	+	+	+	+	+	+	+	+	WAPO; PRC (RC)	Common resident. Widely distributed in Hong Kong.
Grey Heron Ardea cinerea	+	+	+	+	+	+	+	+	WAPO; PRC	Common winter visitor. Found in Deep Bay area, Starling Inlet, Kowloon Park, Cape D'Aguilar.
Purple Heron Ardea purpurea	+	+		+					WAPO; RC	Uncommon passage migrant. Found in Deep Bay area.
Great Egret Ardea abla	+	+	+	+	+	+	+	+	WAPO; PRC (RC)	Common resident and winter visitor. Widely distributed in Hong Kong.
Intermediate Egret Ardea intermedia	+	+	+				+	+	WAPO; RC	Resident and passage migrant. Found in Deep Bay area, Tai Long Wan, Starling Inlet, Tai O, Cape D'Aguilar.
Little Egret Egretta garzetta	+	+	+	+	+	+	+	+	WAPO; PRC (RC)	Common resident, migrant and winter visitor. Widely distributed in coastal area throughout Hong Kong.
Eastern Cattle Egret Bubulcus coromandus				+				+	WAPO (Cap 170); (LC)	Resident and common passage migrant. Widely distributed in Hong Kong
Great Cormorant Phalacrocorax carbo	+	+	+	+		+	+	+	WAPO; PRC	Common winter visitor. Widely distributed in coastal areas throughout Hong Kong.
Black Kite Milvus migrans	+			+		+	+	+	WAPO; (RC)	Common resident and winter visitor. Widely distributed in Hong Kong.
Besra Accipiter virgatus							+		WAPO (Cap 170); Class 2 Protected Animal of China;	Common resident and migrant. Found in Tai Po Kau, Deep Bay area, Chek Lap Kok, Cheung Chau, Soko Islands

Found	YMST	REC Site	R(D)	EIA Stage	Yau Pok	2023	R(D) Site	Yau Pok	Local/ Regional/	Commonness & distribution in
Fauna	EIA 1	EIA ²	Site	AEIAR-	Light Public	Ecological	S12A Y/YL-	On-going	International	Hong Kong ⁶
			EcolA ³	205/2017 4	House 5	survey	MP/10	monitoring	Conservation	
								survey	Status ⁶	
									Appendix 2 of CITES	
Common Kestrel				+					WAPO (Cap 170);	Common autumn migrant and winter
Falco tinnunculus									Class 2 Protected	visitor. Widely distributed in Hong
									Animal of China;	Kong
									Appendix 2 of CITES	
Eastern Buzzard				+				+	WAPO (Cap 170);	Common winter visitor. Widely
Buteo japonicus									Class 2 Protected	distributed in Hong Kong
									Animal of China;	
									Appendix 2 of CITES	
Black-winged Stilt	+	+	+			+	+	+	WAPO; RC	Common migrant and wintor visitor.
Himantopus himantopus										Found in Deep Bay area, Long Valley,
										Kam Tin.
Little Ringed Plover	+	+	+	+					WAPO; (LC)	Resident, common winter visitor and
Charadrius dubius										passage migrant. Widely distributed in
										freshwater areas throughout Hong
										Kong.
Greater Painted-snipe	+	+	+				+	+	WAPO; LC	Locally common resident. Found in Ha
Rostratula benghalensis										Tsuen, Lok Ma Chau, Kam Tin, Long
										Valley, Hong Kong Wetland Park.
Pintailed/Swinhoe's Snipe	+	+	+						WAPO; LC	-
Gallinago stenura/megala										
Black-tailed Godwit								+	WAPO; RC	Abundant passage migrant and winter
Limosa limosa										visitor. Found in Deep Bay area.
Common Redshank Tringa				+		+	+	+	WAPO (Cap 170);	Abundant passage migrant and winter
totanus									RC	visitor. Found in Deep Bay area.
Marsh Sandpiper							+		WAPO; RC	Abundant winter visitor and migrant.
Tringa stagnatilis										Found in Deep Bay area, Shuen Wan,
										Long Valley, Kam Tin, Sai Kung.
Common Greenshank	+	+	+		+	+	+	+	WAPO; RC	Abundant winter visitor and migrant.
Tringa nebularia										Found in Deep Bay area.
Wood Sandpiper	+	+	+	+			+	+	WAPO; LC	Common passage migrant and winter
Tringa glareola										visitor. Widely distributed in wetland
										area throughout Hong Kong.

Fauna	YMST	REC Site	R(D)	EIA Stage	Yau Pok	2023	R(D) Site	Yau Pok	Local/ Regional/	Commonness & distribution in
raulia	EIA 1	EIA ²	Site	AEIAR-	Light Public	Ecological	S12A Y/YL-	On-going	International	Hong Kong ⁶
			EcolA 3	205/2017 4	House 5	survey	MP/10	monitoring	Conservation	
								survey	Status 6	
Pied Avocet						+			WAPO; RC	Abundant winter visitor. Found in Deep
Recurvirostra avosetta										Bay area
Black-capped Kingfisher								+	WAPO; (LC)	Uncommon passage migrant and
Halcyon pileata										winter visitor. Widely distributed in
										coastal areas throughout Hong Kong.
White-throated Kingfisher	+	+	+	+		+	+	+	WAPO; (LC)	Common resident. Widely distributed
Halcyon smyrnensis										in coastal areas throughout Hong Kong
Pied Kingfisher	+						+		WAPO; (LC)	Common resident. Widely distributed
Ceryle rudis										in lakes and ponds throughout Hong
										Kong.
Grey-chinned Minivet								+	WAPO, LC	Locally common resident. Found in Tai
Pericrocotus solaris										Po Kau, Shing Mun, Ho Chung,
										Kadoorie Farm & Botanic Garden,
										Tung Ping Chau.
Greater Coucal		+	+	+	+			+	WAPO;	Common resident. Widely distributed
Centropus sinensis									China Red Data Book:	in Hong Kong.
									Vulnerable	
Collared Crow	+	+	+		+		+	+	IUCN: near-	Locally common resident. Found in
Corvus torquatus									threatened;	Inner Deep Bay area, Nam Chung, Kei
									WAPO; LC	Ling Ha, Tai Mei Tuk, Pok Fu Lam,
										Chek lap Kok, Shuen Wan, Lam
										Tsuen.
Chinese Penduline Tit	+						+		WAPO; RC	Common passage migrant and winter
Remiz consobrinus										visitor. Found in Deep Bay area, Tai
										O , Mui Wo, Long Valley, Luk Keng,
										Chek Lap Kok
Red-throated Pipit		+	+						WAPO; LC	Common passage migrant and winter
Anthus cervinus										visitor. Widely distributed in dry
										agricultural areas throughout Hong
										Kong
Pallas's Grasshopper	+	+	+						WAPO; LC	Common autumn passage migrant.
Warbler										Found in wetland areas throughout
Helopsaltes certhiola										Hong Kong

Fauna	YMST EIA ¹	REC Site EIA ²	R(D) Site EcolA ³	EIA Stage AEIAR- 205/2017 ⁴	Yau Pok Light Public House ⁵	2023 Ecological survey	R(D) Site S12A Y/YL- MP/10	Yau Pok On-going monitoring survey	Local/ Regional/ International Conservation Status ⁶	Commonness & distribution in Hong Kong ⁶
Bright-capped Cisticola Cisticola exilis		+	+				+		WAPO; LC	Locally common winter visitor. Widely distributed in grassland throughout Hong Kong.
Zitting Cisticola Cisticola juncidis	+	+	+	+			+		WAPO; LC	Common passage migrant and winter visitor. Widely distributed in grassland throughout Hong Kong.
Collared Crow Corvus torquatus				+					IUCN: near- threatened; WAPO (Cap 170); LC	Locally common resident. Found in Inner Deep Bay area, Nam Chung, Kei Ling Ha, Tai Mei Tuk, Pok Fu Lam, Chek lap Kok, Shuen Wan, Lam Tsuen.
Red-billed Starling Spodiopsar sericeus	+	+	+						WAPO; GC	Abundant winter visitor. Widely distributed in Hong Kong
White-cheeked Starling Spodiopsar cineraceus	+								WAPO; PRC	Locally common winter visitor. Found in Deep Bay area, Kam Tin, Long Valley.
Daurian Starling Agropsar sturninus	+								WAPO; LC	Uncommon autumn passage migrant. Found in Mai Po, Long Valley, Kam Tin, Lam Tsuen, Tolo Harbour area, Kowloon Park, Mui Wo, Ho Chung.
White-shouldered Starling Sturnia sinensis	+	+	+				+		WAPO; (LC)	Locally common passage migrant and uncommon winter visitor. Found in Kam Tin, Deep Bay area, Po Toi Island, Long Valley, Victoria Park, Ho Chung, Ma Tso Lung, Mui Wo, Lam Tsuen Valley.
Bluethroat Luscinia svecica	+								WAPO; LC	Locally common winter visitor. Widely distributed in wet agricultural areas throughout Hong Kong.
Red-throated Pipit Anthus cervinus	+								WAPO; LC	Common winter visitor. Found in Kam Tin, Nam Chung, Shek Kong, Deep Bay area, Ho Chung, Lam Tsuen, Hok Tau, Island House and Kowloon Park.

Fauna	YMST	REC Site	R(D)	EIA Stage	Yau Pok	2023	R(D) Site	Yau Pok	Local/ Regional/	Commonness & distribution in
raulia	EIA 1	EIA ²	Site	AEIAR-	Light Public	Ecological	S12A Y/YL-	On-going	International	Hong Kong ⁶
			EcolA 3	205/2017 4	House 5	survey	MP/10	monitoring	Conservation	
								survey	Status 6	
Chinese Grosbeak	+	+	+						WAPO; LC	Common winter visitor. Found in Kam
Eophona migratoria										Tin, Nam Chung, Shek Kong, Deep
										Bay area, Ho Chung, Lam Tsuen, Hok
										Tau, Island House and Kowloon Park.
Herpetofauna										
King Cobra				+					Appendix 2 of CITES;	Common and widespread in Hong
Ophiophagus hannah									IUCN Red List:	Kong
									Vulnerable	
									China Red Data Book:	
									Critically endangered	
Many-banded Krait	+								China Red Data Book:	Common and widely distributed in
Bungarus multicinctus									Vulnerable PRC	Hong Kong.
Chinese Bullfrog							+		PRC	Widely distributed in Hong Kong
Hoplobatrachus rugulosus										
Butterfly										
Pale Palm Dart		+	+						LC	Widely distributed throughout Hong
Telicota colon										Kong.
Plain Hedge Blue	+								LC	Chuen Lung, Kap Lung, Tai Po Kau,
Celastrina lavendularis										Shing Mun Country Park, Tai Lam
										Country Park, Kadoorie Farm and
										Botanic Garden, Ngau Ngak Shan.
Danaid Egg-fly	+	+	+						LC	Ngau Ngak Shan, Lung Kwu Tan,
Hypolimnas misippus										Hong Kong Wetland Park, Mount
										Parker, Cloudy Hill, Lin Ma Hang.
Dragonfly										
Coastal Glider	+	+	+						LC	Frequents marshes and ponds with
Macrodiplax cora										dense vegetation, especially adjacent
										to coastal areas.
Scarlet Basker	+	+	+						LC	Common in areas with abandoned fish
Urothemis signata										ponds throughout Hong Kong.

^{1:} ENVIRON Hong Kong Limited (2015); 2: ENVIRON Hong Kong Limited (2013); 3: AEC (2014); 4: Glory Queen (2016); 5: Atkins (2023); 6: AFCD (2022)

LC = local concern, PRC = potential regional concern, RC = regional concern, GC = global concern; Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes *et al.*,2002).

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5. Results of Habitat Mapping

5.1.1 Habitats identified within the Subject Area in 2025 included plantation and urbanised/disturbed area (**Figures 1 & 2**, **Table 2**). Most area of the Subject Site was concrete paved and operated as public vehicle park. Plantations were mainly found on the engineering slope on the northern fringe of the Subject Site.

Table 2 Habitats recorded within the Subject Site

Habitats	Size (ha)	Percentage (%)
Plantation	0.27	7.14
Urbanised/Disturbed	3.51	92.86
Total	3.78	100

5.1.2 Habitats recorded within the Assessment Area included plantation, agricultural land, grassland, pond (fishpond and flood storage pond), drainage channel/nullah, reed and urbanised/disturbed (**Figures 1 & 3, Table 3**). Coverage of urbanised/disturbed habitat increased since the EIA stage and made up more than three quarters (77.56%) of the total area of the 500m Assessment Area. Other habitats within the Assessment Area (e.g., plantation, pond) were mostly fragmented and small in sizes. Another major change was that agricultural land at the northern fringe of the Assessment Area was managed as temporary wetland enhancement area prior to the construction of the Wetland Restoration Area (WRA) of the YMST EIA. This temporary pond is about 400m from the Subject Site and separated from the Subject Site by other habitats in between.

Table 3 Habitats recorded within the 500m Assessment Area (excluding Subject Site)

Habitats	Size (ha)	Percentage (%)
Plantation	4.52	3.54
Agricultural Land	0.13	0.10
Grassland	9.13	7.14
Urbanised/Disturbed	99.15	77.56
Pond (fishpond & flood storage pond)	8.88	6.95
Reed	0.13	0.10
Drainage Channel / Nullah	5.90	4.61
Total	127.84	100

6. Evaluation of Habitats and Species of Conservation Importance

6.1.1 The Subject Site is adjacent to the R(D) Site and located at the opposite site of the NTMDC of the REC Site (also the project area of Yau Pok Light Public House). The 500m Assessment Area of the Subject Site in fact largely overlapped with those of ecological studies carried out for development projects in the R(D) and REC Sites. Hence habitats within similar areas were ranked in these studies and the current application (i.e., also in AEIAR-205/12017).

