

PROJECT NO.: TCS/00512/09

DSD CONTRACT NO. DC/2009/13 CONSTRUCTION OF SEWAGE TREATMENT WORKS AT YUNG SHUE WAN AND SOK KWU WAN

BASELINE SURVEY FOR CORAL MONITORING – YUNG SHUE WAN

PREPARED FOR Leader Civil Engineering Corporation Limited

Quality Index

Date	Reference No.	Prepared By	Approved By
10 February 2011	TCS00512/09/600/R0132v3	Jeth	Burn
		Keith Kei Coral Specialist	T.W. Tam Environmental Team Leader

Version	Date	Description
1	22 December 2010	First Submission
2	27 January 2011	Amended against IEC's comments on 12 January 2011
3	10 February 2011	Amended against IEC's comments on 2 February 2011

Scott Wilson CDM Joint Venture

Date:

Chief Engineer/Harbour Area Treatment Scheme Drainage Services Department 5/F Western Magistracy 2A Pok Fu Lam Road Hong Kong Your reference:

Our reference: 05117/6/16/347247

17 February 2011

BY FAX ONLY

Attention: Mr. C K Au

Dear Sir

Contract No. DC/2009/13 Construction of Sewage Treatment Works at Yung Shue Wan and Sok Kwu Wan Baseline Survey for Coral Monitoring - Yung Shue Wan

We refer to the Environmental Permit (EP-282/2007) and the email from the environmental team, Action-United Environmental Services and Consulting (AUES) with the revised baseline survey for coral monitoring – Yung Shue Wan, dated 16 February 2011 for the captioned project. We do not have any further comment and have verified the captioned report.

Yours faithfully SCOTT WILSON CDM JOINT VENTURE

Rodney Ip

ICWR/KKK/ecwc

cc Leader Civil Engineering AUES ER/LAMMA CDM (Attn: Mr Vincent Chan) (Attn: Mr T.W. Tam) (Attn: Mr Neil Wong) (Attn: Mr Mark Sin)



Summary

- Spot-Check Dives Survey were carried out at Yung Shue Wan (YSW) and Sham Wan (SW)
- The bottom substrates at YSW were mainly composed of artificial sloping boulder and rocks while the bottom substrates at SW were mainly composed of bedrocks and big boulders
- Commonly hard coral colonies were recorded in both sites and they all appeared to be in fair condition.
- The coral coverage at YSW was about 5% while it was about 10% at SW.
- REA surveys were carried out at the coral area in both YSW and SW. 100 meter transects were laid parallel to the shore at the coral areas marked during spot check dives.
- 10 species of hard coral were recorded in YSW during the REA survey while 16 species of hard coral and 1 species of soft coral were recorded in SW during the REA survey.
- The corals found in both sites during the REA survey are common species found across Hong Kong water except an uncommon species *Coscinaraea n* sp.
- In order to monitoring the impact to the coral communities at YSW during the construction work, coral tagging should be done 1 week before any marine work being commenced.
- Although corals found in both sites are in fair condition, they are suitable to be tagged and monitored during the construction works.



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1. BACKGROUND

- 1.1 Further to the Sewerage Master Plan (SMP) study of the Outlying Islands in 1994, Drainage Services Department (DSD) was commissioned by Environmental Protection Department (EPD) to carry out a Preliminary Project Feasibility Study (PPFS) for the Outlying Islands Sewerage Stage I Phase II in 1996. The project works will involve: 1. Construction of a sewage treatment works (STW) and submarine outfalls of approximately 500m in length and 325mm in diameter at Yung Shue Wan (YSW) on Lamma Island. Coral colonies were recorded at YSW site during the Environmental Impact Assessment (EIA) under the Preliminary Investigations Study (PIS).
- 1.2 This report presents the finding on the baseline survey on coral communities on the seawall at Yung Shue Wan and natural shores at Sham Wan for the Contract No. DC/2009/13 -Construction of Sewage Treatment Works at Yung Shue Wan and Sok Kwu Wan.

