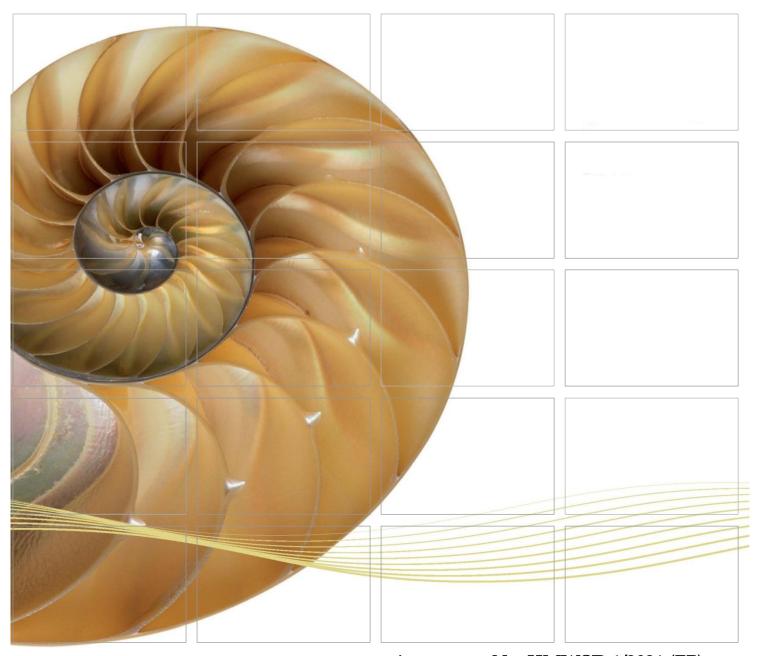
Report



Agreement No. HMWSD 1/2021 (EP)
Post-Construction Monitoring of
Chinese White Dolphin (Line-transect
Vessel Surveys) for Tuen Mun – Chek
Lap Kok Link in Northeast and
Northwest Lantau Survey Area Investigation

First Monthly Environmental Monitoring & Audit (EM&A) Report

7 October 2021

Environmental Resources Management 2509, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong





Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Linetransect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area - Investigation

First Monthly Environmental Monitoring & Audit (EM&A) Report

Document Code: 0611663_1st Monthly EM&A_20211007.doc

Environmental Resources Management

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| Client: | | Project N | Project No: | | | | |
|--|-------------------------------------|--|----------------------|----------|----------|--|--|
| Highway | rs Department | 0611663 | | | | | |
| This document presents the First Monthly EM&A Report for Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area - Investigation | | Date: 7 Octob Approved Mr Craig Partner Certified I Dr Jasn ET Leade | g Reid by: mine Ng | | | | |
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| | 1 st Monthly EM&A Report | VAR | JN | CAR | 07/10/21 | | |
| Revision | Description | Ву | Checked | Approved | Date | | |





| This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. | Distribution Internal | OHSAS 18001:2007 Certificate No. OHS 515956 |
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Ref.: HYDHZMBEEM00_0_8576L.21

11 October 2021

By Fax (3691 2899) and By Post

AECOM Asia Co. Ltd.
Supervising Officer Representative's Office
No.8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Mr. K P Wong

Dear Mr. Wong,

Re: Agreement No. CE 48/2011 (EP)

Environmental Project Office for the

HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and

Tuen Mun-Chek Lap Kok Link - Investigation

Agreement No. HMWSD 1/2021 (EP)

Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation

1st Monthly EM&A Report for September 2021 (EP-354/2009/D)

Reference is made to the Monthly EM&A Report for September 2021 (ET's ref.: "0611663_1st Monthly EM&A_20211007.doc") certified by the ET Leader and provided to us via e-mail on 7 October 2021.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you for your attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y. H. Hui should you have any queries.

Yours sincerely,

Brian Tam

Independent Environmental Checker

Tuen Mun - Chek Lap Kok Link

c.c.

