

Contract Reference No.: AFCD/SQ/8/17/C

**Mai Po Inner Deep Bay Ramsar Site
Waterbird Monitoring Programme
2017 - 18**

Monthly Waterbird Monitoring

**Biannual Report 1
(April to September 2017)**



Submitted by
The Hong Kong Bird Watching Society
Approved Charitable Institution of a Public Character
to Agriculture, Fisheries & Conservation Department

Hong Kong SAR Government

November 2017



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Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2017-18

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This publication should be cited as

Anon. 2017. Monthly Waterbird Monitoring Biannual Report 1 (April to September 2017),
Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2017-18. Report by
the Hong Kong Bird Watching Society to the Agriculture, Fisheries and Conservation
Department, Hong Kong Special Administrative Region Government.

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Mai Po Inner Deep Bay Ramsar Site
Waterbird Monitoring Programme 2017-18

Monthly Waterbird Monitoring Biannual Report 1

1. Introduction

Comprehensive counts of waterbirds in the Deep Bay area undertaken by the Hong Kong Bird Watching Society (HKBWS) began in 1979 as part of the Wetlands International - Asian Waterbird Census. These continued every January (excluding 1980) until 1992-93, when the duration of the counts was extended to cover the winter period from November to March, termed “Winter Waterbird Count”. After the designation of the Mai Po Inner Deep Bay Ramsar Site, a monthly waterbird monitoring programme was developed and has been coordinated by the HKBWS, with support from the Agriculture, Fisheries and Conservation Department (AFCD), since 1997. It has been a contract project of AFCD since 2004. Monthly counts of waterbirds at the site form a major part of the programme. It is supplemented by counts of shorebirds throughout the year, with increased effort during the migration seasons, and egret surveys during the breeding season. Monthly summary reports are compiled and seasonal reports are produced twice a year. The seasonal reports include Biannual Report 1, which covers the period from April to September, and Biannual Report 2, which covers the period from October of the same year to March of the following year. This report summarizes the results of monthly waterbird counts during the period from April to September 2017 under the contract referenced AFCD/SQ/8/17/C.

2. Methodology

The methodology adopted is described in detail in the *Waterbird Count Handbook* (Carey undated, Carey 2002, Anon. 2014). It involves recording the number of birds in individual fishponds, or *gei wais*, in specified areas. The whole survey area in the Inner Deep Bay was divided into count sites. All the count sites were surveyed simultaneously to avoid double-counting as far as possible. Counts were conducted during rising tide, preferably at a tidal height of about 2.2 m. To increase the accuracy of data recorded, the count of a particular species recorded one week prior to or after the date of the monthly waterbird count was adopted if the number was higher than that recorded in the monthly waterbird count.

The survey area included the Ramsar Site and wetland areas around the Ramsar Site (the ‘Deep Bay area’). The Deep Bay area covered the Ramsar Site and the surrounding area, including the mudflat between Tsim Bei Tsui and Nim Wan, and the fishpond areas in Ma Tso Lung, Sam Po Shue, San Tin, Lok Ma Chau, Mai

Po San Tsuen, Tam Kon Chau, Tai Sang Wai, Lut Chau, Luen Hing Wai, Wing Kei Tsuen, Nam Sang Wai and Tsim Bei Tsui. The area also covered Hong Kong Wetland Park in Tin Shui Wai, and the Futian National Nature Reserve in the Shenzhen Special Economic Zone in the Mainland. Maps 1, 2 and 3 show the location of all the survey sites within the survey area. The coverage of the survey area was the same as that of the preceding winter period (Anon. 2017a). Figures collected from the monthly waterbird counts are grouped and presented with respect to two main areas: (1) the Ramsar Site and (2) the overall Deep Bay area.

3. Results

In summer 2017, the monthly waterbird monitoring was conducted on 16 April, 14 May, 11 June, 9 July, 20 August and 10 September ('the survey period').

The total number of waterbirds recorded in the Deep Bay area was 14,176 in April, 3,171 in May, 1,985 in June, 2,295 in July, 5,594 in August and 7,197 in September. The corresponding records in the Ramsar Site were 3,911, 1,447, 899, 918, 2,896 and 2,492, respectively. There were a total of 83 waterbird and wetland dependent species recorded in the Deep Bay area during the survey period (Table 1). The changes in waterbird numbers between April and September from 2013 to 2017 are shown in Figures 1 and 2.

Figure 1. Number of waterbirds in the Deep Bay area from April to September, 2013-2017.

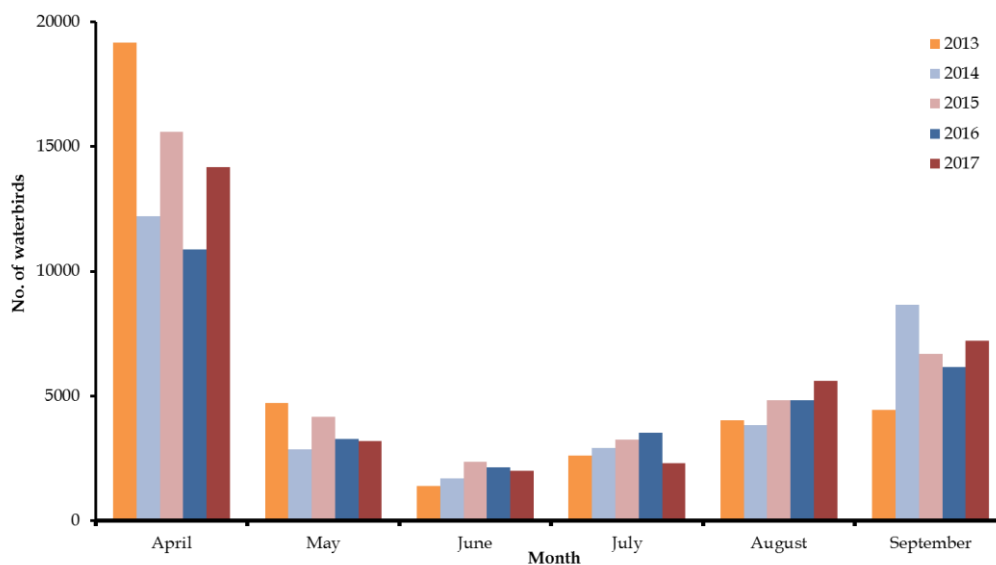
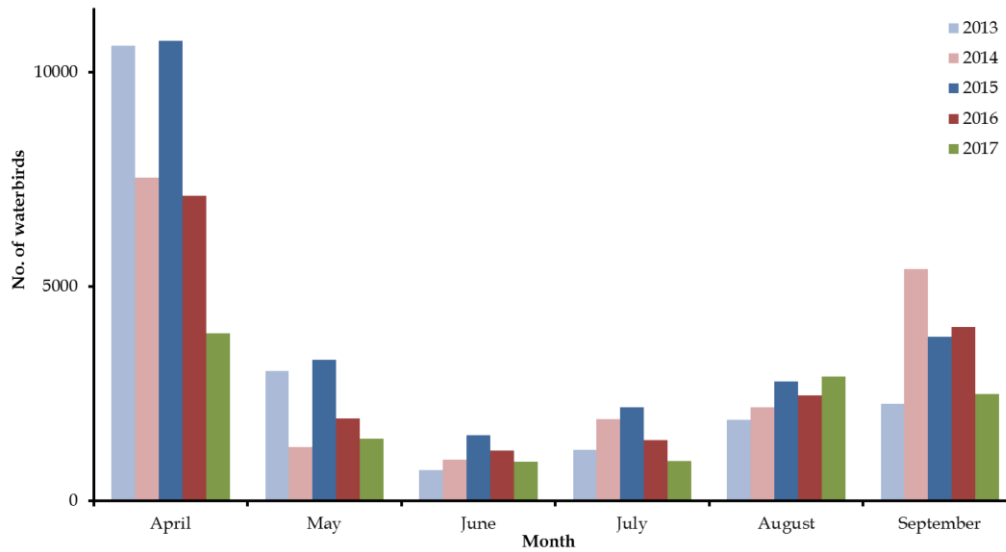


Figure 2. Number of waterbirds in the Ramsar Site from April to September, 2013-2017.



The results of the monthly counts conducted between April and September from 2013 onwards are presented in Tables 2a and 2b. Details of the counts in summer 2017 are shown in the monthly summaries in Appendix 1.

Summaries of the counts by waterbird group from April to September 2017 are presented in Tables 3a to 3f and Tables 4a and 4b. Brief reviews of the specific waterbird groups and globally threatened species recorded from April to September 2017 are given in Sections 3.1 to 3.7 below.

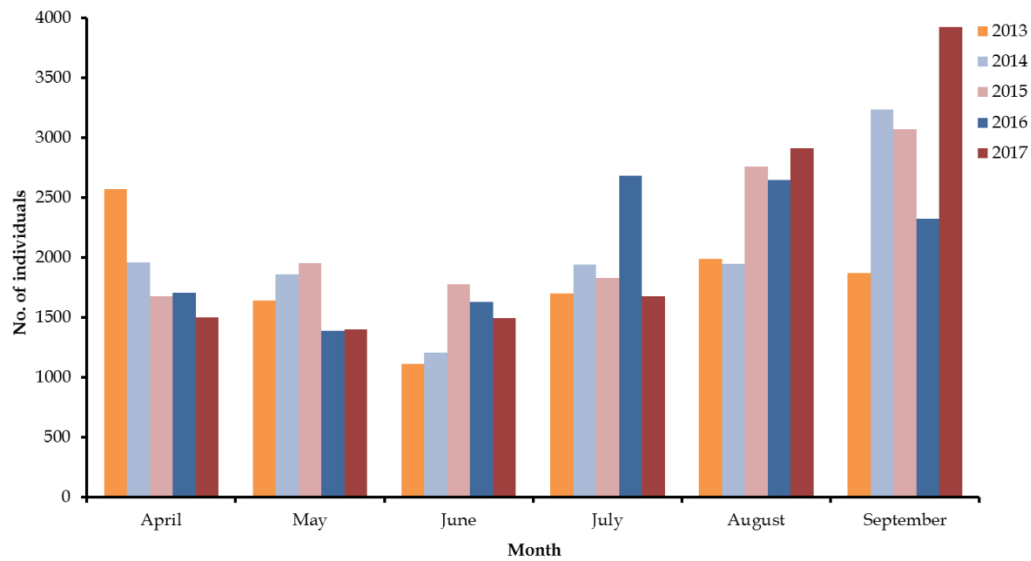
3.1 Great Cormorant

The Great Cormorant *Phalacrocorax carbo* is mainly a winter visitor to the Deep Bay area, so very few individuals were recorded during the period from April to September. The highest count was three individuals recorded in September. There were only one or two individuals recorded in the summer months from May to August.