6.1.2 The Subject Site fell within the assessment areas of previous studies conducted for the R(D) and REC Sites. Habitats identified within the Subject Site in 2025 included urbanised/disturbed and plantation. The ecological values of urbanised/disturbed and plantation habitats in EIA stage and 2023 were same as to those evaluated in studies performed for the R(D) and REC Sites (Table 4).

Table 4 Comparison of ranking of ecological value of habitats within the Subject

Habitat	REC Site	R(D) Site EcolA	AEIAR-	2023	Light Public	Planning
	(Survey period:	(Survey period:	205/2017	Ecological	Housing at Yau	Application Mai
	Jan 2009 - July	Jan 2009 - July	(Survey period:	Surveys	Pok Road	Po & Fairview
	2011)	2011)	Jul 2009 – Jun	(Survey period:	(Survey period:	Park OZP No.
			2010, Feb -	Feb - Jul 2023)	December	S/YL-MP/8
			Mar 2011, Jul		2022)	(Y/YL-MP/10)
			2014, Nov –			(Survey period:
			Dec 2015,			Jan – May
			Jan 2016)			2024)
Urbanised/disturbed	Very Low					
Plantation	Very Low					

- 6.1.3 Ecological value of habitats within the Assessment Area in 2023 (Appendix 1) remained largely similar to that of EIA stage, and ranked in other studies (Table 5). The ecological values of habitats were largely similar. Habitats of "moderate" ecological value included NTMDC and temporary pond of YMST project. The other habitats were ranked as value of "low to moderate", "low" or "very low".
- 6.1.4 With the increase of coverage of urbanised/disturbed habitats (i.e., also human activities), waterbirds utilising the wetland habitats in 500m Assessment Area are more disturbance tolerant compared to other wetland habitats in Hong Kong. The ecological value of agricultural land at the northern fringe of the 500m Assessment Area is managed as the temporary pond of YMST project, and the ecological value increased from "low to moderate" to "moderate". However, this pond will only exist temporarily. Once the Wetland Restoration Area of the YMST project operates, the pond will be filled for development.
- 6.1.5 Ecological values of habitats within the Subject Site and 500m Assessment Area remained largely similar over years. It is likely that the ecological values of habitats within the Subject Site and Assessment Area remained similar in 2025.
- Previous studies consistently revealed that the main issue within this area is waterbird. 6.1.6 Sensitive receivers of the current application will include waterbirds utilising the NTMDC and the temporary pond of YMST, and flight line of waterbirds along the NTMDC.

Table 5 Comparison of ranking of ecological value of habitats within the **Assessment Area**

Habitat	REC Site	R(D) Site EcolA	AEIAR-	2023	Light Public	Planning
	(Survey period:	(Survey period:	205/2017	Ecological	Housing at Yau	Application Mai
	Jan 2009 - July	Jan 2009 - July	(Survey period:	Surveys	Pok Road	Po & Fairview
	2011)	2011)	Jul 2009 – Jun	(Survey period:	(Survey period:	Park OZP No.
			2010, Feb -	Feb - Jul 2023)	December	S/YL-MP/8
			Mar 2011, Jul		2022)	(Y/YL-MP/10)
			2014, Nov –			(Survey period:
			Dec 2015,			Jan – May
			Jan 2016)			2024)
Plantation	Very Low					
Agricultural Land	Low to	Low	Low to	Those managed	Low	East of NTMDC:
	moderate		moderate	as Temporary		Low;
				Pond of YMST		West of
				Project:		NTMDC: Low to
				Moderate;		Moderate
				Others: Low to		
				moderate		
Grassland*	Low to	Low	Low to	Low to	Low	Low
	moderate		moderate	moderate		
Urbanised/Disturbed	Very Low					
Pond	Low	Low	Low to	Low to	Temporary	Temporary
			moderate	moderate	Pond of YMST	Pond of YMST
					EIA: Moderate;	EIA: Moderate;
					Others: Low	Others: Low
Nullah	Low	Low	Low	Low	Low	Low
Drainage Channel	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Reed**	Low	Low	Low to	Low to	Low	Low to
			moderate	moderate		Moderate

^{*} mapped as "grassland/shrubland" in REC Site, R(D) Site EcolA and AEIAR 205/2017

7. Impact Identification and Evaluation

7.1 Proposed Construction Works

7.1.1 The potential impacts to terrestrial and aquatic habitats arising from the construction works, including direct loss of habitats and indirect disturbance to habitats and associated wildlife, were assessed in accordance with Annexes 8 and 16 of the EIAO-TM. The main revisions of the layout plan of the current application from the EIA stage are the construction of medium rise buildings and increase of population.

7.2 Construction Phase Impacts

Direct Habitat Loss and Direct Impact to Fauna species of Conservation Importance

- 7.2.1 The Subject Site was covered by habitats of very low ecological value. The ecological impact of loss of these habitats is considered **insignificant** (**Table 6**). No mitigation for loss of these habitats is required.
- 7.2.2 The reviewed previous studies showed that there is no important habitat for fauna species of conservation importance within the Subject Site. Potential impact to species of conservation importance due to loss of the habitats in the Subject Site is considered **Insignificant**.

^{**} mapped as "grassland/shrubland" and "grassland" in AEIAR205/2017 and 2023 Ecological Surveys respectively

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Table 6 Potential direct ecological impacts to existing habitat within the Subject Site

Criteria	Urbanised/disturbed	Plantation
Habitat Quality*	Very low	Very low
Species*	Low flora and fauna diversity; No floral species of conservation from Fauna species of conservation import Japanese Pipistrelle, Little Grebe, Ch	tance from previous studies:
Size/ Abundance	Grey Heron. All were present in verification. Major habitat loss in the Subject Site: 3.51ha; Low faunal abundance	Very small: 0.27 ha; Very low faunal abundance
Duration	Permanent loss of existing habitat	Permanent loss of existing habitat
Reversibility	Habitat loss would be permanent and irreversible.	Habitat loss would be permanent and irreversible.
Magnitude	Insignificant	Insignificant
Overall Impact Severity without Mitigation	Insignificant	Insignificant

^{*} based on 2023 Ecological Surveys and previous studies

Indirect disturbance Impact due to Construction Disturbance

- 7.2.3 The construction activities, including excavation and piling during foundation works, and materials loading/unloading, and concreting during superstructure works, are likely to produce noise and cause disturbance.
- 7.2.4 The immediate surroundings of the Subject Site are mostly urbanized/disturbed habitat, which is considered of very low ecological value. Other habitat types near the Subject Site included grassland (low to moderate ecological value), flood storage pond (low to moderate ecological value) and NTMDC. Grassland and flood storage pond are of low to moderate ecological value. The NTMDC and temporary pond of YMST project are ranked of moderate ecological value. The latter is away from (about 400m) the Subject Site. The major concern would be the potential disturbance to waterbirds utilising the NTMDC, which is near the Subject Site, during the wintering season.
- 7.2.5 Traditional percussive piling method, which will cause significant noise and vibration, will be avoided. Alternative piling method (non-percussive piling methods) that are quieter than the percussive piling method causing less shocks or vibrations, will be adopted as mitigation. With the adoption of non-percussive piling method, it is expected that the disturbance impact to fauna utilizing the habitats near the Subject Site, particularly NTMDC, will be reduced from **Moderate** to **Minor**.

- 7.2.6 There will be a setback area of 50m between the buildings and NTMDC. The setback area will increase the distance between buildings and NTMDC, and hence will reduce the potential disturbance to NTMDC and associated fauna during both construction and operation phases. Potential disturbance to flight line along the NTMDC will also be minimised by the setback area during both construction and operation phases.
- 7.2.7 Hoarding with colour blending with the environment has already been erected during site preparation works of previous approved layout. These hoardings will delineate the works site boundary can screen disturbance to the nearby habitats during construction phase. The workers will be instructed not to disturb any nearby habitats. Furthermore, the site boundary will be clearly defined and any works beyond the boundary would be strictly prohibited.
- 7.2.8 Potential impacts due to indirect disturbance including noise, dust and runoff will be mitigated by measures recommended in relevant chapters of this application.

Potential Impact to Recognized Sites of Conservation Importance

- 7.2.9 The Subject Site is located outside WBA and is 520m away from the WCA. Construction works will not affect the ecological integrity of the fishponds and wetlands within WCA, or cause directly habitat loss in WBA or WCA.
- 7.2.10 Other recognized sites of conservation importance in Northwest New Territories, including the Mai Po Inner Deep Bay Ramsar Site, Mai Po Nature Reserve, Mai Po Village SSSI, Mai Po Marshes SSSI, are further away from the Subject Site, and also sheltered from the Subject Site by other developed areas in between. Construction disturbance from the proposed project will be localized, reversible and short-term. The potential impact to these recognized sites of conservation importance is considered **Insignificant**.

Indirect Impact to Species of Conservation Importance

7.2.11 Construction works will affect the habitats adjacent to the Subject Site, including grassland, flood storage pond and NTMDC. Utilisation of these habitats by these fauna species might be affected by the construction works (e.g., noise, dust, runoff). Potential disturbance due to construction works to these species will be mitigated by measures described in **Section 8** of this chapter.

7.3 Operational Phase Impacts

7.3.1 Potential impacts during operational phase will include human activities and noise, traffic, artificial lightings and noise barriers.

Human activities and Noise

- 7.3.2 Although the current application will result in higher population, human activities will mainly be indoors and noise from residential houses will be screened by walls of houses and fence wall of the Subject Site. Adverse impact to fauna of surrounding habitats due to human activities is not expected.
- 7.3.3 High counts of waterbirds were occasionally recorded in the NTMDC near the Subject Site at low tides in dry season. However, due to the long distance of setback area, indoors human activities in the buildings are not likely to affect the waterbirds utilising

the NTMDC. In addition, mudflat in the NTMDC is lower in elevation and birds foraging in these habitats might not be able to see the human activities in the Subject Site. Furthermore, as revealed by ecological monitoring of the Light Public Housing at Yau Pok Road between April 2024 and June 2025. More than half of the waterbird species recorded in NTMDC were ardeids. Ardeids are known to be able to tolerate high levels of disturbance and human activities (Lansdown *et al.* 2000). Severe impact to waterbirds utilising the NTMDC due to human activities in the Subject Site is not expected.

- 7.3.4 The Tin Shui Wai channel is near high-rise buildings of more than 28 storeys of housing areas (e.g., Tin Yan, Tin Chak). Utilisation of this channel by Black-faced Spoonbills is reported in social media, e.g., 83 birds on 9 February 2025, 107 birds on 10 February 2025, 63 birds on 15 February 2025. These observations showed that even waterbird species of conservation importance do not avoid wetland habitats near high-rise buildings and high level of human activities. Uses of foraging habitats by waterbirds (including Black-faced Spoonbill) within the sight of Castle Peak Road was reported in "EcolA for Proposed Residential Development within R(D) zone at Various Lots in DD 104 and Adjoining G.L. Yuen Long, N.T. (Y/YL-MP/6 and Y/YL-MP/10)". This example showed that waterbird species of conservation importance do not avoid wetland habitats subjected to high level of traffic activities.
- 7.3.5 The Subject Site and the surrounding area are mainly composed of urbanized/disturbed, which is subjected to the high level of disturbance (e.g., noise of existing traffic). Fauna in the surrounding habitats have been habituated to disturbance from noise. Waterbirds in NTMDC and other wetlands in Assessment Area are already habituated to the relatively high levels of existing human activity compared to other wetlands in Hong Kong. In fact, the two sides of the NTMDC are adjacent to roads (i.e., Yau Pok Road and Kam Pok Road). Due to the existing traffic on these roads, significant increase in human activities near the NTMDC is not expected during operational phase. Also, it is not expected that all residents would go out or stay in open areas at the same time. Waterbirds in NTMDC is not expected to be adversely affected by increase human activities.
- 7.3.6 The Temporary Pond of YMST is about 400m from the Subject Site. Fauna utilising habitats in this pond is not likely to be affected by noise and human activities from the Subject Site due to the long distance. In addition, the interface of between the pond and Yau Pok Road is fenced and screened by tall vegetation. This will further reduce disturbance to fauna in this pond by human activities.
- 7.3.7 Potential impact to fauna of surrounding habitats due to human activities and noise is ranked as **Insignificant**.

Traffic Noise and Disturbance

7.3.8 Traffic flow will increase during operational phase. Traffic in-and-out of the Subject Site will mainly make use of Kam Pok Road. Traffic activities on Kam Rok Road will be separated from the temporary pond of YMST by the NTMDC and hence will not adversely affect the fauna utilising this area. Traffic will potentially cause disturbance to habitats along the Kam Pok Road, including urbanized/disturbed, grassland, flood storage pond, upstream section of NTMDC and agricultural land. These habitats are already subjected to the existing disturbance from traffic of Kam Pok Road and Yau Pok Road. Hence, the increase of traffic flow will only be quantitative change, rather than a qualitative change. In addition, traffic peak hours will only occasionally coincide with peak bird activities in NTMDC (which is related to tidal cycle). The potential impact to surrounding habitats and associated fauna due to traffic noise during operation phase will be **Insignificant**. No mitigation measure is necessary.