 HyD
 Ms. Sally Choi
 (By Fax: 3188 6614)

 HyD
 Ms. Maggie Lai
 (By Fax: 3188 6614)

 ERM
 Dr. Jasmine Ng
 (By Fax: 2723 5660)

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COMPLAINTS, NOTIFICATIONS OF SUMMONS AND

SUCCESSFUL PROSECUTIONS

EXECUTIVE SUMMARY

Under *Agreement No. HMWSD 1/2021 (EP)*, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) by the Highways Department (HyD) to undertaken the implementation of post-construction monitoring for the Chinese White Dolphin (CWD) in accordance with *Environmental Permit No. EP-354/2009/D* for the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project). AECOM Asia Company Limited was appointed by HyD as the Supervising Officer while Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The post-construction monitoring for the CWD commenced on June 2020 and will be completed in May 2022.

This is the First Monthly EM&A report presenting the monitoring works carried out during the period from 1 to 30 September 2021 for the *Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation (the "Contract") in accordance with the Updated EM&A Manual of the TM-CLK Link Contract.*

In order to fulfil the EP's and EM&A Manual's requirements for TM-CLKL Project, *Agreement No. HMWSD 1/2021 (EP)* took over the responsibility for implementation of operational phase dolphin monitoring from Contract No. HY/2012/08 from 1 September 2021 to 31 May 2022.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

Operational Phase Dolphin Monitoring 2 sessions

Summary of Breaches of Action/Limit Levels

No Action and Limit Level exceedance was recorded.

Environmental Complaints, Non-compliance & Summons

No non-compliance with EIA recommendations, EP conditions and other requirements associated with the construction of this Contract was recorded in this reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Reporting Change

In order to fulfil the EP's and EM&A Manual's requirements for TM-CLKL Project, *Agreement No. HMWSD 1/2021 (EP)* took over the responsibility for

| implementation of operational phase dolphin monitoring from Contract No. HY/2012/08 from 1 September 2021 to 31 May 2022. | | | | |
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1 INTRODUCTION

1.1 BACKGROUND

According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM*). The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-146/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

Under *Agreement No. HMWSD 1/2021 (EP)*, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) by the Highways Department (HyD) to undertaken the implementation of post-construction monitoring for the Chinese White Dolphin (CWD) in accordance with *Environmental Permit No. EP-354/2009/D* for the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project). AECOM Asia Company Limited was appointed by HyD as the Supervising Officer while Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The post-construction monitoring for the CWD commenced on June 2020 and will be completed in May 2022.

In order to fulfil the EP's and EM&A Manual's requirements for TM-CLKL Project, *Agreement No. HMWSD 1/2021 (EP)* took over the responsibility for implementation of operational phase dolphin monitoring from Contract No. HY/2012/08 from 1 September 2021 to 31 May 2022.

1.2 Scope of Report

This is the First Monthly EM&A Report under the *Agreement No. HMWSD* 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation. This report presents a summary of the environmental monitoring and audit works in September 2021.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

Table 1.1 Contact Information of Key Personnel

| Party | Position | Name | Telephone | Fax |
|--|-----------------------------|----------------|-----------|-----------|
| Highways Department | Engr 24/SD | Ken T.M. Cheng | 2762 4062 | 3188 6614 |
| SOR (AECOM Asia Company Limited) | Senior Resident Engineer | K P Wong | 2293 6403 | 2293 6300 |
| ENPO / IEC (Ramboll Hong Kong Ltd.) | ENPO Leader | Y.H. Hui | 3465 2850 | 3465 2899 |
| (Kambon Florig Kong Ltd.) | IEC | Brian Tam | 9700 6767 | 3465 2899 |
| ET (ERM-HK) | ET Leader | Jasmine Ng | 2271 3311 | 2723 5660 |

2 EM&A RESULTS

The EM&A programme required environmental monitoring for marine ecology. The EM&A requirements and related findings for the component are summarized in the following sections

2.1 DOLPHIN MONITORING

2.1.1 Monitoring Requirements

Operational Phase dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. According to the EM&A Manual, Operational Phase Monitoring on dolphin monitoring shall be undertaken based upon the frequency of forty-eight, one-day survey events at a frequency of 2 per month over a period of 24 months following cessation of the construction.