3.2 Ardeids

The highest count of this waterbird group in summer 2017 was 3,920 individuals recorded in September, which was a 46% increase from the highest count of summer 2016 (2,679 individuals in July 2016, Figure 3) and this is the highest count in summer since 1998. In terms of individual species, the highest count of Great Egret *Ardea alba*, a species of regional conservation concern, was 1,400 individuals recorded in September. The number of Great Egret was 49% higher than that in previous year (938 individuals in 2016). The Little Egret *Egretta garzetta* had a high count of 1,408 individuals in September, representing an increase of 51% over the record of the preceding year (935 individuals in 2016).

Figure 3. Number of Ardeids in the Deep Bay area from April to September, 2013-2017.

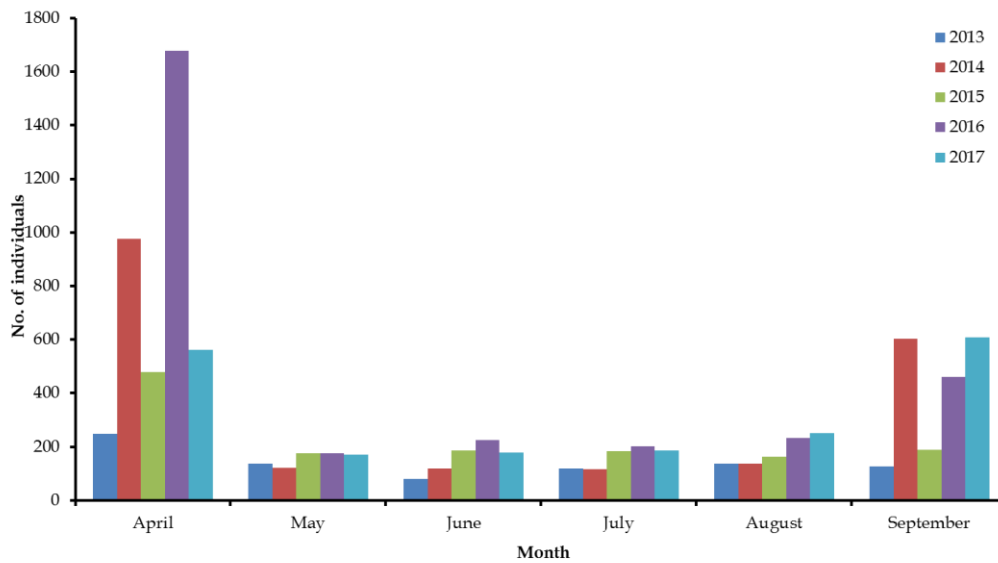


Under the Waterbird Monitoring Programme, egretty monitoring was also undertaken from April to July 2017 to record the number of nests of ardeids at known breeding sites in Hong Kong, with reference to the Mai Po Inner Deep Bay Ramsar Site. Further details of the monitoring results can be found in the Summer 2017 Report: Egretty Counts in Hong Kong (Anon, 2017b).

3.3 Ducks and Grebes

Since many ducks return to their breeding grounds in northeast Asia during the summer, only low numbers were recorded from April to September. The highest count was 608 individuals in September, which was only around one-third of the highest count of the previous year (1,679 individuals in April 2016, Figure 4). The count in May and August were similar to those in the previous year while the counts in the other months in the summer this year were lower than those of the previous year except September.

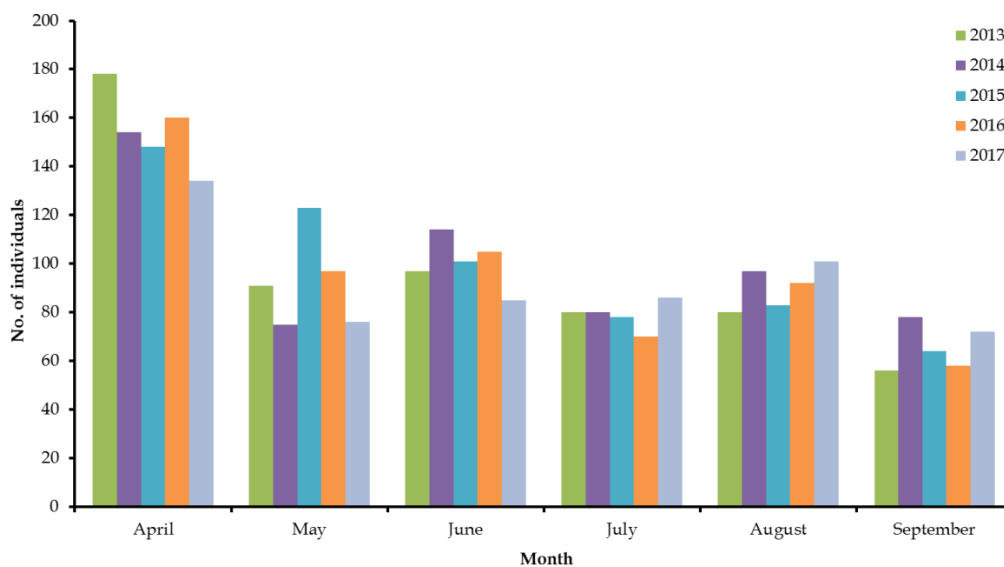
Figure 4. Number of Ducks and Grebes in the Deep Bay area from April to September, 2013-2017.



3.4 Rails and Coots

This group of waterbirds is usually recorded in low numbers compared to the other waterbird groups, as most of them are secretive and small in size. The two most common species were White-breasted Waterhen *Amaurornis phoenicurus* and Common Moorhen *Gallinula chloropus*. The highest count of this group was 134 individuals recorded in April. This represented a decrease of 16% from that of the previous year (160 individuals in April 2016, Figure 5).

Figure 5. Number of Rails and Coots in the Deep Bay area from April to September, 2013-2017.

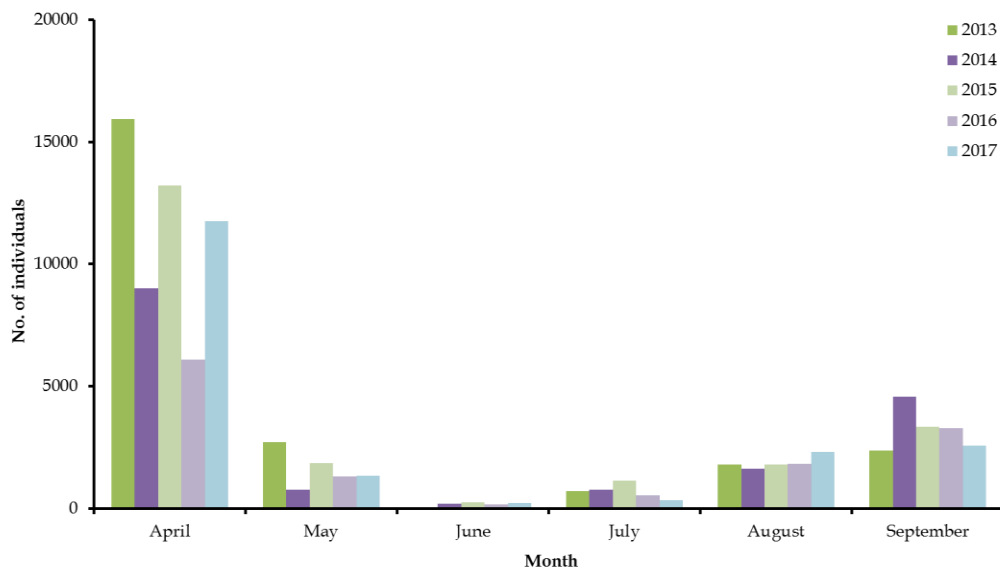


3.5 Shorebirds

Large number of passage shorebirds were recorded in the Deep Bay area in spring. The highest count of 11,747 shorebirds was recorded in April, an increase of 93% from the count of April 2016 (6,096 individuals, Figure 6). The shorebird numbers in other months were also higher than those in 2016 except the count in July and September (Figure 6). In terms of individual species, the highest count was a count of 6,316 individuals of the Curlew Sandpiper *Calidris ferruginea* in April. The second highest count was from the Common Redshank *Tringa totanus*, with 1,312 birds recorded in April.

Only Black-winged Stilt *Himantopus himantopus* was recorded breeding in this study period. Two nests and four chicks of Black-winged Stilts were recorded in the Mai Po Marshes Nature Reserve from causal observation this summer. There was no breeding evidence of other species, e.g. Greater Painted Snipe *Rostratula benghalensis*, this summer.

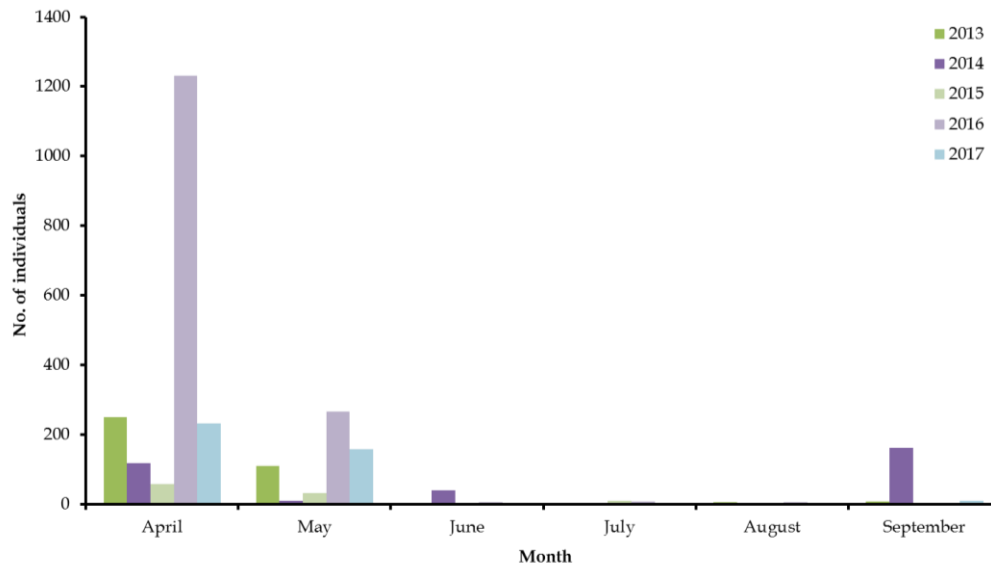
Figure 6. Number of Shorebirds in the Deep Bay area from April to September, 2013-2017.



