
SHEUNG SHUI TO LOK MA CHAU SPUR LINE

Environmental Committee

Minutes of Meeting No. 19 held at 10:00am
On Wednesday, 21 July 2010,
at MTR Headquarters Building, Room C, 17/F.

Present:		
Ms. Karen Barretto	Friends of the Earth (Hong Kong	Member (NGO)
Dr. Ng Cho-nam	The University of Hong Kong	Member (NGO)
Dr. Michael Leven	Ecological Consultant	Member (consultant)
Ms. Shirley Lam	Ecological Consultant	Member (consultant)
Dr. Chan Kam-foon	Environmental Engineer Manager	Member (MTR)
Mr. Peter Choi	Environmental Engineer	Member (MTR)
Absent with apology:		
Mr. Bena Smith	WWF Hong Kong	Member (NGO)
Mr. Michael Kilburn	The Hong Kong Bird Watching Society	Member (NGO)

	<u>Action By</u>
<p>1. Welcomed Members to the No. 19 EC meeting.</p> <p>2. <i>Dr. Chan</i> advised the Members of the change in personnel with regard to the LMC Spur Line project and introduced himself and his involvement in the process.</p>	
<p>Item 1 - <u>Confirmation of minutes of Meeting No. 18</u></p> <p>3. The minutes of Meeting No. 18 were confirmed without further comments.</p>	Noted
<p>Item 2 - <u>Ecological Enhancement Works and Monitoring - an Update on Management Works and Way Forward</u></p> <p>4. <i>A Member (consultant)</i> reported on the ecological monitoring and management work undertaken between January and June 2010 at the LMC EEA (detailed in Annex A). It was noted that the Committee has been overseeing the wetland for almost 10 years, and most of the management activities at this stage were routine management practice, such as:</p> <ul style="list-style-type: none"> • Vegetation management, including grass cutting, weeding, and other mirco-habitat management practices; • Pond drain down and fish stocking to attract bird targets; • Pests control such as Golden Apple Snail, Red Imported Fire Ants etc.; <p>5. It was further reported that issues with a new maintenance contractor reported in the last EC meeting was improving as the new contractor learned under more stringent supervision from both the MTR and AEC.</p> <p>6. Concerning the performance of the EEA, it was agreed and appreciated that the management practices required for some of the bird target species were in conflict with management practices of some other target species. But the wetland on the whole was performing very well, and continued to be attracting birds of high conservation importance, including Black-faced Spoonbill, Greater Spotted and Imperial Eagles. For some species, such as Great Egret and Chinese Pond Heron. The management target now reached for Great Egret, albeit not yet for Chinese Pond Heron. However, there was a clear statistical trend for improvement in performance.</p> <p>7. <i>A Member (consultant)</i> also reported on the results on the measures taken in previous years, these included:</p> <ul style="list-style-type: none"> • <i>Floating platforms</i>: a pair of Black-winged Stilt successful hatched chicks on one of these platforms this year; • <i>Nest boxes</i>: All nest boxes were occupied, with a total of 387 White-shouldered Starling chicks fledged from LMC as of end of June this year. • <i>Phragmites control with RroundUp</i>: not too successful, and plans to try a new herbicide (Rodeo) with lower toxicity to amphibians would be attempted this year; • <i>Nelumbo control</i>: a trial on control of <i>Nelumbo</i> in Pond 21 would be 	<p>Noted</p> <p>Noted</p> <p>Noted</p> <p>Noted</p>

	Action By
<p>attempted this year using the new herbicide.</p> <ul style="list-style-type: none"> • <i>Reed decomposition trial</i>: proven to be not decomposing well and MTR/AEC would look into finding a more ecologically friendly way in disposing the cut reeds from the Clean-up Reedbed. <p>[post-meeting note]: the proposed herbicide is not on sale in Hong Kong and alternatives are being investigated.</p> <p>8. <i>A Member (consultant)</i> highlighted the need to start considering items to be included in the 5-yearly review of the HCMP (August 2011). Members were invited to consider items which they considered worthwhile in including in this review. A more detailed discussion on this item was expected in the next EC Meeting.</p>	Noted
<p>Item 3 - <u>Any Other Business</u></p> <p>9. <u>Opening of the Frontier Closed Area</u>: <i>Members (NGO)</i> expressed concern over the potential issues related to the opening up of the FCA, such as the proposed hiking trail, potential illegal dumping, increased disturbance from other anthropogenic factors etc. Concern was raised over the issue with the new fence as well. MTR to consider writing to the Town Planning Board and raised concern over zoning issues at the ponds immediately adjacent to the EEA, and to clarify with the Hong Kong Police Force about the new fence.</p> <p>[post-meeting note]: the zoning of the adjacent fishponds remain the same as previously, i.e. Other Uses (see attachments). No eco-tourism activities are proposed close to the LMC EEA.</p> <p>10. <u>Publicity on the success of nest boxes for White-shouldered Starling</u>: <i>A Member (NGO)</i> noted that a release of the success in White-shouldered Starling should be given more publicity; this could be seen as a measure initiated by the MTR which was highly beneficial to ecology. <i>A Member (MTR)</i> noted that consideration had been given on first internally circulating the news, and announce to the public at a later stage.</p>	MTR MTR/AEC
<p>Item 4 - <u>Date of Next Meeting</u></p> <p>11. The date of the next meeting is to be advised.</p>	Noted