Runoff and drainage/effluent discharge

7.3.9 The potential impacts of surface runoff and drainage/effluent discharge have been addressed in relevant chapters of this application.

Habitat Fragmentation

7.3.10 The east and west parts of the Assessment Area are already fragmented by the drainage channel in existing condition. The Subject Site is mainly surrounded by urbanized/disturbed, which support low abundance of fauna. Frequent movement of wildlife through the Subject Site in existing condition is not expected. The proposed development project will only convert urbanized/disturbed habitat to residential landscape area during operational phase and hence will not cause additional habitat discontinuities. The potential impact due to habitat fragmentation is anticipated to be **Insignificant**.

Artificial Lightings

7.3.11 The Assessment Area is mostly developed and the building is 50m away from the nullah. Residential buildings and other lighting sources are already present in localities near the Subject Site for long and fauna inhabiting in nearby habitats have probably habituated to lighting or avoided these areas. Light public houses to the west of the NTMDC built recently resulted in further increase of developed area and amount of artificial lightings in the Assessment Area. Lights from the residential buildings in the Subject Site are not expected to be very strong and cause significant additional lighting impact. Other lightings in the Subject Site will only be directed to target areas and lighting will be kept to minimum lux level for safety. Potential impacts to fauna from this source are ranked as **Insignificant**.

Barrier Effect to Bird Flight

- 7.3.12 As revealed from reviewed literature, the flight zone above the Subject Site was rarely used by waterbirds. Large waterbirds mainly flew along the NTMDC within the Assessment Area. There will be setback area of 50m between the buildings in the Subject Site and the NTMDC. Flights of waterbirds will not be impeded by buildings in the Subject Site. The potential impact due to barrier to the flight of birds is considered **Insignificant**.
- 7.3.13 Ecological surveys of the S12A Planning Application Mai Po & Fairview Park OZP No. S/YL-MP/8 (Y/YL-MP/10) identified two minor flight lines were above the Subject Site. The flight line passed near the northern fringe of the Subject Site will not be impeded by buildings. There will be a north to southwest wind corridor in the Subject Site during operation phase, and could be used by waterbirds as flight line across the Subject Site.

Noise Barrier and Bird Collision

7.3.14 No major flight line was observed over the Subject Site during the field surveys. Due to the disturbed nature of the Subject Site and surrounding areas, the Subject Site is not considered as important ecological corridor. Building materials such as are opaque, non-reflective panels with color will be used for construction of noise barriers (if needed) to reduce the risk of bird collision. The potential risk of bird collision is anticipated to be **Insignificant**.

Landscape Planting

7.3.15 The Subject Site was mostly devoid of vegetation cover and only surrounded by narrow strips of plantation of an exotic species *Leucaena leucocephala*. These vegetation cover made up of exotic plant species generally support low diversity of fauna. Some trees of existing plantation will be preserved in the current application.

7.3.16 Vegetation cover in the Subject Site will increase from about 7% of existing condition to not be less than 30% during operational phase. Plant species providing berry (e.g., Ficus microcarpa, Cinnamomum camphora) and nectar (e.g., Bauhinia variegata, Hibiscus rosa) can be included in the planting list. Plants producing berry will enhance the food resources of birds. Nectar plants will also provide food resources for butterflies. Both fauna groups will benefit from landscape planting. The planting of trees will also provide roosting habitats for birds. The potential impact of replacement of existing plantation by landscape planting to birds and butterflies will be **positive**.

Potential Impact to Recognized Sites of Conservation Importance

7.3.17 Regarding the potential disturbance impacts during operational phase to recognised sites of conservation importance in Northwest New Territories, including the Mai Po Inner Deep Bay Ramsar Site, Mai Po Nature Reserve, Mai Po Village SSSI Egretry, Mai Po Lung Egretry, Mai Po Marshes SSSI, Wetland Conservation Area and Wetland Buffer Area, it is considered unlikely as the Subject Site is separated from these sites by long distances. Disturbance of noise and artificial lighting from the residential buildings will be confined to areas adjacent to the Subject Site. The potential impact to these sites from the development project during operational phase is considered **Insignificant**.

Potential Impact to Species of Conservation Importance

- 7.3.18 The Project will provide residential areas during operational phase. The building layout with 50m buffer area will design out any intense disturbance is not anticipated. The club house is located far further away with more 100m from the nullah so human activities inside the Subject Site will be screened by the wall of buildings, fence wall and landscape buffer. Traffic peak hours will only occasionally coincide with peak bird activity, which changes with tidal levels. Potential impact affecting the utilization of habitats surrounding the Subject Site by the fauna species of conservation importance listed in **Table** is considered **Insignificant**.
- 7.3.19 Potential impacts during both construction and operational phases are summarised in **Table 7**.

Table 7 Summary of Potential Impact During Construction and Operational Phases

Impact	Source	Receiver			Significance of an ecological impact	Mitigation Required				
			Habitat quality	Species affected	Size- abundance	Duration	Reversibility	Magnitude		
Construction pha	se									
Terrestrial habitat loss	Construction works	Urbanised/di sturbed		Low diversity of flora and fauna One species of conservation importance recorded from previous studies	3.51 ha	Permanent	Irreversible	Insignificant	Insignificant	No
		Plantation		Low diversity of flora and fauna	0.27ha	Permanent	Irreversible	Insignificant	Insignificant	No

Construction disturbance	Construction works	urbanised/dsit urbed, flood storage pond, grassland,	urbanised/disturbe d; Low to moderate for grassland and	Mostly common species, but some are of conservation importance	Moderate bird abundance in NTMDC, low/very low fauna abundance in other habitats	Temporary	Transient and reversible		occassionally utilising the NTMDC if traditional percussive piling method is used	Yes Use of non-percussive piling method; Use of quiet/silenced equipment (QPMEs); Provision of mobile noise barriers in adjacent to construction plants or provision of acoustic screens by the
		including urbanised/dsit urbed, flood storage pond, grassland,	for grassland and flood storage pond; Moderate for		fauna abundance in				NTMDC if traditional percussive piling method is used	equipment (QPMEs); Provision of mobile noise barriers in adjacent to construction plants or provision of acoustic
Light glare	Construction works	Surrounding habitats and associated fauna, including urbanised/dsi turbed, flood		Mostly common species, but some are of conservation importance	Low abundance	Temporary	Transient and reversible	Low	Insignificant	No

Impact	Source	Receiver			Significance of an ecological impact	Mitigation Required				
			Habitat quality	Species affected	Size- abundance	Duration	Reversibility	Magnitude		
		pond, grassland,	flood storage pond; Moderate for NTMDC							
Site runoff	Construction works	Ngau Tam Mei Drainage Channel		Mostly common species, but some are of conservation importance	Low abundance	Temporary			minor to moderate	Yes, by implementation of Good Site Practice

Impact	Source	Receiver			Significance of an ecological impact	Mitigation Required				
			Habitat quality	Species affected	Size- abundance	Duration	Reversibility	Magnitude		
Traffic noise, human activities		habitat, grassland,a gricultural land, flood storage pond, NTMDC and temporary pond of YMST	urbanised/disturb ed;	Mostly common species, but some are of conservation importance	Low abundance	Permanent	Irreversible	Low	Insignificant	No

Runoff, drainage Proposed development Ngau Tam Moderate Mostly common Low abundance Permanent Irreversible Low Insignificant Discharge through sci	•
	reening
Drainage are of conservation facilities su	•
Statings Statings Idea of Conditional Idea of Conditional	uch as
Channel importance standard g	gully grating
and trash o	grille,
Discharge	of the
sewage wil	ill be
eventually	pomped to
YLEPP, an	nd will follow
the require	ement of no
net increas	se of
pollution lo	oading
There will b	be no
adverse im	npact on
water quali	•
	,
Habitat Proposed development Fauna Vary with habitat Mostly common Low Permanent Irreversible Low Insignificant No.	
fragmentation inhabiting types, mostly are species The Projection	ct will convert
the habitats of low ecological disturbed h	
within the value residential	areas, and
will not cau	

Impact	Source	Receiver			Significance of an ecological impact	Mitigation Required				
			Habitat quality	Species affected	Size- abundance	Duration	Reversibility	Magnitude		
		Assessment								fragmentation of
		Area								continouous habitats.
Artificial light	Lightings in the Subject Site	Nocturnal fauna	Low	Common species	Low	Permanent	Irreversible	Low		No. Areas surrounding the Subject Site are subjected to existing lightings for long time. Fauna sensitive to lightings probably have avoided these areas.

Impact	Source	Receiver			Significance of an ecological impact	Mitigation Required				
			Habitat quality	Species affected	Size- abundance	Duration	Reversibility	Magnitude		
Barrier effect to bird flight	Buildings in the Subject Site	Large waterbirds of low flight manoeuvrab ility	Vary with habitat types, mostly are of low ecological value	,	Low	Permanent	Irreversible	Low	, G	No These birds mostly flew along the Ngau Tam Mei Drainage Channel; Potential impact minimised by the 50m setback area between buildings and the NTMDC

Impact	Source	Receiver			Significance of an ecological impact	Mitigation Required				
			Habitat quality	Species affected	Size- abundance	Duration	Reversibility	Magnitude		
Bird collision	Noise barriers	Birds		Mostly common species	Low	Permanent	Irreversible	Low		Minimise by using materials which are opaque, non-reflective panels with colour for construction of noise barriers (if needed)

8. Mitigation Measures

- 8.1.1 Literature review and ecological surveys showed that high counts of waterbirds occasionally foraged in the NTMDC during low tides in winter. Piling method (non-percussive piling methods) that are quieter than the percussive piling method causing less shocks or vibrations, will be adopted as mitigation). With the adoption of non-percussive piling method, it is expected that the disturbance impact to fauna utilizing the habitats near the Subject Site, particularly NTMDC, could be reduced to **Minor**.
- 8.1.2 Hoarding with colour blending with the environment has already been erected to delineate the works site boundary. These hoardings will screen disturbance to the nearby habitats during construction phase. The workers will be instructed not to disturb any nearby habitats. Furthermore, the site boundary will be clearly defined (i.e. fenced with the screening materials mentioned above) and any works beyond the boundary would be strictly prohibited.
- 8.1.3 Construction noise will be further minimised by the use of quiet/silenced equipment (QPMEs), provision of mobile noise barriers in adjacent to construction plants, or provision of acoustic screens by the Contractor(s). Other measures proposed in compliance with the Noise Control Ordinance will also be enforced and monitored as a mitigation measure under the Noise Impact Assessment.
- 8.1.4 Other indirect construction disturbance (e.g., dust, surface runoff) will be mitigated by measures discussed in relevant chapters of this report.
- 8.1.5 Provision of 50m building setback on the western side measured between the residential towers and the edge of the nullah in NTMDC for planting/landscaping treatment and internal circulation purposes. This layout design will minimize the potential impact to wildlife in the surrounding areas, particularly waterbirds in the NTMDC, during construction and operational phases.
- 8.1.6 Most birds were observed flying along the NTMDC, located on the western side of the Subject Site. The 50m building setback area will minimise the potential impact to bird flight alone the NTMDC. The flight zone above the Subject Site is rarely used by birds. However, there will be a north to southwest wind corridor in the Subject Site during operational phase. This corridor could be used by waterbirds as flight line across the Subject Site during operational phase.
- 8.1.7 Minimization of bird collision will also be taken into account in the design of noise barrier (if needed). Building materials such as opaque, non-reflective panels with colour blend in with the environment will be used for construction of noise barriers to reduce the risk of bird collision, particularly under dim condition (e.g., dusk and dawn) to reduce bird collision.

9. Cumulative Impacts

9.1.1 Potential cumulative impact of habitat loss, construction disturbance, increased human activities and noise, and traffic noise of the Project with other projects in nearby locations are evaluated in the following sections.

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- 9.1.2 There are a few works projects near the Subject Site. These included two planned private development sites as following:
 - "S12A Planning Application Mai Po & Fairview Park OZP No. S/YL-MP/8

 Rezoning from "Residential (Group D)" to "Residential (Group C) 1"

 Zone For Various Lots in D.D. 104 and the Adjoining Government Land in Yuen Long" (Y/YL-MP/10);
 - "Light Public Housing at Yau Pok Road, Yuen Long Project Profile"; and
 - EIA 227/2015 Comprehensive Development and Wetland Protection near Yau Mei San Tsuen, Yuen Long.
- 9.1.3 The current Subject Site is located outside the boundary of WBA. The planning intention of WBA is to protect the ecological integrity of the fishponds and wetlands within WCA and to prevent development that would have a negative off-site impact on the ecological value of those fishponds. This planning intention is therefore not applicable to the Subject Site.
- 9.1.4 The construction of light public houses at the REC Site mainly affected non-wetland habitats (e.g., grassland, urbanised/disturbed). Only very small area and highly fragmented wetland habitats (including 0.22ha reed, 0.5ha pond and 0.1ha seasonal wet grassland) of low or very low ecological value were lost.
- 9.1.5 The proposed development at the YMST Site will affect 4.9ha agricultural land, 1.2ha pond area, 0.9ha marsh, 0.2ha reed bed, 0.2ha grassland/ shrubland, and 0.7ha seasonally wet grassland. All significant impacts would be mitigated by appropriate measures during both the construction and operational phases of the project. A wetland restoration area with long-term management plan will be created.
- 9.1.6 The proposed development at the R(D) Site (Y/YL-MP/10) will be regulated by relevant guidelines, and requirements in the respective zoning intention of Outline Zoning Plan. Therefore, the loss of important habitats due to development in the R(D) Site is not expected.
- 9.1.7 The current application will only cause loss of urbanised/disturbed and plantation, which are of very low ecological value. Cumulative impact of loss of wetland habitat in the Deep Bay area due to the current application and other nearby projects is considered **Insignificant**.
- 9.1.8 The construction disturbance caused by the development projects nearby (i.e., the YMST Site and R(D) Site) will be resolved by the mitigation measures recommended during the EIA studies. Impacts during the construction phase of the current application will also be mitigated by measures recommended in **Section 8**. Hence, the cumulative impact due to construction disturbance from the Project will be **Insignificant**.
- 9.1.9 Human activities in the Subject Site and the other nearby planned developments will be mainly indoors and screened by walls of houses during operation phase. It is not expected that all residents would go out or stay in

open areas at the same time. The proposed development is planned to be a self-contained manner. It will not result in a significant increase in human activities in the surrounding areas during the operational phase. Most areas within the Assessment Area are developed areas and fauna utilizing these habitats are mainly disturbance tolerant. Hence, the potential cumulative increase in disturbance to wildlife due to human activities and noise from the current Project and other nearby projects is considered **Insignificant**.