In order to fulfil the EM&A requirements and make good use of available resources, *Agreement No. HMWSD 1/2021 (EP)* has taken over the responsibility for implementation of dolphin monitoring from *HZMB HKLR Contract No. HY/2011/03* since October 2019 and *Contract No. HY/2012/08* since September 2021.

2.1.2 Monitoring Equipment

Table 2.1 summarises the equipment used for the operational phase dolphin monitoring.

Table 2.1 Dolphin Monitoring Equipment

| Equipment | Model |
|---------------------------------|---|
| Global Positioning System (GPS) | Garmin 18X-PC |
| | Geo One Phottix |
| Camera | Nikon D90 300m 2.8D fixed focus |
| | Nikon D90 20-300m zoom lens |
| Laser Binocular | Infinitor LRF 1000 |
| Marine Binocular | Bushell 7 x 50 marine binocular with compass and reticules |
| Vessel for Monitoring | 65 foot single engine motor vessel with viewing platform 4.5m above water level |

2.1.3 Monitoring Parameter, Frequencies & Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period and operational phase. The monitoring data should be compatible with, and should be made available for, long-term

studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring and operational phase dolphin monitoring.

2.1.4 Monitoring Location

The operational phase dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.1*. The co-ordinates of all transect lines are shown in *Table 2.2* below.

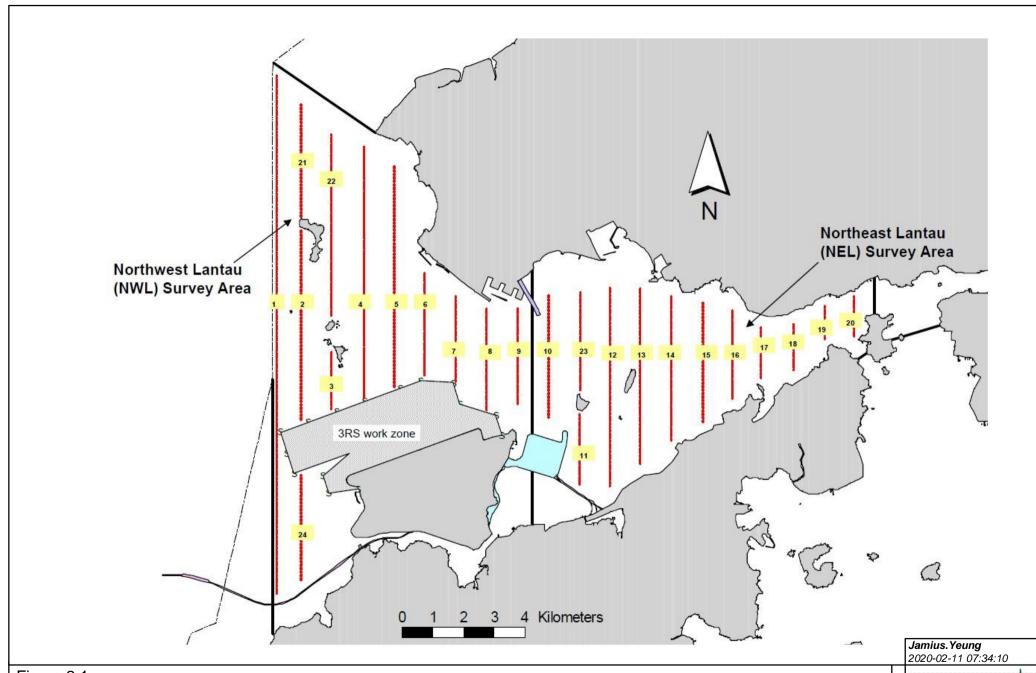


Figure 2.1

Layout of Transect Lines of Dolphin Monitoring in Northwest and Northeast Lantau Areas