**Lok Ma Chau Spur Line
19th Environmental Committee Meeting
21st July 2010**

**Report on Ecological Monitoring
& Management & Works Programme
Jan – Jun 2010**

Asia Ecological Consultants Limited

**Overview of
Management Works Jan – Jun 2010**

Vegetation Management

- Reed transplant (Pond 14 to West Rail Land Parcel F)
- Routine grass cutting
- Routine weeding
- Routine removal of unwanted species (*Phragmites*, *Typha*, *Mimosa*, *Mikania* etc.)
- Review of tree management at LMC

**Overview of
Management Works Jan – Jun 2010**

Wildlife Management

- Periodic pond drain down
- Trash fish stocking for winter food
- Provision and monitoring bird nest boxes
- Monitoring of nest boxes and floating platform usage

Floating Rafts

- Provision of 14 floating rafts in the larger ponds.
- May 2010
 - attempt breeding of Black-winged Stilt at Pond 11



**Overview of
Management Works Jan – Jun 2010**

General Site Management

- Golden Apple Snail removal at Ponds 14 – 22
- Fish stock management
- Water quality management
- Dog trapping

Nest Boxes (White-shouldered Starling)

- A total of 71 nest boxes (including 60 new ones).
- 100% occupancy (all WSS but one)
- As of end of June 2010, a total of 387 starling chicks fledged from LMC.



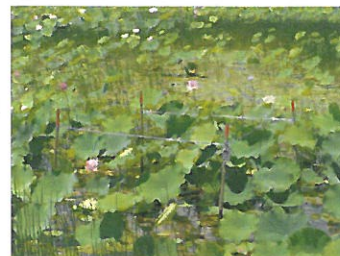
***Phragmites* Control Trial**

- Control of *Phragmites* on the edges of Ponds 16 & 18 using herbicide Roundup Pro in May 2009
- Propose to continue in future using 'Rodeo' which is of much lower toxicity to amphibians



***Nelumbo* Control Trial**

- Control of *Nelumbo* at Pond 21 using new herbicide
- Rodeo® with surfactant "Agri-Dex"



Reed Decomposition Trial at Station-side

- Reed decomposition trial began in Sept 2009
 - Decomposition rate &
 - control over weed growth
- Don't compost well, some delay in weed growth



Scheduled Management Works for 2010 Dry Season

- Timely water level adjustment and fish stocking
- Continue with routine grass cutting and general vegetation management, including seedling tree control
- Monitoring establishment of *Nymphaea* and control of *Nelumbo*
- Control & monitor of *Phragmites*
- Control of Apple Snails, Fire Ants and dog trapping
- Control of water quality

Issues Arising from the new Contractor

Routine vegetation management

- Insufficient manpower deployed
- Inappropriate use of trimmers around and on planted seedlings and trees

Fish stock management

- Fish sourcing slow
- Water quality adjustment slow (required prior to fish stocking)

Operational Stage Monitoring

- Required as off August 2007 when Spurline commenced operation (although operational stage monitoring started in January 2006)
- Wildlife targets extended to cover species of conservation importance detailed in the Environmental Impact Assessment:
 - Eurasian Otter
 - 26 bird species (c.f. Table 2.3 of the HCMP)
 - Burmese Python, Chinese Soft-shelled Turtle, Chinese Bullfrog
 - Dragonflies (increased numbers and species diversity)

Monitoring of Target Waterbird Species: protocol

- Counts from towers at LMC at Mai Po San Tsuen (MPST) for larger waterbirds and raptors.
- Transect survey for smaller target species at LMC and MPST and for all species at San Tin.
- Methodology for calculation of targets reviewed in early 2007 (included in HCMP)

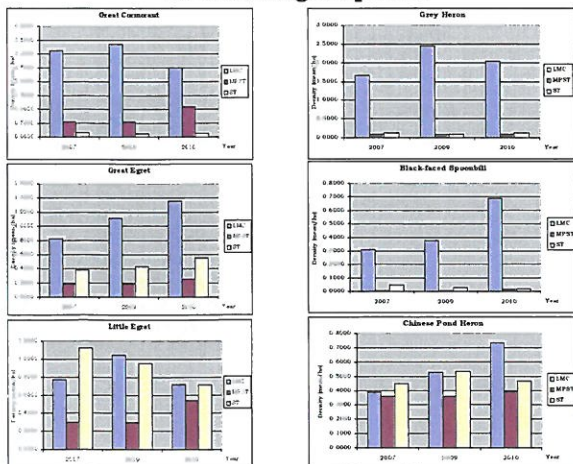


26 Bird Target Species (Up to May 2010)

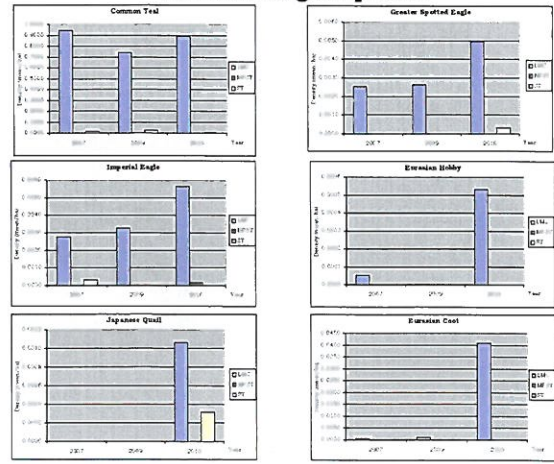
■ LMC - Not recorded within 500m of Control Area during the period
■ Target met (i.e. counts in LMC at least equal to or greater than Control Area)
■ Target not met, although counts higher than in Control Area
■ Target not met and counts lower than in Control Area