3.6 Gulls and Terns

The highest count of gulls and terns was 232 individuals recorded in April. A decrease of 81% compared to that highest count record in 2016 (1,230 individuals recorded in 2016). The number of high count of tern species in April was probably a passage flock which made a stopover in the Deep Bay area during migration. Gulls and terns were recorded in very low numbers in all months after May this summer.

Figure 7. Number of Gulls and Terns in the Deep Bay area from April to September, 2013-2017.



3.7 Globally threatened and near threatened species

To identify globally threatened and near threatened waterbird species, the IUCN Red List of Threatened Species (Birdlife International 2017, IUCN 2017) was referred. Twelve globally threatened or near threatened species were recorded in summer 2017, as follows:

Black-faced Spoonbill *Platalea minor* (Endangered) - A high count of 28 individuals were recorded in April, the number dropped to 11 in May. None was recorded from June to September.

Black-tailed Godwit *Limosa limosa* (Near Threatened) - The highest count was 646 individuals recorded in April. Small numbers were recorded in May (2 birds), June (24 birds) and July (45 birds), but the number rose to 290 individuals in August and 203 individuals in September.

Bar-tailed Godwit *Limosa lapponica* (Near Threatened) - Three individuals were recorded in May and 5 individuals were recorded in September.

Eurasian Curlew *Numenius arquata* (Near Threatened) - Fourteen individuals were recorded in April, 23 in May and 2 in July. The numbers increased to six in August and 103 in September.

Far Eastern Curlew *Numenius madagascariensis* (Endangered) - One individual was recorded in May and September. Most of this species is passage migrant in Hong Kong with several wintering records.

Nordmann's Greenshank *Tringa guttifer* (Endangered) - Four individuals were

recorded in April.

Asian Dowitcher *Limnodromus semipalmatus* (Near Threatened) – Twelve individuals were recorded in April and 2 in May.

Grey-tailed Tattler *Tringa brevipes* (Near Threatened) –Three individuals were recorded in September.

Red Knot *Calidris canutus* (Near Threatened) - Four individuals were recorded in April, 16 individuals were recorded in May and one individual was recorded in September.

Great Knot *Calidris tenuirostris* (Endangered) – Fifty four individuals were recorded in April, and 3 individuals were recorded in June.

Red-necked Stint *Calidris ruficollis* (Near Threatened) - The highest count were 182 individuals in April. The number was dropped to 148 in May, two individuals record in June and three individuals were recorded in September.

Curlew Sandpiper *Calidris ferruginea* (Near Threatened) - The Curlew Sandpiper was the most abundant species recorded in April at a count of 6,316 individuals, but its number dropped to only 45 individuals in May. None were recorded from June to September.

4. Discussion

The average number of waterbirds per month in the Deep Bay area was higher than that in the same period (April to September) of the previous year (2017: 5,737; 2016: 5,125), and the average number recorded in the Ramsar Site was lower (2017: 2,094; 2016: 3,019) (Table 5). The higher average number of waterbirds per month in the Deep Bay area this summer was mainly attributed to the high numbers of spring passage migrants in April compared with previous year (2017: 14,178 individuals in April; 2016: 10,877 individuals in April). The average number in the Ramsar site, as well as its proportion in the Deep Bay area (37% of the total number), in summer 2017 were the lowest since 1998. The low average number of waterbirds per month in the Ramsar Site this summer might be due to the reprofiling of *gei wai* 16/17 in Mai Po Nature Reserve. The construction work highly affected the habitat in Mai Po Nature Reserve.

5. Acknowledgements

We are indebted to the following counters from the Hong Kong Bird Watching Society for their participation in the counts to collect baseline information for this

biannual report: Bonnie CHAN, CHAN Ka-ho, CHEUNG Ka Chun, Emily CHOW, Gary CHOW, CHUNG Yun-tak, John CHUNG, Johnson CHUNG, FONG Yik-yuen, Forrest FONG, Helen FONG, Vivian FU, Bowie FUNG, Rebecca FUNG, Martin HALE, HUNG Wai-ming, Aaron KEUNG, Alan LAM, Karly LAU, Paul LEADER, Roger LEE, Banson LEUNG, Elizabeth LEVEN, Michael LEVEN, Richard LEWTHWAITE, Tom LI, LO Wing-fung, Austin NG, NG Cho-nam, SO Ying-kin, Kaman SUN, Graham TALBOT, Ivan TSE, Nelson WAN, WAN Chun-hin, Captain WONG, Jessica WONG, WOO Ming Chuan, Elizabeth WU, Haley YEUNG, YING Hak-king, Louisa YIP and YU Yat-tung. We also thank the members of the Shenzhen Bird Watching Society and the staff of Hong Kong Wetland Park for their contribution in collecting the waterbird data.

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**Mai Po Inner Deep Bay Ramsar Site
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Maps

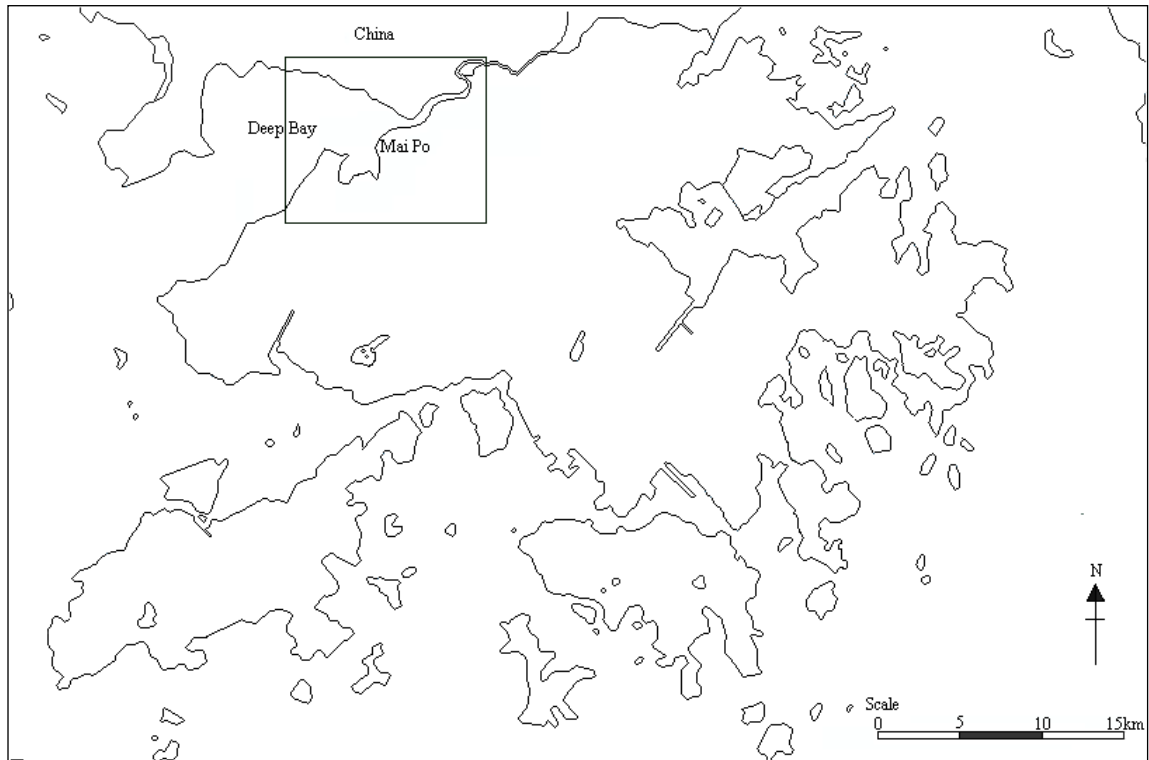


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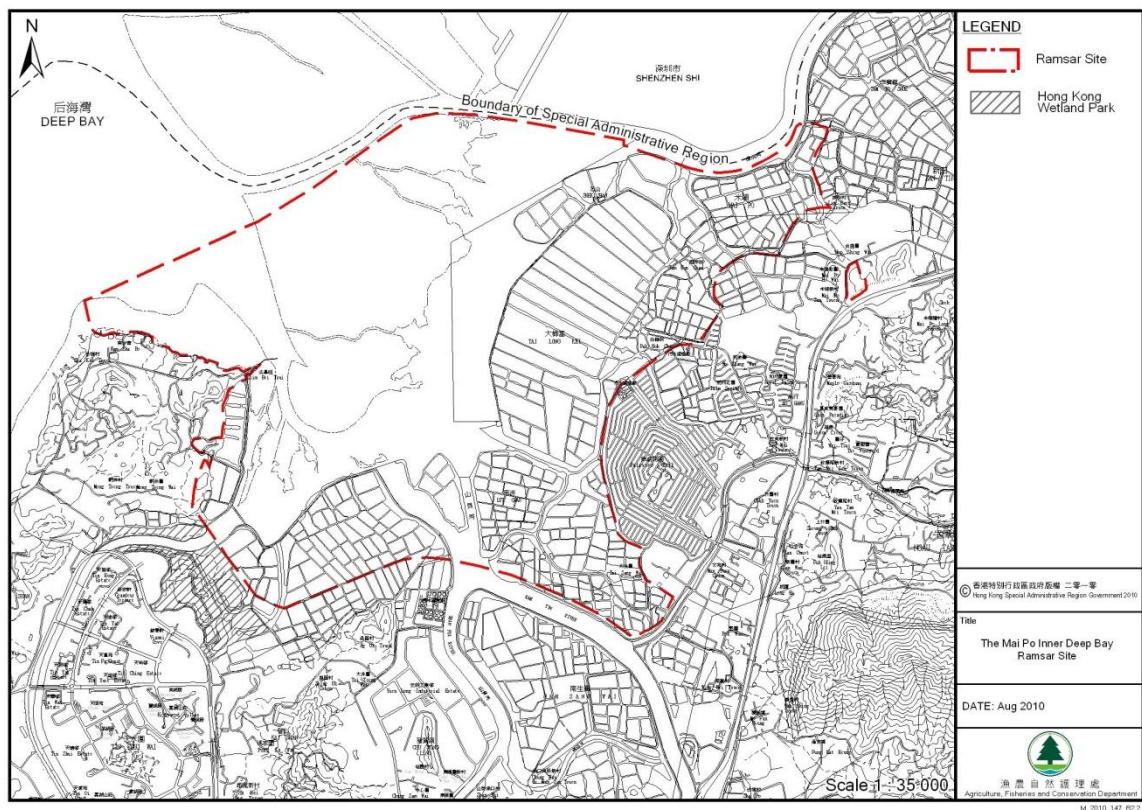


