Appendix F-1 Ecological Survey Methodology (Terrestrial and Aquatic)

The ecological surveys were conducted in accordance with the guidelines set out in Annex 8 "Criteria for Evaluation Ecological Impact" and Annex 16 "Guidelines for Ecological Assessment" of the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM), "Ecological Baseline Survey for Ecological Assessment (EIAO Guidance Note No. 7/2002)" and "Methodologies for Terrestrial and Freshwater Ecological Baseline Surveys (EIAO Guidance Note No. 10/2004)".

The Assessment Area for the construction of a secondary boundary fence is defined as the areas within 500m from the proposed 21.7km alignment and the alternative alignments. Relevant literature within the Assessment Area was reviewed to identify information gaps relating to the ecological characteristics of the aquatic and terrestrial environment. Ecological field surveys were conducted between November 2007 to October 2008 covering wet and dry seasons for 12 months to fill the information gaps identified during the desktop study, with special attention paid to the ecologically sensitive areas. Details of the field survey programme are described below.

Habitat Survey

Habitat maps with suitable scale (1:1000 to 1:5000) showing the types and locations of habitats in the Assessment Area with the overlay plot of the Project boundary were produced.

Recent aerial photos were studied to identify the general land use/ habitat type of the Assessment Area. A preliminary habitat map was generated through translating the visualized condition in the aerial photos and the detailed habitats were marked during ground truthing exercise.

Ground truthing studies were conducted on-site to verify and delineate the habitat type that were identified or missing during desktop study. All ecological resources within habitats were recorded and a more focused survey on those identified important habitats were conducted to collect further information.

Vegetation Survey

Vegetation surveys were conducted quarterly along the proposed boundary fencing alignments where the vegetation was directly impacted.

The survey routes are distributed on the following four regions based on the assigned sections of the alignment.

- Section 1 from Pak Hok Chau Check Point at Mai Po to Lok Ma Chau Control Point near Lok Ma Chau railway station (Blue Alignment);
- Section 2 from Lok Ma Chau Control Point to Ng Tung River near Tak Yuet Lau (Red, Blue and Green Alignment);
- Section 3 from Ng Tung River to Lin Ma Hang (Red, Blue and Green Alignment); and
- Section 4 from Sha Tau Kok Town to Sha Tau Kok Control Point (Blue Alignment).

All the flora species observed along the survey routes were recorded and their relative abundance encountered through visual observation was also recorded.

Bird Survey

Nine bird surveys were conducted in 12-month period for each transect by walking through transects at areas of ecological importance. Bird species within 30m of the transect were identified visually by using a pair of binoculars or aurally by listening to their calls. The behaviour and number of birds

encountered were noted. Birds using the proposed works area and the adjacent area other than the sampling transect for feeding, nesting and roosting were also recorded to form a complete species list. Special attention was given to wetland birds and birds of conservation importance with reference to Note 3 Annex 16 of the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM) (EPD, 1997) and Fellowes *et al.* (2000).

Herpetofauna (Amphibians and Reptiles) Survey

Nine herpetofauna surveys were conducted for a 12-month period by active searching in conjunction with mammal survey and insect surveys during daytime. Fishponds, wet agricultural lands, marshes and natural stream courses were actively searched for potential breeding areas of amphibians and reptiles. Microhabitats like stones, crevices, leaf litter/debris, rotten log and abandoned cardboard were also examined or uncovered to search for the eggs and tadpoles of amphibians in aquatic habitats or to reveal the presence of the amphibians and reptiles hiding under these covers. Ad hoc records during other faunal group surveys were also included in the report to form a complete species list.

Two night surveys were conducted in the wet season during April to September 2008 to search for nocturnal species of amphibians and reptiles in their active stage. Hand and head torches were used to assist active searching in exposed areas of their potential habitats. Auditory detection of mating calls at their breeding sites was also recorded during night survey. Species identified, number and habitat use were included in the report.

Butterflies and Dragonflies Survey

The surveys for butterflies and dragonflies were conducted by visual observation and photography. Survey were conducted once a month during the wet season in their most active stage (April to September 2008) by walking through transect routes along the alignment and at major habitats including mature woodlands, natural stream courses, fishponds, wet agricultural lands, marshes and mangroves within the 500m assessment boundary (**Figure F1**). Hand net was used to collect live specimens for in-situ identification of adult butterflies and dragonflies and species collected were released upon examination. Butterflies and dragonflies encountered outside the transect routes but within the Assessment Area were also recorded to produce a complete species list.

Freshwater Fish Survey

Freshwater fish surveys were carried out once in dry season and three replicates in wet season at stream courses and freshwater marsh within the Assessment Area that may be impacted by the proposed development especially in Lin Ma Hang Stream SSSI and ecological mitigation areas near Yuen Leng Chai and Nam Hang. Fish surveys were conducted in fine weather avoiding too cold or just after heavy rainfall that the fishes become inactive or stream flow too fast for observation.

Bankside Counting

Bankside counting of freshwater fish species in clear, shallow and slow flow stream and at surface water level of freshwater marsh and fishpond were performed by observation with the aids of short focal length binoculars along the embankment. Species observed and the estimated abundance were recorded. The surrounding environment such as the substratum environment (e.g. sandy, muddy or rocky) and microhabitats observed (e.g. pools or riffles) were also recorded for facilitating the identification of freshwater fish species.

Pot trapping

Pot traps with baits were used for fish trapping. The traps were placed at deep water pool and around areas with riparian vegetation extending to the stream and marsh for 20 minutes. Disturbance to the area of traps deployed were avoided during the survey. The species and number of fish trapped were recorded. Live fish samples caught were released as soon as possible to avoid adverse impact on the fish species.

Netting

D-framed hand net was used for active searching of fish species hiding in microhabitats or in turbid water. Hand netting was performed at 50m intervals of the downstream and upstream portion of each stream section and at periphery of freshwater marsh. Live fish samples caught were released as soon as possible to avoid adverse impact on the fish species.

Mammal Survey

Mammal surveys were conducted in conjunction with herpetofauna surveys during daytime and at night time just after dusk. Any sighting and sign of traits (footprints, faeces or burrows) were recorded. The plantation woodland, secondary woodland, muddy areas adjacent to the streams were actively searched for mammal tracks where animals come to feed or drink. Feeding signs such as partially eaten vegetation or carcasses may provide evidence of traits of mammals. Habitat types, measurement and photographs were taken for signs of tracks to aid the identification works. Ad hoc sighting during other faunal group surveys were marked to produce a full species list. In view of the extensive information on bat colony recorded in Lin Ma Hang Lead Mine SSSI and no construction will be implemented close to this SSSI, field survey for bats in this SSSI was not carried out to avoid disturbance to the roost. Bat surveys were conducted by active searching of potential roosting site (e.g. rock crevices, bamboo stems, fronds of palm trees and buildings) during daytime supplemented with literature review of published information made available by government and non-government bodies.

Night surveys were conducted to search for nocturnal species of mammals. Hand and head torches were used to assist active searching in exposed areas of their potential habitats.

References

AFCD & EPD, 2002. Environmental Impact Assessment Ordinance, Cap. 499 Guidance Note No. 7/2002: Ecological Baseline Survey for Ecological Assessment.

AFCD & EPD, 2004. Environmental Impact Assessment Ordinance, Cap. 499 Guidance Note No. 10/2004: Methodologies for Terrestrial and Freshwater Ecological Baseline Surveys.

Hong Kong Environmental Protection Department, 1997. Technical Memorandum on Environmental Impact Assessment Process. Printing Department, Hong Kong Government.

Scientist Name	Native to	Status*	Relative Abundance**
	Hong Kong		
Acacia auriculiformis	No	NA	+
Acanthus ilicifolius	Yes	Common	+
Albizia lebbeck	No	NA	+
Alocasia odora	Yes	Very Common	+++
Alternanthera sessilis	Yes	Common	+
Alysicarpus vaginalis	Yes	Very Common	++
Amaranthus spinosus	No	Common	+
Amaranthus viridis	No	Very Common	+
Ridens alba	No	Very Common	+++
Bothriochlog bladhii	Yes	Very Common	++
Brachiaria mutica	No	Common	+++
Bridelia tomentosa	Yes	Very Common	+
Cajanus scarabaeoides	Yes	Common	++
Calliandra haematocephala	No	NA	+
Canavalia maritima	Ves	Common	+
Canna indica	No	NA	+
Casuarina equisetifolia	No	Common	
Caltis sinonsis	Ves	Common	
Chloris harbata	Ves	Very Common	<u>т</u>
Cinnamomum camphora	Ves	Common	т
Claistocalur operculatus	Ves	Common	
Clerodendrum inerme	Vac	Common	
Cocculus orbiculatus	Vac	Common	+
Coccura bongrignsis	No	Very Common	+
Conyza bonariensis	No	Common	+
Croialaria palliaa	No	Voru Common	+
Cynodon ddeiyion	Tes Vac	Common	+++
Daciylocienium degyptium	I es	Common	+
Desmoatum tortuosum	NO Var	Voru Common	+
Eleusine indica	Yes	Very Common	++
Emilia sonchijolia	I es	Very Common	+
Euphorbia niria	No	Common	+
Ficus microcarpa	Tes Vac	Voru Common	+
Heayons corymbosa	Yes	Very Common	+
Hibiscus rosa-sinensis	NO Var	NA Varu Camman	+
Hibiscus filiaceus	Yes	Common	+++
Ilex rotunda	NO No		+
Imperata koenigii	Yes	Very Common	+
	INO Na	Very Common	+
Ipomoea catrica Kalling a harvifali a	NO Var	Common	+++
Kyllinga brevifolia	Yes	NA	+
Lagerstroemia speciosa	INO Na	NA Varu Camman	+
Lantana camara	INO Nu	Common	+
Leucaena leucocepnala	NO	Common	+++
Litsea giutinosa	Yes	Very Common	+
Macaranga tanarius	Yes	Common	++
Macroptilium atropurpureum	NO	Common	+
Malvastrum coromandelianum	Yes	Common	+
Melastoma sanguineum	res	Common	+
Melia azedarach	NO	Common	++
Merremia hederacea	Yes	Kestricted	+
Mikania micrantha	NO	very Common	+++
Murraya paniculata	NO	INA NA	+
Musa x paradisiaca	NO	NA V C	+
Neyraudia reynaudiana	Yes	Very Common	++
Oxalis corymbosa	No	Common	+

 Table F-1a
 Plant Species recorded at Section 1

Scientist Name	Native to	Status*	Relative Abundance**
	Hong Kong		
Paederia scandens	Yes	Very Common	+++
Panicum maximum	No	Very Common	+++
Passiflora foetida	No	Common	+
Pennisetum purpureum	No	Very Common	+++
Polygonum chinense	Yes	Very Common	++
Portulaca oleracea	Yes	Very Common	+
Psidium guajava	No	Common	+
Rhus chinensis	Yes	Common	+
Rhynchelytrum repens	No	Very Common	++
Sapium sebiferum	Yes	Common	++
Schefflera arboricola	No	NA	+
Sida rhombifolia	Yes	Common	+
Solanum nigrum	Yes	Very Common	++
Sonchus arvensis	Yes	Very Common	+
Spathodea campanulata	No	NA	+
Syzygium cumini	No	NA	+
Tridax procumbens	No	Very Common	+
Vernonia cinerea	Yes	Very Common	+
Wedelia trilobata	No	Common	+

Note:

* Status (source from Corlett *et al*, 2000. Hong Kong Vascular Plants: Distribution and Status): NA =weed, introduced, cultivated or landscaping species not covered by Corlett's study; Protected = protected under Forestry Regulations (Cap. 96 sub. Leg.)