2. MONITORING EQUIPMENT

2.1 The monitoring equipments used for the coral monitoring are listed in **Table 2-1** and the relevant calibration certificate is shown in **Appendix C.**

Model	
Handmade A4 size underwater slates	
Solinst 100m measuring tape	
Canon G10 digital camera	
Scubapro regulator, BCD and fins	
33 feet long diving boat with two 200hp outboard engines, registration #128328 (see Appendix B)	
Garmin's GBR 21 differential beacon receiver +	

 Table 2-1
 Monitoring Equipments for the Coral Monitoring

3. MONITORING LOCATION

3.1 One control station at Sham Wan, Lamma Island and one impact stations at boulder seawall at Yung Shue Wan, Lamma Island were recommended in the *Method Statement Section 3.3*. These sites represent the coral site where uncommon coral species were recorded from the coral surveys carried out as part of the Review Report on the EIA Study. The coordinates of the monitoring location is listed in **Table 3-1**.

Table 3-1 Locations of Coral Monitoring Station

Dive Site	Number	Coordinates	
Dive Site		Easting	Northing
Yung Shue Wan, Lamma Island	1	829170E	809550N
Sham Wan, Lamma Island	2	832425E	805478N

4. METHODOLOGY

Monitoring Procedure

Qualitative Survey by Spot-Check Dive

- 4.1 Spot-check dives were undertaken at each of the one monitoring station (boulder seawall at YSW STW site) and one control station (Sham Wan, Lamma Island).
- 4.2 The type of benthos, seabed profile and substratum existing at each survey area were recorded.
- 4.3 In this way, areas with corals were located and suitable locations to carry out the REA surveys were determined.

Rapid Ecological Assessment (REA)

- 4.4 Followed by spot-check surveys, locations with best corals coverage will be selected for REA survey.
- 4.5 At each site, transects will be laid, where possible, at 2 or 3 distinct depth/ecological zones, as follows:
 - Shallow depth zone: -2 to -5 mPD
 - Middle depth zone: -6 to -9 mPD
 - Deep depth zone: -10 to -14 mPD
- 4.6 On each transect tape, survey will be conducted along 2 belt transects, one on each side of the transect tape. Each belt transect will be 1m wide and 100m long and be about 0.5m away from the transect tape. Start and end points of the transects will be recorded with a portable DGPS unit.
- 4.7 Two types of information, namely Tier I and Tier II shall be recorded during each transect swim:

Tier I: Categorisation of ecological and environmental variables

- Ecological variables benthic cover site descriptors
- 4.8 On completion of each transect, five ecological and seven substratum attributes (**Table 4-1**)



will be each assigned to one of the seven standard, ranked (ordinal) categories (**Table 4-2**), base on an assessment integrated over the length of the swim.

- Environmental variables:
- 4.9 Horizontal visibility will be assessed as mean and/or a range of each transect, using the transect tape as a guide.
- 4.10 Depth will be measured as maximum, minimum and modal average to the nearest 0.1m from electronic dive computers for each transect.

Tier II: Taxonomic invertebrates to define types of benthic communities

- 4.11 An inventory of benthic taxa will be complied during each swim and then will be identified in situ to the following levels:
 - Hard corals (Class Anthozoa, Order Scleractinia): to species level wherever possible, otherwise, genus and growth-form (e.g. Porites spp. Of massive growth-form)
 - Soft corals, anemones and conspicuous macroalgae: to genus level where possible; and
 - Other benthos (including sponges, zoanthids, ascidians, bryozoans) to genus level where possible, or higher taxonomic level (usually phylum) plus growth-form.
- 4.12 On completion of survey at each transect, each taxon in the inventory will be ranked in terms of its abundance in the community at the site. These broad categories rank taxa in terms of the relative abundance of individuals, rather than the contribution to benthic cover along each transect. The ordinal ranks will be visual assessments of abundance rather than quantitative counts of each taxon (**Table 4-3**). Representative photographs will be taken of hard and soft coral species in the area for reference.