Agriculture, Fisheries and Conservation Department

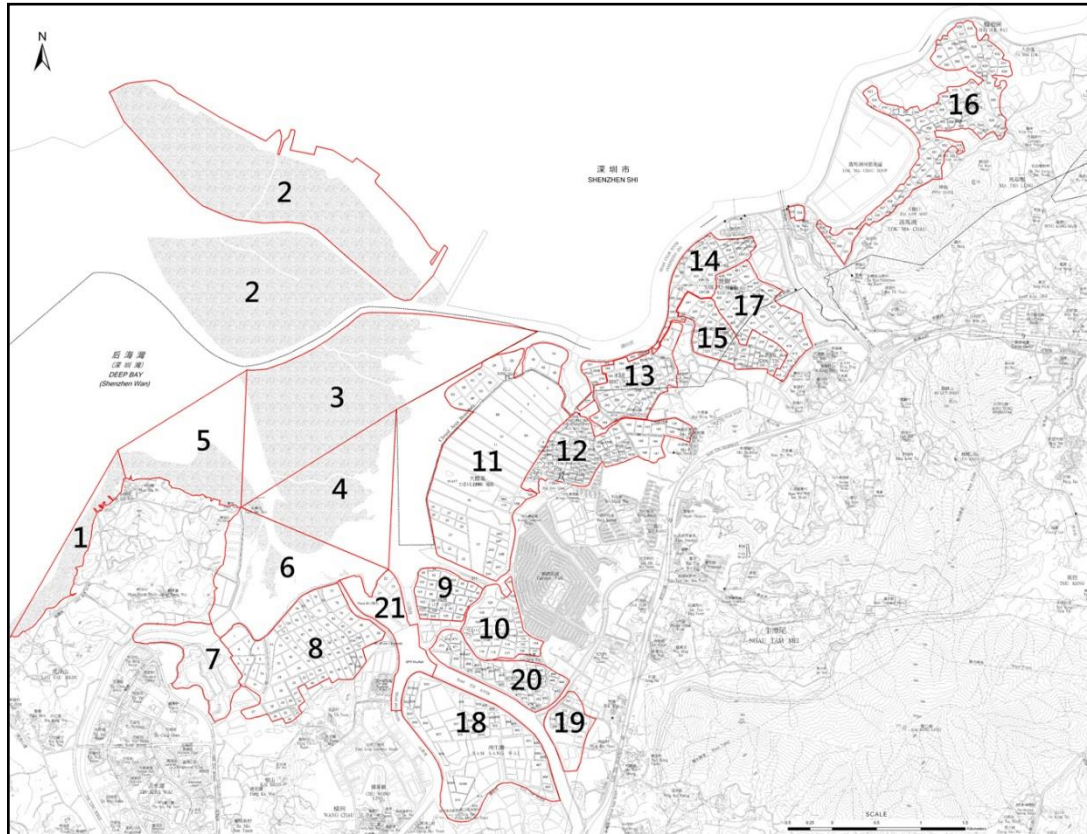
Map 1. Map of Hong Kong showing the location of the Mai Po Inner Deep Bay area.



Map 2. Boundary of the Mai Po Inner Deep Bay Ramsar Site.



Map 3. Locations of counting areas in the Waterbird Monitoring Programme (1: Tsim Bei Tsui to Nim Wan; 2: Deep Bay 'A'; 3: Deep Bay 'B'; 4: Deep Bay 'C'; 5: Deep Bay 'D'; 6: Deep Bay 'E'; 7: Hong Kong Wetland Park; 8: Deep Bay 'F' (Tsim Bei Tsui fishpond); 9: Lut Chau; 10: Tai Sang Wai; 11: Mai Po Marshes Nature Reserve; 12: Tam Kon Chau; 13: Mai Po San Tsuen; 14: Shenzhen River 'A'; 15: San Tin; 16: Shenzhen River 'B'; 17: Sam Po Shue; 18: Nam Sang Wai; 19: Wing Kei Tsuen; 20: Luen Hing Wai; 21: Shan Pui River.)



**Mai Po Inner Deep Bay Ramsar Site
Waterbird Monitoring Programme**

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Tables



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

Table 1. List of waterbird and wetland dependent species recorded in the Deep Bay area between April and September 2017.

Species	Globally threatened and near threatened species (IUCN Status)
<i>Cormorants</i>	
Great Cormorant	
<i>Ardeids and Ciconiiformes</i>	
Grey Heron	
Purple Heron	
Great Egret	
Intermediate Egret	
Little Egret	
Eastern Cattle Egret	
Chinese Pond Heron	
Striated Heron	
Black-crowned Night Heron	
Yellow Bittern	
Cinnamon Bittern	
Black Bittern	
Black-faced Spoonbill	EN
<i>Ducks, Grebes and Pelicans</i>	
Little Grebe	
Eurasian Wigeon	
Chinese Spot-billed Duck	
Garganey	
Northern Shoveler	
Tufted Duck	
Lesser Whistling Duck	
<i>Rails and coots</i>	
Eastern Water Rail	
White-breasted Waterhen	
Watercock	
Common Moorhen	
<i>Shorebirds</i>	
Greater Painted-snipe	
Black-winged Stilt	
Pied Avocet	
Grey-headed Lapwing	
Pacific Golden Plover	
Grey Plover	
Little Ringed Plover	
Kentish Plover	
Lesser Sand Plover	
Greater Sand Plover	
Black-tailed Godwit	NT
Bar-tailed Godwit	NT
Whimbrel	
Eurasian Curlew	NT
Far Eastern Curlew	EN
Spotted Redshank	
Common Redshank	
Marsh Sandpiper	
Common Greenshank	
Nordmann's Greenshank	EN
Green Sandpiper	

Wood Sandpiper	
Terek Sandpiper	
Common Sandpiper	
Grey-tailed Tattler	NT
Ruddy Turnstone	
Pintail Snipe	
Pintail/Swinhoe's Snipe	
Common Snipe	
Asian Dowitcher	NT
Red Knot	NT
Great Knot	EN
Sanderling	
Red-necked Stint	NT
Little Stint	
Temminck's Stint	
Long-toed Stint	
Sharp-tailed Sandpiper	
Dunlin	
Curlew Sandpiper	NT
Broad-billed Sandpiper	

Gulls and Terns

Caspian Gull	
Large Gull spp.*	
Black-headed Gull	
Whiskered Tern	
White-winged Tern	
Gull-billed Tern	
Caspian Tern	

Wetland dependent species

Western Osprey	
Black Kite	
Eastern Marsh Harrier	
Peregrine Falcon	
Pied Kingfisher	
Common Kingfisher	
White-throated Kingfisher	
Black-capped Kingfisher	
Red-billed Starling	
Collared Crow	NT
Besra	

*unidentified species and not included in the total number of species recorded

Table 2a. Numbers of waterbirds in the Deep Bay area between April and September, 2013-2017.

	2013	2014	2015	2016	2017	Mean	SD
April	19,191	12,221	15,610	10,877	14,176	14,267	5,242
May	4,712	2,838	4,149	3,254	3,171	4,627	2,039
June	1,367	1,687	2,343	2,137	1,985	2,004	615
July	2,612	2,906	3,240	3,517	2,295	2,999	795
August	4,022	3,813	4,816	4,815	5,594	4,223	818
September	4,434	8,659	6,674	6,148	7,197	5,914	1,311

Figures of mean and SD are calculated from the commencement of this programme in 1998 to the latest count.

Table 2b. Numbers of waterbirds in the Ramsar Site between April and September, 2013-2017.

	2013	2014	2015	2016	2017	Mean	SD
April	10,622	7,534	10,741	7,108	3,911	9,704	2,950
May	3,029	1,253	3,292	1,924	1,447	3,514	1,863
June	706	958	1,517	1,170	899	1,056	406
July	1,190	1,899	2,178	1,413	918	1,602	535
August	1,880	2,181	2,779	2,448	2,896	2,604	467
September	2,251	5,411	3,816	4,052	2,492	3,725	829

Figures of mean and SD are calculated from the commencement of this programme in 1998 to the latest count.

Table 3a. Summary of waterbird counts for April 2017.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	2	0.0%	0	0.0%	0
Ardeids	1,500	10.6%	578	14.8%	100
Ducks, grebes, pelicans	561	4.0%	220	5.6%	7
Rails and coot	134	0.9%	53	1.4%	2
Shorebirds	11,747	82.9%	2,833	72.5%	3
Gulls and terns	232	1.6%	227	5.8%	0
Total	14,177	100.0%	3,911	100.0%	112

Table 3b. Summary of waterbird counts for May 2017.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	2	0.1%	2	0.1%	0
Ardeids	1,402	44.2%	684	47.3%	156
Ducks, grebes, pelicans	171	5.4%	54	3.7%	1
Rails and coot	76	2.4%	27	1.9%	2
Shorebirds	1362	43.0%	624	43.1%	10
Gulls and terns	158	5.0%	56	3.9%	0
Total	3,171	100.0%	1,447	100.0%	169

Table 3c. Summary of waterbird counts for June 2017.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	1	0.1%	1	0.1%	0
Ardeids	1,497	75.4%	608	67.6%	173
Ducks, grebes, pelicans	178	9.0%	75	8.3%	0
Rails and coot	85	4.3%	27	3.0%	1
Shorebirds	221	11.1%	185	20.6%	0
Gulls and terns	3	0.2%	3	0.3%	4
Total	1,985	100.0%	899	100.0%	178

Table 3d. Summary of waterbird counts for July 2017.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	1	0.0%	0	0.0%	0
Ardeids	1,675	73.0%	607	66.1%	112
Ducks, grebes, pelicans	185	8.1%	59	6.4%	0
Rails and coot	86	3.7%	29	3.2%	7
Shorebirds	344	15.0%	221	24.1%	0
Gulls and terns	4	0.2%	2	0.2%	0
Total	2,295	100.0%	918	100.0%	119

Table 3e. Summary of waterbird counts for August 2017.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	2	0.0%	2	0.1%	0
Ardeids	2,913	52.1%	819	28.3%	139
Ducks, grebes, pelicans	250	4.5%	114	3.9%	0
Rails and coot	101	1.8%	24	0.8%	4
Shorebirds	2,327	41.6%	1,936	66.9%	16
Gulls and terns	1	0.0%	1	0.0%	0
Total	5,594	100.0%	2,896	100.0%	159

Table 3f. Summary of waterbird counts for September 2017.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	3	0.0%	0	0.0%	0
Ardeids	3,920	54.5%	1,473	59.1%	48
Ducks, grebes, pelicans	608	8.4%	115	4.6%	0
Rails and coot	72	1.0%	29	1.2%	1
Shorebirds	2,584	35.9%	866	34.8%	0
Gulls and terns	10	0.1%	9	0.4%	0
Total	7,197	100.0%	2,492	100.0%	49

Table 4a. Numbers of waterbird in various species groups in Deep Bay area from April to September 2017.