Common Name	Level of Concern	Wetland-dependent	Mean#
Little Grebe		^	
Tachybaptus ruficollis	LC	Y	3.11
Great Cormorant			
Phalacrocorax carbo	PRC	Y	29.67
Grey Heron			
Ardea cinerea	PRC	Y	21.00
Great Egret			
Egretta alba	PRC(RC)	Y	40.78
Intermediate Egret			
Egretta intermedia	RC	Y	0.11
Little Egret			
Egretta garzetta	PRC(RC)	Y	40.00
Cattle Egret			
Bubulcus ibis	(LC)	Y	0.11
Chinese Pond Heron			
Ardeola bacchus	PRC(RC)	Y	7.00
Black-crowned Night Heron			0.44
Nycticorax nycticorax	(LC)	Y	0.44
Black-faced Spoonbill	DCC	X 7	1.00
Platalea minor	PGC	Y	1.00
Eurasian Wigeon	DC	N/	10.11
Anas penelope	RC	Y	18.11
Common Teal	DC	V	156
Anas crecca	ĸc	Ĭ	1.30
Northern Pintali	DC	V	22.22
Ands deuld	KU	I	33.33
Anas chineata	PC	v	0.11
<u>Anus crypeutu</u>	KC.	1	0.11
Pandion haliaetus	PC	v	0.11
Black Kite	KC	1	0.11
Milvus migrans	(RC)	Ν	6.00
White-breasted Waterben	(ne)	11	0.00
Amaurornis phoenicurus	-	Y	1.44
Common moorhen		1	
Gallinula chloropus	_	Y	4.22
Little Ringed Plover			
Charadrius dubius	(LC)	Y	2.22
Green Sandpiper	, <i>,</i> ,		
Tringa ochropus	-	Y	0.44
Wood Sandpiper			
Tringa glareola	LC	Y	2.44
Common Sandpiper			
Actitis hypoleucos	-	Y	7.44
Spotted Dove			
Streptopelia chinensis	-	N	12.11
Common Koel			
Eudynamys scolopacea	-	N	1.11
Greater Coucal			
Centropus sinensis	-	N	0.56
Lesser Coucal			
Centropus bengalensis	-	N	0.44
Pacific Swift	a		0.55
Apus pacificus	(LC)	N	0.33
Little Swift	-	Y	0.56

Table F-1b Bird Species recorded at Section 1

Common Name	Level of Concern	Wetland-dependent	Mean#
Apus affinis			
Pied Kingfisher			
Ceryle rudis	(LC)	Y	0.33
Common Kingfisher			
Alcedo atthis	-	Y	1.11
White-throated Kingfisher			
Halcyon smyrnensis	(LC)	Y	0.89
Barn Swallow			
Hirundo rustica	-	Y	20.00
Yellow Wagtail			
Motacilla flava	-	Y	3.78
Grey Wagtail			
Motacilla cinerea	-	Y	1.00
White Wagtail			
Motacilla alba	-	Y	9.78
Richard's Pipit			
Anthus richardi	-	N	0.11
Red-whiskered Bulbul			
Pycnonotus jocosus	-	N	4.33
Chinese Bulbul			
Pycnonotus sinensis	-	N	10.22
Long-tailed Shrike			
Lanius schach	-	N	2.56
Oriental Magpie Robin			
Copsychus saularis	-	N	3.33
Common Stonechat			
Saxicola torquata	-	N	0.78
Masked Laughingthrush			2.00
Garrulax perspicillatus	-	N	3.00
Yellow-bellied Prinia), j	10.44
Prinia flaviventris	-	N	10.44
Plain Prinia		λŢ	
Prinia inornata	-	N	5.67
Common Tailorbird		N	0.11
Orthotomus sutorius	-	N	0.11
Dusky warbler		N	1.22
Vollow browed Worklor	-	IN	1.55
Phylloscopus inormatus		N	0.11
Great Tit	-	IN	0.11
Dieat IIt Parus major		N	0.11
I unus mujor Iananese White eve	-	11	0.11
Zosterons ignonicus	-	Ν	6.00
Chestnut Bunting		11	0.00
Enestinat Dunning Fmberiza rutila	-	Ν	1.67
White-rumped Munia		11	1.07
Lonchura striata	-	Ν	0.11
Scaly-breasted Munia		11	0.11
Lonchura punctulata	-	Ν	0.11
Eurasian Tree Sparrow			
Passer montanus	-	Ν	11.78
Red-billed Starling			
Sturnus sericeus	GC*	Y	33.33
Black-collared Starling			
Sturnus nigricollis	-	Ν	15.33
Common Myna			
Acridotheres tristis	-	Ν	0.44
Crested Myna	-	Ν	9.89

Common Name	Level of Concern	Wetland-dependent	Mean#
Acridotheres cristatellus			
Black Drongo			
Dicrurus macrocercus	-	Ν	0.89
Common Magpie			
Pica pica	-	Ν	1.22
Large-billed Crow			
Corvus macrorhynchos	-	Ν	0.22
Collared Crow			
Corvus torquatus	LC	Y	0.22
Azure-winged Magpie			
Cyanopica cyanus	-	Ν	1.89

*Red-billed Starling is considered by Fellows *et al.* (2002) to be of Global Concern. Since then, the global population has been increasing and the species is not now considered globally threatened (BirdLife International 2008). A listing of Regional Concern (RC), based on the importance of the large roosts present near Deep Bay, is considered to be more appropriate.

#Mean values given are the mean number recorded on all transects. This is included to reflect the regularity of a species in the study area.

Scientist Name	Native to	Status*	Relative Abundance**
	Hong Kong		
Acacia confusa	No	NA	+
Achyranthes aspera	Yes	Common	+
Adiantum capillus	Yes	Common	+
Ageratum conyzoides	No	Common	+
Albizia lebbeck	No	NA	+
Alchornea trewioides	Yes	Common	+
Alocasia odora	Yes	Very Common	++
Alternanthera sessilis	Yes	Common	+
Alysicarpus vaginalis	Yes	Very Common	+
Amaranthus viridis	Yes	Very Common	+
Annona squamosa	No	NA	+
Antidesma ghaesembilla	Yes	NA	+
Apluda mutica	Yes	Very Common	+
Aporusa dioica	Yes	Very Common	+
Aquilaria sinensis	Yes	Common	+
Averrhoa carambola	No	NA	+
Axonopus compressus	No	Common	+
Bambusa chungii	No	NA	+
Bambusa multiplex	No	NA	+
Bambusa ventricosa	No	NA	+
Berchemia lineata	Yes	Rare	+
Bidens alba	No	Very Common	+++
Blechnum orientale	Yes	Very Common	+
Blumea clarkei	Yes	Common	+
Bombax ceiba	No	NA	+
Bothriochloa bladhii	Yes	Very Common	++
Brachiaria mutica	No	Common	+++
Breynia fruticosa	Yes	Very Common	+
Bridelia tomentosa	Yes	Very Common	+
Broussonetia papyrifera	Yes	Very Common	+
Brucea javanica	Yes	Common	+
Cajanus scarabaeoides	Yes	Common	+
Callicarpa nudiflora	Yes	Common	+
Canna indica	No	NA	+
Cansjera rheedii	Yes	Restricted	+
Capillipedium parviflorum	Yes	Very Common	+
Capsicum annuum	No	NA	+
Carica papaya	No	NA	+
Carvota mitis	No	NA	+
Cassytha filiformis	Yes	Very Common	+
Casuarina equisetifolia	No	Common	+
Celtis sinensis	Yes	Common	+++
Cenchrus echinatus	No	Common	+
Chenopodium ambrosiodides	No	Common	+
Chloris barbata	Yes	Very Common	++
Cinnamomum camphora	Yes	Common	+
Citrus maxima	No	NA	+
Citrus sinensis	No	NA	+
Clausena lansium	No	NA	+
Cleistocalyx operculatus	Yes	Common	+
Cleome gynandra	No	NA	+
Clerodendrum cvrtophyllum	Yes	Common	+
Cocculus orbiculatus	Yes	Common	++
Colocasia esculenta	Yes	NA	+
Commeling nudiflorg	Yes	Common	+
commenta magiora	100		

 Table F-2a
 Plant Species recorded at Section 2 (Blue and Green Alignments)

Scientist Name	Native to	Status*	Relative Abundance**
	Hong Kong		
Conyza bonariensis	No	Very Common	+
Cordyline fruticosa	No	NA	+
Cratoxylum cochinchinense	Yes	Very Common	+
Crinum asiaticum	Yes	Restricted	+
Crotalaria pallida	No	Common	+
Croton crassifolius	Yes	Very Common	+
Cuscuta australis	Yes	NA	+
Cyclosorus interruptus	Yes	Common	++
Cymbopogon caesius	Yes	Very Common	+
Cynodon dactylon	Yes	Very Common	+++
Cyperus malaccensis	Yes	Common	+
Cyperus rotundus	Yes	Very Common	+
Cyrtococcum patens	Yes	Very Common	+
Dactyloctenium aegyptium	Yes	Common	++
Daphniphyllum calycinum	Yes	Common	+
Delonix regia	No	NA	+
Desmodium heterocarpon	Yes	Very Common	+
Desmodium tortuosum	No	Common	+
Desmos chinensis	Yes	Common	++
Dianella ensifolia	Yes	Very Common	+
Dicranopteris pedata	Yes	Very Common	+++
Dieffenbachia seguine	No	NA	+
Digitaria longiflora	Yes	Very Common	+
Dimocarpus longan	No	Restricted	++
Dioscorea fordii	Yes	Common	+
Diospyros kaki	Yes	NA	+
Dracaena fragrans	No	NA	+
Echinochloa crusgalli	Yes	Common	+
Elephantopus tomentosus	Yes	Common	+
Eleusine indica	Yes	Very Common	+++
Eleutherococcus trifoliatus	Yes	Restricted	+
Embelia laeta	Yes	Very Common	+
Embelia ribes	Yes	Common	+
Emilia sonchifolia	Yes	Very Common	++
Eragrostis unioloides	Yes	Common	+
Erigeron karvinskianus	No	Restricted	+
Eriobotrya japonica	No	NA	+
Euphorbia antiquorum	No	NA	+
Euphorbia hirta	No	Very Common	+
Eurya sp	Yes	NA	+
Ficus elastica	NO	NA	+
Ficus hirta	Yes	Common	++
Ficus hispida	Yes	Very Common	+++
Ficus microcarpa	Yes	Common	+
Ficus superba	Yes	NA	+
Ficus variegata	Yes	Common	+
<i>Ficus virens</i>	Yes	Common	+
Glochidion eriocarpum	Yes	very Common	+
Giochiaton lanceolarium	Yes		+
Giochialon puberum	Yes	Kesuricted	+
Glochidion wrightu	Yes	very Common	+
Glochidion zeylanicum	Yes	Common	+
Hedychium coronarium	NO No	NA	++
Hedyotis auricularia	Yes	Common	++
Hedyotis corymbosa	Yes	very Common	++
Hedyotis hedyotidea	Yes	very Common	+

Scientist Name	Native to	Status*	Relative Abundance**
	Hong Kong		
Helicteres angustifolia	Yes	Very Common	+
Heterosmilax japonica	Yes	Common	+
Hibiscus tiliaceus	Yes	Very Common	++
Hymenocallis littoralis	No	NA	+
Ilex asprella	Yes	Very Common	++
Ilex pubescens	Yes	Very Common	+
Imperata koenigii	Yes	Very Common	+
Ipomoea aquatica	No	Very Common	+
Ipomoea batatas	No	NA	+
Ipomoea cairica	No	Very Common	+++
Ipomoea pes-caprae	Yes	Common	+
Ipomoea triloba	Yes	Common	+
Ischaemum aristatum	Yes	Common	+
Itea chinensis	Yes	Very Common	+
Kyllinga monocephala	Yes	NA	+
Lagerstroemia speciosa	No	NA	+
Lantana camara	No	Very Common	++
Leucaena leucocephala	No	Common	++
Ligustrum sinense	Yes	Common	+++
Lindera communis	Yes	Very Common	+
Lindernia crustacea	Yes	Restricted	+
Lindsaea orbiculata	Yes	Very Common	+
Liriope spicata	Yes	Very Common	+
Litchi chinensis	No	Restricted	+
Litsea cubeba	Yes	Common	+
Litsea cubeba	Yes	Common	+
Litsea glutinosa	Yes	Very Common	+++
Litsea rotundifolia	Yes	Very Common	+
Lonicera japonica	Yes	Restricted	+
Lophostemon confertus	No	NA	+
Ludwigia octovalvis	Yes	Common	+
Ludwigia perennis	Yes	Restricted	+
Lygodium japonicum	Yes	Very Common	+++
Macaranga tanarius	Yes	Common	+++
Macroptilium atropurpureum	No	Common	+
Mallotus apelta	Yes	Common	+
Mallotus paniculatus	Yes	Very Common	+
Mangifera indica	No	NA	+
Melaleuca quinquenervia	No	NA	+
Melastoma candidum	Yes	Common	++
Melastoma dodecandrum	Yes	Common	+
Melia azedarach	No	Common	+
Melicope pteleifolia	Yes	Common	+
Merremia hederacea	Yes	Restricted	+
Microcos paniculata	Yes	Common	+++
Microstegium ciliatum	Yes	Very Common	+++
Mikania micrantha	No	Very Common	+++
Mimosa diplotricha	No	Rare#	+
Mimosa pudica	No	Very Common	++
Miscanthus floridulus	Yes	Common	+
Miscanthus sinensis	Yes	Very Common	+
Morus alba	Yes	Common	+
Murraya paniculata	No	NA	+
Musa x paradisiaca	No	NA	+
Mussaenda pubescens	Yes	Very Common	++
Neyraudia reynaudiana	Yes	Very Common	++