Species	2007			2009			2010		
	LMC	CA	Ratio	LMC	CA	Ratio	LMC	CA	Ratio
Drumming Green Heron	3,117	0,000	12.98	3,147	0,231	14.44	2,510	3,374	0.744
Great Cormorant	1,565	0,154	10.80	2,458	0,887	28.07	2,939	0,215	16.75
Great Egret	0,428	0,407	1.00	1,134	0,303	3.03	1,374	0,478	2.84
Little Egret	0,000	0,000	0.00	1,042	0,785	1.34	0,725	0,688	1.08
Chinese Pond Heron	0,000	0,000	0.00	0,274	0,497	0.55	0,740	0,496	1.03
Black-faced Spoonbill	0,315	0,042	7.49	0,768	0,218	3.52	0,699	0,187	3.74
Common Teal	9,992	0,118	80.25	9,745	0,942	10.46	9,858	0,042	236.54
Greater Spotted Eagle	0,002	0,000	0.00	0,002	0,000	0.00	0,000	0,000	0.00
Imperial Eagle	0,002	0,002	1.00	0,000	0,000	0.00	0,000	0,000	0.00
Eurasian Hobby	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Japanese Quail	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Eurasian Coot	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Phasian-failed Jacana	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Greater Painted-snipe	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Black-winged Stilt	0,210	0,000	0.00	0,152	0,000	0.00	0,121	0,000	0.00
Painted Swallow	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Common Snipe	0,102	0,120	0.85	0,024	0,000	0.00	0,000	0,000	0.00
Richard's Pipit	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Blue-throat	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Common Stonechat	0,120	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Fulmar's Green Warbler	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Zitting Cisticola	0,142	0,000	0.00	0,124	0,000	0.00	0,000	0,000	0.00
Japanese Yellow Bunting	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Red-billed Starling	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00
Black-naped Oriole	0,000	0,000	0.00	0,000	0,000	0.00	0,000	0,000	0.00

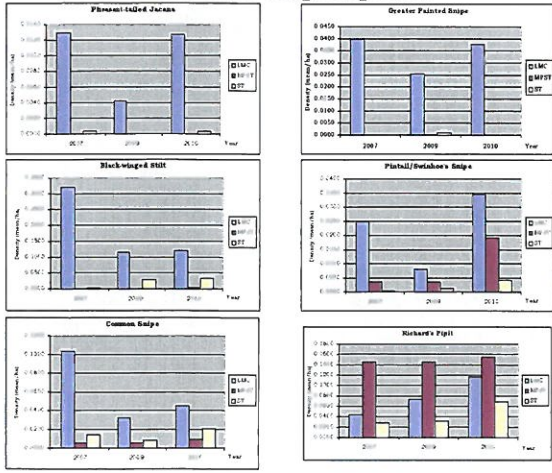
26 Bird Target Species



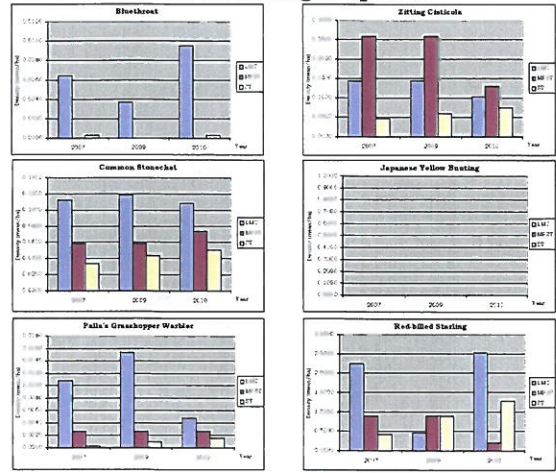
26 Bird Target Species



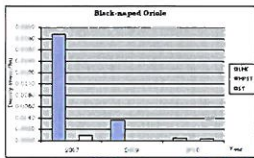
26 Bird Target Species



26 Bird Target Species



26 Bird Target Species



Statistical Analysis of Target Bird Density at LMC WCA (52 weeks before 27 May 2007, 31 May 2009 and 31 May 2010)

Method

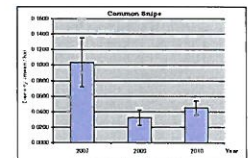
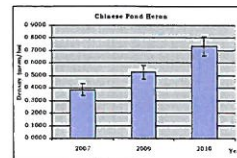
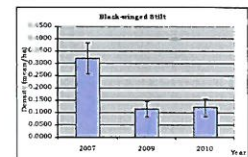
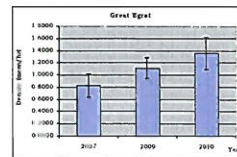
- 52 week density (mean per ha) at LMC WCA before 27 May 2007, 31 May 2009 and 31 May 2010 of the 26 Target Bird Species were used to conduct statistical analysis
- Compare the differences in Target Bird Density among the 3 periods
- As the data are non-parametric, **Kruskal-Wallis Test** was used for the analysis

Statistical Analysis of Target Bird Density at LMC WCA (52 weeks before 27 May 2007, 31 May 2009 and 31 May 2010)