	April	May	June	July	August	September
Cormorants	2	2	1	1	2	3
Ardeids	1,500	1,402	1,497	1,675	2,913	3,920
Ducks, grebes, pelicans	561	171	178	185	250	608
Rails and coot	134	76	85	86	101	72
Shorebirds	11,747	1,362	221	344	2,327	2,584
Gulls and terns	232	158	3	4	1	10

Table 4b. Numbers of waterbird in various species groups in Ramsar Site from April to September 2017.

	April	May	June	July	August	September
Cormorants	0	2	1	0	2	0
Ardeids	578	684	608	607	819	1,473
Ducks, grebes, pelicans	220	54	75	59	114	115
Rails and coot	53	27	27	29	24	29
Shorebirds	2,833	624	185	221	1,936	866
Gulls and terns	227	56	3	2	1	9

Table 5. Average numbers of waterbirds per month from April to September since 1998. (From April to September: n = 6)

	2013	2014	2015	2016	2017	Mean	Min.	Max.
Deep Bay area	6,056 ± 6,557	5,354 ± 4,153	6,139 ± 4,868	5,125 ± 3,138	5,737 ± 4,602	5,631	3,101 (in 1998)	8,965 (in 2008)
Ramsar Site	3,280 ± 3,687	3,206 ± 2,654	4,054 ± 3,374	3,019 ± 2,250	2,094 ± 1,211	3,706	2,094 (in 2017)	5,586 (in 2008)
% in Ramsar Site	54%	60%	66%	59%	37%	67%	37% (in 2017)	88% (in 1998)

**Mai Po Inner Deep Bay Ramsar Site
Waterbird Monitoring Programme**

**Monthly Waterbird Monitoring
Biannual Report 1 (April to September 2017)**

Appendix 1



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

Summary of Waterbird Counts, April 2017

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	26	38	5					22	0	9	2	6			24	6	15	48	14	44	35	96	0	131	294	1
Great Crested Grebe																					0			0	0	
Great Cormorant	1	1						0	0	0	0				0	0	0	0	0	0	0	0	0	0	2	
Dalmatian Pelican																					0			0	0	
Grey Heron	5	0	10		11			0	2	2	0	5		1	0	1	0	1	0	0	21	2	13	36	59	
Purple Heron	1									1											1			1	3	
Great Egret	47	36	49		37	8		1	37	18	3	5	1	52	13	7	12	4	29	30	71	36	77	184	460	89
Intermediate Egret	3	0						0	0	0	0				4	0	0	1	0	0	5	3	0	8	13	2
Little Egret	36	62	37		6	2		8	25	28	12	4	1	28	92	24	27	10	28	81	60	148	32	240	571	7
Swinhoe's Egret																					0			0	0	
Pacific Reef Heron																					0			0	0	
Eastern Cattle Egret	11	44						3	0	0	0				16	0	0	21	0	17	3	24	0	27	115	
Chinese Pond Heron	31	25	21		1			0	1	27	6	2		2	31	16	15	11	25	19	4	62	2	68	237	
Striated Heron	0	0						1	0	0	0				0	0	0	0	0	0	0	1	0	1	1	
Black-crowned Night Heron	1	1	1		1			1	0	0	0			2	0	1	0	0	0	0	2	2	1	5	10	2
Yellow Bittern	0	0						3	0	0	0				0	0	0	0	0	0	0	3	0	3	3	
Cinnamon Bittern																					0			0	0	
Eurasian Bittern																					0			0	0	
Black Stork																					0			0	0	
Black-headed Ibis																					0			0	0	
Eurasian Spoonbill																					0			0	0	
Black-faced Spoonbill	4		6									13						1			4	1		5	28	
Common Shelduck																					0			0	0	
Eurasian Wigeon	0	0	8					1	0	0	0				0	0	0	0	0	0	0	1	0	1	9	
Falcated Duck																					0			0	0	
Gadwall																					0			0	0	
Baikal Teal																					0			0	0	
Eurasian Teal	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	6
Mallard																					0			0	0	
Spot-billed Duck																					0			0	0	
Chinese Spot-billed Duck																					0			0	0	
Indian Spot-billed Duck																					0			0	0	
Northern Pintail																					0			0	0	
Garganey			80		18	50						4									0		68	68	152	
Northern Shoveler			83		20							2									0		20	20	105	
Common Pochard																					0			0	0	
Baer's Pochard																					0			0	0	
Tufted Duck															1						0			0	1	
Greater Scaup																					0			0	0	
Red-breasted Merganser																					0			0	0	
Duck sp.																					0			0	0	
Slaty-breasted Rail																					0			0	0	
Eastern Water Rail																					0			0	0	
White-breasted Waterhen	5	5	5					4	0	4	2	1	1	1	7	8	7	1	5	1	1	22	0	23	58	
Watercock																					1			1	1	
Common Moorhen	6	4	25					5	0	10	0	1			5	0	0	3	0	0	16	13	0	29	75	2
Eurasian Coot																					0			0	0	

Pheasant-tailed Jacana																					0			0	0		
Greater Painted-snipe																						0			0	0	
Black-winged Stilt	14		96					4	6	7			13					9	1	11	6			17	161	2	
Pied Avocet			364	312*						12						20				0	20	312	332	396			
Oriental Pratincole																					0			0	0		
Northern Lapwing																					0			0	0		
Grey-headed Lapwing																					0			0	0		
Pacific Golden Plover			156																		57			57	213		
Grey Plover			33								6	1									0			0	40		
Common Ringed Plover																					0			0	0		
Little Ringed Plover	2	10	1			0	0	0	0	3		1	0	0	0	0	1	2		0	0	0	0	20			
Kentish Plover			2																		0			0	2		
Lesser Sand Plover			2	19																	0		19	19	21		
Greater Sand Plover			12	197								4									0		197	197	213		
Black-tailed Godwit			82							1											563			563	646		
Bar-tailed Godwit																					3			3	3		
Whimbrel				1							1										0		1	1	2		
Eurasian Curlew				3																	11		3	14	14		
Far Eastern Curlew																					0			0	0		
Spotted Redshank			14							89											18			18	121		
Common Redshank			518							594						1					199	1		200	1312		
Marsh Sandpiper	1	2	495							97											174			174	769		
Common Greenshank	5	2	250							171	10							1			235			235	674		
Nordmann's Greenshank																					4			4	4		
Green Sandpiper	4	3				0	0	1	12				2	0	0	0	0	0	0		0	12	0	12	22		
Wood Sandpiper	53	39	22			1	0	3	0	4			1	1	1	14	7	24		33	18	0	51	203			
Terek Sandpiper			15	92						10	2										0		92	92	119		
Common Sandpiper	3	14	25	2		0	0	7	2		1	2	9	2	1	7	10	6		0	14	2	16	91	1		
Grey-tailed Tattler																					0			0	0		
Ruddy Turnstone																					1			1	1		
Red-necked Phalarope																					0			0	0		
Pintail Snipe			1																		0			0	1		
Swinhoe's Snipe																					0			0	0		
Pintail/Swinhoe's Snipe																					0			0	0		
Common Snipe	1															1					0	1		1	2		
Long-billed Dowitcher																					0			0	0		
Asian Dowitcher																					12			12	12		
Red Knot				3												1					0	1	3	4	4		
Great Knot				53								1									0		53	53	54		
Sanderling																					0			0	0		
Red-necked Stint	3		80	84*						1						97				1	97	84	182	182			
Little Stint				2																	0		2	2	2		
Temminck's Stint																		9			0			0	9		
Long-toed Stint	13	8								6						2					0	2	2	29			
Pectoral Sandpiper																					0			0	0		
Sharp-tailed Sandpiper			35	3																	1		3	4	39		
Dunlin										25											0			0	25		
Curlew Sandpiper	1		6300	556*														15			0		556	556	6316		
Spoon-billed Sandpiper																					0			0	0		
Broad-billed Sandpiper			25	11*																	0		11	11	25		
Ruff																					0			0	0		

Summary of Waterbird Counts, May 2017

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	36	19	3					6	1	7	5	3			8	1	12	13	14	27	14	40	0	54	169	1
Great Crested Grebe																					0			0	0	
Great Cormorant	0	0		1				0	0	0	0				0	0	0	0	0	0	1	0	1	2	2	
Dalmatian Pelican																					0			0	0	
Grey Heron	5	0	1					3	2	0	0	6			0	0	0	0	0	0	2	4	1	7	19	
Purple Heron																					0			0	0	
Great Egret	14	8	105	57	78	41	39	23	42	18	3	1		1	11	8	10	4	7	23	69	70	239	378	562	93
Intermediate Egret	2	0	1					0	0	0	0				1	0	0	1	0	2	8	2	0	10	15	3
Little Egret	18	20	141	3	9	1	12	8	20	12	5	4		5	53	20	21	7	12	69	28	106	40	174	468	22
Swinhoe's Egret																					0			0	0	
Pacific Reef Heron																					0			0	0	
Eastern Cattle Egret	4	10	1					2	0	0	3				0	0	0	0	0	19	6	4	0	10	45	14
Chinese Pond Heron	18	11	46		1		1	1	0	21	3				27	13	11	18	22	25	9	62	2	73	227	
Striated Heron	0	0	1					1	0	0	0				0	0	0	0	0	0	1	1	0	2	3	
Black-crowned Night Heron	16	3	5		8		1	0	0	1	0				1	0	0	3	1	1	1	4	9	14	41	24
Yellow Bittern	1	1	1					0	0	0	0	2			2	0	0	4	0	0	0	5	0	5	11	
Cinnamon Bittern																					0			0	0	
Eurasian Bittern																					0			0	0	
Black Stork																					0			0	0	
Black-headed Ibis																					0			0	0	
Eurasian Spoonbill																					0			0	0	
Black-faced Spoonbill				10																	1		10	11	11	
Common Shelduck																					0			0	0	
Eurasian Wigeon	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0
Falcated Duck																					0			0	0	
Gadwall																					0			0	0	
Baikal Teal																					0			0	0	
Eurasian Teal	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0
Mallard																					0			0	0	
Spot-billed Duck																					0			0	0	
Chinese Spot-billed Duck																					0			0	0	
Indian Spot-billed Duck																					0			0	0	
Northern Pintail																					0			0	0	
Garganey																					0			0	0	
Northern Shoveler			1																		0			0	1	
Common Pochard																					0			0	0	
Baer's Pochard																					0			0	0	
Tufted Duck															1						0			0	1	
Greater Scaup																					0			0	0	
Red-breasted Merganser																					0			0	0	
Duck sp.																					0			0	0	
Slaty-breasted Rail																					0			0	0	
Eastern Water Rail																					0			0	0	
White-breasted Waterhen	3	1	11					0	0	9	7	3			5	5	4	2	0	0	4	22	0	26	54	2
Watercock																					0			0	0	
Common Moorhen	2	0	15					1	0	0	0	1			2	0	0	1	0	0	0	1	0	1	22	
Eurasian Coot																					0			0	0	