9.1.10 There is existing traffic in the Assessment Area. The increased traffic flow due to the proposed residential development is not anticipated to impose significant additional impact on waterbirds utilizing NTMDC. NTMDC is located at lower elevation than Kam Pok Road, screened by dense tall existing trees on both sides. Traffic peak hours will only occasionally coincide with peak bird activities in NTMDC. Hence, the cumulative impact due to traffic from the Project will be **Insignificant**.

Cumulative Impact to Sites of Recognized Conservation Importance

9.1.11 The Subject Site is located 1km from the sites of recognized conservation importance (e.g., Mai Po Nature Reserve) in Deep Bay area described in **Section 4**. Therefore, these sites are not likely to be significantly affected during both construction and operation phases of the Project. With the implementation of mitigation measures recommended in **Section 8**, the cumulative impact of disturbance to sites of recognized conservation importance during construction and operational phases will be **Insignificant**.

Cumulative Impact due to effluent/ sewage discharge during Operation Phase

9.1.12 Cumulative impact due to effluent/ sewage discharge from the current Project and other nearby projects to NTMDC has been assessed in relevant chapter of the report. The sewage generated from the current and nearby planned/ approved development projects will be discharged into future public sewerage system, thus no adverse impact is expected.

10. Residual Ecological Impacts

10.1.1 The residual environmental impacts refer to the net environmental impacts after the implementation of mitigation measures. The residual impact will be the loss of 3.51ha of urbanised/disturbed area and 0.27ha of plantation of limited ecological value. The loss of these habitats was considered as **Insignificant** and no corresponding mitigation is required. Potential indirect impacts during both construction and operation phases will be mitigated by the recommended measures. With implementation of landscape planting which will be beneficial to birds and butterflies, the residual ecological impacts of the project are considered acceptable.

11. Impact Summary and Conclusion

11.1.1 The Subject Site is located outside WBA and thus of distance with WCA so there is no critical concern regarding wetland conservation. Habitats map reflects the existing plantation, agricultural land, grassland, fishpond, flood storage pond, drainage channel/nullah, and urbanised/disturbed areas. Ecological baseline established by the literature review and updating habitat survey revealed that no habitat of ecological importance in the Subject Site or

in the vicinity. Potential construction impacts will only involve 3.51ha of urbanised/disturbed area and 0.27ha of plantation. The potential impact of habitat loss was ranked as **Insignificant**. Potential impact to surrounding habitats and associated fauna due to construction disturbance was considered **Moderate**. Mitigation measures including utilization of quieter construction method and machinery will be implemented. Effectiveness of the recommended measures will be evaluated by ecological monitoring surveys.

11.1.2 With the implementation of the recommended mitigation measures, there will be no significant adverse residual impact during construction and operation phases.

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13. Figures

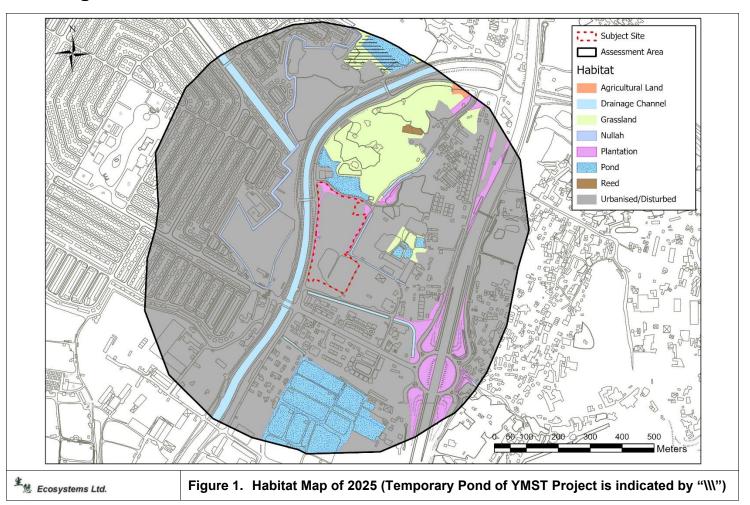


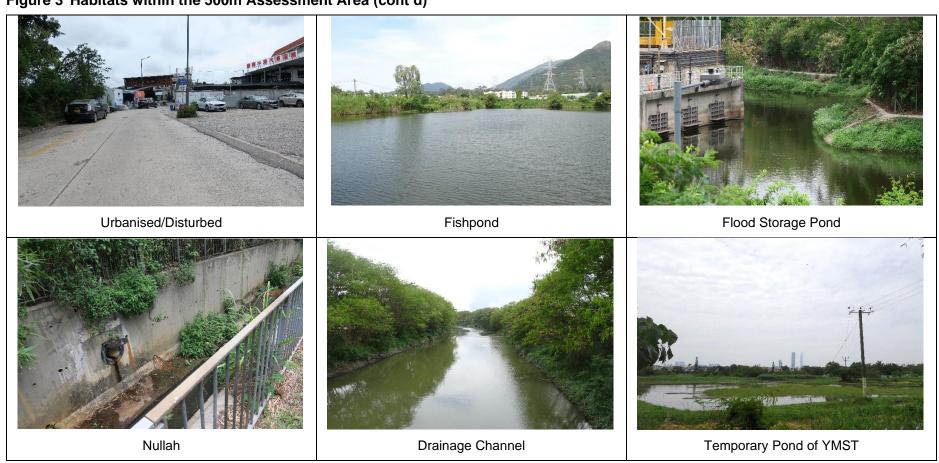
Figure 2 Habitats within the Subject Site



Figure 3 Habitats within the 500m Assessment Area



Figure 3 Habitats within the 500m Assessment Area (cont'd)



14. Appendices

Appendix 1 Ecological Survey Report 2023

Ecological Survey Report 2023

- 1. Basic Project Information
- 1.1.1 The EIA report of the development project "Proposed Low-rise and Low-density Residential Development at Various Lots and their Adjoining Government Land in D.D. 104, East of Kam Pok Road, Mai Po, Yuen Long, N.T." was approved with conditions in January 2017. The Environmental Permit No. EP-515/2017 was awarded in January 2017.
- 1.1.2 The approved Master Layout Plan (hereafter as "the EIA Approved Scheme") was revised in 2023 (hereafter as "the Proposed Scheme"), which mainly involved an increase in number of houses. The Project Area boundary, footprint of the development and height of buildings will remain the same. Both the scale and scope of the Proposed Scheme will be the same as that in the EIA Approved Scheme. The construction methodology, construction activities, and powered mechanical equipment inventory proposed in the EIA Report will also remain valid.
- 1.1.3 This report summarized the findings of the verification survey conducted between February and July 2023, to provide update data for the planning application A/YL-MP/287. Changes of habitat coverage within the Project Area and Assessment Area were reported. Implication of the changes of habitat coverage, if any, on the validity of the impact evaluated in AEIAR-205/2017 was discussed.
- 2. Ecological Surveys
- 2.1.1 Verification surveys for establishment of updated ecological information of the Project Area and 500m Assessment Area of the Project Area were conducted between February and July 2023.
- 2.1.2 Surveys of Habitat Mapping, Vegetation, Mammal, Bird, Herpetofauna, Dragonfly & Butterfly and Aquatic Fauna were conducted (**Table 1**). Survey methodology in Section 8.4 of AEIAR-205/2017 were used. Waterbird was identified as the main ecological issue during the EIA stage. The surveys covered dry season, when both abundance and species richness of waterbirds are generally higher in Hong Kong.

Table 1 Verification Survey Programme between February and July 2023

	Feb	Mar	Apr	May	Jun	Jul
Habitat and Vegetation	10 th , 14 th	9th, 22 nd	6 th		9 th	20 th
Bird	10 th , 14 th , 17 th	9th	6 th , 13 th	4 th , 11 th	9 th , 23 rd	14 th
Mammal	17 th	22 nd	6 th		23 rd	14 th
Herpetofauna	10 th	22 nd	6 th	11 th	23 rd	14 th
Night Survey		9th	6 th	11 th	23 rd	6 th
Butterfly & Dragonfly	10 th	22 nd	6 th , 13 th	11 th	9 th	14 th
Aquatic Fauna	17 th				9 th	

Habitat Mapping

2.1.3 Habitats in the Subject Site and Assessment Area were mapped based on aerial photos and ground truthing. Walk-over surveys were conducted at representative areas of each habitat type. Plant species in each habitat type were identified (with the aid of binoculars when necessary) and their relative

abundance were recorded, with special attention to rare and protected species. Colour photographs were taken of all habitats encountered on site and of ecological features of special importance.

Bird

2.1.4 Bird surveys were conducted monthly during the survey period. The surveys covered both breeding season and overwintering season of birds. Birds within the Subject Site and Assessment Area were surveyed quantitatively using transect count method. All birds seen or heard were identified and their abundance recorded. As some birds (e.g., owls, nightjars) are nocturnal, night surveys were conducted.

Other Terrestrial Fauna

- 2.1.5 Mammals within the Subject Site and Assessment Area were surveyed qualitatively. All sightings, tracks, and signs of mammals found were recorded. As some mammal species (e.g. bats) are nocturnal, night surveys were conducted.
- 2.1.6 Herpetofauna within Subject Site and the Assessment Area were surveyed qualitatively. All reptiles and amphibians sighted were recorded. As herpetofauna are mostly nocturnal and more active during wet season, night surveys were carried out in wet seasons of 2023. Potential microhabitats of herpetofauna such as wall, fallen logs, litter, channel/nullah, fishpond margins, underneath of stones or other materials, artificial container (e.g. pots) were searched during surveys to locate cryptic or secretive herpetofauna species. Amphibians were also identified by their calls during night surveys.
- 2.1.7 Dragonflies and butterflies within Subject Site and the Assessment Area were surveyed quantitatively using the transect count method. Dragonflies and butterflies observed were identified and recorded.

Aquatic Fauna

2.1.8 Aquatic fauna (such as freshwater fish and invertebrates) within the Subject Site and Assessment Area were studied by active searching and direct observation. Baited fish cages were deployed inside the pond within the Subject Site, while direct observations were made at the pond as well as other aquatic habitats (nullah and drainage channel) in the Assessment Area.

3. Survey results

Habitat & Vegetation

3.1.1 Habitats recorded within the Project Area in 2023 included plantation, fishpond (abandoned), and urbanised/disturbed area (Figures 1 & 2, Table 2). Coverage of these habitats was similar to that in EIA stage. Most of the Subject Site was concrete-paved. Plantations mainly made up of exotic species (e.g., Leucaena leucocephala) were found on the engineering slope on the northern fringe of the Subject Site. The pond in the Subject Site was already isolated from the continuous and contiguous Deep Bay wetland system in 1990. There was no sign of operation for fish farming in this pond during the EIA stage. Hence, trash shrimps and fishes, which are abundant in active fishponds during drain-down for harvesting of commercial fishes and attracting many waterbirds, were not available in this fishpond. This pond was still abandoned in 2023. The habitats in the Subject Site supported limited biodiversity (Appendices 1 - 6). A total of 29 plant species were recorded in the Subject Site, 14 of which are exotic species (Appendix 1). None of the recorded plant species was considered of conservation importance / concern.

Table 2 Habitats recorded within the Project Area

Habitat	Size (ha)		
Tiabitat	EIA stage	2023	
Plantation	0.3	0.3	
Urbanised/Disturbed	3.17	3.17	
Fishpond	0.33	0.33	
Total	3.8	3.8	

3.1.2 Habitats recorded within the Assessment Area included plantation, agricultural land, grassland/shrubland, fishpond, drainage channel/nullah, and urbanised/disturbed, (Figures 1 & 3, Table 3). Coverage of these habitats was similar to that in EIA stage. Most of the Assessment Area was still covered by urbanised/disturbed in 2023. Other habitats within the Assessment Area (e.g., plantation, fishpond) were mostly fragmented and small in sizes. A total of 211 plant species were recorded within the Assessment Area, 126 of which are exotic species (Annex 1). No plant species considered of conservation importance / concern was recorded during the verification survey within the Assessment Area.