Results

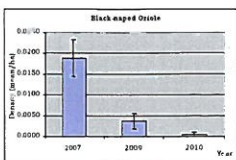
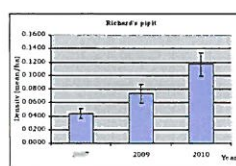
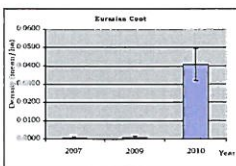
Species	Kruskal-Wallis Test p-value	Significant difference between years? (i.e. $p < 0.05$)
Great Cormorant	0.9676	
Grey Heron	0.8880	
Great Egret	0.0425	YES
Little Egret	0.1082	
Chinese Pond Heron	0.0013	YES
Black-faced Spoonbill	0.4139	
Common Teal	0.0148	
Greater Spotted Eagle	0.4044	
Imperial Eagle	0.4785	
European Honeyeater	0.6045	
Japanese Quail	0.0679	
European Crow	<0.0001	YES
Pheasant-tailed Jacana	0.5097	
Greater Painted Snipe	0.2903	
Black-winged Stilt	0.0023	YES
Pintail/Greater Scaup	0.4513	
Common Scaup	0.0171	YES
Richard's Pigeon	0.0221	YES
Shothoot	0.0614	
Common Stomach	0.0942	
Falco's Grasshopper Warbler	0.0878	
Zitting Cisticola	0.8572	
Red-billed Starling	0.1114	
Black-naped Oriole	<0.0001	YES

Statistical Analysis of Target Bird Density at LMC WCA (52 weeks before 27 May 2007, 31 May 2009 and 31 May 2010)



Error Bars: Standard Error

Statistical Analysis of Target Bird Density at LMC WCA (52 weeks before 27 May 2007, 31 May 2009 and 31 May 2010)



Endangered Birds Jan - May 2010

Species name	Status	Jan	Feb	Mar	Apr	May
Black-faced Spoonbill	Endangered	210	255	107	75	
Greater Spotted Eagle	Vulnerable	1	1	1		
Imperial Eagle	Vulnerable	1	1	2		
Collared Crow	Near Threatened		1		4	4

Error Bars: Standard Error

Mammal Targets

- Seven records of **Leopard Cat** and constant records of individuals of **Chestnut Spiny Rat** between January and June 2010.



26th Jan 2010



4th Jun 2010



5th May 2010



29th Jun 2010

Mammal Targets

- Three **Eurasian Otters** recorded by AFCD between Pond 1 & 2 in January, and one recorded in April 2010.
- One **Small Indian Civet** and one **Wild Boar** recorded in January 2010; of which the latter is a new record to the site.



19th Jan 2010
Credit: AFCD



24th Apr 2010
Credit: AFCD



23rd Jan 2010
Credit: AFCD



12th Jan 2010
Credit: AFCD

Herpetofauna Targets (Up to June 2010)

Amphibians

Maximum Total Number of Individuals recorded in all ponds in LMC WCA		2006	2007	2008	2009	2010 ^A
Asian Common Toad	<i>Bufo melanostictus</i>	0	3	3	1	0
Buller's Pigmy Frog	<i>Microlyla bulleri</i>	0	0	0	1	2
Ornate Pigmy Frog	<i>Microlyla ornata</i>	0	9	13	46	128
Paddy Frog	<i>Peyronarya limncharis</i>	25	25	25	14	12
Chinese Bullfrog	<i>Hoplobatrachus chinensis</i>	0	1	1	2	1
Günther's Frog	<i>Rana guentheri</i>	130	157	145	74	137
Two-striped Grass Frog	<i>Rana taiopehensis</i>	0	0	0	0	2
Brown Tree Frog	<i>Polypedates megacophalus</i>	12	16	22	33	27
No. of species recorded		3	6	6	7	7
Total No. of species recorded		8				

Key: ^A Up to June 2010

Reptiles

- Tracks of **Chinese Soft-shelled Turtle** were found in January
- A single sighting of **Chinese Cobra** in March

Dragonfly Targets (Up to June 2010)

Species Diversity

Dragonfly recorded as adults or larvae at LMC WCA		2006	2007	2008	2009	2010 ^A
Wandering Midge	<i>Agronema japonica</i>	x	x	x	x	x
Orange-tailed Spine	<i>Ceragrion auranticum</i>	x	x	x	x	x
Common Bluet	<i>Ischnura elegans</i>	x	x	x	x	x
Pale-spotted Emperor	<i>Anax guttatus</i>	x	x	x	x	x
Lower Emperor	<i>Anax parthenope</i>	x	x	x	x	x
Common Flagtail	<i>Stenonema pernix</i>	x	x	x	x	x
Golden Flagtail	<i>Stenonema chryseum</i>	x	x			
Royal Pond Cruiser	<i>Egyphtula elegans</i>	x	x	x	x	x
Asian Pintail	<i>Acisoma panorpides</i>	x	x	x	x	x
Blue Dasher	<i>Brachythemis chalybea</i>	x	x	x	x	x
Asian Amberwing	<i>Brachythemis contaminata</i>	x	x	x	x	x
Crimson Darter	<i>Crocothemis servilla</i>	x	x	x	x	x
Blue Fechter	<i>Diplaxa trivialis</i>	x	x	x	x	x
Amber-winged Glider	<i>Hydrobaesalus crepuscula</i>	x	x	x	x	x
Coastal Glider	<i>Macromia corea</i>	x	x	x	x	x
Pink Percher	<i>Pseudagrion fulvipes</i>	x	x	x	x	x
Common Red Skimmer	<i>Orithium prasinum</i>	x	x	x	x	x
Green Skimmer	<i>Orithium sabina</i>	x	x	x	x	x
Wandering Glider	<i>Pantala flavescens</i>	x	x	x	x	x
Pink Skimmer	<i>Pseudagrion zonata</i>				x	x
Ruby Darter	<i>Rhodagrion rufum</i>			x		
Venigated Flutterer	<i>Albatrossia variegata</i>	x	x	x	x	x
Twining Skimmer	<i>Thalassidroma</i>	x	x	x	x	x
Saddleback Glider	<i>Tramea virgata</i>	x	x	x	x	x
Dancing Darning	<i>Zygoptera pallidipes</i>	x	x	x	x	x
Scarlet Basker	<i>Uthemis nigrita</i>	x	x	x	x	x
No. of Species Recorded		22	23	23	22	20
Total No. of Species Recorded		25				