Pheasant-tailed Jacana																			0			0	0	
Greater Painted-snipe																			0			0	0	
Black-winged Stilt			1																10			10	11	
Pied Avocet			450												4	7			291			291	752	
Oriental Pratincole																			0			0	0	
Northern Lapwing																			0			0	0	
Grey-headed Lapwing																			0			0	0	
Pacific Golden Plover			25																0			0	25	
Grey Plover			1	12*															59			59	60	
Common Ringed Plover																			0			0	0	
Little Ringed Plover	0	0	17				0	0	0	0			1	0	0	0	1	0	0	1	0	1	19	
Kentish Plover			2																0			0	2	
Lesser Sand Plover				4*															4			4	4	
Greater Sand Plover			2	23*															32			32	34	
Black-tailed Godwit																			2			2	2	
Bar-tailed Godwit																			0			0	0	
Whimbrel				7															0		7	7	7	
Eurasian Curlew				23															0		23	23	23	
Far Eastern Curlew																			1			1	1	
Spotted Redshank			4																15			15	19	
Common Redshank			48						14									5	0			0	67	
Marsh Sandpiper																			0			0	0	
Common Greenshank			50						2								2	6				6	60	6
Nordmann's Greenshank																			0			0	0	
Green Sandpiper	0	0					0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	
Wood Sandpiper	0	0					0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	
Terek Sandpiper			2																1			1	3	
Common Sandpiper	0	2	7		1		0	0	1	0			2	0	1	0	0	6	0	0	1	1	20	1
Grey-tailed Tattler																			0			0	0	3
Ruddy Turnstone				1															0		1	1	1	
Red-necked Phalarope																			0			0	0	
Pintail Snipe																			0			0	0	
Swinhoe's Snipe																			0			0	0	
Pintail/Swinhoe's Snipe																			0			0	0	
Common Snipe																			0			0	0	
Long-billed Dowitcher																			0			0	0	
Asian Dowitcher			2																0			0	2	
Red Knot				16															0		16	16	16	
Great Knot																			0			0	0	
Sanderling				1															0		1	1	1	
Red-necked Stint			10															26	112			112	148	
Little Stint																			0			0	0	
Temminck's Stint																			0			0	0	
Long-toed Stint																			0			0	0	
Pectoral Sandpiper																			0			0	0	
Sharp-tailed Sandpiper																			39			39	39	
Dunlin																			0			0	0	
Curlew Sandpiper			45																0			0	45	
Spoon-billed Sandpiper																			0			0	0	
Broad-billed Sandpiper																			1			1	1	
Ruff																			0			0	0	

Wader sp.																					0			0	0		
Small wader sp.																						0			0	0	
Black-tailed Gull																						0			0	0	
Heuglin's Gull																						0			0	0	
Caspian Gull																						0			0	0	
Slaty-backed Gull																						0			0	0	
Pallas's Gull																						0			0	0	
Large Gull spp.																						0			0	0	
Brown-headed Gull																						0			0	0	
Black-headed Gull	0	0					5	0	0	0	0				0	0	0	0	0	0	0	0	0	5	5	5	
Saunders's Gull																						0			0	0	
Whiskered Tern																				14	54	0			0	68	
White-winged Tern		8			12										32				2	24	6	32	12	50	84		
Gull-billed Tern																						1		1	1		
Caspian Tern																						0		0	0		
Total	119	83	998	119	109	42	58	45	65	69	26	36	0	8	112	80	58	53	83	284	724	355	368	1447	3171	169	
	Deep Bay Area	%	Ramsar Site	%	SI	%																					
Cormorants	2	0%	2	0%	0	0%																					
Ardeids etc	1402	44%	684	47%	156	92%																					
Ducks, grebes, pelicans	171	5%	54	4%	1	1%																					
Rails, coot etc	76	2%	27	2%	2	1%																					
Shorebirds	1362	43%	624	43%	10	6%																					
Gulls and terns	158	5%	56	4%	0	0%																					
TOTAL	3171	100%	1447	100%	169	100%																					
Date of count: 14 May 2017																											
High tide measured at TBT: 2.6m																											
Wetland-dependent species																											
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW/LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet	
Western Osprey			1																		0			0	1		
Black Kite	1	1	1					2	1	0	0				0	0	3	1	1	1	2	6	0	8	14		
White-bellied Sea Eagle																					0			0	0		
Eastern Marsh Harrier																					0			0	0		
Eastern Buzzard																					0			0	0		
Greater Spotted Eagle	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0		
Eastern Imperial Eagle	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0		
Peregrine Falcon																					0			0	0		
Pied Kingfisher	0	4	7		1	5	1	0	1	3	1	1			0	0	0	0	0	0	0	2	7	9	24		
Common Kingfisher	0	2	2					1	0	0	0	1			1	0	0	0	2	1	1	1	0	2	11		
White-throated Kingfisher	0	0	1					0	0	1	0			1	0	0	0	1	0	0	0	1	0	1	4		
Black-capped Kingfisher	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0		
Red-billed Starling	0	0	40					7	0	0	0				0	0	0	3	0	0	0	10	0	10	50		
Collared Crow	0	0	3					1	0	0	2				2	34	3	2	0	0	22	42	0	64	69		

Summary of Waterbird Counts, June 2017

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TK C	LC	TSW	MP ST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	36	28	1					22	0	7	2	3			7	6	6	24	7	9	18	57	0	75	176	
Great Crested Grebe																					0			0	0	
Great Cormorant	0	0						0	0	0	0				0	0	0	0	0	0	1	0	0	1	1	
Dalmatian Pelican																					0			0	0	
Grey Heron	0	0	3					0	0	1	0	1			0	0	0	0	0	0	7	0	0	7	12	1
Purple Heron		1																			0			0	1	
Great Egret	16	43	159	12	11	7	36	3	78	10	8	3	1	1	10	103	11	1	14	47	96	129	142	367	670	148
Intermediate Egret	1	0	1					0	0	0	0				0	1	0	0	1	7	0	1	0	1	11	
Little Egret	12	41	111	1	3	7	10	1	6	39	6	1	1	6	31	5	10	6	32	32	79	42	26	147	440	18
Swinhoe's Egret																					0			0	0	
Pacific Reef Heron																					0			0	0	
Eastern Cattle Egret	2	0	1					1	1	1	5				0	0	0	2	0	1	19	3	1	23	33	
Chinese Pond Heron	18	50	8	1		1		3	3	26	11	4	1	4	17	5	3	17	36	36	5	39	5	49	249	1
Striated Heron	0	0	4	1		1		0	0	0	0				0	0	0	0	1	0	2	0	2	4	9	1
Black-crowned Night Heron	9	34	3	2				1	0	3	1			1	0	0	1	1	1	6	0	3	2	5	63	4
Yellow Bittern	0	0						0	0	0	0	4			0	0	0	4	0	0	1	4	0	5	9	
Cinnamon Bittern																					0			0	0	
Eurasian Bittern																					0			0	0	
Black Stork																					0			0	0	
Black-headed Ibis																					0			0	0	
Eurasian Spoonbill																					0			0	0	
Black-faced Spoonbill																					0			0	0	
Common Shelduck																					0			0	0	
Eurasian Wigeon	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Falcated Duck																					0			0	0	
Gadwall																					0			0	0	
Baikal Teal																					0			0	0	
Eurasian Teal	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Mallard																					0			0	0	
Spot-billed Duck																					0			0	0	
Chinese Spot-billed Duck																					0			0	0	
Indian Spot-billed Duck																					0			0	0	
Northern Pintail																					0			0	0	
Garganey																					0			0	0	
Northern Shoveler																					0			0	0	
Common Pochard																					0			0	0	
Baer's Pochard																					0			0	0	
Tufted Duck																					0			0	0	
Greater Scaup																					0			0	0	
Red-breasted Merganser																					0			0	0	
Lesser Whistling Duck	2																				0			0	2	
Duck sp.																					0			0	0	
Slaty-breasted Rail																					0			0	0	
Eastern Water Rail																					0			0	0	
White-breasted Waterhen	4	9	9					0	0	4	9			1	3	0	0	9	6	3	5	22	0	27	62	1
Watercock																					0			0	0	
Common Moorhen	3	0	18					0	0	2	0				0	0	0	0	0	0	0	0	0	0	23	