Scientist Name	Native to	Status*	Relative Abundance**
	Hong Kong		
Oxalis corniculata	Yes	Very Common	+
Oxalis corymbosa	No	Common	+
Paederia scandens	Yes	Very Common	+++
Palhinhaea cernua	Yes	Very Common	++
Pandanus tectorius	Yes	Very Common	+
Panicum brevifolium	Yes	Very Common	+
Panicum maximum	No	Very Common	+++
Panicum repens	Yes	Very Common	+
Paspalum conjugatum	No	Common	+
Passiflora foetida	No	Common	+
Pennisetum alopecurodies	Yes	Common	+
Pennisetum purpureum	No	Very Common	++
Phragmites australis	Yes	Very Common	+
Phragmites karka	Yes	Very Common	+
Phyllanthus cochinchinensis	Yes	Very Common	+
Phyllanthus emblica	Yes	Very Common	+
Phyllanthus reticulatus	Yes	Common	++
Pilea microphylla	No	Very Common	+
Pistia stratiotes	Yes	Common	+
Plumeria rubra	No	NA	+
Polygonum chinense	Yes	Very Common	+
Pouzolzia zeylanica	Yes	Common	+
Prunus persica	No	NA	+
Psidium guajava	No	Common	+
Psychotria asiatica	Yes	Very Common	+
Psychotria serpens	Yes	Very Common	+
Pteris semipinnata	Yes	Very Common	+
Pueraria lobata	Yes	Common	+
Pueraria phaseoloides	Yes	Very Common	+
Rhaphiolepis indica	Yes	Very Common	+
Rhodomyrtus tomentosa	Yes	Very Common	+++
Rhus chinensis	Yes	Common	+
Rhus hypoleuca	Yes	Common	++
Rhus succedanea	Yes	Common	+
Rhynchelytrum repens	No	Very Common	+++
Richardia scabra	No	Common	+
Ricinus communis	No	Restricted	+
Rorippa indica	Yes	Common	+
Rosa laevigata	Yes	Common	+
Rubus parvifolius	Yes	Common	+
Saccharum officinarum	No	NA	+
Sageretia thea	Yes	Very Common	+
Sansevieria trifasciata	No	NA	+
Sapium sebiferum	Yes	Common	+
Schefflera heptaphylla	Yes	Very Common	+
Scoparia dulcis	No	Common	++
Senecio scandens	Yes	Common	+
Sesbania javanica	Yes	NA	+++
Setcreasea purpurea	No	NA	+
Sida rhombifolia	Yes	Common	+
Smilax china	Yes	Very Common	+
Smilax glabra	Yes	Very Common	+
Solanum nigrum	Yes	Very Common	+
Solanum torvum	No	Common	+
Sphenomeris chinensis	Yes	Very Common	+
Sporobolus fertilis	Yes	Very Common	++

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Stachytarpheta jamaicensis	No	Common	+
Stephania longa	Yes	Common	++
Sterculia lanceolata	Yes	Very Common	+
Tadehagi triquetrum	Yes	Very Common	+
Tithonia diversifolia	No	Common	+
Trema tomentosa	Yes	Common	+
Urena lobata	Yes	Common	+
Uvaria macrophylla	Yes	Common	+
Vernonia cinerea	Yes	Very Common	+
Wedelia trilobata	No	Common	++
Wikstroemia indica	Yes	Common	+
Wikstroemia nutans	Yes	Common	+
Zanthoxylum nitidum	Yes	Very Common	+
Zea mays	No	NA	+

Note:

* Status (source from Corlett *et al*, 2000. Hong Kong Vascular Plants: Distribution and Status):

NA =weed, introduced, cultivated or landscaping species not covered by Corlett's study; # it is an introduced species rarely occur in Hong Kong but not native rare species of conservation interest

Protected = protected under Forestry Regulations (Cap. 96 sub. Leg.)

Scientist Name	Netine to		
Scientist Name	Native to	Status*	Kelative Abundance**
	Hong Kong	Varu Camman	
Alysicarpus vaginalis	Yes	Very Common	++
Apluaa mutica	Yes	Very Common	+
Bidens alba	NO	Very Common	+++
Bombax ceiba	No	NA	+
Bothriochloa bladhii	Yes	Very Common	+++
Brachiaria mutica	No	Common	++
Cajanus scarabaeoides	Yes	Common	++
Cassia tora	No	Common	+
Chloris barbata	Yes	Very Common	++
Microstegium ciliatum	Yes	Very Common	+
Cynodon dactylon	Yes	Very Common	+++
Dactyloctenium aegyptium	Yes	Common	+
Digitaria sanguinalis	Yes	Very Common	+
Euphorbia hirta	No	Very Common	++
Hibiscus tiliaceus	Yes	Very Common	+
Imperata koenigii	Yes	Very Common	+++
Ipomoea cairica	No	Very Common	+
Îschaemum aristatum	Yes	Common	++
Lantana camara	No	Very Common	+
Leucaena leucocephala	No	Common	+
Lygodium japonicum	Yes	Very Common	++
Macroptilium atropurpureum	No	Common	+
Melia azedarach	No	Common	+
Mikania micrantha	No	Very Common	++
Mimosa diplotricha	No	Rare#	+
Mimosa pudica	No	Very Common	+++
Miscanthus sinensis	Yes	Very Common	++
Nevraudia revnaudiana	Yes	Very Common	++
Paederia scandens	Yes	Very Common	+
Panicum maximum	No	Very Common	++
Passiflora foetida	No	Common	+
Rhynchelytrum repens	No	Verv Common	+++
Scoparia dulcis	No	Common	++
Sesbania javanica	Yes	NA	+++
Sida acuta	Yes	Common	+
Sonchus arvensis	Yes	Very Common	+
Sporobolus fertilis	Yes	Very Common	++
Tridax procumbens	No	Very Common	++
Urena lobata	Ves	Common	+
Wedelia trilobata	No	Common	+++
	INU	Common	

 Table F-2b
 Plant Species recorded at Section 2 (Red Alignment)

Note:

* Status (source from Corlett *et al*, 2000. Hong Kong Vascular Plants: Distribution and Status):

NA =weed, introduced, cultivated or landscaping species not covered by Corlett's study; # it is an introduced species rarely occur in Hong Kong but not native rare species of conservation interest

Protected = protected under Forestry Regulations (Cap. 96 sub. Leg.)