Eigurenînîental Resources Management



 Table 2.2
 Operational Phase Dolphin Monitoring Line Transect Co-ordinates

| | Line No. | Easting | Northing | | Line No. | Easting | Northing |
|----|-------------|---------|----------|-----|-------------|---------|----------|
| 1 | Start Point | 804671 | 815456 | 13 | Start Point | 816506 | 819480 |
| 1 | End Point | 804671 | 831404 | 13 | End Point | 816506 | 824859 |
| 2 | Start Point | 805476 | 820800* | 14 | Start Point | 817537 | 820220 |
| 2 | End Point | 805476 | 826654 | 14 | End Point | 817537 | 824613 |
| 3 | Start Point | 806464 | 821150* | 15 | Start Point | 818568 | 820735 |
| 3 | End Point | 806464 | 822911 | 15 | End Point | 818568 | 824433 |
| 4 | Start Point | 807518 | 821500* | 16 | Start Point | 819532 | 821420 |
| 4 | End Point | 807518 | 829230 | 16 | End Point | 819532 | 824209 |
| 5 | Start Point | 808504 | 821850* | 17 | Start Point | 820451 | 822125 |
| 5 | End Point | 808504 | 828602 | 17 | End Point | 820451 | 823671 |
| 6 | Start Point | 809490 | 822150* | 18 | Start Point | 821504 | 822371 |
| 6 | End Point | 809490 | 825352 | 18 | End Point | 821504 | 823761 |
| 7 | Start Point | 810499 | 822000* | 19 | Start Point | 822513 | 823268 |
| 7 | End Point | 810499 | 824613 | 19 | End Point | 822513 | 824321 |
| 8 | Start Point | 811508 | 821123 | 20 | Start Point | 823477 | 823402 |
| 8 | End Point | 811508 | 824254 | 20 | End Point | 823477 | 824613 |
| 9 | Start Point | 812516 | 821303 | 21 | Start Point | 805476 | 827081 |
| 9 | End Point | 812516 | 824254 | 21 | End Point | 805476 | 830562 |
| 10 | Start Point | 813525 | 821176 | 22 | Start Point | 806464 | 824033 |
| 10 | End Point | 813525 | 824657 | 22 | End Point | 806464 | 829598 |
| 11 | Start Point | 814556 | 818853 | 23 | Start Point | 814559 | 821739 |
| 11 | End Point | 814556 | 820992 | 23 | End Point | 814559 | 824768 |
| 12 | Start Point | 815542 | 818807 | 24* | Start Point | 805476* | 815900* |
| 12 | End Point | 815542 | 824882 | 24* | End Point | 805476* | 819100* |

Remarks: The coordinates of several starting and ending points have been revised due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

2.1.5 Monitoring Schedule for the Reporting Month

Dolphin monitoring was carried out on 7, 13, 14 and 21 September 2021. The dolphin monitoring schedule for the reporting month is shown in *Appendix B*.

2.1.6 Results & Observations

A total of 280.40 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in September 2021. Among the two areas, 110.60 km and 169.80 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 193.45 km and 86.95 km respectively. The survey efforts are summarized in *Appendix C*.

One Chinese White Dolphin was sighted in the two sets of surveys in September 2021. The dolphin sighting was made in NWL, while none was sighted in NEL. The dolphin sighting was made during on-effort search and was made on primary lines. The dolphin was not associated with any operating fishing vessel.

No dolphin sighting was made in the proximity of the TM-CLKL alignment. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.2*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in September 2021 with the results present in *Tables 2.3* and *2.4*.

Table 2.3 Individual Survey Event Encounter Rates

| | | Encounter rate (STG) | Encounter rate (ANI) |
|------|------------------------------|---------------------------|--------------------------------|
| | | (no. of on-effort dolphin | (no. of dolphins from all on- |
| | | sightings per 100 km of | effort sightings per 100 km of |
| | | survey effort) | survey effort) |
| | | Primary Lines Only | Primary Lines Only |
| NEL | Set 1: September 7th / 13th | 0.0 | 0.0 |
| NLL | Set 2: September 14th / 21st | 0.0 | 0.0 |
| NWL | Set 1: September 7th / 13th | 1.6 | 1.6 |
| NVVL | Set 2: September 14th / 21st | 0.0 | 0.0 |

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in September 2021 in Northeast (NEL) and Northwest Lantau (NWL)