Eurasian Coot																			0			0	0
Pheasant-tailed Jacana																			0			0	0
Greater Painted-snipe	2																		0			0	2
Black-winged Stilt			1					4							1		5		30	1		31	41
Pied Avocet																			43			43	43
Oriental Pratincole																			0			0	0
Northern Lapwing																			0			0	0
Grey-headed Lapwing																			0			0	0
Pacific Golden Plover																			0			0	0
Grey Plover																			23			23	23
Common Ringed Plover																			0			0	0
Little Ringed Plover	5	2				0	0	1	0			2	0	0	0	0	6	4	0	0	0	0	20
Kentish Plover																			0			0	0
Lesser Sand Plover																			0			0	0
Greater Sand Plover																			0			0	0
Black-tailed Godwit																			24			24	24
Bar-tailed Godwit																			0			0	0
Whimbrel																			31			31	31
Eurasian Curlew																			0			0	0
Far Eastern Curlew																			0			0	0
Spotted Redshank																			0			0	0
Common Redshank																			6			6	6
Marsh Sandpiper																			0			0	0
Common Greenshank											1								23			23	24
Nordmann's Greenshank																			0			0	0
Green Sandpiper	0	0				0	0	0	0				0	0	0	0	0	0	0	0	0	0	0
Wood Sandpiper	0	0				0	0	0	0				0	0	0	0	0	0	0	0	0	0	0
Terek Sandpiper																			0			0	0
Common Sandpiper	0	0	1			0	0	0	0				0	0	1	0	0	0	0	1	0	1	2
Grey-tailed Tattler																			0			0	0
Ruddy Turnstone																			0			0	0
Red-necked Phalarope																			0			0	0
Pintail Snipe																			0			0	0
Swinhoe's Snipe																			0			0	0
Pintail/Swinhoe's Snipe																			0			0	0
Common Snipe																			0			0	0
Long-billed Dowitcher																			0			0	0
Asian Dowitcher																			0			0	0
Red Knot																			0			0	0
Great Knot																			3			3	3
Sanderling																			0			0	0
Red-necked Stint																	2		0			0	2
Little Stint																			0			0	0
Temminck's Stint																			0			0	0
Long-toed Stint																			0			0	0
Pectoral Sandpiper																			0			0	0
Sharp-tailed Sandpiper																			0			0	0
Dunlin																			0			0	0
Curlew Sandpiper																			0			0	0
Spoon-billed Sandpiper																			0			0	0
Broad-billed Sandpiper																			0			0	0

Summary of Waterbird Counts, July 2017

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	29	38					4	10	0	4	8	3			17	1	8	21	11	30	1	54	4	59	185	
Great Crested Grebe																					0			0	0	
Great Cormorant	0	1						0	0	0	0				0	0	0	0	0	0	0	0	0	0	1	
Dalmatian Pelican																					0			0	0	
Grey Heron	3	0						0	0	2	0				0	0	0	0	0	0	2	0	0	2	7	3
Purple Heron																					0			0	0	
Great Egret	53	19	38	5	47	3		27	24	32	4	1		4	16	10	24	5	44	79	27	73	78	178	462	77
Intermediate Egret	2	0						0	0	1	0				2	0	0	0	4	0	1	0	0	1	10	2
Little Egret	53	33	34	32	27	8		12	11	16	4		6	23	31	28	27	6	30	82	52	95	78	225	515	23
Swinhoe's Egret																					0			0	0	
Pacific Reef Heron																					0			0	0	
Eastern Cattle Egret	9	1		6			1	5	0	1	1				3	0	0	0	0	0	4	5	7	16	31	3
Chinese Pond Heron	53	76	37			2	1	5	4	26	14	4	3	1	93	18	25	21	44	49	12	120	7	139	488	3
Striated Heron	0	0						0	0	0	0				0	0	0	0	0	0	3	0	0	3	3	
Black-crowned Night Heron	45	24				1	1	1	0	6	20			1	4	0	0	1	20	15	10	25	2	37	149	1
Yellow Bittern	0	0						0	0	1	0	1			5	0	0	3	0	0	0	6	0	6	10	
Cinnamon Bittern																					0			0	0	
Eurasian Bittern																					0			0	0	
Black Stork																					0			0	0	
Black-headed Ibis																					0			0	0	
Eurasian Spoonbill																					0			0	0	
Black-faced Spoonbill																					0			0	0	
Common Shelduck																					0			0	0	
Eurasian Wigeon	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Falcated Duck																					0			0	0	
Gadwall																					0			0	0	
Baikal Teal																					0			0	0	
Eurasian Teal	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Mallard																					0			0	0	
Spot-billed Duck																					0			0	0	
Chinese Spot-billed Duck																					0			0	0	
Indian Spot-billed Duck																					0			0	0	
Northern Pintail																					0			0	0	
Garganey																					0			0	0	
Northern Shoveler																					0			0	0	
Common Pochard																					0			0	0	
Baer's Pochard																					0			0	0	
Tufted Duck																					0			0	0	
Greater Scaup																					0			0	0	
Red-breasted Merganser																					0			0	0	
Duck sp.																					0			0	0	
Slaty-breasted Rail																					0			0	0	
Eastern Water Rail																					1			1	1	
White-breasted Waterhen	6	16	3					4	2	4	8	2		5	8	2	0	5	5	9	1	22	2	25	80	7
Watercock																					0			0	0	
Common Moorhen	0	0	2	1				0	1	0	0				0	0	0	0	0	0	1	0	2	3	5	
Eurasian Coot																					0			0	0	

Pheasant-tailed Jacana																				0			0	0
Greater Painted-snipe																				0			0	0
Black-winged Stilt	4		2									38	4		9	21	42					63	78	
Pied Avocet																3						3	3	
Oriental Pratincole																0						0	0	
Northern Lapwing																0						0	0	
Grey-headed Lapwing																0						0	0	
Pacific Golden Plover																0						0	0	
Grey Plover																0						0	0	
Common Ringed Plover																0						0	0	
Little Ringed Plover	0	0				0	0	0	0			0	0	23	12	0	15	0	35	0		35	50	
Kentish Plover																0						0	0	
Lesser Sand Plover																0						0	0	
Greater Sand Plover																32						32	32	
Black-tailed Godwit			15													30						30	45	
Bar-tailed Godwit																0						0	0	
Whimbrel																0						0	0	
Eurasian Curlew			2													0						0	2	
Far Eastern Curlew																0						0	0	
Spotted Redshank																0						0	0	
Common Redshank			28													52						52	80	
Marsh Sandpiper																0						0	0	
Common Greenshank			31													1						1	32	
Nordmann's Greenshank																0						0	0	
Green Sandpiper	0	0				0	0	0	0			0	0	0	0	2	0	0	0	0	0	0	2	
Wood Sandpiper	0	0	2			0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	2	
Terek Sandpiper																0						0	0	
Common Sandpiper	0	4	4			1	0	0	0	0		1	0	0	1	3	1	3	0	4	1	5	18	
Grey-tailed Tattler																0						0	0	
Ruddy Turnstone																0						0	0	
Red-necked Phalarope																0						0	0	
Pintail Snipe																0						0	0	
Swinhoe's Snipe																0						0	0	
Pintail/Swinhoe's Snipe																0						0	0	
Common Snipe																0						0	0	
Long-billed Dowitcher																0						0	0	
Asian Dowitcher																0						0	0	
Red Knot																0						0	0	
Great Knot																0						0	0	
Sanderling																0						0	0	
Red-necked Stint																0						0	0	
Little Stint																0						0	0	
Temminck's Stint																0						0	0	
Long-toed Stint																0						0	0	
Pectoral Sandpiper																0						0	0	
Sharp-tailed Sandpiper																0						0	0	
Dunlin																0						0	0	
Curlew Sandpiper																0						0	0	
Spoon-billed Sandpiper																0						0	0	
Broad-billed Sandpiper																0						0	0	
Ruff																0						0	0	

Wader sp.																					0			0	0		
Small wader sp.																						0			0	0	
Black-tailed Gull																						0			0	0	
Heuglin's Gull																						0			0	0	
Caspian Gull																						0			0	0	
Slaty-backed Gull																						0			0	0	
Pallas's Gull																						0			0	0	
Large Gull spp.						1																0	1	1	1	1	
Brown-headed Gull																						0			0	0	
Black-headed Gull	0	0				1		0	0	0	0				0	0	0	0	0	0	0	0	0	1	1	1	
Saunders's Gull																						0			0	0	
Whiskered Tern																					2	0			0	2	
White-winged Tern																						0			0	0	
Gull-billed Tern																						0			0	0	
Caspian Tern																						0			0	0	
Total	257	212	198	44	74	17	7	64	42	93	59	11	9	35	179	59	146	81	159	295	254	481	183	918	2295	119	
	Deep Bay Area	%	Ramsar Site	%	SI	%																					
Cormorants	1	0%	0	0%	0	0%																					
Ardeids etc	1675	73%	607	66%	112	94%																					
Ducks, grebes, pelicans	185	8%	59	6%	0	0%																					
Rails, coot etc	86	4%	29	3%	7	6%																					
Shorebirds	344	15%	221	24%	0	0%																					
Gulls and terns	4	0%	2	0%	0	0%																					
TOTAL	2295	100%	918	100%	119	100%																					
Date of count: 09 Jul 2017																											
High tide measured at TBT: 2.7m																											
Wetland-dependent species																											
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet	
Western Osprey																					0			0	0		
Black Kite	0	1	2					4	0	1	2				0	1	8	0	3	0	9	13	0	22	31		
White-bellied Sea Eagle																					0			0	0		
Eastern Marsh Harrier																					0			0	0		
Eastern Buzzard																					0			0	0		
Greater Spotted Eagle	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0		
Eastern Imperial Eagle	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0		
Peregrine Falcon																					0			0	0		
Pied Kingfisher	1	3						0	1	2	0	1			0	0	0	3	1	2	2	4	0	6	16		
Common Kingfisher	3	7	3					0	0	1	0	2			2	0	1	0	1	1	0	1	0	1	21		
White-throated Kingfisher	1	4	1					2	0	0	1	1			1	1	0	1	0	0	0	4	0	4	13	4	
Black-capped Kingfisher	0	0						0	0	1	0				0	0	0	0	0	0	0	0	0	0	1		
Red-billed Starling	0	0	30					0	0	0	0				0	0	0	0	26	0	0	0	0	0	56		
Collared Crow	0	0	3					0	0	2	0				0	27	9	0	0	0	7	36	0	43	48		