Ecology	Substratum
Hard coral	Hard substrate
Dead standing coral	Continuous pavement
Soft coral	Bedrock/boulders/sand
Anemone beds	Coral rubble
Macroalgae	Cobbles
	Sand with gravel
	Mud

Table 4-1Ecological and Substratum Attributes



Rank	Percentage cover (%)
0	None recorded
0.5	1-5
1	6-10
2	11-30
3	31-50
4	51-75
5	76-100

Table 4-2Ordinal Ranks of Percentage Cover

Table 4-3	Ranking	of Taxon	Abundance
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Rank	Abundance
0	Absent
1	Sparse
2	Uncommon
3	Common
4	Abundant
5	Dominant

5. RESULTS Spot Check Dive

5.1 The spot-check dives were carried out on 11 December 2010 while REA survey were carried out on 11 and 12 December 2010. The weather conditions were summarized in Table 5-1. The GPS coordinates, depth and bottom substrate were summarized in Table 5-2

Date	Condition	Average Underwater Visibility
11 December 2010	 Northeast force 4 to 5, occasionally 6 offshore Sunny periods 	Yung Shue Wan: 0.5 m
12 December 2010	Northeast force 5 to 6,Sunny periods	Sham Wan: 1 m

 Table 5-1
 Weather Condition for the Spot-Check Dives on 11 December 2010



Table 5-2GPS Coordinates, Depth and Bottom Substrate at YSY and SW of Spot
Check Dive

C:4.0	GPS Location		Donth	Bottom
Site	Easting	Northing	Depth	Substrate
Yung Shue Wan	829170E	809550N	3m	Artificial sloping boulders
Sham Wan	832425E	805478N	4m	Bedrock and Boulders

5.2 Hard coral colonies were recorded at both sites during the spot check dives. At Yung Shue Wan, the coral coverage was about 5% in which most of them were located on the artificial sloping boulders. At Sham Wan, the coral coverage was about 10% in which most of corals were located on boulders or rock surfaces. Areas with higher coral coverage were marked (Figure 1 and Figure 3 - Appendix A) and their GPS location are summarized in Table 5-3

Table 5-3 GPS Coordinates of Coral Area at YSW and SW Recorded During Spot Check Dive

Sita	GPS Location		
Site	Easting	Northing	
Yung Shue Wan	829180.06E	809555.76N	
Sham Wan	832160.86E	805738.31N	

5.3 As a result, REA surveys were carried out along the coral areas in YSW and SW.

<u>REA Survey</u> Yung Shue Wan

- 5.4 A 100m transect was laid down along the artificial seawall at Yung Shue Wan (Figure 2 Appendix A) which cover the coral area marked in Spot Check Dives. The start point was at the northeast (near the helipad) of the seawall and the end point was at the southeast (near the end of the sewage treatment plant) of the seawall. The average depth of the transect was about 2 to 2.5 m.
- 5.5 This site is mainly composed of artificial sloping boulders (Photo Plate 1 Appendix B) down to 2.5 meters depth along the surveyed route (Table 5-4). Areas deeper than 3 meters are mainly muddy and sandy bottoms ((Photo Plate 1 Appendix B). Patches of coral colonies were recorded along the REA transect and 8 species of hard coral were recorded.



The abundance of coral species recorded along the transect was shown in **Table 5-5**. The abundance of each coral species was categories according to the coral communities in the survey site: Sparse – only a few or less colonies recorded, Uncommon – more colonies compared with Sparse, Common – more colonies compared with uncommon, Abundant – more colonies compared with Common, Dominant – more colonies compared with Abundant. Besides, some invertebrates such as common sponges, sea anemone: *Actinia equina*. Sea urchins: *Diadema setosum*, and *Anthocidaris crassispina* were also found at the surface of the boulders.

Ecological Attributes	Rank		
Hard coral	0.5		
Octocoral (soft corals and gorgonians)	0		
Black Corals	0		
Dead standing corals	0		
Substratum - Hard Substrate			
continuous pavement	0		
Bedrock/boulders/sand	5		
Coral rubble	0		
Cobbles	0		
Sand with gravel	0.5		
Mud	0.5		

Table 5-4Ecological and Substratum Attributes (Yung Shue Wan)

* Rank of percentage cover: 0 = None recorded; 0.5 = 1-5%; 1 = 6-10%; 2 = 11-30%; 3 = 31-50%; 4 = 51-75%;

5 = 76-100%



Coral Species/Transect	Abundance in the Site
Hard Corals	
Coscinaraea n sp.	1
Cyphastrea serailia	3
Favia rotumana	1
Favites abdita	1
Favites pentagona	3
Goniastrea aspera	3
Goniopora stutchburyi	3
Oulastrea crispata	1
Platygyra carnosus	1
Porites lobata	3