Little GrebeLCY5.22Great Crested GrebeRCY0.11Podiceps cristatusRCY0.11Great CornorantPRCY66.11Grey HeronPRCY7.89Purple HeronRCY0.22Great EgretPRC(RC)Y10.44Little EgretPRC(RC)Y10.44Little EgretPRC(RC)Y10.78Cattle EgretPRC(RC)Y10.78Bubulcus ibis(LC)Y10.00Chinese Pond HeronPRC(RC)Y10.11Striated HeronPRC(RC)Y0.11Black-crowned Night HeronPRC(RC)Y0.11Butorides striatus(LC)Y0.33Cinnamo BiternDDDIxobrychus sinensis(LC)Y0.33Cinnamo BiternDDDIxobrychus sinensisLCY0.22Eurasian WigeonRCY0.22Common TealRCY0.22Common TealRCY0.22Anas acutaRCY0.33Tufted DuckCY0.33Tufted DuckCY0.11Black KiteNNMito-belled Sea EagleNNAnas acutaRCY0.22Common morkenCY0.11Black KiteNDDMito-belled Sea EagleNN<	Common Name	Level of Concern	Wetland-dependent	Mean#
Tachybapus rulicollisLCY5.22Great Crested GrebeRCY0.11Great CornorantRCY0.11Great CornorantPRCY66.11Grey HeronRCY0.22Ardea cinereaPRCY0.22Great EgretPressonPresson10.44Little EgretPRC(RC)Y10.44Little EgretPRC(RC)Y10.04Egretta albaPRC(RC)Y10.00Chinese Pond HeronPRC(RC)Y10.01Striated HeronPRC(RC)Y10.11Striated HeronPRC(RC)Y0.11Black-crowed Night HeronPRC(RC)Y0.11Black-crowed Night HeronPRC(RC)Y0.33Cinnamo BitternDDIcobrychus sinensis(LC)Y0.22Eurasian WigeonECY0.22Eurasian WigeonRCY0.22Common TealAnas areacaRCYAnas areacaRCY0.33Tufted DuckCY0.33Tufted DuckCY0.33Tufted DuckRCY0.22Eurasian WigeonRCY0.22Pandion haliaetusRCY0.33Tufted DuckCY0.33Tufted DuckCY0.33Tufted DuckCY0.33Great BitternCY0.11 </td <td>Little Grebe</td> <td></td> <td></td> <td></td>	Little Grebe			
Great Crested GrebeRCY 0.11 Padiceps cristatusRCY 0.11 Great CormorantPRCY 66.11 $Phalacrocorax carboPRCY7.89Purple HeronRCY0.22Ardea cinereaPRC(RC)Y10.44Little EgretPRC(RC)Y10.44Egretta albaPRC(RC)Y10.44Little EgretT10.44Egretta garcettaPRC(RC)Y10.44Bubalcus ibis(LC)Y10.06Chinese Pond HeronT10.00Ardeola bacchusPRC(RC)Y0.11Buchats ibis(LC)Y0.11Buchates striatus(LC)Y0.11Buchates striatus(LC)Y0.11Necticorax myclicorax(LC)Y0.33Cinnamone BitternT0.33Ixobrychus sinensis(LC)Y0.22Eurasian WigconT0.22Cormon TealT0.00Anas creccaRCY0.22Cormon TealT0.000.033Anas creccaRCY0.22Eurasian WigconT0.033Anas creccaRCY0.22Cormon TealT0.000Anas creccaRCY0.22Anas creccaRCY0.11Anas cretaRCY$	Tachybaptus ruficollis	LC	Y	5.22
Podiceps cristansRCY0.11Great CornorantPRCY06.11Grey HeronPRCY66.11Ardea cinereaPRCY7.89Purple HeronRCY0.22Great EgretPRC(RC)Y10.44Little EgretPRC(RC)Y10.44Little EgretPRC(RC)Y10.44Striated HeronPRC(RC)Y10.11Striated HeronPRC(RC)Y10.11Black-rowned Night HeronT0.11Black-rowned Night HeronT0.11Black-rowned Night HeronT0.11Striated HeronT0.11Black-rowned Night HeronT0.11Jorcenza nycticorax(LC)Y0.33Cinnamon BitternT0.22Common TealT0.22Anas penelopeRCY0.22Common TealT0.22Anas creccaRCY0.33Tafled DuckLCY2.78Aynya fuligulaLCY2.78Anas acutaRCY0.11Black KiteTTHuite-bened StateT1.11White-bened StateT0.11Great BitternT0.22Common TealTTAnas acutaRCY0.22Common morthenTTHaliaetusRCY0.11Great BitternTT<	Great Crested Grebe			
Great Cornorant Phalacrocorax carboPRCY66.11 $Ardea cinereaPRCY7.89Purple HeronArdea purpureaRCY0.22Great EgretRCY0.22Great EgretY10.44Little EgretY13.78Cattle EgretY10.44Little EgretY10.47Bubalcus ibis(LC)Y10.10Chinese Pond HeronArdeola bacchusPRC(RC)Y10.11Striated HeronY0.11Black-crowned Night HeronNycticorax nycticorax(LC)Y0.33Cinnamon BitternLobrychus sinensis(LC)Y0.33Cinnamon BitternButorides striatusLCY0.11Great BitternBotaurs stellarisRCY0.22Eurasian WigeonAnas penclopeRCY0.22Anas cerccaRCY0.33Tufted DuckAnsa serccaY0.33Tufted DuckMitws migransRCY0.33Tufted DuckAnas acutaRCY0.11Black KiteMitws migransRCY0.11Black KiteTufted DuckAnsa sectaY0.22Common TealAnas acutaRCY0.11Black KiteTufted DuckAnsa sectaY0.11Great BiternAmaurornis phoenicurus-Y0.11Black KiteTufted DuckAnsa sectaY0.11Great BiternAmaurornis phoe$	Podiceps cristatus	RC	Y	0.11
Phalacrocorax carboPRCY66.11Grey HeronArdea cinereaPRCY7.89Purple HeronArdea purpureaRCY0.22Great EgretEgretia albaPRC(RC)Y10.44Little EgretEgretia garzettaPRC(RC)Y10.44Little EgretBubulcus ibis(LC)Y1.00Chinese Pond HeronArdeola bacchusPRC(RC)Y0.11Striated HeronMycticorax myclicorax(LC)Y0.33Cinnamon BitternNorticorax myclicorax(LC)Y0.33Cinnamon BitternBotanias stilarisRCY0.22Common TealAnas creccaRCY0.33Tufted DuckAnas acutaRCY0.33Tufted DuckAnas acutaRCY0.33Tufted DuckAnas acutaRCY0.11Black-KiteAnas acutaRCY0.33Tufted DuckAnas acutaRCY0.33Tufted DuckAnas acutaRCY<	Great Cormorant			
Grey Heron Ardea cinereaPRCY7.89Purple Heron Ardea purpureaRCY0.22Great Egret Egretta albaPRC(RC)Y10.44Little Egret Egretta garzettaPRC(RC)Y10.44Little Egret Egretta garzettaPRC(RC)Y1.00Chinese Pond Heron Ardeola bacchusPRC(RC)Y1.00Striated Heron Butorides striatus(LC)Y0.11Striated Heron Norticorax nychicorax(LC)Y0.11Black-crowned Night Heron Norticorax nychicorax(LC)Y0.33Cinnamon Bittern Lxobrychus sinensis(LC)Y0.33Cinnamon Bittern Botany stellarisRCY0.22Eurasian Wigeon Anas penelopeRCY0.22Common Teal Anas creccaRCY0.33Tufted Duck Mittern Anas creccaY0.22Morther Pintail MitailaCY0.33Tufted Duck Mitte-brelied Sea Eagle Huliaeetus leucogasterY0.22Mitte-breasted Watchen Galimula chioropus-Y2.78Osprey Galandon haliaetus-Y0.11Common moorhen Gallinula chioropus-Y2.56Eurasian Coot Fulca atra-Y0.22Little Ringed Plover Charadrius dubius-Y0.22Little Ringed Plover Charadrius dubius-Y0.22Little Ringed Plover Charadrius dubiss-Y	Phalacrocorax carbo	PRC	Y	66.11
Ardea cinereaPRCY7.89Purple HeronRCY0.22Great EgretRCY0.22Great EgretPRC(RC)Y10.44Little EgretPRC(RC)Y13.78Cattle EgretImage: Construction of the second seco	Grey Heron			
Purple HeronRCY 0.22 Great EgretPRC(RC)Y 10.44 Little EgretPRC(RC)Y 13.78 Cattle EgretPRC(RC)Y 13.78 Cattle EgretPRC(RC)Y 10.00 Chinese Pond HeronPRC(RC)Y 10.00 Ardeola bacchusPRC(RC)Y 10.01 Butorides striatus(LC)Y 0.11 Black-crowned Night Heron 0 0 Nycticorax nycticorax(LC)Y 0.33 Cinnamon Bittern 1 0 Ixobrychus sinensis(LC)Y 0.33 Cinnamon Bittern 0 0 Ixobrychus sinensisRCY 0.22 Eurasian Wigeon 0 0 0 Anas penelopeRCY 0.22 Common Teal 0 0 0 Anas creecaRCY 0.33 Tufted Duck 0 0 0 Anas creecaRCY 0.33 Tufted Duck 0 0 0 Mitvas migrans(RC)N 1.11 White-belied Sea Eagle 0 0 Haliaeetus leucogaster C Y 0.25 Eurasian Coot 0 0 0 Haliaeetus leucogaster C Y 0.22 Common moorhen $-$ Y 0.25 Eurasian Coot 0 0 0 Haliaeetus leucogaster 0 0 Haliaeetus leucogaster <td>Ardea cinerea</td> <td>PRC</td> <td>Y</td> <td>7.89</td>	Ardea cinerea	PRC	Y	7.89
Ardea purpureaRCY 0.22 Great EgretPRC(RC)Y10.44Little EgretPRC(RC)Y13.78Egretta garzettaPRC(RC)Y13.78Cattle EgretPRC(RC)Y10.00Chinese Pond HeronY10.01Ardeola bacchusPRC(RC)Y10.11Striated HeronY0.11Black-crowned Night HeronY0.11Nycticorax nycticorax(LC)Y0.33Cinnamon BitternY0.33Lobrychus sinensis(LC)Y0.22Great BitternY0.22Botaurus stellarisRCY0.22Common TealY0.22Anas penelopeRCY0.22Common TealY0.3311Anas creccaRCY0.33Tufted DuckY0.11Milvas migrans(RC)N1.11Milvas migrans(RC)N1.11Black KiteY0.11Black KiteY0.11Black KiteY0.11Milvas migrans(RC)Y7.78White-breasted Waterhen-Y2.56Eurasian CootY2.262.56Eurasian CootY0.222.56Eurasian CootY0.22Little Ringed Plover-Y0.11Green Sandpiper-Y0.22Little Ringed Plover-Y	Purple Heron			
Great EgretPRC(RC)Y10.44Little Egret9RC(RC)Y13.78Egretta garzettaPRC(RC)Y13.78Cattle Egret9RC(RC)Y1.00Chinese Pond Heron9RC(RC)Y10.11Ardeola bacchusPRC(RC)Y10.11Butorides striatus(LC)Y0.11Black-crowned Night Heron90.33Nycticorax nycticorax(LC)Y0.33Cinnamon Bittern00.33Lxobrychus sinensis(LC)Y0.22Eurasian WigeonRCY0.22Anas penelopeRCY0.22Eurasian WigeonRCY0.33Anas creccaRCY0.33Tufted Duck111Anas acutaRCY0.33Tufted Duck111Anas acutaRCY0.33Tufted Duck111Mitevs migrans(RC)N1.11White-bellied Sea Eagle11Haliacetus leucogasterRC)Y7.78White-beated Waterhen-Y0.22Litter Ringed Plover-Y0.22Litter Ringed Plover-Y0.11Great Bitter-Y0.21Jack Kite111Muta migrans-Y0.11Great Bitter-Y0.11Great Bitter-<	Ardea purpurea	RC	Y	0.22
Egreta albaPRC(RC)Y10.44Little EgretPRC(RC)Y13.78Egretta garzettaPRC(RC)Y13.78Cattle Egret(LC)Y1.00Bubulcus ibis(LC)Y10.11Striated HeronPRC(RC)Y10.11Black-crowned Night Heron(LC)Y0.11Black-crowned Night Heron(LC)Y0.56Yellow Bittern(LC)Y0.33Cinnamon Bittern(LC)Y0.11Great Bittern(LC)Y0.22Eurasian Wigeon(LC)Y0.22Anas penelopeRCY0.22Common Teal(LC)Y0.33Anas creccaRCY0.33Tufted Duck(RC)Y0.31Anas acutaRCY0.33Tufted Duck(RC)Y0.11Black Kite(RC)Y0.11Black Kite(RC)Y0.11Black Kite(RC)Y0.11Black Kite(RC)Y0.11Mite-belled Sea Eagle(RC)Y0.11Haliacetus leucogaster(RC)Y2.56Eurasian Coot(LC)Y0.22Little Ringed Plover(LC)Y0.11Green Sandpiper-Y0.26Haliacetus leucogasterRCY0.26Eurasian Coot-Y0.26Fulica atraRCY	Great Egret			
Little Egret Egretta garzettaPRC(RC)Y13.78Cattle Egret Bubulcus ibis(LC)Y1.00Chinese Pond Heron Ardeola bacchusPRC(RC)Y10.11Striated Heron Butorides striatus(LC)Y0.11Black-crowned Night Heron Nycticorax nycitcorax(LC)Y0.33Cinnamon Bittern Izobrychus sinensis(LC)Y0.33Cinnamon Bittern Botauras stellarisRCY0.22Eurasian Wigcon Anas penelopeRCY0.22Common Teal Anas acutaRCY0.33Tufted DuckICY0.33Tufted Duck MitherbeliadICY0.33Tufted Duck Must acutaICY0.22Common Teal Anas acutaRCY0.33Tufted Duck Mithus migransICY2.78Osprey Pandion haliaetusRCY0.11Black Kite Milus migransICY7.78White-bested Waterhen Amaurornis phoenicurus-Y0.22Little Sea Eagle Haliaaetus leucogasterICY7.78White-bested Stilt Himantopus himantopusRCY0.22Little Binged Stilt Himantopus himantopus-Y0.24Haliaetus leucogaster Chararin stubiusICY0.11Green Sandpiper Chararin stubius-Y0.22Little Ringed Plover Chararin stubius-Y0.26Little Ringed	Egretta alba	PRC(RC)	Y	10.44
Egretta garzettaPRC(RC)Y13.78Cattle Egret	Little Egret			
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Bubulcus ibis(LC)Y1.00Chinese Pond Heron $PRC(RC)$ Y10.11Marcela bacchus $PRC(RC)$ Y10.11Striated Heron $ULC)$ Y0.11Black-crowned Night Heron VY 0.11Nycticorax nycticorax (LC) Y0.56Yellow Bittern $UC)$ Y0.33Lxobrychus sinensis (LC) Y0.33Cinnamon Bittern UC Y0.11Great Bittern UC Y0.22Eurasian Wigeon RC Y0.22Common Teal Q Q Q Anas penelopeRCY0.33Tufted Duck UC Y0.33Tufted Duck Q Q Q Anas cautaRCY0.33Tufted Duck Q Q Q Mihus migransRCY0.11Black Kite Q Q Q Mihus migrans Q Q Q Mihus migrans Q Q Q Mihus migrans Q Q Q Mihus honorhen Q	Cattle Egret	, , , , , , , , , , , , , , , , , , ,		
Chinese Pond Heron Ardeola bacchusPRC(RC)Y10.11Striated Heron Butorides striatus(LC)Y0.11Black-crowned Night Heron Nycticorax nycticorax(LC)Y0.11Black-crowned Night Heron Nycticorax nycticorax(LC)Y0.33Cinnamon Bittern Ixobrychus sinensis(LC)Y0.33Cinnamon Bittern Botaurus stellarisRCY0.22Eurasian Wigeon Anas penelopeRCY0.22Common Teal Anas creccaRCY0.22Common Teal Anas acutaRCY0.33Tufted Duck Mythy fuligulaLCY2.78Osprey Pandion haliaetusRCY0.11Black Kite Miłwus migrans(RC)N1.11Mite-bellied Sea Eagle Haliaeetus leucogaster-Y0.22Eurasian Coot Fullca arta-Y0.11Common moorhen Gallinula chloropus-Y0.11Common moorhen Gallinula chloropus-Y0.11Common moorhen Gallinula chloropus-Y0.22Little Ringed Plover Charadrius dubius-Y0.21Common moorhen Gallinula chloropus-Y0.22Little Ringed Plover Charadrius dubius-Y0.22Little Ringed Plover Charadrius dubius-Y0.21Common moorhen Gallinula chloropus-Y0.22Little Ringed Plover Charadrius dubius- <td>Bubulcus ibis</td> <td>(LC)</td> <td>Y</td> <td>1.00</td>	Bubulcus ibis	(LC)	Y	1.00
Ardeola bacchusPRC(RC)Y10.11Striated Heron(LC)Y0.11Black-crowned Night Heron(LC)Y0.11Black-crowned Night Heron(LC)Y6.56Yellow Bittern(LC)Y0.33Cinnamon BitternLCY0.11Kobrychus sinensis(LC)Y0.33Cinnamon BitternLCY0.11Great BitternRCY0.22Eurasian WigconRCY0.22Common TealRCY0.22Common TealRCY0.33Tufted DuckLCY2.78OspreyPandion haliaetusRCY0.33Tufted DuckLCY2.78OspreyRCY0.11Black KiteN1.11Mitvus migrans(RC)N1.11White-breasted Waterhen-Y0.11Common noorhen-Y0.26Eurasian Coot-Y2.56Eurasian Coot-Y2.56Eurasian Coot-Y2.44Black-winged StiltRCY0.22Little Ringed Plover-Y0.22Little Ringed Plover-Y0.21Charadrius dubius(LC)Y0.11Green Sandpiper-Y2.44Black-winged Stilt-Y0.22Little Ringed Plover-Y0.11 <td>Chinese Pond Heron</td> <td></td> <td></td> <td></td>	Chinese Pond Heron			
Striated Heron (LC) Y 0.11 Black-crowned Night Heron (LC) Y 0.11 Nycticorax nycticorax (LC) Y 6.56 Yellow Bittern LC Y 0.33 Cinnamon Bittern LC Y 0.11 Great Bittern RC Y 0.22 Eurasian Wigeon RC Y 0.22 Common Teal RC Y 0.22 Anas penelope RC Y 0.22 Common Teal RC Y 0.33 Tufted Duck Y 2.78 Aythya fuligula LC Y 2.78 Osprey RC Y 0.11 Black Kite $Haliaetus$ RC YMitte-bellied Sea Eagle RC Y 0.11 Haliaeetus leucogaster RC Y 0.11 White-breasted Waterhen $-$ Y 0.22 Common moorhen $-$ Y 0.24 Haliaeetus leucogaster RC Y 0.24 Halmantopus himantopus $-$ Y 0.24 Himantopus himantopus $-$ Y 0.22 Little Ringed Plover $-$ Y 0.22 Little Ringed Plover $-$ Y 0.22 Little Ringed Plover $-$ Y 0.11 Green Sandpiper $-$ Y 0.11 Green Sand	Ardeola bacchus	PRC(RC)	Y	10.11
Butorides striatus(LC)Y0.11Black-crowned Night Heron Nycticorax nycticorax(LC)Y6.56Yellow Bittern Ixobrychus sinensis(LC)Y0.33Cinnamon Bittern Ixobrychus cinnamomeusLCY0.11Great Bittern Botaurus stellarisRCY0.22Eurasian Wigeon Anas penelopeRCY0.22Common Teal Anas creccaRCY0.33Tufted Duck Atus agualRCY0.33Tufted Duck Mithus migransRCY0.33Tufted Duck Aust signamRCY0.11Black Kite Mithus migransRCY0.11White-breasted Waterhen Gallinula chloropus-Y0.11Common Teal Anas creccaRCY0.11Black Kite Mitrus migransRCY0.11Black Kite Mitrus migransRCY0.11Black Kite Mitrus migrans-Y0.11Common moorhen Gallinula chloropus-Y2.56Eurasian Coot Fulica atraRCY0.22Little Ringed Plover Charadrius dubius(LC)Y0.11Green Sandpiper Tringa ochropus-Y0.20Little Ringed Plover Charadrius dubius-Y0.11Green Sandpiper Tringa ochropus-Y0.11Green Sandpiper Toringa ochropus-Y0.11Green Sandpiper Turinga ochropus-Y	Striated Heron			
Black-crowned Night Heron Nycticorax nycticorax(LC)Y6.56Yellow Bittern Ixobrychus sinensis(LC)Y0.33Cinnamon Bittern Ixobrychus sinensisLCY0.11Great Bittern Botaurus stellarisRCY0.22Eurasian Wigeon Anas penelopeRCY0.22Common Teal Anas creccaRCY0.22Common Teal Anas creccaRCY0.33Tufted Duck AlgulaILCY2.78Osprey Pandion haliaetusRCY0.11Black Kite Milvus migransRC)N1.11White-breasted Waterhen Anaurornis phoenicurus-Y0.25Eurasian Coot Fulica atraRCY0.11Common moorhen Gallinula chloropus-Y0.26Little Ringed Plover Charadrius dubiusILCY2.56Eurasian Coot Fulica atraRCY0.22Little Ringed Plover Charadrius dubiusILCY0.21Green Sandpiper Tringa ochropus-Y0.24Black-winged Stilt HimantopusRCY0.22Little Ringed Plover Charadrius dubius-Y0.11Green Sandpiper Tringa ochropus-Y0.11Green Sandpiper Tringa ochropus-Y0.11	Butorides striatus	(LC)	Y	0.11
Nycticorax nyclicorax(LC)Y6.56Yellow Bittern	Black-crowned Night Heron			
Yellow Bittern Yellow Simensis Operation Ixobrychus sinensis (LC) Y 0.33 Cinnamon Bittern Ixobrychus sinenamenus LC Y 0.11 Great Bittern RC Y 0.22 Eurasian Wigeon RC Y 0.22 Anas penelope RC Y 0.22 Common Teal RC Y 0.33 Anas crecca RC Y 0.22 Common Teal RC Y 0.33 Anas crecca RC Y 0.33 Tufted Duck Image: State	Nycticorax nycticorax	(LC)	Y	6.56
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Milvus migrans(RC)N1.11White-bellied Sea Eagle Haliaeetus leucogaster(RC)Y7.78White-breasted Waterhen Amaurornis phoenicurus-Y0.11Common moorhen Gallinula chloropus-Y2.56Eurasian Coot Fulica atra-Y2.56Eurasian Coot Fulica atraRCY2.44Black-winged Stilt Himantopus himantopusRCY0.22Little Ringed Plover Charadrius dubius(LC)Y0.11Green Sandpiper Tringa ochropus-Y10.11Wood SandpiperLCY2.00	Black Kite			
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Amaurornis phoenicurus-Y0.11Common moorhen-Y2.56Gallinula chloropus-Y2.56Eurasian Coot-Y2.44Black-winged Stilt-Y2.44Himantopus himantopusRCY0.22Little Ringed PloverCharadrius dubius(LC)Y0.11Green Sandpiper-Y10.11Wood SandpiperLCY2.00	White-breasted Waterhen	(- /		
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Gallinula chloropus-Y2.56Eurasian CootRCY2.44Black-winged StiltRCY0.22Little Ringed PloverCharadrius dubius(LC)Y0.11Green Sandpiper-Y10.11Wood SandpiperLCY2.00	Common moorhen			
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Fulica atraRCY2.44Black-winged StiltRCY0.22Little Ringed PloverCharadrius dubius(LC)Y0.11Green Sandpiper-Y10.11Tringa ochropus-Y2.00	Eurasian Coot		_	
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Himantopus himantopusRCY0.22Little Ringed Plover Charadrius dubius(LC)Y0.11Green Sandpiper Tringa ochropus-Y10.11Wood SandpiperLCY2.00	Black-winged Stilt		-	
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Charadrius dubius(LC)Y0.11Green Sandpiper-Y10.11Tringa ochropus-Y10.11Wood SandpiperLCY2.00	Little Ringed Plover		-	
Green SandpiperY10.11Tringa ochropus-YUnderstandLCY2.00	Charadrius dubius	(LC)	Y	0.11
Tringa ochropus-Y10.11Wood SandpiperLCY2.00	Green Sandniner		-	0,11
Wood SandpiperLCY2.00	Tringa ochronus	_	Y	10.11
	Wood Sandpiper	LC	Ŷ	2.00