Table 3 Habitats recorded within the Assessment Area

Habitat	Size (ha)			
nabitat	EIA stage	2023		
Plantation	4.03	3.74		
Agricultural Land	3.34	3.34		
Grassland/Shrubland	13.85	15.88		
Urbanised/Disturbed	91.28	91.59		
Fishpond	8.96	6.91		
Flood Storage Pond	0.82	0.82		
Nullah	1.61	1.61		
Drainage Channel	3.95	3.95		
Total	127.84	127.84		

- 3.1.3 Plantation was mainly found on engineered slopes along the Ngau Tam Mei Drainage Channel, roadsides and the surrounding of the Subject Site. Major trees recorded were Leucaena leucocephala, Melaleuca quinquenervia, Albizia lebbeck, Lagerstroemia speciosa, and Macaranga tanarius. The understorey was planted with amenity shrubs including Hibiscus rosa-sinensis, Schefflera arboricola, and Calliandra hematocephala.
- 3.1.4 A small area of agricultural land was found near the northern boundary of the Assessment Area. Major crops were lettuce (Lactuca sativa) while fruit trees such as longan (*Dimocarpus longan*) and papaya (*Cairica papaya*) were also seen. Part of the agricultural land adjacent to the REC Site was managed to provide habitats (temporary pond of YMST) for wetland fauna before the construction of the Wetland Restoration Area under the Yau Mei Site EIA AEIAR-189/2015 during the verification survey.
- 3.1.5 The urbanised/disturbed area was composed of the existing residential area, open storage area, villages, highways and roads and was the dominant habitat in the Assessment Area. Ornamental or landscaping species recorded in this habitat included *Acacia confusa*, *Melaleuca quinquenervia*, *Albizia lebbeck* and *Syzygium jambos*.
- 3.1.6 Most drainage channel and nullah were concreted with little vegetation grown on banks or bottom, and hence provide very little habitat for floral or faunal utilisation. Most recorded species are ruderal herbs or weeds such as *Panicum maximum* and *Conyza canadensis*. A few individuals of mangrove species, i.e. *Acanthus ilicifolius*, colonised on channel banks. The Ngau Tam Mei Drainage Channel passing through the Assessment Area had grasscreted banks and in some sections the channel bed was covered by muddy sediment. Waterbirds were observed roosting and foraging in this drainage channel

during low tides in winter.

- 3.1.7 Grassland was formed apparently from abandonment of agricultural land followed by earthwork and possibly also hydroseeding. This habitat was dominated by weeds and ruderals while a few isolated trees were also seen.
- 3.1.8 Two kinds of ponds were recorded in the Assessment Area: fish ponds and flood storage pond. The fish ponds recorded in both the Subject Site and Assessment Area were found abandoned when the field survey commenced in 2009 during the EIA stage. Some were overgrown with reeds while others had disturbed bunds and little vegetation cover. During the verification surveys in 2023, all fishponds in the Assessment Area still found remained abandoned. The flood storage pond is an engineering pond which was part of the drainage channel element where surplus water during wet season was stored. The bunds were planted with some ornamental and native vegetation.

Terrestrial & Aquatic Fauna

- 3.1.9 Fauna recorded in the Project Area and Assessment Area were mostly disturbance tolerant species (Annexes 2 6). This is similar to that reported in AEIAR-205/2017. Apart from Japanese Pipistrelle Pipistrellus abramus and 15 species of bird species of conservation importance, there was no significant observation for fauna during the verification survey (Annexes 2 6). As in the EIA stage, fauna of conservation importance were mainly bird species.
- 3.1.10 Japanese Pipistrelles were observed in the Project Area, urbanised/disturbed, agricultural land, grassland/shrubland, drainage channel and fishpond habitats within the Assessment Area (Figure 3). This species is widely distributed throughout Hong Kong. Japanese Pipistrelle was recorded in EIA stage. The potential impact to this species was evaluated in AEIAR-205/2017.
- 3.1.11 A total of 10 species of bird were recorded in the Project Area (Annex 2). Both abundance and species richness of birds in the Subject Site were considered very low. No bird species of conservation importance was recorded within the Subject Site.
- 3.1.12 Fifteen bird species were considered of conservation importance (**Table 4**). These included Northern Shoveler *Anas clypeata*, Eurasian Wigeon *Mareca penelope*, Little Grebe *Tachybaptus ruficollis*, Black-crowned Night Heron *Nycticorax nycticorax*, Chinese Pond Heron *Ardeola bacchus*, Grey Heron *Ardea cinerea*, Great Egret *Ardea alba*, Little Egret *Egretta garzetta*, Great Cormorant *Phalacrocorax carbo*, Black Kite *Milvus migrans*, Pied Avocet *Recurvirostra avosetta*, Common Greenshank *Tringa nebularia*, Common Redshank *Tringa tetanus* and Black-winged Stilt *Himantopus himantopus*. As in the EIA stage, these bird species of conservation importance were mostly recorded in the Ngau Tam Mei Drainage Channel and ponds (**Figure 3**). Potential impact to waterbirds in the Ngau Tam Mei drainage Channel was evaluated in AEIAR-205/2017 and mitigation measures were recommended.

Table 4 Mean number per survey of bird species of conservation importance recorded in Project Area and Assessment Area. Number in parenthesis is maximum count recorded during surveys.

Common Name	Scientific Names	Subject	Assessment	Conservation
		Site	Area	Status
Northern Shoveler	Spatula clypeata	0.0	0.5 (5)	WAPO (Cap 170);
				Regional Concern
Eurasian Wigeon	Mareca penelope	0.0	0.1 (1)	WAPO (Cap 170);
				Regional Concern
Little Grebe	Tachybaptus	0.0	0.1 (1)	WAPO (Cap 170);
	ruficollis			Local Concern

Common Name	Scientific Names	Subject	Assessment	Conservation
		Site	Area	Status
Black-crowned	Nycticorax	0.0	0.3 (3)	WAPO (Cap 170);
Night Heron	nycticorax			Local Concern
Chinese Pond	Ardeola bacchus	0.0	0.4 (2)	WAPO (Cap 170);
Heron				Potential Regional
				Concern
Grey Heron	Ardea cinerea	0.0	0.9 (5)	WAPO (Cap 170);
				Potential Regional
				Concern
Great Egret	Ardea alba	0.0	0.5 (1)	WAPO (Cap 170);
				Potential Regional
				Concern
Little Egret	Egretta garzetta	0.0	1.8 (6)	WAPO (Cap 170);
				Potential Regional
				Concern
Great Cormorant	Phalacrocorax	0.0	0.2 (1)	WAPO (Cap 170);
	carbo			Potential Regional
				Concern
Black Kite	Milvus migrans	0.0	0.3 (1)	WAPO (Cap 170);
				Appendix 2 of
				CITES
Pied Avocet	Recurvirostra	0.0	0.2 (2)	WAPO (Cap 170);
	avosetta			Regional Concern
Common	Tringa nebularia	0.0	0.2 (1)	WAPO (Cap 170);
Greenshank				Regional Concern
Common	Tringa totanus	0.0	0.2 (2)	WAPO (Cap 170);
Redshank				Local Concern
Black-winged Stilt	Himantopus	0.0	0.4 (3)	WAPO (Cap 170);
	himantopus			Regional Concern
White-throated	Halcyon	0.0	0.1 (1)	WAPO (Cap 170);
Kingfisher	smyrnensis			Local Concern

- 4. Evaluation of Habitats and Species of Conservation Importance
- 4.1.1 The ecological importance of the habitats within the Project Area and 500m Assessment Area was evaluated based on the observations of the verification surveys in accordance with the criteria stipulated in Annex 8 of EIAO-TM (Tables 5 11).
- 4.1.2 In accordance with Table 6, Annex 8 of the EIAO(TM), the ecological value of species was assessed in terms of protection status (e.g. fauna protected under WAPO (except birds), and flora and fauna protected under regional/global legislation/conventions), species distribution (e.g. endemic), and rarity (e.g. rare or restricted). No plant species of conservation importance were identified within the Assessment Area. Fauna of conservation importance recorded within the Assessment Area are evaluated according to the EIAO(TM) in Annex 8 (Table 12).

Table 5 Evaluation of Habitats within the Project Area

Criterion		Description			
	Urbanised/disturbed	Plantation	Abandoned Fishpond		
Naturalness	Man-made habitat	Man-made (planted).	Man-made habitat		
Size	3.17 ha	0.3 ha	0.33 ha		
Diversity	Low flora diversity. Low diversity of butterfly, low diversity of bird, and very low diversity of dragonfly.	Low flora diversity. Low diversity of butterfly, bird, and very low diversity of dragonfly.	Low flora diversity. Low diversity of butterfly and bird, and very low diversity of dragonfly.		

Criterion	Description				
	Urbanised/disturbed	Plantation	Abandoned Fishpond		
Rarity	None for flora Fauna species of conservation importance: Japanese Pipistrelle	No flora or fauna species of conservation importance	None for flora or fauna species		
Re-creatability	Easy to recreate	Easy to recreate	Easy to recreate		
Fragmentation	None	Formed thin belts on engineered slopes	Isolated from other continuous wetland ecosystem of Deep Bay.		
Ecological linkage	Not functionally linked to habitats of conservation importance	Not functionally linked to habitats of conservation importance	Not functionally linked to habitats of conservation importance		
Potential value	Low	Low due to small footprint and regular maintenance	Very low due to isolation, small size and subject to high level of disturbance.		
Nursery/breeding ground	No significant record.	No significant records.	No significant record.		
Age	N/A	Young	N/A		
Abundance/richne ss of wildlife	Low for butterfly and bird, very low for dragonfly.	Low for butterfly and bird, and very low for dragonfly	Low for butterfly and bird, very low for dragonfly.		
Overall ecological value	Very Low	Very Low	Very Low		

Table 6 Evaluation of Plantation Habitat within the Assessment Area

Description		
Description		
Man-made (planted).		
A total of 3.74 ha		
Low flora diversity. Low diversity of butterfly, bird, and very low		
diversity of dragonfly.		
None for flora and fauna.		
Easy to recreate		
Formed thin belts on engineered slopes		
Not functionally linked to habitats of conservation importance		
Low due to small footprint and subjected to high level of disturbance		
from traffic		
No significant records. Value as breeding habitat for terrestrial fauna		
is low due to sparse canopy and exotic tree species composition, and		
subjected to high level of disturbance from traffic.		
Young		
Low for butterfly and bird, and very low for dragonfly		
Very Low		

 Table 7
 Evaluation of Agricultural Land within the Assessment Area

Criteria	Description
Naturalness	Man-made habitat, mostly left fallow/abandoned
Size	3.34 ha
Diversity	Low flora diversity. Low to moderate diversity of bird, low diversity of butterfly and very low diversity of dragonfly.
Rarity	None for flora.

Criteria	Description
	Fauna species of conservation importance: Japanese Pipistrelle.
Re-creatability	Easy to re-create
Fragmentation	Isolated stand
Ecological linkage	Not functionally linked to habitats of conservation importance
Potential value	Limited.
Nursery/breeding	No significant record. Minimal due to high level of disturbance from
ground	intensive management
Age	N/A
Abundance/richness	Low for butterfly and bird, and very low dragonfly abundance
of wildlife	
Overall ecological	Moderate for those managed as temporary pond of YMST project;
value	Low to moderate for the rest

Table 8 Evaluation of Urbanised/Disturbed Habitat within the Assessment Area

Criteria	Description	
Naturalness	Man-made habitat	
Size	91.59 ha	
Diversity	Low flora diversity. Low to moderate diversity of butterfly, low diversi	
	of bird, and very low diversity of dragonfly.	
Rarity	None for flora.	
	Fauna species of conservation importance: Japanese Pipistrelle and	
	Little Egret	
Re-creatability	Easy to recreate	
Fragmentation	None	
Ecological linkage	Not functionally linked to habitats of conservation importance	
Potential value	Low	
Nursery/breeding	No significant record. Minimal due to high level of disturbance	
ground		
Age	N/A	
Abundance/richness	Low for butterfly and bird, very low for dragonfly.	
of wildlife		
Overall ecological	Very Low	
value		

Table 9 Evaluation of Grassland/Shrubland within the Assessment Area

Criteria	Description
Naturalness	Man-made habitat, with earthwork and possibly hydroseeded after
	abandonment of agriculture
Size	15.88 ha
Diversity	Low flora diversity. Low diversity of butterfly and bird, and very low
	diversity of dragonflies.'
Rarity	None for flora;
	Fauna species of conservation importance: Japanese Pipistrelle and
	Black Kite
Re-creatability	Easy to recreate
Fragmentation	None
Ecological linkage	Not functionally linked to habitats of conservation importance
Potential value	Low
Nursery/breeding	No significant record. Minimal as nursey/breeding ground due to high
ground	level of disturbance
Age	N/A
Abundance/richness	Low for butterfly and bird, and very low for dragonfly.
of wildlife	
Overall ecological	Low to moderate
value	

Table 10 Evaluation of Pond (Fish Pond and Flood Storage Pond) within the Assessment Area