Summary of Waterbird Counts, August 2017

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	29	11	1				3	14	0	3	0	4			36	10	7	52	17	42	17	90	3	110	246	
Great Crested Grebe																					0			0	0	
Great Cormorant	0	0						0	0	0	0				0	0	0	2	0	0	0	2	0	2	2	
Dalmatian Pelican																					0			0	0	
Grey Heron	29	2	6					4	1	4	0				0	0	0	0	0	0	10	4	1	15	56	
Purple Heron			2									1									0			0	3	
Great Egret	494	29	74	21	31	5	3	93	19	91	7	5			10	3	69	22	7	4	89	193	79	361	1076	75
Intermediate Egret	8	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	8	7
Little Egret	495	38	90	5	16	14		4	2	35	10	2		1	43	6	34	18	11	52	87	93	37	217	963	39
Swinhoe's Egret																					0			0	0	
Pacific Reef Heron																					0			0	0	
Eastern Cattle Egret	25	10						0	0	0	7				0	0	17	0	0	16	10	17	0	27	85	18
Chinese Pond Heron	152	31	61		1		3	8	0	33	6	10		3	52	8	8	56	37	52	21	111	4	136	542	
Striated Heron	0	0						0	0	0	0				0	0	1	0	0	0	4	1	0	5	5	
Black-crowned Night Heron	28	30	21		1		1	3	0	10	2				0	0	5	19	8	7	17	28	2	47	152	
Yellow Bittern	0	0	2					2	0	1	0	1			4	0	1	7	2	2	0	11	0	11	22	
Cinnamon Bittern			1																		0			0	1	
Eurasian Bittern																					0			0	0	
Black Stork																					0			0	0	
Black-headed Ibis																					0			0	0	
Eurasian Spoonbill																					0			0	0	
Black-faced Spoonbill																					0			0	0	
Common Shelduck																					0			0	0	
Eurasian Wigeon	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Falcated Duck																					0			0	0	
Gadwall																					0			0	0	
Baikal Teal																					0			0	0	
Eurasian Teal	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Mallard																					0			0	0	
Spot-billed Duck																					0			0	0	
Chinese Spot-billed Duck																					4			4	4	
Indian Spot-billed Duck																					0			0	0	
Northern Pintail																					0			0	0	
Garganey																					0			0	0	
Northern Shoveler																					0			0	0	
Common Pochard																					0			0	0	
Baer's Pochard																					0			0	0	
Tufted Duck																					0			0	0	
Greater Scaup																					0			0	0	
Red-breasted Merganser																					0			0	0	
Duck sp.																					0			0	0	
Slaty-breasted Rail																					0			0	0	
Eastern Water Rail																					0			0	0	
White-breasted Waterhen	11	2	14					3	0	6	4	1		1	11	1	0	6	5	8	9	15	0	24	82	4
Watercock																					0			0	0	
Common Moorhen	0	0	13					2	0	4	0				0	0	0	0	0	0	0	0	0	0	19	
Eurasian Coot																					0			0	0	

Pheasant-tailed Jacana																				0			0	0		
Greater Painted-snipe																					0			0	0	
Black-winged Stilt	6	1	33						5	3										1	5			5	54	
Pied Avocet	13																				0			0	13	
Oriental Pratincole																					0			0	0	
Northern Lapwing																					0			0	0	
Grey-headed Lapwing																					0			0	0	
Pacific Golden Plover			22																		1			1	23	
Grey Plover																					0			0	0	
Common Ringed Plover																					0			0	0	
Little Ringed Plover	18	1	15			0	0	0	1	3		5	0	0	0	7	0	7	0	8	0		8	57		
Kentish Plover			17																		0			0	17	
Lesser Sand Plover																					0			0	0	
Greater Sand Plover																					0			0	0	
Black-tailed Godwit																					290			290	290	
Bar-tailed Godwit																					0			0	0	
Whimbrel			2																		182			182	184	
Eurasian Curlew			1																		5			5	6	
Far Eastern Curlew																					0			0	0	
Spotted Redshank																					0			0	0	
Common Redshank	1		37																		3	875		875	916	
Marsh Sandpiper			8																		0			0	8	
Common Greenshank			49					1														525		525	575	4
Nordmann's Greenshank																					0			0	0	
Green Sandpiper	2	0				0	0	0	0			1	0	1	0	0	0	0	1	1	0		2	5		
Wood Sandpiper	39	2	1			0	0	0	3	17			0	0	0	0	0	5	4	3	0		7	71	11	
Terek Sandpiper																					0			0	0	
Common Sandpiper	6	8	18		20		0	0	4	2	5		3	9	1	3	6	7	12	0	14	20	34	104		
Grey-tailed Tattler																					0			0	0	
Ruddy Turnstone																					0			0	0	
Red-necked Phalarope																					0			0	0	
Pintail Snipe																					0			0	0	
Swinhoe's Snipe																					0			0	0	
Pintail/Swinhoe's Snipe																					2			2	2	
Common Snipe			1																		1	0		0	2	
Long-billed Dowitcher																					0			0	0	
Asian Dowitcher																					0			0	0	
Red Knot																					0			0	0	
Great Knot																					0			0	0	
Sanderling																					0			0	0	
Red-necked Stint																					0			0	0	
Little Stint																					0			0	0	
Temminck's Stint																					0			0	0	
Long-toed Stint																					0			0	0	1
Pectoral Sandpiper																					0			0	0	
Sharp-tailed Sandpiper																					0			0	0	
Dunlin																					0			0	0	
Curlew Sandpiper																					0			0	0	
Spoon-billed Sandpiper																					0			0	0	
Broad-billed Sandpiper																					0			0	0	
Ruff																					0			0	0	

Summary of Waterbird Counts, September 2017

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPS T	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	23	35						31	0	9	6	3			52	8	21	24	9	38	8	107	0	115	267	
Great Crested Grebe																					0			0	0	
Great Cormorant	1	2						0	0	0	0				0	0	0	0	0	0	0	0	0	0	3	
Dalmatian Pelican																					0			0	0	
Grey Heron	21	9	69		5		22	7	6	10	0	1		1	1	0	0	5	1	1	15	12	32	59	174	3
Purple Heron																					0			0	0	
Great Egret	76	75	374	195	158	14	81	22	39	85	4	2	1	64	26	13	24	7	52	59	29	65	485	579	1400	16
Intermediate Egret	1	1		6				0	0	0	0				4	0	0	0	0	1	0	0	6	6	13	1
Little Egret	54	68	317	76	116	7	78	38	32	35	12	2	52	35	149	68	56	14	69	103	27	207	309	543	1408	27
Swinhoe's Egret																					0			0	0	
Pacific Reef Heron																					0			0	0	
Eastern Cattle Egret	0	69	2					0	0	0	28				0	49	32	65	4	6	0	146	0	146	255	1
Chinese Pond Heron	73	77	121				5	2	6	49	7	1	12	12	71	10	15	28	33	41	7	100	11	118	570	
Striated Heron	0	0	1					0	0	0	0				0	0	0	0	0	0	2	0	0	2	3	
Black-crowned Night Heron	27	18	4					0	1	6	3				2	0	0	6	4	7	1	11	1	13	79	
Yellow Bittern	4	1						2	0	0	0	2			2	0	0	4	1	1	0	6	0	6	17	
Cinnamon Bittern																					0			0	0	
Black Bittern								1													0	1		1	1	
Eurasian Bittern																					0			0	0	
Black Stork																					0			0	0	
Black-headed Ibis																					0			0	0	
Eurasian Spoonbill																					0			0	0	
Black-faced Spoonbill																					0			0	0	
Common Shelduck																					0			0	0	
Eurasian Wigeon	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Falcatid Duck																					0			0	0	
Gadwall																					0			0	0	
Baikal Teal																					0			0	0	
Eurasian Teal	0	0						0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	
Mallard																					0			0	0	
Spot-billed Duck																					0			0	0	
Chinese Spot-billed Duck																					0			0	0	
Indian Spot-billed Duck																					0			0	0	
Northern Pintail																					0			0	0	
Garganey			340																		0			0	340	
Northern Shoveler			1																		0			0	1	
Common Pochard																					0			0	0	
Baer's Pochard																					0			0	0	
Tufted Duck																					0			0	0	
Greater Scaup																					0			0	0	
Red-breasted Merganser																					0			0	0	
Duck sp.																					0			0	0	
Slaty-breasted Rail																					0			0	0	
Eastern Water Rail																					0			0	0	
White-breasted Waterhen	20	7	1					1	0	1	4			1	12	5	0	7	2	0	0	27	0	27	61	1
Watercock																					0			0	0	
Common Moorhen	0	0	8				1	0	1	1	0				0	0	0	0	0	0	0	0	2	2	11	

Eurasian Coot																				0		0	0	
Pheasant-tailed Jacana																				0		0	0	
Greater Painted-snipe																				0		0	0	
Black-winged Stilt		6	261					29		8			1	3	3	2		32	107	5		112	452	
Pied Avocet																				0		0	0	
Oriental Pratincole																				0		0	0	
Northern Lapwing																				0		0	0	
Grey-headed Lapwing			3																	0		0	3	
Pacific Golden Plover			280																	1		1	281	
Grey Plover#				53																0	53	53	53	
Common Ringed Plover																				0		0	0	
Little Ringed Plover	0	0	43				0	0	0	0		5	0	0	0	0	23	2	0	0	0	0	73	
Kentish Plover			28																	0		0	28	
Lesser Sand Plover																				0		0	0	
Greater Sand Plover			12	26																0	26	26	38	
Black-tailed Godwit			203																	0		0	203	
Bar-tailed Godwit#				5																0	5	5	5	
Whimbrel#			3*	95						19*	2*									0	95	95	95	
Eurasian Curlew#			4*	103																0	103	103	103	
Far Eastern Curlew#				1																0	1	1	1	
Spotted Redshank																				0		0	0	
Common Redshank#			193*	311														3*	0		311	311	311	
Marsh Sandpiper			376	11																0	11	11	387	
Common Greenshank			122	123					1	1	6									0	123	123	253	
Nordmann's Greenshank																				0		0	0	
Green Sandpiper	0	1					0	0	0	0	1		1	0	0	0	0	0	0	0	0	0	3	
Wood Sandpiper	1	23	166				0	0	5	0	6			0	1	0	2	1	0	0	3	0	3	205
Terek Sandpiper			7																	0		0	7	
Common Sandpiper	0	10	19			2	1	0	5	1	1	1	2	9	2	1	4	4	7	0	14	2	16	69
Grey-tailed Tattler#				3							1*									0	3	3	3	
Ruddy Turnstone																				0		0	0	
Red-necked Phalarope																				0		0	0	
Pintail Snipe																				0		0	0	
Swinhoe's Snipe																				0		0	0	
Pintail/Swinhoe's Snipe																				0		0	0	
Common Snipe										1						2				0	2	2	3	
Long-billed Dowitcher																				0		0	0	
Asian Dowitcher																				0		0	0	
Red Knot#				1																0	1	1	1	
Great Knot																				0		0	0	
Sanderling																				0		0	0	
Red-necked Stint																	3			0		0	3	
Little Stint																				0		0	0	
Temminck's Stint																				0		0	0	
Long-toed Stint																				0		0	0	
Pectoral Sandpiper																				0		0	0	
Sharp-tailed Sandpiper			4																	0		0	4	
Dunlin																				0		0	0	
Curlew Sandpiper																				0		0	0	
Spoon-billed Sandpiper																				0		0	0	
Broad-billed Sandpiper																				0		0	0	