Table F-2c Bird Species recorded at Section 2

Common Name	Level of Concern	Wetland-dependent	Mean#
Tringa glareola			
Common Sandpiper			
Actitis hypoleucos	-	Y	0.78
Common Snipe			
Gallinago gallinago	-	Y	2.11
Rock Dove			
Columba livia	-	N	1.89
Spotted Dove		ŊŢ	1.00
Streptopelia chinensis	-	N	1.22
Common Koel		N	10.11
Eudynamys scolopaced	-	N	10.11
Centropus sinensis		Ν	1 56
Lesser Coucal	-	11	1.50
Centronus hengalensis	_	Ν	2 78
Little Swift		11	2.70
Anus affinis	-	Y	0.11
Pied Kingfisher		-	0.111
Cervle rudis	(LC)	Y	7.11
Common Kingfisher			
Alcedo atthis	-	Y	2.00
White-throated Kingfisher			
Halcyon smyrnensis	(LC)	Y	0.67
Barn Swallow			
hirundo rustica	-	Y	4.22
Red-rumped swallow			
Hirundo daurica	-	Y	3.78
Yellow Wagtail			
Motacilla flava	-	Y	1.67
Grey Wagtail		X7	
Motacilla cinerea	-	Y	4.44
White Wagtail		V	0.79
Motacilla alba	-	Ĭ	0.78
Anthus hadasoni		N	7 56
Pad throatad Pipit	-	IN	7.50
Anthus cervinus	IC	Ν	0.11
Red-whiskered Bulbul	LC	11	0.11
Pycnonotus jocosus	-	Ν	9 56
Chinese Bulbul		11	2.00
Pvcnonotus sinensis	-	Ν	12.33
Sooty-headed Bulbul			
Pycnonotus aurigaster	-	Ν	4.22
Brown Shrike			
Lanius cristatus	-	Ν	0.11
Long-tailed Shrike			
Lanius schach	-	Ν	4.22
Oriental Magpie Robin			
Copsychus saularis	-	N	3.78
Common Stonechat			_
Saxicola torquata	-	N	2.00
Masked Laughingthrush			• • • •
Garrulax perspicillatus	-	N	3.89
Hwamei) NT	0.11
Garrulax canorus	-	N	0.11
Panas s Grassnopper Warbler	IC	v	0.11
Zitting Cisticala		I N	0.11
Ziuing Cisticola	LC	IN	1.11

Common Name	Level of Concern	Wetland-dependent	Mean#
Cisticola juncidis			
Yellow-bellied Prinia			
Prinia flaviventris	-	Ν	16.22
Plain Prinia			
Prinia inornata	-	Ν	7.56
Common Tailorbird			
Orthotomus sutorius	-	Ν	0.22
Dusky Warbler			
Phylloscopus fuscatus	-	Ν	3.11
Yellow-browed Warbler			
Phylloscopus inornatus	-	Ν	1.44
Asian Brown Flycatcher			
Muscicapa dauurica	-	Ν	0.22
Japanese White-eye			
Zosterops japonicus	-	Ν	0.11
Scaly-breasted Munia			
Lonchura punctulata	-	Ν	16.11
Eurasian Tree Sparrow			
Passer montanus	-	Ν	9.89
Red-billed Starling			
Sturnus sericeus	GC*	Y	18.67
White-cheeked Starling			
Sturnus cineraceus	PRC	Ν	1.56
Black-collared Starling			
Sturnus nigricollis	-	Ν	16.89
White-shouldered Starling			
Sturnus sinensis	(LC)	Ν	17.00
Crested Myna			
Acridotheres cristatellus	-	N	33.11
Black Drongo			
Dicrurus macrocercus	-	Ν	2.44
Ashy Drongo			
Dicrurus leucophaeus	LC	N	0.11
Common Magpie			
Pica pica	-	N	2.00
Collared Crow			
Corvus torquatus	LC	Y	0.44

*Red-billed Starling is considered by Fellows *et al.* (2002) to be of Global Concern. Since then, the global population has been increasing and the species is not now considered globally threatened (BirdLife International 2008). A listing of Regional Concern (RC), based on the importance of the large roosts present near Deep Bay, is considered to be more appropriate.

#Mean values given are the mean number recorded on all transects. This is included to reflect the regularity of a species in the study area.