Key: ^A Up to June 2010

Dragonfly Targets (Up to June 2010)

Dragonfly Number

Maximum Total Number of Individuals as adult recorded in all ponds in LMC WCA		2006	2007	2008	2009	2010 ^A
Wandering Midge	<i>Agronema japonica</i>	18	7	12	0	0
Orange-tailed Spine	<i>Ceragrion auranticum</i>	6	32	72	60	6
Common Bluet	<i>Ischnura elegans</i>	1054	1452	1287	7050	4219
Pale-spotted Emperor	<i>Anax guttatus</i>	6	6	8	4	1
Lower Emperor	<i>Anax parthenope</i>	3	6	6	1	0
Common Flagtail	<i>Stenonema pernix</i>	31	18	14	4	1
Golden Flagtail	<i>Stenonema chryseum</i>	1	5	0	0	0
Royal Pond Cruiser	<i>Egyphtula elegans</i>	3	1	1	1	0
Asian Pintail	<i>Acisoma panorpides</i>	2	7	3	3	1
Blue Dasher	<i>Brachythemis chalybea</i>	22	22	7	5	24
Asian Amberwing	<i>Brachythemis contaminata</i>	189	101	146	23	95
Crimson Darter	<i>Crocothemis servilla</i>	20	32	34	10	8
Blue Fechter	<i>Diplaxa trivialis</i>	24	25	17	6	1
Amber-winged Glider	<i>Hydrobaesalus crepuscula</i>	6	2	0	0	0
Coastal Glider	<i>Macromia corea</i>	2	5	1	14	4
Pink Percher	<i>Pseudagrion fulvipes</i>	4	28	47	18	2
Common Red Skimmer	<i>Orithium prasinum</i>	0	1	2	0	0
Green Skimmer	<i>Orithium sabina</i>	80	110	98	88	55
Wandering Glider	<i>Pantala flavescens</i>	214	401	96	244	3
Pink Skimmer	<i>Pseudagrion zonata</i>	0	0	0	1	1
Ruby Darter	<i>Rhodagrion rufum</i>	0	0	1	0	0
Venigated Flutterer	<i>Albatrossia variegata</i>	147	98	146	165	136
Twining Skimmer	<i>Thalassidroma</i>	1	12	1	32	1
Saddleback Glider	<i>Tramea virgata</i>	9	24	20	8	10
Dancing Darning	<i>Zygoptera pallidipes</i>	0	0	0	0	1
Scarlet Basker	<i>Uthemis nigrita</i>	6	7	29	5	2