Table 5-5Taxon Abundance (Yung Shue Wan)

* Rank of Abundance: 0 = Absent;; 1 = Sparse; 2 = Uncommon; 3 = Common; 4 = Abundant; 5 = Dominant

5.6 This site supported a sparse and patchy cover (~5%) of hard coral. Along the REA transect *Goniopora stutchburyi, Cyphastrea serailia, Favites pentagona, Goniastrea aspera* and *Porites lobata* are common coral species in this site. All the recorded coral colonies grow on the boulders and rocks surfaces. All coral colonies recorded along the transect are common species of hard coral in Hong Kong water except an uncommon species *Coscinaraea n* sp. ((Photo Plate 1 - Appendix B).

<u>Sham Wan</u>

- 5.7 A 100m transect was laid down at the coral area at Sham Wan (Figure 4 Appendix A) which cover the coral area marked in Spot Check Dives. The start point was at the northeast (near the beach) of the shore and the end point was at the southeast of the shore. The average depth of the transect was about 3 to 3.5 m
- 5.8 This site is mainly composed of bedrocks and big boulders ((Photo Plate 1 Appendix B) down to 3.5 meters depth along the surveyed route (Table 5-6). Areas deeper than 4 meters are mainly sandy bottoms. Patches of coral colonies were recorded along the REA transect and 15 species of hard coral and one species of soft coral were recorded. The abundance of coral species recorded along the transect was shown in Table 5-7. Besides, some invertebrates such as common sponges, sea anemone: *Actinia equina*. Sea urchins: *Diadema setosum*, and *Anthocidaris crassispina* were also found at the surface of the boulders.



Table 5-6	Ecological and	Substratum	Attributes	(Sham	Wan)
				(

Ecological Attributes	Rank	
Hard coral	1	
Octocoral (soft corals and gorgonians)	0.5	
Black Corals	0	
Dead standing corals	0	
Substratum - Hard Substrate		
Continuous pavement	4	
Bedrock/boulders/sand	2	
Coral rubble	0	
Cobbles	0	
Sand with gravel	0.5	
Mud	0	

* Rank of percentage cover: 0 = None recorded; 0.5 = 1-5%; 1 = 6-10%; 2 = 11-30 %; 3 = 31-50%; 4 = 51-75 %; 5 = 76-100%

Coral Species/Transect	Abundance on the Site		
Hard Corals			
Coscinaraea n sp.	1		
Cyphastrea serailia	3		
Favia speciosa	3		
Favia veroni	1		
Favites chinensis	3		
Favites pentagona	3		
Goniastrea aspera	3		
Goniopora stutchburyi	4		
Leptastrea pruinosa	1		
Montipora peltiformis	1		
Oulastrea crispata	1		
Pavonna descussata	1		
Platygyra carnosus	1		
Porites lobata	4		
Psammocora superficialis	1		
Turbinaria peltata	1		
Soft Corals			
Dendronephthya sp.	1		

Table 5-7Taxon Abundance (Sham Wan)

* Rank of Abundance: 0 = Absent; 1 = Sparse; 2 = Uncommon; 3 = Common; 4 = Abundant; 5 = Dominant

5.9 This site supported a sparse and patchy cover (~10%) of hard coral. Along the REA transect *Goniopora stutchburyi* and *Porites lobata* ((**Photo Plate 1 - Appendix B**) are abundant in the site while *Goniastrea aspera Favia speciosa*, *Cyphastrea serailia*, *Favites chinensis* and *Favites pentagona* are common coral species in this site. All the recorded coral colonies grow on the boulders and rocks surfaces. All coral colonies recorded along the transect are common species of hard coral in Hong Kong water except an uncommon species *Coscinaraea n* sp. ((**Photo Plate 1 - Appendix B**).