	Tant Species recorded	at Section 5 (Dide a	D L 11 AL L 144
Scientist Name	Native to Hong Kong	Status*	Relative Abundance ^{**}
Abutilon indicum	Yes	Restricted	+
Acacia auriculiformis	No	NA	+
Acacia confusa	No	NA	+
Acacia farnesiana	No	NA	+
Ageratum conyzoides	No	Common	+
Aglaia odorata	No	NA	+
Alangium chinense	Yes	Common	+
Albizia chinensis	Yes	NA	+
Albizia lebbeck	No	NA	+
Alchornea trewioides	Yes	Common	+
Aleurites moluccana	No	NA	+
Alocasia odora	Yes	Very Common	+
Alternanthera philoxero	oides No	Common	
Alternanthera sessilis	Yes	Common	+
Alysicarpus vaginalis	Yes	Very common	++
Amaranthus spinosus	No	Common	+
Amaranthus viridis	Yes	Very common	+
Anisomeles indica	Yes	Common	+
Annona squamosa	No	NA	+
Antidesma bunius	Yes	Common	+
Antidesma ghaesembilla	a Yes	NA	++
Apluda mutica	Yes	Very Common	+
Aporusa dioica	Yes	Very Common	+
Aquilaria sinensis	Yes	Common, protected (2)	++
Artocarpus macrocarpo	n No	NA	+
Asparagus cochinchiner	nsis Yes	Common	+
Athyriopsis japonica	Yes	Very common	+
Axonopus compressus	No	Common	+
Bauhinia variegata	No	NA	+
Berchemia floribunda	Yes	Common	+
Bidens alba	No	Very Common	+++
Bidens pilosa	No	Very Common	+++
Bischofia javanica	Yes	Common	+
Blechnum orientale	Yes	Very Common	+
Boehmeria nivea	No	Restricted	+
Bothriochloa ischaemur	n Yes	Common	+
Brachiaria mutica	No	Common	++
Breynia fruticosa	Yes	Very Common	+
Bridelia tomentosa	Yes	Very Common	+
Broussonetia papyrifera	n Yes	Very Common	+
Brucea javanica	Yes	Common	+
Byttneria aspera	Yes	Very Common	+

Table F-3aPlant Species recorded at Section 3 (Blue and Green Alignments)

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Cajanus scarabaeoides	Yes	Common	++
Callicarpa nudiflora	Yes	Common	+
Canna indica	No	NA	+
Capillipedium parviflorum	Yes	Very Common	+
Capsicum annuum	No	NA	+
Cardiospermum halicacabum	Yes	Restricted	+
Cassytha filiformis	Yes	Very Common	+
Catharanthus roseus	No	Common	+
Celosia argentea	Yes	Very Common	+
Celtis sinensis	Yes	Common	++
Cenchrus echinatus	No	Common	+
Centella asiatica	Yes	Very Common	+
Chenopodium album	Yes	Restricted	+
Chloris barbata	Yes	Very Common	++
Ciliate Microstegium	Yes	NA	++
Cinnamomum burmannii	Yes	NA	+
Cinnamomum camphora	Yes	Common	+
Citrus limon	No	NA	+
Citrus maxima	No	NA	+
Citrus reticulata	No	NA	+
Clausena lansium	No	NA	+
Cleistocalyx operculatus	Yes	Common	+
Cleome rutidosperma	No	NA	+
Clerodendrum cyrtophyllum	Yes	Common	++
Cocculus orbiculatus	Yes	Common	+
Colocasia esculenta	Yes	NA	+
Commelina diffusa	Yes	Common	+
Conyza bonariensis	No	Very Common	+
Corchorus aestuans	Yes	Common	+
Cratoxylum cochinchinense	Yes	Very Common	+
Crotalaria pallida	No	Common	+
Cuscuta australis	Yes	NA	++
Cyclosorus interruptus	Yes	Common	+
Cynodon dactylon	Yes	Very Common	+++
Cyperus distans	Yes	Common	+
Cyperus flabelliformis	No	NA	+
Cyperus haspan	Yes	Common	+
Cyperus imbricatus	Yes	Common	+
Cyperus rotundus	Yes	Very Common	+
Cyrtococcum patens	Yes	Very Common	+
Dactyloctenium aegyptium	Yes	Common	++
Delonix regia	No	NA	+
Derris trifoliata	Yes	Common	+

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Desmodium heterocarpon	Yes	Very Common	++
Desmodium tortuosum	No	Common	++
Desmodium triflorum	Yes	Very common	++
Desmos chinensis	Yes	Common	+
Dicliptera chinensis	Yes	Restricted	++
Dicranopteris pedata	Yes	Very Common	++
Digitaria longiflora	Yes	Very Common	+
Digitaria sanguinalis	Yes	Very Common	++
Dimocarpus longan	No	Restricted	+
Dioscorea bulbifera	Yes	Common	+
Dioscorea fordii	Yes	Common	+
Diospyros morrisiana	Yes	Very Common	+
Echinochloa crusgalli	Yes	Common	+
Eclipta prostrata	Yes	Common	+
Elephantopus tomentosus	Yes	Common	+
Eleusine indica	Yes	Very Common	++
Eleutherococcus trifoliatus	Yes	Restricted	+
Embelia laeta	Yes	Very Common	+
Embelia ribes	Yes	Common	+
Emilia sonchifolia	Yes	Very Common	+
Eragrostis unioloides	Yes	Common	+
Eranthemum nervosum	No	NA	+
Eriobotrya japonica	No	NA	+
Eucalyptus robusta	No	NA	++
Eupatorium catarium	No	Very Common	++
Euphorbia hirta	No	Very common	+
Euphorbia thymifolia	Yes	Very Common	+
Eurya nitida	Yes	Very Common	+
Ficus formosana	Yes	Restricted	+
Ficus hirta	Yes	Common	+
Ficus hispida	Yes	Very Common	++
Ficus microcarpa	Yes	Common	+
Ficus pumila	Yes	Very Common	+
Ficus superba	Yes	NA	+
Ficus variegata	Yes	Common	+
Fimbristylis thomsonii	Yes	Very common	+
Flueggea virosa	Yes	Common	++
Gardenia jasminoides	Yes	Common	++
Glochidion zeylanicum	Yes	Common	+
Gnaphalium affine	Yes	Common	+
Gnetum parvifolium	Yes	Common	+
Grewia biloba	Yes	Common	+
Gymnema sylvestre	Yes	Very Common	+

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Hedychium coronarium	No	NA	++
Hedyotis auricularia	Yes	Common	+
Hedyotis corymbosa	Yes	Very Common	+
Hedyotis diffusa	Yes	Very Common	+
Hedyotis hedyotidea	Yes	Very Common	+
Heterosmilax japonica	Yes	Common	+
Hibiscus mutabilis	No	NA	+
Ilex asprella	Yes	Very Common	+
Ilex rotunda	No	Common	+
Imperata koenigii	Yes	Very Common	++
Ipomoea cairica	No	Very Common	++
Ipomoea triloba	Yes	Common	+
Kyllinga brevifolia	Yes	Common	+++
Kyllinga monocephala	Yes	Very Common	+
Lagenaria siceraria	No	NA	+++
Lantana camara	No	Very Common	++
Lespedeza formosa	Yes	Common	+
Leucaena leucocephala	No	Common	+
Ligustrum sinense	Yes	Common	+
Lindernia crustacea	Yes	Restricted	+
Litchi chinensis	No	Restricted	+
Litsea cubeba	Yes	Common	++
Litsea glutinosa	Yes	Very Common	+
Litsea rotundifolia	Yes	Very Common	+
Ludwigia octovalvis	Yes	Common	+
Ludwigia perennis	Yes	Restricted	+
Luffa aegyptiaca	No	NA	+
Lygodium japonicum	Yes	Very Common	++
Lygodium scandens	Yes	Common	+
Macaranga tanarius	Yes	Common	++
Machilus chekiangensis	Yes	Very Common	+
Maesa perlarius	Yes	Common	+
Mallotus apelta	Yes	Common	+++
Mallotus paniculatus	Yes	Very Common	+
Malvastrum coromandelianum	Yes	Common	+
Mangifera indica	No	NA	+
Maranta arundinacea	No	NA	+
Mariscus umbellatus	Yes	Very Common	+
Melastoma candidum	Yes	Common	+
Melia azedarach	No	Common	+
Melicope pteleifolia	Yes	Common	+
Microcos paniculata	Yes	Common	+
Microstegium ciliatum	Yes	Very Common	++

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Microstegium vagans	Yes	Common	+
Mikania micrantha	No	Very Common	+++
Millettia reticulata	Yes	Common	+
Mimosa diplotricha	No	Rare#	+
Mimosa pudica	No	Very Common	++
Miscanthus floridulus	Yes	Common	+
Miscanthus sinensis	Yes	Very Common	+
Morinda parvifolia	Yes	Very Common	+
Morinda umbellata	Yes	Common	+
Morus alba	Yes	Common	+
Murraya paniculata	No	NA	+
Musa balbisiana	Yes	Common	++
Musa x paradisiaca	No	NA	+
Mussaenda pubescens	Yes	Very Common	+
Neyraudia reynaudiana	Yes	Very Common	++
Ophiopogon japonicus	Yes	Common	+
Opuntia stricta	No	Common	+
Oxalis corniculata	Yes	Very Common	+
Oxalis corymbosa	No	Common	+
Pachira macrocarpa		NA	+
Paederia scandens	Yes	Very Common	+++
Panicum maximum	No	Very Common	+++
Panicum repens	Yes	Very Common	+
Paspalum conjugatum	No	Common	++
Paspalum orbiculare	Yes	Very Common	+
Paspalum paspaloides	Yes	Common	+
Paspalum scrobiculatum	Yes	Common	++
Paspalum vaginatum	Yes	Common	+++
Passiflora foetida	No	Common	+
Pennisetum purpureum	No	Very Common	+++
Peperomia pellucida	No	Common	+
Phyllanthus emblica	Yes	Very Common	+
Phyllanthus reticulatus	Yes	Common	+
Phyllanthus urinaria	Yes	Common	++
Phyllodium pulchellum	Yes	Very Common	+
Pilea microphylla	No	Very Common	++
Plantago major	Yes	Very Common	+
Polygonum chinense	Yes	Very Common	+
Polygonum hydropiper	Yes	Common	+
Polygonum perfoliatum	Yes	Common	+
Portulaca pilosa	Yes	NA	+
Pouzolzia zeylanica	Yes	Common	+
Psidium guajava	No	Common	+

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Psychotria asiatica	Yes	Very Common	+
Pteris semipinnata	Yes	Very Common	+
Pterocypsela indica	Yes	Common	+
Pueraria lobata	No	NA	+
Pueraria lobata	Yes	Common	+
Rhaphiolepis indica	Yes	Very Common	+
Rhus chinensis	Yes	Common	+
Rhus hypoleuca	Yes	Common	++
Rhynchelytrum repens	No	Very Common	+
Ricinus communis	No	Restricted	+
Rubus parvifolius	Yes	Common	+
Rumex trisetifer	Yes	Common	+
Sacciolepis indica	Yes	Very Common	+
Sageretia thea	Yes	Very Common	+
Sapium discolor	Yes	Very Common	+
Sapium sebiferum	Yes	Common	+
Schefflera heptaphylla	Yes	Very Common	+
Scoparia dulcis	No	Common	+
Scurrula parasitica	Yes	Restricted	+
Senecio scandens	Yes	Common	+
Sesbania cannabina	No	Common	++
Sesbania javanica	Yes	NA	+
Sida acuta	Yes	Common	+
Sida rhombifolia	Yes	Common	++
Sinobambusa tootsik	No	NA	+
Smilax china	Yes	Very Common	+
Solanum americanum	No	Very Common	+
Solanum nigrum	Yes	Very Common	+
Solanum torvum	No	Common	+
Solena amplexicaulis	Yes	Very Common	+
Sonchus arvensis	Yes	Very Common	+
Sonchus oleraceus	No	Very Common	+
Sporobolus fertilis	Yes	Very Common	++
Stachytarpheta jamaicensis	No	Common	+
Stephania longa	Yes	Common	+
Sterculia lanceolata	Yes	Very Common	+
Synedrella nodiflora	No	Very Common	+
Syzygium cumini	No	NA	+
Tadehagi triquetrum	Yes	Very Common	+
Tetradium glabrifolium	Yes	Common	+
Thysanolaena maxima	Yes	Common	+
Tinospora sinensis	Yes	Common	+
Tithonia diversifolia	No	Common	++

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Trema orientalis	Yes	Common	+
Trema tomentosa	Yes	Common	+
Tridax procumbens	No	Very Common	+
Triumfetta rhomboidea	Yes	Common	+
Uraria crinita	Yes	Common	+
Urena lobata	Yes	Common	+
Uvaria macrophylla	Yes	Common	+
Vernonia cinerea	Yes	Very Common	+
Vitex negundo	Yes	Common	+
Wedelia trilobata	No	Common	++
Youngia japonica	Yes	Very Common	+
Zanthoxylum avicennae	Yes	Common	+
Zanthoxylum nitidum	Yes	Very Common	+

Note:

* Status (source from Corlett et al, 2000. Hong Kong Vascular Plants: Distribution and Status):

NA =weed, introduced, cultivated or landscaping species not covered by Corlett's study; # it is an introduced species rarely occur in Hong Kong but not native rare species of conservation interest

Protected (1) = protected under Forestry Regulations (Cap. 96 sub. Leg.)