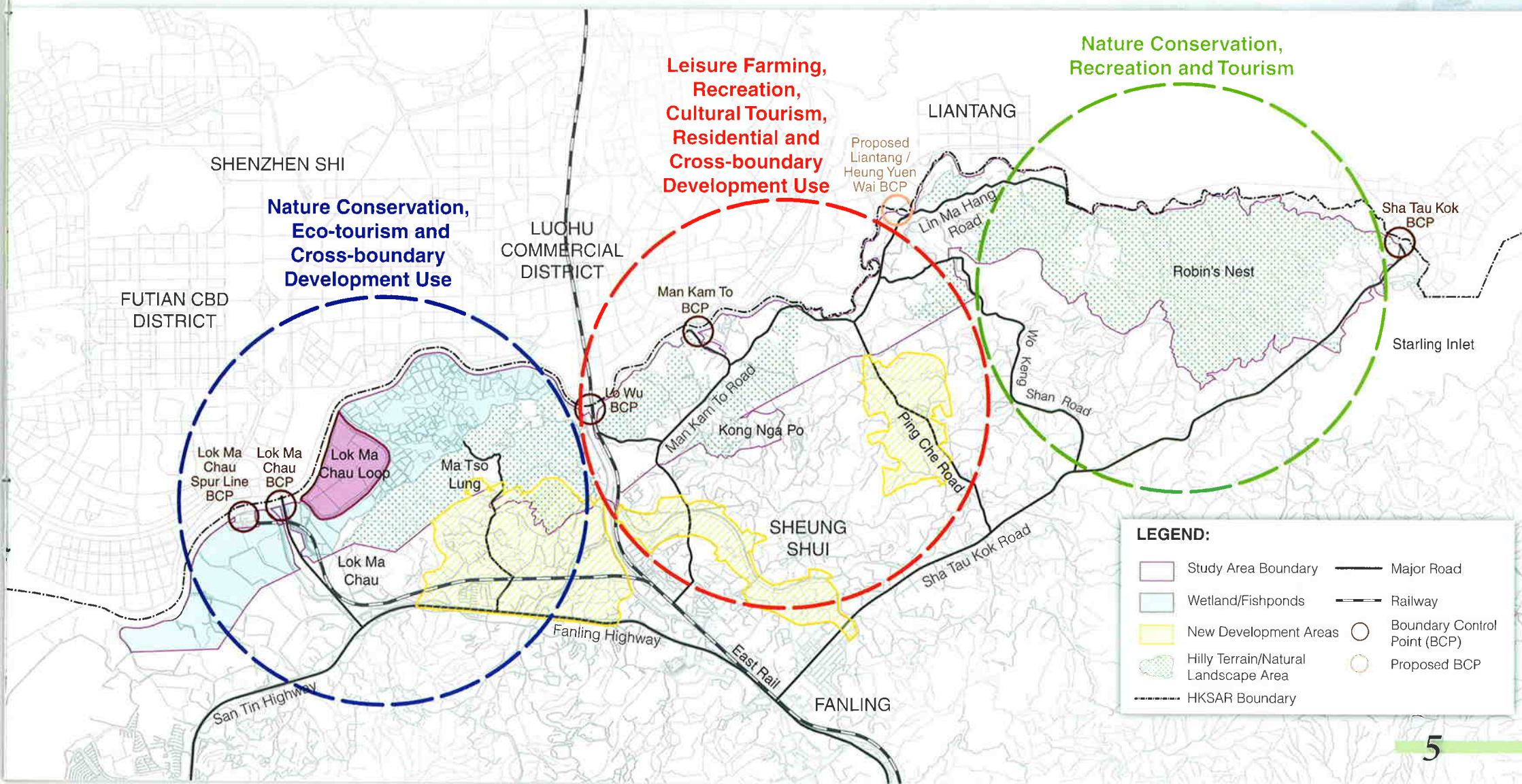
Key: ^A Up to June 2010

Upcoming Issues

- 5-yearly review of the HCMP (Aug 2011)

STUDY AREA - DEVELOPMENT CONCEPT

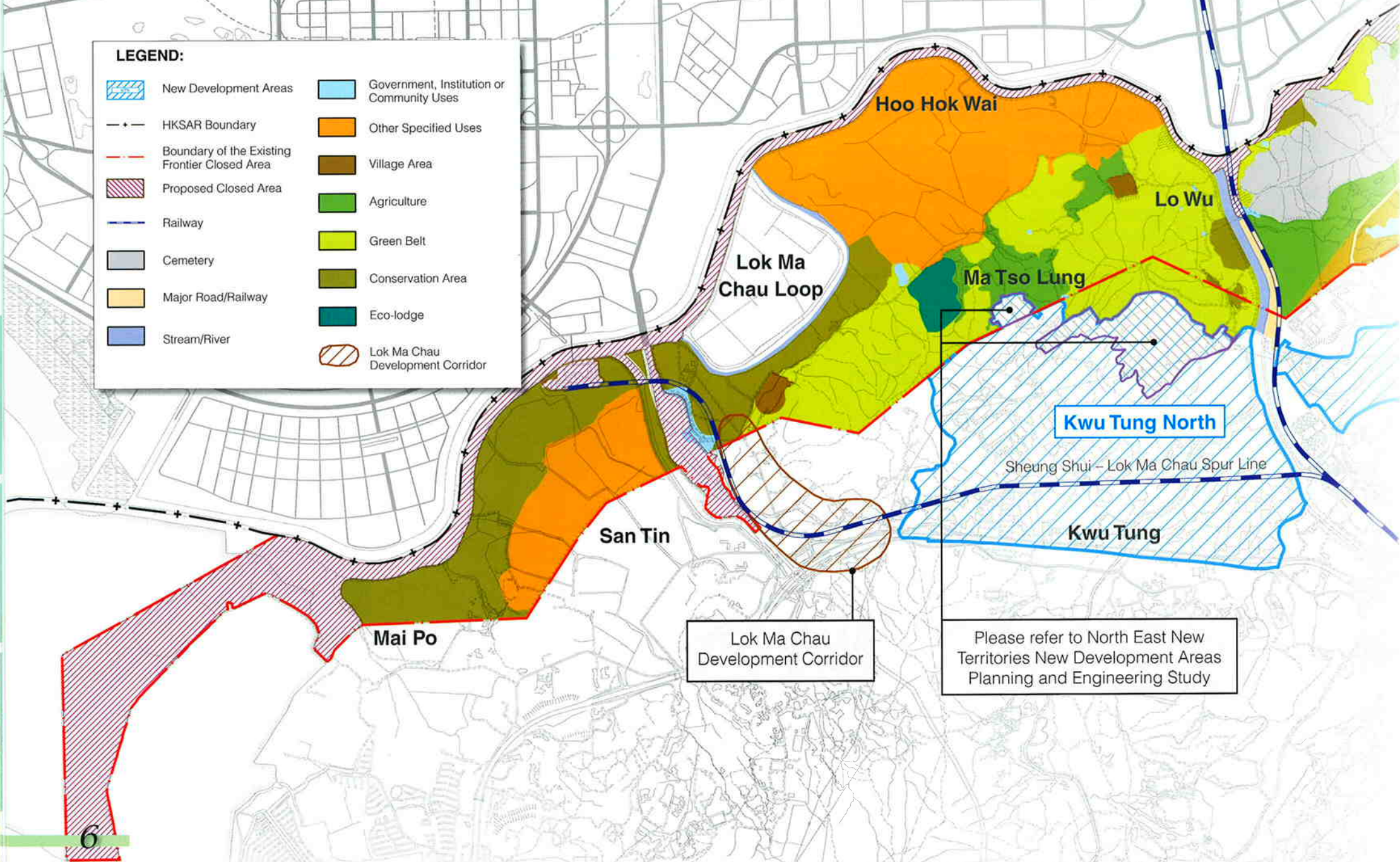
Since the Eastern and Western Portions of the Study Area are endowed with natural and ecological assets, the Draft Development Plan for these portions mainly focuses on conservation and recreation. The Western Portion, being close to Lok Ma Chau Loop, is suitable for developing cross-boundary infrastructure. The Middle Portion is scattered with villages with rich cultural heritage and agricultural land, so the focus is on leisure farming and cultural tourism and provision for suitable residential and cross-boundary uses capitalising on the boundary location.