6. COMMENTS

- 6.1 Spot check dives and REA surveys were conducted at the monitoring site (YSW) and control site (SW). The hard substrates in these two sites are mainly composed of artificial sloping boulders (YSW) and bedrocks (SW). The corals recorded at Yung Shue Wan are mainly located at the area next to the sewage treatment plant (**Figure 1 Appendix A**)
- 6.2 Scattered patches of hard corals were recorded at the natural shore of SW in which more coral species were recorded and with higher percentage coverage (~10%) when compare with YSW (~5%). Area with higher coral coverage was about 300 m away from the proposed spot check site. Therefore REA transect was laid at the coral area in SW.
- 6.3 All the corals recorded during the survey are common species in Hong Kong water except an uncommon species *Coscinaraea n* sp. was recorded in both sites and mostly of fair conditions on boulders or bedrocks.

7. **RECOMMENDATIONS**

- 7.1 Areas with relatively higher coral coverage were identified during the spot check in both YSW and SW. Corals colonies should be tagged in these two areas for further monitoring during the construction work.
- 7.2 The proposed works will involve construction of a submarine outfall of approximately 500 m in length and 325 mm in diameter from the seawall. In order to monitoring the impact to the coral communities at YSW during the construction work, coral tagging should be done 1 week before any marine work being commenced.



8. CONCLUSIONS

- 8.1 The coral coverage in both impact site (YSW) and control site (SW) are relatively low when compared with other coral communities in Hong Kong (such as Sharp Island and Hoi Ha Wan). Most of the coral colonies recorded in both site are common species in Hong Kong water.
- 8.2 Although corals found in both sites are in fair condition, they are suitable to be tagged and monitored during the construction works.



Appendix A

Locations of Baseline Survey





 Figure 2 REA Transect at Yung Shue Wan Seawall

 AppRox IMATE 100mm NoHINAL
 Perry Pler

 Perry Pler
 榕樹灣

 YUNG SHUE WAN
 REA Transect

 YUNG SHUE WAN
 WAN

 Water 1: 3600
 Water 1: 3600



Figure 3 Coral Area at Sham Wan



Figure 4 REA Transect at Sham Wan





Appendix B

Photographic of Representative Corals and Bottom Substrates



Photo Plate 1





Appendix C

Calibration Certificate of the GPS

Certificate No: CC 1042



This is to certify that the Quality Management System of

LEICA GEOSYSTEMS LTD.

Unit 1701-1703 DCH Commercial Centre 25 Westlands Road Quarry Bay Hong Kong

complies with the requirements of ISO 9001 : 2000 quality management system standard, applicable to:

Sales, delivery, maintenance and after sales services of surveying equipment and related accessories Calibration of surveying equipment 測量儀器和附件的銷售、付運、保養和售後服務 測量儀器的校正

The certificate remains valid subject to satisfactory maintenance of the system which will be monitored by Hong Kong Quality Assurance Agency.

Signed for and on behalf of HONG KONG QUALITY ASSURANCE AGENCY



Secretary

Director



U K A S OUALITY MANAGEMENT

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Registered address 19/F K. Wah Centre 191 Java Road North Point Hong Kong Tel (852) 2202 9111 Fax (852) 2202 9222 Note In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any service supplied in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate indicates accreditation in respect of those activities covered by that Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency. Further clarifications regarding the scope of this certificate and the applicability of ISO 9001 : 2000 requirements may be obtained by consulting the organization.

Original Certification 24 February 1998

Amendment 2 January 2007

Product Certificate

Date		1	20 April 2008
Cert. 1	No.	8	3312
Produ	ct	:	RX1250X
Article	e No.	:	745501
Serial	No.	:	311831
1:	Specifications	1	In accordance with user manual supplied on delivery.
2:	Certificate	1	We hereby certify that the product described has been tested and complies with the specifications as stated above. The test equipment used is traceable to national standards or to recognized procedures. This is established by our third party audited ISO 9001:2000 Quality Management System.

Leica Geosystems Ltd.

Veom 1

Quality Manager



- when it has to be right



Certificate

SQS herewith certifies that the company named below has a management system which meets the requirements of the normative bases specified below.