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

Scientist Name	Native to	Status*	Relative Abundance**
	Hong Kong		
Pennisetum purpureum	No	Very Common	+++
Ricinus communis	No	Restricted	++
Bidens alba	No	Very Common	+++
Eleusine indica	Yes	Very Common	++
Panicum maximum	No	Very Common	+++
Cynodon dactylon	Yes	Very Common	++
Ipomoea cairica	No	Very Common	+
Paspalum orbiculare	Yes	Very Common	+
Sesbania javanica	Yes	NA	+
Tithonia diversifolia	No	Common	+
Alocasia odora	Yes	Very Common	++
Ficus hispida	Yes	Very Common	+
Mikania micrantha	No	Very Common	+++
Melia azedarach	No	Common	+
Celtis sinensis	Yes	Common	+
Ficus hirta	Yes	Common	+
Paederia scandens	Yes	Very Common	++
Microstegium ciliatum	Yes	Very Common	++
Litsea glutinosa	Yes	Very Common	+
Rhus chinensis	Yes	Common	+
Lygodium japonicum	Yes	Very Common	++
Macaranga tanarius	Yes	Common	+
Inula cappa	Yes	Common	+
Mussaenda pubescens	Yes	Very Common	+
Breynia fruticosa	Yes	Very Common	+
Mallotus apelta	Yes	Common	+
Lantana camara	No	Very Common	+
Musa x paradisiaca	No	NA	+
Solanum erianthum	No	Common	+
Ficus microcarpa	Yes	Common	+
Amaranthus viridis	Yes	Very Common	+
Bischofia javanica	Yes	Common	+

 Table F-3b
 Plant Species recorded at Section 3 (Red Alignment)

 Note:
 * Status (source from Corlett et al, 2000. Hong Kong Vascular Plants: Distribution and Status):

 NA =weed, introduced, cultivated or landscaping species not covered by Corlett's study;

 # it is an introduced species rarely occur in Hong Kong but not native rare species of conservation interest

 Protected = protected under Forestry Regulations (Cap. 96 sub. Leg.)

Common Name	Level of Concern	Wetland-dependent	Mean#
Grey Heron			
Ardea cinerea	PRC	Y	1.11
Great Egret			
Egretta alba	PRC(RC)	Y	1.22
Little Egret			
Egretta garzetta	PRC(RC)	Y	5.22
Cattle Egret			
Bubulcus ibis	(LC)	Y	0.44
Chinese Pond Heron			
Ardeola bacchus	PRC(RC)	Y	5.11
Black-crowned Night Heron			0.50
Nycticorax nycticorax	(LC)	Y	0.56
Yellow Bittern			0.11
Ixobrychus sinensis	(LC)	Y	0.11
Cinnamon Bittern			0.11
Ixobrychus cinnamomeus	LC	Ŷ	0.11
Black Kite		N	0.90
Milvus migrans	(KC)	Ň	0.89
Common buzzard		V	0.11
Granter Spotted Easte	-	ľ	0.11
Aquila clanga	CC	v	0.11
White breasted Waterban	00	1	0.11
Amaurornis phoenicurus		v	0.80
Little Dinged Dlover	-	1	0.89
Charadrius dubius		v	3 78
Common Greenshank		1	5.70
Tringa nebularia	RC	Y	0.11
Green Sandniner	KC	1	0.11
Tringa ochronus	-	Y	1 78
Wood Sandpiper		1	1.70
Tringa glareola	LC	Y	1.56
Common Sandpiper		_	
Actitis hypoleucos	-	Y	1.67
Common Snipe			
Gallinago gallinago	-	Y	0.11
Spotted Dove			
Streptopelia chinensis	-	Ν	24.33
Common Koel			
Eudynamys scolopacea	-	Ν	2.22
Greater Coucal			
Centropus sinensis	-	Ν	0.89
Lesser Coucal			
Centropus bengalensis	-	Ν	0.56
Pacific Swift			
Apus pacificus	(LC)	N	0.44
Little Swift			
Apus affinis	-	Y	1.56
Pied Kingfisher			
Ceryle rudis	(LC)	Y	0.11
Common Kingfisher			
Alcedo atthis	-	Y	0.44
White-throated Kingfisher	~ ~		
Halcyon smyrnensis	(LC)	Y	1.00
Barn Swallow	-	Y	7.44

Table F-3cBird Species recorded at Section 3

Common Name	Level of Concern	Wetland-dependent	Mean#
H irundo rustica			
Yellow Wagtail			
Motacilla flava	-	Y	1.00
Grey Wagtail			
Motacilla cinerea	-	Y	0.56
White Wagtail			
Motacilla alba	-	Y	9.33
Richard's Pipit			
Anthus richardi	-	N	0.11
Olive-backed Pipit			
Anthus hodgsoni	-	N	0.33
Red-throated Pipit			
Anthus cervinus	LC	N	0.33
Red-whiskered Bulbul			
Pycnonotus jocosus	-	N	26.00
Chinese Bulbul			
Pycnonotus sinensis	-	N	18.89
Sooty-headed Bulbul			
Pycnonotus aurigaster	-	N	2.00
Long-tailed Shrike			
Lanius schach	-	N	2.78
Oriental Magpie Robin			
Copsychus saularis	-	N	7.22
Common Stonechat		N.	2.22
Saxicola torquata	-	N	3.33
Blue Whistling Thrush		N.	0.11
Myophonus caeruleus	-	N	0.11
Masked Laughingthrush		Ŋ	
Garrulax perspicillatus	-	N	5.56
Hwamei		N	0.11
Garrulax canorus	-	N	0.11
Japanese Bush warbler		N	0.22
Cettia alphone	-	IN	0.22
Oriental Reed Warbler		V	0.11
Acrocephalus orientalis	-	Ĭ	0.11
Zitting Cisticola	IC	N	0.22
Vallow balliad Drinia		IN	0.22
Prinia flaviventris		N	11 44
Diain Drinia	-	IN	11.44
Prinia inornata		N	6 78
Common Tailorhird	-	1	0.78
Orthotomus sutorius	_	Ν	0.33
Dusky Warbler		1	0.55
Phylloscopus fuscatus	_	N	0.44
Pallas's Leaf Warbler		1	0.77
Phylloscopus proregulus	_	Ν	0.11
Yellow-browed Warbler		1	0.11
Phylloscopus inornatus	-	Ν	0.11
Arctic Warbler			0.111
Phylloscopus horealis	-	Ν	0.11
Great Tit			0.111
Parus major	-	Ν	0.33
Japanese White-eve			0,000
Zosterops japonicus	_	Ν	3.00
Chestnut Bunting		÷,	2.00
Emberiza rutila	-	Ν	0.11
Scaly-breasted Munia	_	N	3.56
		- ,	

Common Name	Level of Concern	Wetland-dependent	Mean#
Lonchura punctulata			
Eurasian Tree Sparrow			
Passer montanus	-	Ν	54.56
Red-billed Starling			
Sturnus sericeus	GC*	Y	0.22
Black-collared Starling			
Sturnus nigricollis	-	Ν	5.00
Crested Myna			
Acridotheres cristatellus	-	Ν	15.67
Black Drongo			
Dicrurus macrocercus	-	Ν	1.78
Blue Magpie			
Urocissa erythrorhyncha	-	Ν	1.67
Common Magpie			
Pica pica	-	Ν	1.22
Large-billed Crow			
Corvus macrorhynchos	-	Ν	1.00
Collared Crow			
Corvus torquatus	LC	Ν	0.11

*Red-billed Starling is considered by Fellows *et al.* (2002) to be of Global Concern. Since then, the global population has been increasing and the species is not now considered globally threatened (BirdLife International 2008). A listing of Regional Concern (RC), based on the importance of the large roosts present near Deep Bay, is considered to be more appropriate.

#Mean values given are the mean number recorded on all transects. This is included to reflect the regularity of a species in the study area.

Scientist Name	Notivo to	Statuc*	Polotivo Abundonco**
Scientist Name	Hong Kong	Status	Relative Abundance
Acacia confusa	No	ΝΔ	
Ageratum convzoides	No	Common	+
Alysicarnus vaginalis	Yes	Very Common	+
Aporusa dioica	Yes	Very Common	+
Rauhinia hlakeana	Yes	NA	+
Bidens alba	No	Very Common	++
Bridelia tomentosa	Yes	Very Common	+++
Bryophyllum pinnatum	No	Common	+
Callistemon viminalis	No	NA	++
Carica papava	No	NA	+
Celtis sinensis	Yes	Common	+
Cinnamomum camphora	Yes	Common	+
Cynodon dactylon	Yes	Very Common	+
Delonix regia	No	NA	+
Digitaria sanguinalis	Yes	Very Common	+
Elaeocarpus hainanensis	No	NA	+
Eleusine indica	Yes	Very Common	+
Eleutherococcus trifoliatus	Yes	Restricted	+++
Emilia sonchifolia	Yes	Very Common	+
Eragrostis tenella	Yes	Very Common	+
Euphorbia hirta	No	Very Common	+
Ficus hispida	Yes	Very Common	+
Ficus pumila	Yes	Very Common	++
Grevillea robusta	No	NA	+
Hedyotis diffusa	Yes	Very Common	+
Imperata koenigii	Yes	Very Common	+++
Ipomoea cairica	No	Very Common	+++
Lagerstroemia speciosa	No	NA	+
Lantana camara	No	Very Common	++
Leucaena leucocephala	No	Common	++
Liquidambar formosana	Yes	Common	+
Macaranga tanarius	Yes	Common	+
Malvastrum coromandelianum	Yes	Common	++
Melaleuca quinquenervia	No	NA	+
Melastoma candidum	Yes	Common	++
Mikania micrantha	No	Very Common	++
Mimosa pudica	No	Very Common	++
Murraya paniculata	No	NA	+
Mussaenda pubescens	Yes	Very Common	+
Neyraudia reynaudiana	Yes	Very Common	+
Oxalis corymbosa	No	Common	+
Paederia scandens	Yes	Very Common	+
Panicum maximum	No	Very Common	++
Paspalum vaginatum	Yes	Common	+++
Phyllanthus niruri	Yes	Common	+
Phyllanthus reticulatus	Yes	Common	+++
Pterocypsela indica	Yes	Common	+
Pueraria lobata	Yes	Common	+
Rhus chinensis	Yes	Common	++
Schefflera arboricola	No	NA	+
Schefflera heptaphylla	Yes	Very Common	+
Sonchus oleraceus	No	Very Common	+
Sporobolus fertilis	Yes	Very Common	+
Sterculia lanceolata	Yes	Very Common	+
Tradescantia zebrina	No	NA	+

Table F-4aPlant Species recorded at Section 4

Scientist Name	Native to Hong Kong	Status*	Relative Abundance**
Vernonia cinerea	Yes	Very Common	+
Wedelia trilobata	Yes	Common	+++

 Note:
 * Status (source from Corlett et al, 2000. Hong Kong Vascular Plants: Distribution and Status):

 NA =weed, introduced, cultivated or landscaping species not covered by Corlett's study;

 Protected = protected under Forestry Regulations (Cap. 96 sub. Leg.)