DRAFT DEVELOPMENT PLAN - Western Portion

LEGEND:

- | | | | |
|---|---|---|---|
|  | New Development Areas |  | Government, Institution or Community Uses |
|  | HKSAR Boundary |  | Other Specified Uses |
|  | Boundary of the Existing Frontier Closed Area |  | Village Area |
|  | Proposed Closed Area |  | Agriculture |
|  | Railway |  | Green Belt |
|  | Cemetery |  | Conservation Area |
|  | Major Road/Railway |  | Eco-lodge |
|  | Stream/River |  | Lok Ma Chau Development Corridor |



Kwu Tung North

Sheung Shui - Lok Ma Chau Spur Line

Kwu Tung

Lok Ma Chau
Development Corridor

Please refer to North East New Territories New Development Areas Planning and Engineering Study

Western Portion

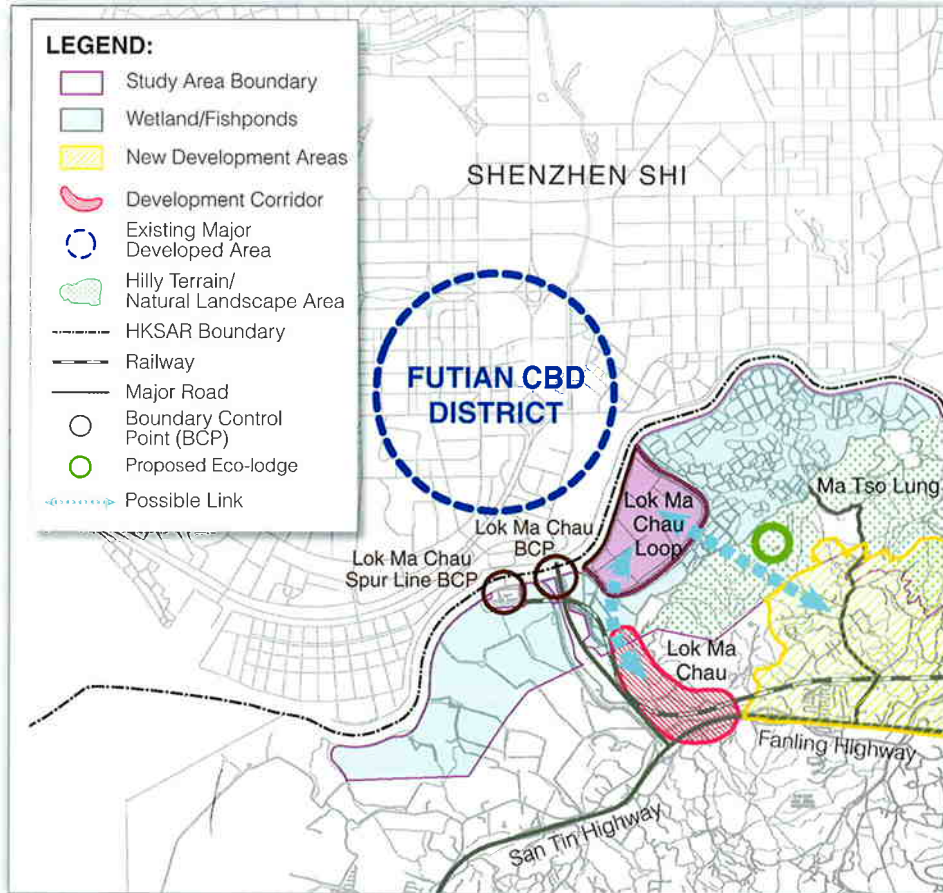
Covering the areas from
Mai Po to Lo Wu



The Western Portion of the Study Area, which is about 930 hectares, mainly comprises ecologically valuable wetland, fishponds and hilly terrain, and has potential for nature conservation, eco-tourism and cross-boundary development.

The wetland/fishponds in Mai Po, San Tin and Hoo Hok Wai provide feeding grounds for migratory birds and form an integral part of the ecological system of Deep Bay that is worth preserving. The mountains, sloping areas and woodland, form part of the existing green belt and have potential for recreation, hiking and bird watching activities.

The proposed Lok Ma Chau Development Corridor at the Western Portion is close to Lok Ma Chau Loop and Kwu Tung North NDA, and will link up the two places. With Lok Ma Chau/Huanggang and Lok Ma Chau Spur Line Crossings in close proximity, Shenzhen residents can travel there via Lok Ma Chau Development Corridor conveniently; hence, this corridor will be designated for uses in line with the development of Lok Ma Chau Loop. The area also has potential for regional commercial, shopping and entertainment purposes to support the future development of Lok Ma Chau Loop and meet the demand of both Hong Kong and Shenzhen residents.