Criteria	Description						
Naturalness	Man-made habitat						
Size	6.91 ha (abandoned fish pond), 0.82 ha (flood storage pond)						
Diversity	Low flora diversity. Low diversity of butterfly and bird, and very low						
	diversity of dragonfly.						
Rarity	None for flora. Fauna species of conservation importance: Japanese						
	Pipistrelle, Little Grebe, Chinese Pond Heron, Black-crowned Night						
	Heron, Little Egret, Great Egret, Grey Heron and White-throated						
	Kingfisher						
Re-creatability	Easy to recreate						
Fragmentation	The flood storage pond and fishponds to the east of the Project Area						
	are isolated from other wetland habitats. Fishponds in the southern						
	corner of the Assessment Area exist as a fairly large patch						
Ecological linkage	The flood storage pond and fishponds to the east of the Project Area are not functionally linked to habitats of conservation importance. Fishponds in the southern corner of the Assessment Area fall within						
	WBA.						
Potential value	Very low for the fishponds to the east of the Project Area due to isolation, small size and subject to high level of disturbance. Low to moderate for those fishponds in the south corner of the						
	Assessment Area due to larger size and located within/close to WBA						
Nursery/breeding	No significant record. Minimal for the fishponds to the east of the						
ground	Project Area as nursey/breeding ground due to subjected to high level						
	of disturbance. The abandoned fishponds in the south corner of the						
	Assessment Area might provide breeding habitats for birds,						
	amphibians and dragonflies.						
Age	N/A						
Abundance/richness	Low for butterfly and bird, very low for dragonfly.						
of wildlife							
Overall ecological value	Very low for the fishponds to the east of the Project Area due to isolation, small size and subject to high level of disturbance. Low to moderate for the fish ponds in the south corner of the Assessment Area due to larger size and located within/close to WBA						

Table 11 Evaluation of Drainage Channel/Nullah within the Assessment Area

Criteria	Description
Naturalness	Man-made, with concrete bank and bottom
Size	1755 m, 3.95ha (Drainage channel), 2283 m, 1.61ha (nullah)
Diversity	Low flora diversity. Low diversity of bird and butterfly, very low diversity
	of dragonflies.
Rarity	Fauna species of conservation importance: Japanese Pipistrelle,
	Northern Shoveler, Eurasian Wigeon, Great Cormorant, Grey Heron,
	Little Egret, Chinese Pond Heron, Great Egret, Pied Avocet, Common
	Greenshank, Common Rerdshank and Black-winged Stilt.
Re-creatability	Easy to recreate
Fragmentation	The Ngau Tam Mei Main Drainage Channel is connected to the Kam
	Tin River Channel. Other drainage channel/nullahs are fragmented by
	urbanised/disturbed habitats
Ecological linkage	Hydrological linked to Inner Deep Bay
Potential value	Low due to the main function for flood control, surrounded by urbanised/disturbed habitats.
	The Ngau Tam Mei Main Drainage Channel could provide foraging
	and roosting habitats for some water birds
Nursery/breeding	No significant record. Minimal as nursey/breeding ground due to
ground	subjected to high level of disturbance and low habitat complexity
Age	N/A

Criteria	Description
Abundance/richness	Low aquatic fauna abundance. Moderate for bird, low for butterfly and
of wildlife	very low for dragonfly.
Overall ecological	Moderate for the Ngau Tam Mei Main Drainage Channel
value	Low for other drainage channel/nullah

Table 12 Evaluation of fauna species of conservation importance within the Assessment Area

Assessment Area											
Common name	Locations	Protection status	Distribution	Rarity							
Japanese	Recorded in	WAPO (Cap 170)	Widely	Very							
Pipistrelle	urbanized/disturbed,		distributed	common							
	agricultural land,		throughout Hong								
	grassland/shrubland,		Kong								
	drainage channel and										
	pond within										
	Assessment Area										
Northern Shoveler	Recorded in drainage	WAPO (Cap 170);	Found in Deep	Abundant							
	channel within	Regional Concern	Bay area	winter visitor							
	Assessment Area										
Eurasian Wigeon	Recorded in drainage	WAPO (Cap 170);	Found in Deep	Abundant							
	channel within	Regional Concern	Bay area, Tai	winter							
	Assessment Area		Lam Chung.	visitor.							
Little Grebe	Recorded in pond	WAPO (Cap 170);	Found in Deep	Common							
	within the Assessment	Local Concern	Bay area	resident							
	Area										
Black-crowned	Recorded in pond	WAPO (Cap 170);	Widely	Common							
Night Heron	within the Assessment	Local Concern	distributed in	resident and							
	Area		Hong Kong	migrant							
Chinese Pond	Recorded in drainage	WAPO (Cap 170);	Widely	Common							
Heron	channel and pond	Potential Regional	-	resident							
	within the Assessment	Concern	Hong Kong								
	Area										
Grey Heron	Recorded in drainage	WAPO (Cap 170);	Found in Deep	Common							
	channel,	Potential Regional		winter visitor							
	grassland/shrubland	Concern	Starling Inlet,								
	and pond within the		Kowloon Park,								
	Assessment Area		Cape D'Aguilar								
Great Egret	Recorded in drainage	WAPO (Cap 170);	Widely	Common							
	channel,	Potential Regional	distributed in	resident,							
	grassland/shrubland,	Concern	Hong Kong	migrant and							
	agricultural land and			winter visitor							
	pond within the										
	Assessment Area										
Little Egret	Recorded in drainage	WAPO (Cap 170);	Widely	Common							
	channel, agricultural	Potential Regional	distributed in	resident,							
	land and pond within	Concern	coastal area	migrant and							
	the Assessment Area		throughout Hong	winter visitor							
			Kong								
Great Cormorant	Recorded in drainage	WAPO (Cap 170);	Widely	Common							
	channel and pond	Potential Regional	distributed in	winter visitor							
	within the Assessment	_	coastal areas								
	Area		throughout Hong								
			Kong								
	i .	1		_							
Black Kite	Recorded in	WAPO (Cap 170);	Widely	Common							
Black Kite	Recorded in urbanized/disturbed,	WAPO (Cap 170); Appendix 2 of	Widely distributed in	Common resident and							

Common name	Locations	Protection status	Distribution	Rarity
	and pond within the			
	Assessment Area			
Pied Avocet	Recorded in drainage	WAPO (Cap 170);	Found in Deep	Abundant
	channel within the	Regional Concern	Bay area	winter visitor
	Assessment Area			
Common	Recorded in drainage	WAPO (Cap 170);	Found in Deep	Abundant
Greenshank	channel within	Regional Concern	Bay area.	passage
	Assessment Area			migrant and
				winter
				visitor.
Common	Recorded in drainage	WAPO (Cap 170);	Found in Deep	Abundant
Redshank	channel within	Local Concern	Bay area.	passage
	Assessment Area			migrant and
				winter
				visitor.
Black-winged Stilt	Recorded in drainage	WAPO (Cap 170);	Found in Deep	Common
	channel within	Regional Concern	Bay area, Long	migrant and
	Assessment Area		Valley, Kam Tin.	wintor visitor
White-throated	Recorded in pond	WAPO (Cap 170);	Widely	Common
Kingfisher	within the Assessment	Local Concern	distributed in	resident.
	Area		coastal areas	
			throughout Hong	
			Kong	

5. Reference

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Figure 1. Habitat Map of 2023 (Shaded area: temporary pond of YMST)

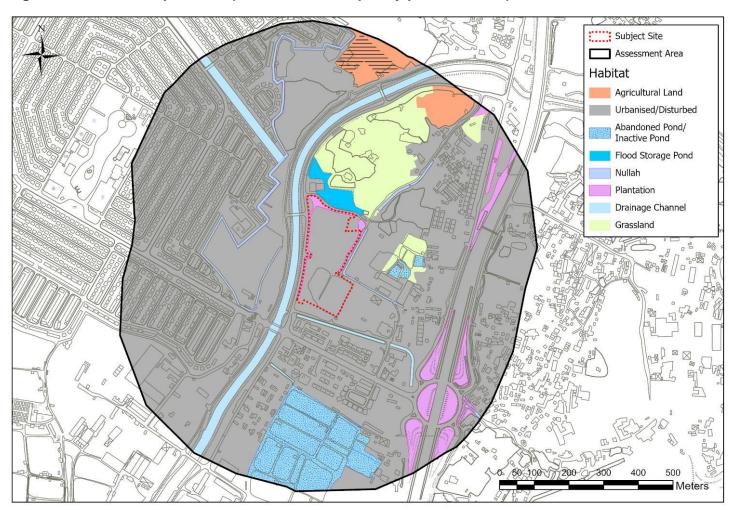


Figure 2 Habitats within the Project Area







Plantation

Urbanised/Disturbed

Fishpond (abandoned)

Figure 3 Habitats within the 500m Assessment Area



Figure 3 Habitats within the Assessment Area (cont'd)



Annexes

Annex 1

Plant Species recorded within the Assessment Area during the verification surveys (Habitats: DC/N = drainage channel/nullah, PI = plantation, U/D = urbanized/disturbed, G/S = grassland/shrubland, A = agricultural land, Po = fishpond & flood storage pond; PA = Project Area)

Species	Habit	Origin			Relati	ve abun	dance		
			PA	DC/ N	PI	U/D	G/S	Α	Ро
Acacia auriculiformis	Tree	Exotic				S			
Acacia confusa	Tree	Exotic			С	С			Ø
Aglaia odorata var. microphyllina	Shrub	Exotic				С			
Albizia lebbeck	Tree	Exotic			S	С			
Aleurites moluccana	Tree	Exotic				S			
Alocasia macrorrhizos	Herb	Native		0	0	С			0
Aloe vera	Herb	Exotic						0	
Alternanthera philoxeroides	Herb	Exotic	S						0
Amaranthus viridis	Herb	Native	S		S	0			S
Aporusa dioica	Tree	Native			S				
Araucaria heterophylla	Tree	Exotic				0			
Archontophoenix alexandrae	Tree	Exotic				С			
Asystasia micrantha	Herb	Exotic				С			
Bambusa sp.	Bamboo	Unknown				С			
Bauhinia purpurea	Tree	Exotic		S					
Bauhinia variegata	Tree	Exotic				S			
Bauhinia variegata var. candida	Tree	Exotic				S			
Bauhinia x blakeana	Tree	Native				С			
Bidens alba	Herb	Exotic	S	С	0	С	С	S	С
Bischofia javanica	Tree	Native		S		S			

Origin Species Habit Relative abundance DC/N ы U/D G/S PA Ро Shrub Boehmeria nivea Exotic S S Bombax ceiba Tree Exotic S С 0 Bothriochloa bladhii Herb Native S s 0 Bougainvillea spectabilis Climber 0 Exotic S С С Brachiaria mutica Herb Exotic С Brassica oleracea var. capitata Herb Exotic Broussonetia papyrifera Tree Native 0 S S Bridelia tomentosa Shrub Native Bruguiera gymnorrhiza Tree Native S Shrub S Camellia japonica Exotic Calliandra haematocephala Shrub Exotic С Callistemon viminalis Tree Exotic S 0 Tree Exotic 0 0 Carica papaya Caryota mitis Tree Exotic S Tree S Cassia fistula Native Casuarina equisetifolia Tree Exotic S Catharanthus roseus Shrub Exotic S Herb Native S Celosia argentea Celtis sinensis Tree Native S S 0 С S S Cenchrus echinatus Herb Exotic Herb Native 0 Centotheca lappacea Chenopodium ficifolium Herb Native S 0 S Chloris barbata Herb Native S 0 0 S Cinnamomum camphora Tree Native 0 Tree S Citrus maxima Exotic S Climber Coccinia grandis Native

Species	Habit	Origin			Relati	ve abun	dance		
			PA	DC/ N	PI	U/D	G/S	Α	Ро
Cocculus orbiculatus	Climber	Native	0		S	0			S
Codiaeum variegatum	Shrub	Exotic				0			
Colocasia esculenta	Herb	Native		S		S			S
Commelina diffusa	Herb	Native							0
Conyza canadensis	Herb	Exotic	S			S			
Cordyline fruticosa	Shrub	Exotic				S			
Crateva unilocularis	Tree	Exotic			S				
Cuphea hyssopifolia	Shrub	Exotic				S			
Cuscuta sp.	Climber	Native	S			S			S
Cycas revoluta	Tree	Exotic				S			
Cyclosorus parasiticus	Herb	Native				S			S
Cynodon dactylon	Herb	Native				С			
Cyperus eragrostis	Herb	Unknown	S						0
Cyperus involucratus	Herb	Exotic		S	S				
Cyperus odoratus	Herb	Exotic		0		S			
Delonix regia	Tree	Exotic			S	0			
Desmos chinensis	Climber	Native				S			
Dimocarpus longan	Tree	Exotic			S	С			S
Dracaena reflexa var. angustifolia	Shrub	Exotic					S		
Duranta erecta	Climber	Exotic				С			
Dypsis lutescens	Shrub	Exotic				S			
Eclipta prostrata	Herb	Native				S			
Ehretia monopyrena	Shrub	Exotic				S			
Eichhornia crassipes	Herb	Exotic		S					
Emilia sonchifolia	Herb	Native				С			
Eragrostis tenella	Herb	Native				0			

Species	Habit	Origin			Relati	ve abun	dance		
			PA	DC/ N	PI	U/D	G/S	Α	Ро
Eucalyptus citriodora	Tree	Exotic			С	0			
Eucalyptus robusta	Tree	Exotic			0				
Eucalyptus tereticornis	Tree	Exotic			С	0			
Euphorbia hirta	Herb	Exotic				S			
Euphorbia milii	Shrub	Exotic				S			
Euphorbia thymifolia	Herb	Native				S			0
Excoecaria cochinchinensis	Shrub	Exotic				S			
Fagraea ceilanica	Shrub	Exotic				S			
Ficus altissima	Tree	Native				S			
Ficus benjamina	Tree	Exotic				S			
Ficus hispida	Shrub	Native		S		С	S		
Ficus lyrata	Tree	Exotic				S			
Ficus maclellandii 'Alii'	Tree	Exotic				S			
Ficus microcarpa	Tree	Native			С	С			
Ficus pumila	Climber	Native				С			
Ficus religiosa	Tree	Exotic				S			
Ficus virens var. sublanceolata	Tree	Native		S	0	S			
Ficus subpisocarpa	Tree	Native				S			
Flueggea virosa	Shrub	Native		S		S			
Handroanthus chrysanthus	Tree	Exotic				0	S		
Hedyotis corymbosa	Herb	Native				0			
Heteropanax fragrans	Tree	Exotic				S			
Hibiscus rosa-sinensis	Shrub	Exotic				0			
Hibiscus tiliaceus	Tree	Exotic		S					
Hydrocotyle verticillata	Herb	Exotic		S		s			
Imperata cylindrica var. major	Herb	Native					С	0	S