Common Name	Level of Concern	Wetland-dependent	Mean#
Black-crowned Night Heron			
Nycticorax nycticorax	(LC)	Y	0.25
Black Kite			
Milvus migrans	(RC)	Ν	0.25
White-breasted Waterhen			
Amaurornis phoenicurus	-	Y	0.13
Spotted Dove			
Streptopelia chinensis	-	Ν	5.75
Common Koel			
Eudynamys scolopacea	-	Ν	0.13
Lesser Coucal			
Centropus bengalensis	-	Ν	0.38
Pacific Swift			
Apus pacificus	(LC)	Ν	0.25
Little Swift			
Apus affinis	-	Y	2.13
White-throated Kingfisher			
Halcyon smyrnensis	(LC)	Y	0.75
Barn Swallow			
hirundo rustica	-	Ν	5.38
White Wagtail			
Motacilla alba	-	Y	0.13
Richard's Pipit			
Anthus richardi	-	Ν	0.13
Red-whiskered Bulbul			
Pycnonotus jocosus	-	Ν	14.75
Chinese Bulbul			
Pycnonotus sinensis	-	Ν	6.00
Sooty-headed Bulbul			
Pycnonotus aurigaster	-	Ν	2.25
Long-tailed Shrike			
Lanius schach	-	Ν	0.63
Oriental Magpie Robin			
Copsychus saularis	-	Ν	2.00
Common Stonechat			
Saxicola torquata	-	Ν	0.25
Masked Laughingthrush			
Garrulax perspicillatus	-	Ν	3.25
Yellow-bellied Prinia			
Prinia flaviventris	-	Ν	2.50
Plain Prinia			
Prinia inornata	-	N	2.50
Japanese White-eye			
Zosterops japonicus	-	N	0.75
Scaly-breasted Munia			
Lonchura punctulata	-	N	0.88
Eurasian Tree Sparrow			
Passer montanus	-	N	7.38
Red-billed Starling			
Sturnus sericeus	GC*	Y	0.50
Black-collared Starling			
Sturnus nigricollis	-	N	2.88
Crested Myna			
Acridotheres cristatellus	-	Ν	8.63

Table F-4bBird Species recorded at Section 4

Common Name	Level of Concern	Wetland-dependent	Mean#
Common Magpie			
Pica pica	-	Ν	0.25

*Red-billed Starling is considered by Fellows *et al* (2002) to be of Global Concern. Since then, the global population has been increasing and the species is not now considered globally threatened (BirdLife International 2008). A listing of Regional Concern (RC), based on the importance of the large roosts present near Deep Bay, is considered to be more appropriate.

#Mean values given are the mean number recorded on all transects. This is included to reflect the regularity of a species in the study area.

Criteria	Woodland	Fung Shui Woods
Naturalness	Natural with minor human disturbance	Natural with minor human disturbance
Size	Medium	Medium to small
Diversity	Moderate	Moderate
Rarity	Not rare	Not common
Re-creatability	Re-creatable in long term (over 30 years)	Difficult to be re-created
Fragmentation	No fragmentation	No fragmentation
Ecological linkage	Ecologically linked with adjacent shrubland, hillside grassland, low- lying grassland etc.	Ecologically linked with adjacent shrubland, hillside grassland, low- lying grassland etc.
Potential value	Moderate-high	High
Nursery/ breeding ground	The woodland potentially provides breeding ground for birds, butterflies, and reptiles.	The woodland potentially provides breeding ground for birds, butterflies, and reptiles.
Age	30 to 50 years	Old
Abundance/ Richness of wildlife	Moderate	Moderate
Ecological value	Moderate	Moderate to Moderate-high

Table F-5 Ecological Evaluation of Woodland Habitats

Table F-6 Ecological Evaluation of Shrubland Habitats

Criteria	
Naturalness	Natural habitat
Size	Large
Diversity	Moderate-low
Rarity	Not rare
Re-creatability	Re-creatable
Fragmentation	No fragmentation
Ecological linkage	Ecologically linked with the adjacent natural habitats.
Potential value	Could develop to woodland if hill fires are prevented.
Nursery/ breeding	Potential breeding ground for birds and reptiles.
ground	
Age	Young
Abundance/	Moderate-low fauna abundance
Richness of wildlife	
Ecological value	Moderate-low

Criteria	
Naturalness	Man-made habitat
Size	Medium
Diversity	Low
Rarity	Common
Re-creatability	Easy to be re-created
Fragmentation	N/A
Ecological linkage	No significant ecological linkage with other habitats
Potential value	Low
Nursery/ breeding	Low potential for nursery or breeding grounds
ground	
Age	Young
Abundance/	Low fauna abundance
Richness of wildlife	
Ecological value	Low

Table F-7 Ecological Evaluation of Plantation Habitats

Table F-8 Ecological Evaluation of Gei Wai Habitats

Criteria	
Naturalness	Originated from gei wai shrimp aquaculture ponds; semi-natural;
	Currently managed by WWF for the roosting and feeding sites for
	Black-faced Spoonbill.
Size	Medium
Diversity	High diversity in fauna species
Rarity	Many rare wetland-dependent bird species are found in this type of
	habitat. Important to the globally threatened Black-faced Spoonbill
	Platalea leucorodia.
Re-creatability	Re-creatable
Fragmentation	No fragmentation
Ecological linkage	Ecologically linked with nearby wetlands such as fishponds,
	mangrove and Inner Deep Bay mudflat.
Potential value	High
Nursery/ breeding	Potential breeding ground for mammals, amphibians, dragonflies and
ground	wetland birds.
Age	Young
Abundance/	High abundance of migratory birds during winter; medium
Richness of wildlife	abundance of other fauna groups.
Ecological value	High

Criteria	
Naturalness	Natural habitats
Size	Small
Diversity	Low in flora species; Moderate-high in fauna species
Rarity	Not rare
Re-creatability	Re-creatable in long term (over 30 years)
Fragmentation	No fragmentation
Ecological linkage	Ecologically linked with adjacent ponds and wetlands
Potential value	High
Nursery/ breeding	Potential breeding grounds for inter-tidal fauna
ground	
Age	Medium
Abundance/	Moderate for wetland species.
Richness of wildlife	
Ecological value	High

Table F-9 Ecological Evaluation of Mangrove Habitats

Table F-10 Ecological Evaluation of Marsh Habitats

Criteria	
Naturalness	Originated from abandoned agricultural lands; semi-natural
Size	Medium
Diversity	Moderate
Rarity	Not rare
Re-creatability	Re-creatable
Fragmentation	No fragmentation
Ecological linkage	Ecologically linked with nearby wetlands such as fishponds, wet
	agricultural lands
Potential value	Moderate
Nursery/ breeding	Potential breeding ground for amphibians, dragonflies and wetland
ground	birds.
Age	Young
Abundance/	Moderate for freshwater wetland species.
Richness of wildlife	
Ecological value	Moderate

Criteria	
Naturalness	Man-made habitat
Size	Small
Diversity	Low
Rarity	Not rare
Re-creatability	Re-creatable
Fragmentation	N/A
Ecological linkage	Ecologically linked with nearby wetlands such as marshes and
	fishponds.
Potential value	Can develop to marsh with proper habitat management
Nursery/ breeding	Potential breeding ground for amphibians.
ground	
Age	Young
Abundance/	Moderate fauna abundance
Richness of wildlife	
Ecological value	Moderate-low

Table F-11 Ecological Evaluation of Wet Agricultural Land Habitats

Table F-12 Ecological Evaluation of Dry Agricultural Land Habitats

Criteria	
Naturalness	Man-made habitat
Size	Medium
Diversity	Low
Rarity	Not rare
Re-creatability	Re-creatable
Fragmentation	Fragmented by infrastructures and villages
Ecological linkage	No significant ecological linkage
Potential value	Low
Nursery/ breeding	Low potential for nursery or breeding grounds
ground	
Age	Young
Abundance/	Moderate-low fauna abundance
Richness of wildlife	
Ecological value	Low

Table F-13 Ecological Evaluation of Abandoned Agricultural Land / Low-lying Grassland Habitats

Criteria	
Naturalness	Semi-natural
Size	Large
Diversity	Low
Rarity	Common
Re-creatability	Re-creatable
Fragmentation	Fragmented by infrastructures and villages
Ecological linkage	potential ecological linkage with nearby natural and semi-natural
	habitats
Potential value	Moderate-low
Nursery/ breeding	Potential breeding ground for reptiles
ground	
Age	Young
Abundance/	Low fauna abundance
Richness of wildlife	
Ecological value	Low

Table F-14 Ecological Evaluation of Pond Habitats

Criteria	
Naturalness	Man-made habitat
Size	Large
Diversity	Low flora diversity; High-Moderate fauna species diversity
Rarity	Common habitat in NWNT. Uncommon bat species were recorded
	around this habitat.
Re-creatability	Re-creatable
Fragmentation	No significant fragmentation
Ecological linkage	Ponds in Assessment Area around Section 1 and 2 are ecologically
	linked with various types of wetlands nearby including Gei-Wai in
	Mai Po Nature Reserve and marshes at Hoo Hok Wai. Ponds in
	Section 1 are located either in WCA or WBA.
Potential value	High as high variety of bird species can be found at this habitat. Birds
	of different forage groups including ducks, grebes, cormorant,
	bitterns, spoonbills, ardeids, waders and waterhens utilize different
	niches in fishponds. The fishponds at Mai Po, Sam Po Shui, San Tin
	and Lok Ma Chau are of high ecological importance due to its good
	ecological linkage to Inner Deep Bay wetland ecosystem. The ponds
	in Mai Po Nature Reserve are part of gei wai ecosystem which is of
	internationally important to migratory waterbird species. This habitat
	also important to odonate.
Nursery/ breeding	Nursery / breeding grounds for commercial fisheries, amphibians and
ground	odonates.
Age	Over 30 years

Criteria	
Abundance/	High abundance of wetland fauna species.
Richness of wildlife	
Ecological value	High

Table F-15 Ecological Evaluation of Stream / River Habitats

Criteria	
Naturalness	Semi-natural
Size	Small
Diversity	Low diversity for flora but Moderate for fauna diversity at the
	unchannelised Shenzhen River; while High for the Lin Ma Hang
	Stream
Rarity	Number of this habitat type is declining in Hong Kong. Rare and
	uncommon fish species Rasbora steineri, Pseudorasbora parva and
	Mastacembelus armatus were recorded in Lin Ma Hang Stream
Re-creatability	Can only be re-created under suitable hydrological condition
Fragmentation	N/A
Ecological linkage	The Shenzhen River has limited ecological linkage with other
	habitats for its heavy pollution;
	The Lin Ma Hang Stream is ecologically linked with the nearby
	marshes and grasslands.
Potential value	Low for Shenzhen River;
	High for Lin Ma Hang Stream.
Nursery/ breeding	Lin Ma Hang Stream is a breeding and nursery grounds for some
ground	native fish species.
Age	Old
Abundance/	Low for Shenzhen River;
Richness of wildlife	Moderate for Lin Ma Hang Stream
Ecological value	Moderate for unchannelised Shenzhen River;
	High for Lin Ma Hang Stream

Table F-16 Ecological Evaluation of Drainage Channel Habitats

Criteria	
Naturalness	Man-made habitat
Size	Large
Diversity	Low for flora species; The channelized Shenzhen River is rich in
	waterbird diversity due to its good ecological linkage to the Inner
	Deep Bay ecosystem.
Rarity	Common
Re-creatability	Re-creatable
Fragmentation	N/A
Ecological linkage	Ecologically linked with the surrounding natural and semi-natural
	habitats particularly the wetland habitats at Mai Po, San Tin, Lok Ma
	Chau and Hoo Hok Wai.

Criteria	
Potential value	Low
Nursery/ breeding	Breeding ground for odonates, the exotic Tilapia and Mosquito Fish.
ground	
Age	Young
Abundance/	Moderate-low for odonates, High-moderate for other bird fauna.
Richness of wildlife	
Ecological value	Moderate for the lower section of channalized Shenzhen River;
	Moderate-low for all other channalized river

Table F-17 Ecological Evaluation of Hillside Grassland Habitats

Criteria	
Naturalness	Natural but disturbed by hillfires
Size	Large
Diversity	Low
Rarity	Not rare
Re-creatability	Maintained by hillfires
Fragmentation	Continuous along hillsides
Ecological linkage	Not ecologically linked with area or species of conservation concern
Potential value	Low
Nursery/ breeding	Potential for breeding ground is low
ground	
Age	No available information
Abundance/	Low
Richness of wildlife	
Ecological value	Low

Table F-18 Ecological Evaluation of Open Field Habitats

Criteria	
Naturalness	Disused man-made habitat
Size	Small
Diversity	Low
Rarity	Not rare
Re-creatability	Re-creatable
Fragmentation	N/A
Ecological linkage	No significant ecological linkage
Potential value	Low
Nursery/ breeding	Low potential for breeding or nursery ground
ground	
Age	Young
Abundance/	Low
Richness of wildlife	
Ecological value	Low

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Criteria	
Naturalness	Man-made habitat
Size	Large
Diversity	Low
Rarity	Not rare; Only species adapted to anthropogenic environment could
	be found in this habitat, all of those are common and widespread in
	Hong Kong
Re-creatability	Re-creatable
Fragmentation	N/A
Ecological linkage	No ecological linkage
Potential value	Low
Nursery/ breeding	Low potential as breeding / nursery grounds
ground	
Age	N/A
Abundance/	Low
Richness of wildlife	
Ecological value	Very Low

 Table F-19
 Ecological Evaluation of Developed Area Habitats