Western Portion of the Study Area and the Links with its Surrounding Areas



CONCEPTUAL PLAN FOR RECREATION AND TOURISM - Western Portion

LEGEND:

- | | |
|-----------------------------------|---------------------------------------|
| —+— HKSAR Boundary | Agricultural Land for Leisure Farming |
| Study Area Boundary | Village |
| — Railway | Eco-lodge |
| — Major Road | Proposed Hiking Trail |
| Mai Po Inner Deep Bay Ramsar Site | Proposed Cycling Track |
| Welland/Fishponds | Planned Cycling Track |
| Ho Sheung Heung Egretty | Historic building |
| Ecological Link | Proposed Closed Area |

FUTIAN CBD DISTRICT

Hoo Hok Wai

Lok Ma
Chau Loop

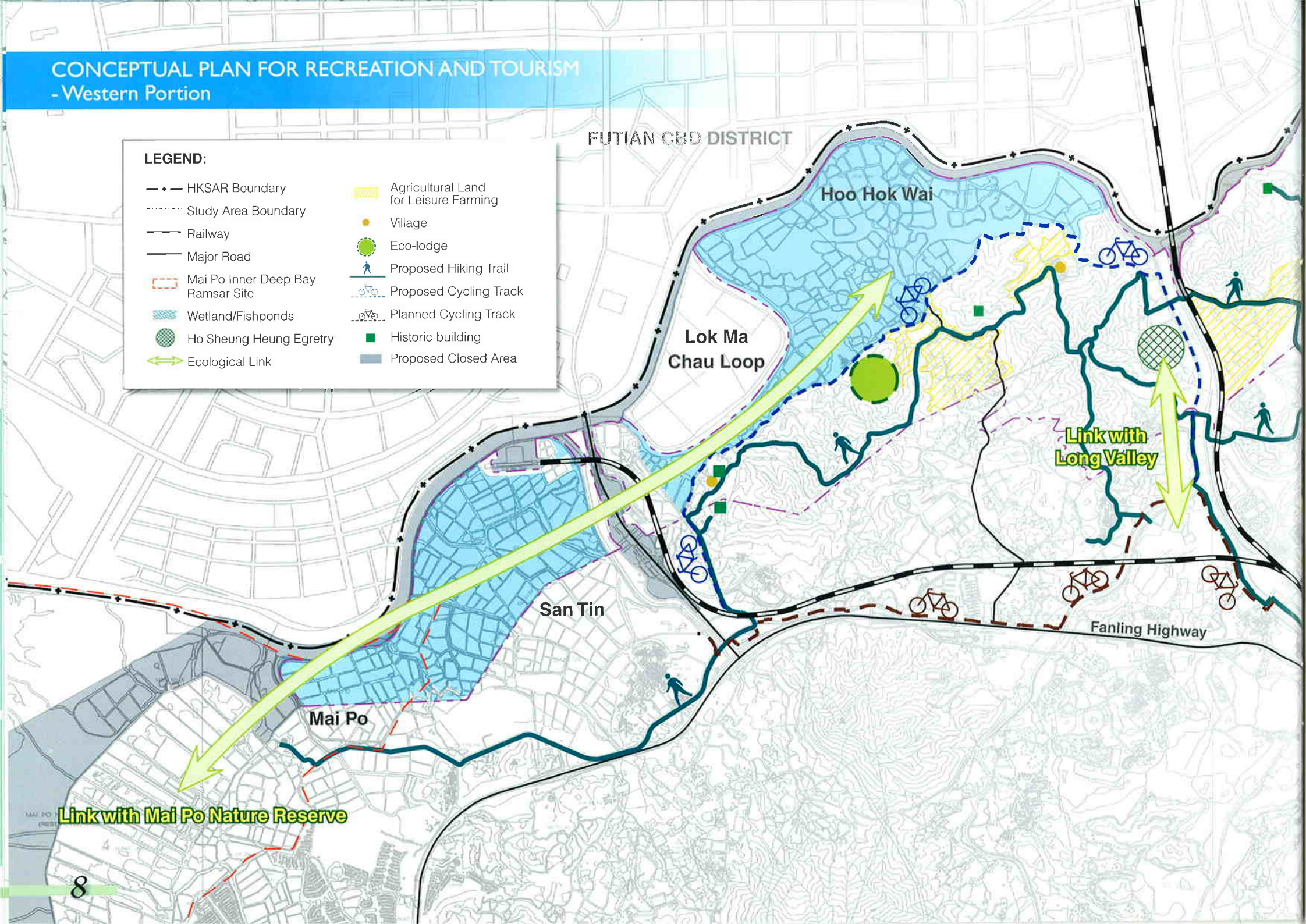
Link with
Long Valley

San Tin

Fanling Highway

Mai Po

Link with Mai Po Nature Reserve



Western Portion

Covering the areas from
Mai Po to Lo Wu



Apart from nature conservation, the existing natural resources can be utilised to promote sustainable eco- and agri-tourism:

- Overlooking the vast area of fishponds and wetland at Hoo Hok Wai, the proposed eco-lodge located on the slope of Ma Tso Lung will be the first of its kind in the territory. The proposal aims at providing secluded resort-type accommodation for eco-tourists. About 80 units with a height restriction of 6m are proposed on a site of 14 hectares, having regard to the natural landscape, topographical and environmental factors. Green living will be promoted through building design and energy saving features. The visual, environmental and ecological impacts on the surrounding areas will be minimised.
- The agricultural land in Ma Tso Lung can be integrated with the ecological environment of the surrounding areas and will be used for promoting leisure farming. To promote eco-tourism, the abandoned Lung Kai Public School can be converted to an eco-tourism education centre for holiday camping or other recreation uses. The existing hiking trails together with the proposed cycling track can lead visitors to natural attractions including fishponds, egretty and fung shui woodland.



Hoo Hok Wai



Proposed Eco-lodge



Cycling Track