Leica Geosystems AG CH-9435 Heerbrugg (Switzerland)

Certified area

Locations CH-9435 Heerbrugg and CH-9443 Widnau including Metrology R&D, CH-5035 Unterentfelden

Field of activity

Development, manufacture, distribution, support and service of products, precision tools and systems for geomatic, airborne, industrial, machine control and construction applications

Normative bases

ISO 9001:2000 ISO 14001:2004

Quality management system Environmental management system

Swiss Association for Quality and Management Systems SQS Bernstrasse 103, CH-3052 Zollikofen Issue date: July 1, 2007 This SQS Certificate is valid up to and including June 30, 2010 Scope number 19 Registration number 10471

V. Eclelunam

X. Edelmann, President SQS

Aller

T. Zahner, Managing Director SQS









Appendix D

Corresponding Letter



Our Ref: TCS00512/10/300/L0162

Environmental Protection Department 27th floor, Southorn Centre, 130 Hennessy Road, Wan Chai, Hong Kong

Attn: Mr. Wing Cheong Chan,

8 February 2011 By post and Fax (Fax No. 2591 0558)

Dear Mr. Chan,

Re: DSD Contract No. DC/2009/13 – Construction of Sewage Treatment Works at Yung Shue Wan and Sok Kwu Wan Relocation of Control Station of Coral Monitoring at Yung Shue Wan

Further to our letter ref: TSC00512/10/300/L0094 dated 18 October 2010 with the captioned subject. Sham Wan was proposed to be the control station in steads of Beaufort Island for coral monitoring of the Project and the coordinates of the proposed station were given. However, during the baseline monitoring, the ecologist found out that area with higher coral coverage was about 300 m away from the proposed spot check site. Therefore, we write to clarify the exact location and coordinates for the control station which will be adopted in the coming monitoring events.

Please find below the table regards to the coordinates of the control station for your information. A map showing the exact location is also enclosed for your reference.

Control Station (Sham Wan, Lamma Island)	Coordinates	
)	Easting	Northing
Proposed in the Method Statement	832425	805478
Newly location	832161	805738

Should you have any queries or require further information, please feel free to contact us or the undersigned at Tel: 2959-6059 or Fax: 2959-6079.

Yours sincerely, For and on Behalf of Action-United Environmental Services & Consulting

T.W. Tam Environmental Team Leader

Encl.

c.c. AFCD SCJV (RE) Leader (Contractor) SCJV (IEC)

Attn: Mr. CHOW Wing Kuen (fax: 2377 4427) Attn: Mr. Neil Wong (fax: 2982 4129) Attn: Mr. Vincent Chan (fax: 2982 1803) Attn: Mr. Rodney Ip (fax: 2428 9922)

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Contract No. DC/2009/13 – Yung Shue Wan and Sok Kwu Wan Yung Shue Wan Portion Area Baseline Survey for Coral Monitoring Rev 1 – Yung Shue Wan





Figure 1 Locations of Control Monitoring Station in Method Statement and Report

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漁農自然護理署 九龍長沙灣道三零三號 長沙灣道政府合署七樓



AGRICULTURE, FISHERIES AND CONSERVATION DEPARTMENT Cheung Sha Wan Road Government Offices 303 Cheung Sha Wan Road

7th Floor Kowloon, Hong Kong

Pages: 1

By Fax only

本署檔號 Our Ref: (14) in AF EA 033/10

來函檔號 Your Ref: TCS00512/10/300/L0162

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圖文傳真 Faxline No: (852) 2377 4427

AUES

Unit A, 20/F, Gold King Industrial Building 35-41 Tai Lun Pai Road, Kwai Chung New Territories, Hong Kong

Attn: T. W. Tam Fax: 2959 6079

Dear T.W.,

16 Feb 2011

DSD Contract No. DC/2009/13 -Construction of Sewage Treatment Works at Yung Shue Wan and Sok Kwu Wan <u>Relocation of Control Station of Coral Monitoring at Yung Shue Wan</u>

I refer to your cc letter dd 8. 2. 11 and have no comment on your proposal of the new control station for coral monitoring.

Yours sincerely,

(Dr. Y. M. MAK) for Director of Agriculture, Fisheries and Conservation

cc DSD EPD

(Attn: Mr CK Au (Attn: Mr Matthew WC Chan Fax: 2833 9162) Fax: 2591 0558)

覆函請寄交「漁農自然護理署署長」 Please address all replies to Director of Agriculture, Fisheries and Conservation

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