Species	Habit	Origin			Relati	ve abun	dance		
			PA	DC/ N	PI	U/D	G/S	Α	Ро
Ipomoea aquatica	Herb	Exotic							С
Ipomoea cairica	Climber	Exotic		0		С	0	S	С
Ipomoea triloba	Cimber	Exotic	S			0			0
Ixora chinensis	Shrub	Native			0	С			
Ixora coccinea	Shrub	Exotic				0			
Juniperus chinensis	Tree	Exotic				S			
Kalanchoe tubiflora	Herb	Exotic				S			
Khaya senegalensis	Tree	Exotic			0	S			
Koelreuteria bipinnata	Tree	Exotic			S	0			
Lactuca sativa	Herb	Exotic						С	
Lagerstroemia speciosa	Tree	Native			0	0			
Lantana camara	Shrub	Exotic	S		0	С			
Lantana montevidensis	Shrub	Exotic			S	S			
Lemna minor	Herb	Native							S
Leucaena leucocephala	Tree	Exotic	0	С	С	С	0	S	0
Ligustrum sinense	Tree	Native			S	С			
Liquidambar formosana	Tree	Native				0			
Litchi chinensis	Tree	Exotic				0		0	
Litsea glutinosa	Tree	Native				S			
Livistona chinensis	Tree	Exotic			0	0			
Lophostemon confertus	Tree	Exotic			S	S			S
Loropetalum chinense f. rubrum	Shrub	Exotic				S			
Ludwigia octovalvis	Herb	Native	s			S			
Macaranga tanarius var. tomentosa	Tree	Native	S	S	S	С	0	S	С
Macroptilium atropurpureum	Herb	Exotic				0			
Malvastrum coromandelianum	Shrub	Native				С			

Species	Habit	Origin			Relati	ve abun	dance		
			PA	DC/ N	PI	U/D	G/S	Α	Ро
Mangifera indica	Tree	Exotic				0		0	
Melaleuca bracteata	Tree	Exotic			0				
Melaleuca cajuputi subsp. cumingiana	Tree	Exotic			С	С			S
Melia azedarach	Tree	Exotic	S	S	0	С	S	S	S
Microcos nervosa	Tree	Native				S			
Microstegium ciliatum	Herb	Native	S			S			
Mikania micrantha	Herb	Exotic	0	С	0	С	С	S	
Mimosa pudica	Herb	Exotic	S			0	S		
Miscanthus floridulus	Herb	Native	S	0					0
Monstera deliciosa	Shrub	Exotic		S					
Murraya paniculata	Tree	Exotic		С		0			
Musa x paradisiaca	Herb	Exotic				S	S		0
Nelumbo nucifera	Herb	Exotic				S			
Neyraudia reynaudiana	Herb	Native				С	S		0
Osmanthus fragrans	Shrub	Exotic				S			
Osmunda vachellii	Herb	Native							0
Oxalis corniculata	Herb	Native				0			
Oxalis debilis subsp. corymbosa	Herb	Exotic		S	С	0			
Pachira aquatica	Tree	Exotic							S
Paederia scandens	Climber	Native	S	0	0	0	S		
Panicum dichotomiflorum	Herb	Native		S					
Panicum maximum	Herb	Exotic	S	С	С	С	S	S	С
Passiflora foetida	Climber	Exotic	S			S			0
Passiflora suberosa	Climber	Exotic				S			
Pennisetum polystachion	Herb	Exotic				0			
Pennisetum purpureum	Herb	Exotic	S			S	S		С

Species	Habit	Origin			Relati	ve abun	dance		
			PA	DC/ N	PI	U/D	G/S	Α	Ро
Peperomia obtusifolia	Herb	Exotic				S			
Persicaria barbata	Herb	Native		S					
Persicaria chinensis	Herb	Native		S		S			
Persicaria lapathifolia	Herb	Native				S			
Persicaria perfoliata	Herb	Native				S			
Phoenix roebelenii	Tree	Exotic			0	S			
Phragmites australis	Herb	Native		S			S	S	С
Phyllanthus reticulatus var. glaber	Shrub	Unknown				S	S		
Phyllanthus tenellus	Herb	Unknown				S			
Physalis angulata	Herb	Native							S
Pilea microphylla	Herb	Exotic		S					
Platycladus orientalis	Tree	Exotic				S			
Plumeria rubra	Tree	Exotic			S	S			
Podocarpus macrophyllus	Tree	Native				0			
Portulaca pilosa	Herb	Native				S			
Pouzolzia zeylanica	Herb	Native				S			
Psidium guajava	Tree	Exotic				0		S	
Pteris insignis	Herb	Native				S			
Pteris vittata	Herb	Native				S	S		
Pueraria lobata var. montana	Climber	Native			S	0			
Pueraria lobata var. thomsonii	Climber	Exotic				S			
Pyrrosia adnascens	Climber	Native			S	S			
Ranunculus sceleratus	Herb	Native		S					
Rhaphiolepis indica	Shrub	Native				S			
Rhododendron pulchrum	Shrub	Exotic				s			
Rhus hypoleuca	Tree	Native			S				

Species Habit Origin Relative abundance DC/N ы U/D G/S Ро PA Shrub Ricinus communis Exotic S Ruellia simplex Herb Exotic S Rumex japonicus Herb Native S Herb S S Rumex trisetifer Native Schefflera arboricola Climber С Exotic S Schefflera heptaphylla Tree Native Scoparia dulcis Herb Exotic S S Senna siamea Tree Exotic Senna surattensis Tree Exotic S S Sesbania javanica Herb Native Sesbania cannabina Herb Exotic S S Sida rhombifolia Shrub Native 0 Herb S 0 S Solanum americanum Exotic Solanum torvum Shrub Exotic S S Solanum lycopersicum Herb Exotic 0 Sonchus oleraceus Herb Exotic 0 Sporobolus fertilis Herb Native 0 Climber Native S Stephania longa Tree Native S Sterculia lanceolata S Stromanthe sanguinea Herb Exotic Tree S Syzygium cumini Exotic Syzygium jambos Tree Exotic 0 Tree Exotic S Terminalia catappa Terminalia mantaly Tree Exotic 0 Terminalia mantaly cv. "Tricolor" Tree S Exotic Thunbergia grandiflora Climber S Exotic

0

S

0

С

0

S

Proposed Low-rise and Low-density Residential Development at Various Lots and their Adjoining Government Land in D.D. 104, East of Kam Pok Road, Mei Po, Yuen Long, N.T.

Wedelia trilobata

Youngia japonica

Zea mays

Zanthoxylum avicennae

Species Habit Origin Relative abundance DC/ N U/D PΑ ΡI G/S Ро S Tradescantia zebrina Herb Exotic Tradescantia spathacea Herb Exotic S Tridax procumbens Herb Exotic S 0 Typha angustifolia Herb Exotic S S Vernonia cinerea 0 Herb Native

Exotic

Native

Native

Exotic

S

0

Herb

Herb

Tree

Herb

Annex 2 Bird Species recorded within the Assessment Area during the verification surveys (Habitats: DC/N = drainage channel/nullah, PI = plantation, U/D = urbanized/disturbed, G/S = grassland/shrubland, A = agricultural land, Po = fishpond & flood storage pond; PA = Project Area)

Common names	Scientific names	DC	PI	U/D	G/S	Α	Ро	PA	Commonness &	Local/ Regional/
		/N							Distribution in Hong	
									Kong ¹	Conservation
										Status / Level of
										concern ¹
Northern Shoveler	Spatula clypeata	+							Abundant winter	Regional Concern
									visitor. Found in Deep	
									Bay area.	
Eurasian Wigeon	Mareca penelope	+							Abundant winter	Regional Concern
									visitor. Found in Deep	
									Bay area, Tai Lam	
									Chung.	
Little Grebe	Tachybaptus ruficollis						+		Common resident.	Local Concern
									Found in Deep Bay	
									area.	
Black-crowned Night	Nycticorax nycticorax						+		Common resident and	Local Concern
Heron									migrant. Widely	
									distributed in Hong	
									Kong.	
Chinese Pond	Ardeola bacchus	+					+		Common resident.	Regional Concern
Heron									Widely distributed in	
									Hong Kong.	
Grey Heron	Ardea cinerea	+					+		Common winter	Potential Regional
									visitor. Found in Deep	Concern

Common names	Scientific names	DC	PI	U/D	G/S	Α	Ро	PA	Commonness &	Local/ Begianal/
Common names	Scientific names		PI	0/0	G/S	A	Po	PA		Local/ Regional/
		/N								International
									Kong ¹	Conservation
										Status / Level of
										concern ¹
									Bay area, Starling	
									Inlet, Kowloon Park,	
									Cape D'Aguilar.	
Great Egret	Ardea alba	+					+		Common resident and	Regional Concern
									winter visitor. Widely	
									distributed in Hong	
									Kong.	
Little Egret	Egretta garzetta	++		+			+		Common resident,	Regional Concern
									migrant and winter	
									visitor. Widely	
									distributed in coastal	
									area throughout Hong	
									Kong.	
Great Cormorant	Phalacrocorax carbo	+							Common winter	Potential Regional
									visitor. Widely	Concern
									distributed in coastal	
									areas throughout	
									Hong Kong.	
Black Kite	Milvus migrans				+				Common resident and	Regional Concern
									winter visitor. Widely	
									distributed in Hong	
									Kong.	
White-breasted	Amaurornis phoenicurus	+		+			+		Common resident.	
Waterhen									Widely distributed in	

Common names	Scientific names	DC	PI	U/D	G/S	Α	Ро	PA	Commonness &	Local/ Regional/
		/N							Distribution in Hong	International
									Kong ¹	Conservation
										Status / Level of
										concern ¹
									wetland throughout	
									Hong Kong.	
Pied Avocet	Recurvirostra avosetta	+							Abundant winter	Regional Concern
									visitor. Found in Deep	
									Bay area.	
Common	Tringa nebularia	+							Abundant passage	Regional Concern
Greenshank									migrant and winter	
									visitor. Found in Deep	
									Bay area.	
Common Redshank	Tringa totanus	+							Abundant passage	Local Concern
									migrant and winter	
									visitor. Found in Deep	
									Bay area.	
Common Sandpiper	Actitis hypoleucos	+					+		Common passage	
									migrant and winter	
									visitor. Widely	
									distributed in wetland	
									area throughout Hong	
									Kong.	
Black-winged Stilt	Himantopus himantopus	+							Common migrant and	Regional Concern
									wintor visitor. Found	
									in Deep Bay area,	
									Long Valley, Kam Tin.	

Common names	Scientific names	DC	PI	U/D	G/S	Α	Ро	PA	Commonness &	Local/ Regional/
		/N							Distribution in Hong	International
									Kong ¹	Conservation
										Status / Level of
										concern ¹
Domestic Pigeon	Columba livia		+	+	+	+	+	+	Locally common	
									resident. Widely	
									distributed in urban	
									area throughout Hong	
									Kong.	
Spotted Dove	Spilopelia chinensis		+	+	+	+		+	Abundant resident.	
									Widely distributed in	
									Hong Kong.	
Greater Coucal	Centropus sinensis			+		+	+		Common resident.	
									Widely distributed in	
									Hong Kong.	
Plaintive Cuckoo	Cacomantis merulinus						+		Passage migrant and	
									common visitor.	
									Widely distributed in	
									open area throughout	
									Hong Kong.	
Asian Koel	Eudynamys	+	+			+	+	+	Common resident.	
	scolopaceus								Widely distributed in	
									Hong Kong.	
White-throated	Halcyon smyrnensis						+		Common resident.	Local Concern
Kingfisher									Widely distributed in	
									coastal areas	
									throughout Hong	
									Kong	

Common names	Scientific names	DC	PI	U/D	G/S	Α	Ро	PA	Commonness &	Local/ Regional/
		/N							Distribution in Hong	International
									Kong ¹	Conservation
										Status / Level of
										concern ¹
Common Kingfisher	Alcedo atthis	+					+		Common	
									passage migrant	
									and winter visitor.	
									Widely distributed	
									in wetland habitat	
									throughout Hong	
									Kong.	
Long-tailed Shrike	Lanius schach			+		+	+		Common resident.	
									Widely distributed in	
									open areas	
									throughout Hong	
									Kong.	
Black Drongo	Dicrurus macrocercus			+					Common autumn	
									passage migrant and	
									winter visitor. Widely	
									distributed in open	
									area throughout Hong	
									Kong.	
Azure-winged	Cyanopica cyanus		++						Locally common	
Magpie									breeding resident.	
									Found in Mai Po.	
Eurasian Magpie	Pica serica					+	+		Common resident.	
									Widely distributed in	
									Hong Kong	

Common names	Scientific names	DC	PI	U/D	G/S	Α	Ро	PA	Commonness &	Local/ Regional/
		/N							Distribution in Hong	International
									Kong ¹	Conservation
										Status / Level of
										concern ¹
Large-billed Crow	Corvus macrorhynchos				+	+			Common resident.	
									Widely distributed in	
									Hong Kong	
Cinereous Tit	Parus cinereous		+						Common resident.	
									Widely distributed in	
									Hong Kong.	
Red-whiskered	Pycnonotus jocosus	+	+	+	+	+	+	+	Abundant resident.	
Bulbul									Widely distributed in	
									Hong Kong.	
Chinese Bulbul	Pycnonotus sinensis		+	+	+	+	+	+	Abundant resident.	
									Widely distributed in	
									Hong Kong.	
Barn Swallow	Hirundo rustica	+	+					+	Abundant passage	
									migrant and	
									uncommon winter	
									visitor. Widely	
									distributed in Hong	
									Kong.	
Cinereous Tit	Parus cinereus	+	+			+			Common resident.	
									Widely distributed in	
									Hong Kong.	
Dusky Warbler	Phylloscopus fuscatus					+		+	Abundant winter	
									visitor and migrant.	
									Widely distributed in	

Common names	Scientific names	DC	PI	U/D	G/S	Α	Ро	PA	Commonness &	Local/ Regional/
		/N							Distribution in Hong	International
									Kong ¹	Conservation
										Status / Level of
										concern ¹
									shrubland and	
									waterside vegetation	
									throughout Hong	
									Kong.	
Yellow-browed	Phylloscopus inornatus		+		+				Abundant winter	
Warbler									visitor and migrant.	
									Widely distributed in	
									woodland throughout	
									Hong Kong.	
Yellow-bellied Prinia	Prinia flaviventris	+		+		+		+	Common resident.	
									Widely distributed in	
									Hong Kong.	
Plain Prinia	Prinia inornata	+				+	+		Locally common	
									resident. Widely	
									distributed in	
									grassland throughout	
									Hong Kong.	
Common Tailorbird	Orthotomus sutorius		+			+		+	Common resident.	
									Widely distributed in	
									Hong Kong.	
Masked	Pterorhinus	+		+	+	+	+		Abundant resident.	
Laughingthrush	perspicillatus								Widely distributed in	
									shrubland throughout	
									Hong Kong.	

Black-collared

Oriental Magpie

Robin

Starling

Gracupica nigricollis

Copsychus saularis

Grey-backed Thrush Turdus hortulorum

Scientific names DC ы U/D G/S Ро Commonness & Local/ Regional/ Common names Α PA /N Distribution in Hong International Kong ¹ Conservation Status / Level of concern 1 Japanese White-eye Zosterops japonicus Abundant resident. Widely distributed in Hong Kong. Common resident. Crested Myna Acridotheres cristatellus Widely distributed in Hong Kong. Common Myna Acridotheres tristis Locally common resident. Found in Mai

						Po, Sheung Uk Tsuen, Sheung Shui, Kam Tin, Shek Kong, Ping Shan, Mong Tseng.	
+	+		+	+	+	Common resident. Widely distributed in	
						Hong Kong.	
					+	Common winter visitor	
						and migrant. Widely	
						distributed in	
						woodland throughout	
						Hong Kong.	
+	+	+		+	+	Abundant resident.	
						Widely distributed in	
						Hong Kong.	
	32						_

DC U/D Common names Scientific names ΡI G/S Α Ро PA Commonness & Local/ Regional/ /N Distribution in Hong International Kong 1 Conservation Status / Level of concern 1 Daurian Redstart Phoenicurus auroreus Common winter visitor. Widely distributed in Hong Kong. Eurasian Tree Passer montanus Abundant resident. Sparrow Widely distributed in Hong Kong. White Wagtail Motacilla alba Resident, common passage migrant and winter visitor. Widely distributed in Hong Kong. Olive-backed Pipit Anthus hodgsoni Common passage migrant and winter visitor. Widely distributed in Hong Kong. Black-faced Bunting Emberiza spodocephala Common winter visitor and passage migrant. Widely distributed in Hong Kong.

Relative Abundance: +++ = abundant, ++ = moderate, + = few

Level of concern: LC = local concern, PRC = potential regional concern, RC = regional concern, GC = global concern; Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al., 2002)

^{1:} AFCD (2022)

Annex 3 Mammal and Herpetofauna Species recorded within the Assessment
Area during the verification surveys (Habitats: DC/N = drainage
channel/nullah, PI = plantation, U/D = urbanized/disturbed, G/S =
grassland/shrubland, A = agricultural land, Po = fishpond & flood
storage pond; PA = Project Site)

Common names	Scientific names	DC/ N	PI	U/D	G/S	Α	Ро	PA	Distribution in Hong Kong*
Mammal									
Domestic Ox	Bos taurus						+		Widely distributed in
									countryside areas throughout
									Hong Kong, except for Hong
									Kong Island and
									northwestern New
									Territories.
Domestic Water	Bubalus bubalis			+					Found in Kam Tin, and the
Buffalo									southern part of Lantau
									Island.
Japanese	Pipistrellus abramus	+		+	+	+	+	+	Widely distributed throughout
Pipistrelle**									Hong Kong.
Indochinese Forest	Rattus andamanensis		+						Widely distributed in
Rat									countryside areas throughout
									Hong Kong.
Amphibian									
Asian Common Toad	Duttaphrynus melanostictus		+	+	+	+	+		Widely distributed throughout
									Hong Kong
Asiatic Painted Frog	Kaloula pulchra	+		+		+	+		Widely distributed throughout
									Hong Kong
Gunther's Frog	Sylvirana guentheri	+			+	+	++	+	Widely distributed throughout
									Hong Kong

Common names	Scientific names	DC/ N	PI	U/D	G/S	Α	Ро	PA	Distribution in Hong Kong*
Brown Tree Frog	Polypedates megacephalus			+		+	+	+	Widely distributed in Hong
									Kong
Reptile									
Red-eared Slider	Trachemys scripta	++							Widely distributed and
									commonly found in reservoirs
									or ponds in urban parks
Long-tailed Skink	Eutropis longicaudata	+		+	+			+	Widely distributed throughout
									Hong Kong
Reeves's Smooth	Scincella reevesii	+	+		+		+		Widely distributed in
Skink									woodlands throughout Hong
									Kong.
Chinese Gecko	Gekko chinensis			+	+	+		+	Widely distributed throughout
									Hong Kong
Bowring's Gecko	Hemidactylus bowringii			++				+	Distributed throughout Hong
									Kong

Relative Abundance: +++ = abundant, ++ = moderate, + = few
* AFCD (2022)
** protected under WAPO in Hong Kong

Annex 4 Butterfly Species recorded within the Assessment Area during the verification surveys (Habitats: DC/N = drainage channel/nullah, PI = plantation, U/D = urbanized/disturbed, G/S = grassland/shrubland, A = agricultural land, Po = fishpond & flood storage pond; PA = Project Site)

	-								
Common names	Scientific names	DC/ N	PI	U/D	G/S	A	Ро	PA	Abundance and Distribution in Hong Kong*
Forest Hopper	Astictopterus jama			+					Common. Widely distributed
									throughout Hong Kong.
Lime Blue	Chilades lajus			+	+	+		+	Common. Widely distributed
									throughout Hong Kong
Dark Grass Blue	Zizeeria karsandra		+				+	+	Uncommon. High Junk Peak,
									Kat O, Po Toi Island, Shek
									Mun Kap, Lai Chi Wo, Yung
									Shue O
Red-base Jezebel	Delias pasithoe	+	+		+	+	+	+	Very common. Widely
									distributed throughout Hong
									Kong
Great Orange Tip	Hebomoia glaucippe		+	+	+		+		Common. Widely distributed
									throughout Hong Kong
Indian Cabbage White	Pieris canidia			+	+	+	+	+	Very common. Widely
									distributed throughout Hong
									Kong
Common Grass Yellow	Eurema hecabe	+		+	+	+	+	+	Very common. Widely
									distributed throughout Hong
									Kong
Mottled Emigrant	Catopsilia pyranthe			+					Very common. Widely
									distributed throughout Hong
									Kong

Common names	Scientific names	DC/ N	PI	U/D	G/S	Α	Ро	PA	Abundance and Distribution
									in Hong Kong*
Lemon Emigrant	Catopsilia pomona				+				Common. Widely distributed
									throughout Hong Kong
Common Mormon	Papilio polytes	+	+						Very common. Widely
									distributed throughout Hong
Great Mormon	Papilio memnon		+		+	+		+	Very common. Widely
									distributed throughout Hong
Red Helen	Papilio helenus						+		Very common. Widely
									distributed throughout Hong
									Kong
Paris Peacock	Papilio paris			+		+			Very common. Widely
									distributed throughout Hong
									Kong
Common Five-ring	Ypthima baldus				+				Very common. Widely
									distributed throughout Hong
									Kong
Common Mapwing	Cyrestis thyodamas					+			Common. Widely distributed
									throughout Hong Kong
Rustic	Cupha erymanthis		+	+					Very common. Widely
									distributed throughout Hong
									Kong
Angled Castor	Ariadna airadne			+					Common. Widely distributed
									throughout Hong Kong.
Plum Judy	Abisara echerius	+					+		Very common. Widely
									distributed throughout Hong
									Kong

Common names	Scientific names	DC/ N	PI	U/D	G/S	Α	Ро	PA	Abundance and Distribution
									in Hong Kong*
Punchinello	Zemeros flegyas	+	+						Common. Very common.
									Widely distributed throughout
									Hong Kong
Common Tiger	Danaus genutia			+					Common. Widely distributed
									throughout Hong Kong
Common Indian Crow	Euploea core	+	+						Common. Widely distributed
									throughout Hong Kong
Blue-spotted Crow	Euploea midamus					+			Very common. Widely
									distributed throughout Hong
									Kong
Ceylon Blue Glassy	Ideopsis similis		+	+					Very Common. Widely
Tiger									distributed throughout Hong
									Kong

Relative Abundance: +++ = abundant, ++ = moderate, + = few * AFCD (2022)

Annex 5 Dragonfly Species recorded within the Assessment Area during the verification surveys (Habitats: DC/N = drainage channel/nullah, PI = plantation, U/D = urbanized/disturbed, G/S = grassland/shrubland, A = agricultural land, Po = fishpond & flood storage pond; PA = Project Area)

Common names	Scientific names	DC/ N	PI	U/D	G/S	A	Ро	PA	Abundance and Distribution in Hong Kong*
Orange-tailed Midget	Agriocnemis femina					+	+		Abundant. Widely distributed in
									disused paddy fields, marshes,
									ditches and weedy ponds margins.
Orange-tailed Sprite	Agriocnemis pygmaea					+	+	+	Abundant. Widely distributed in
									weedy ponds, marshes,
									abandoned fields or grasslands
									adjacent to waters.
Common Bluetail	Ischnura senegalensis					+	+	+	Abundant. Widely distributed in all
									wetland habitats except fast
									flowing rivers throughout Hong
									Kong.
Red-faced Skimmer	Orthetrum chrysis	+							Abundant. Widely distribute in
									pools and marshy areas adjacent
									to flowing streams throughout
									Hong Kong
Common Blue	Orthetrum glaucum		+				+		Abundant. Widely distributed in
Skimmer									streams, conduits, drainage
									channels, seepages and road
									gutters throughout Hong Kong
Common Red	Orthetrum pruinosum					+			Abundant. Widely distributed in
Skimmer									slow streams, ponds, rain puddles
									and irrigation conduits

Common names	Scientific names	DC/ N	PI	U/D	G/S	A	Ро	PA	Abundance and Distribution in Hong Kong*
Green Skimmer	Orthetrum sabina			+	+	+		+	Abundant. Widely distributed in all
									wetland habitats throughout Hong
									Kong
Asian Amberwing	Brachythemis						+	+	Abundant. Widely distributed in
	contaminata								weedy ponds and sluggish
									streams
Wandering Glider	Pantala flavescens		+	+	+	+	+	+	Abundant. Widely distributed all
									over Hong Kong
Blue Dasher	Brachydiplax chalybea					+			Common. Widely distribute in
									marshes and weedy ponds
									throughout Hong Kong
Crimson Dropwing	Trithemis aurora	+		+		+			Abundant. Found in marshes,
									ponds, streams, and or even
									ornamental ponds in urban areas.
									Widely distributed throughout
									Hong Kong.

Relative Abundance: +++ = abundant, ++ = moderate, + = few * AFCD (2022)

Annex 6 Aquatic fauna Species recorded within the Assessment Area during the verification surveys

Common names	Scientific names	DC/ N	Commonness in Hong Kong*
Mozambique Tilapia	Oreochromis	++	Widespread in brackish waters, freshwater ponds,
	mossambicus		ditches, rivers and reservoirs. The fish is also
			cultivated in some local fish farms.
Grey Mullet	Mugil cephalus	+	Widespread in estuaries and marine environment in
			Hong Kong.

Common names	Scientific names	DC/ N	Commonness in Hong Kong*
Mudskipper	Periophthalmus	+	It is the commonest mudskipper in Hong Kong and
	cantonensis		almost found in all mudflats and estuaries.
Apple Snail	Pomacea canaliculata	+++	Common
Freshwater Snail	Melanoides	+	Common
	tuberculata		

Relative Abundance: +++ = abundant, ++ = moderate, + = few * AFCD (2022)