Table 2.4 Monthly Average Encounter Rates

| 1 | Encounter | rate (STG) | Encounter | rate (ANI) |
|-------|--------------------------|-----------------|-----------------|-----------------|
| (n | o. of on-ef | fort dolphin | (no. of dolphi | ns from all on- |
| sight | ings per 10 | 00 km of survey | effort sighting | s per 100 km of |
| | effort) | | survey effort) | |
| Pri | mary | Both Primary | Primary | Both Primary |
| Line | Lines Only and Secondary | | Lines Only | and Secondary |
| | | Lines | | Lines |

| Northeast Lantau | 0.0 | 0.0 | 0.0 | 0.0 |
|------------------|-----|-----|-----|-----|
| Northwest Lantau | 0.8 | 0.6 | 0.8 | 0.6 |

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in September 2021 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

2.2 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.5* below.

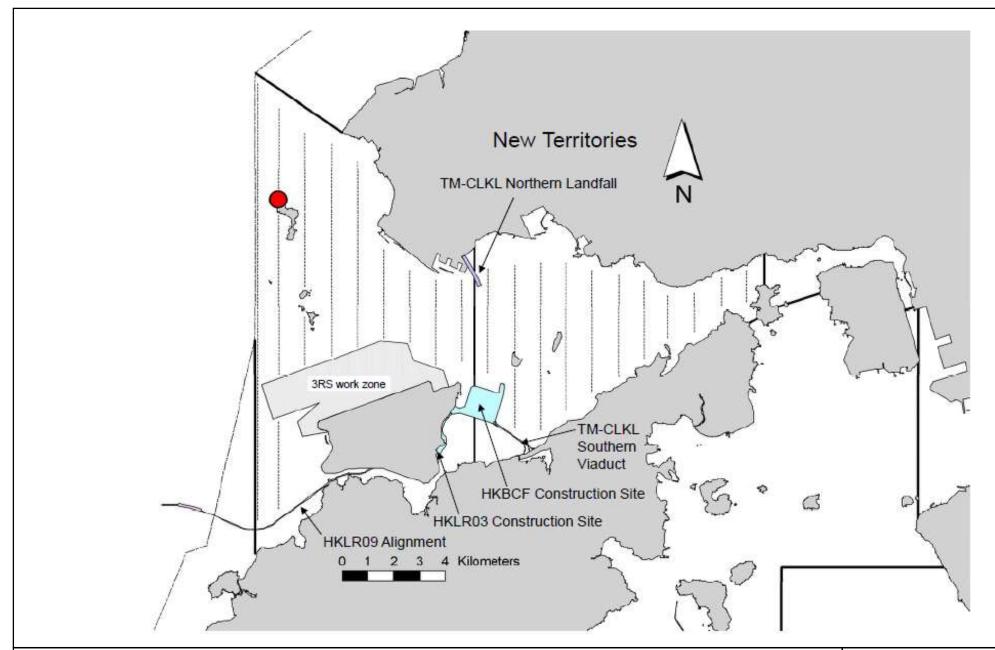


Figure 2.2 Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation

The distribution of dolphin sightings during the reporting period





Table 2.5 Summary of Environmental Licensing and Permit Status

| License/ Permit | License or Permit No. | Date of Issue | Date of Expiry | License/ Permit Holder | Remarks |
|----------------------|-----------------------|---------------|-------------------------|------------------------|--|
| Environmental Permit | EP-354/2009/D | 13 March 2015 | Throughout the Contract | HyD | Application for VEP on 3 March 2015 to |
| | | | | | supersede EP-354/2009/C |

Notes:

HyD = Highways Department

VEP = Variation of Environmental Permit

2.3 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

No Action and Limit Level exceedance of was recorded.

Cumulative statistics are provided in *Appendix D*.

2.4 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Statistics on complaints, notifications of summons and successful prosecutions are summarized in *Appendix D*.

3 FUTURE KEY ISSUES

3.1 MONITORING SCHEDULE FOR THE COMING MONTH

In order to fulfil the EP's and EM&A Manual's requirements for TM-CLKL Project, *Agreement No. HMWSD 1/2021 (EP)* took over the responsibility for implementation of operational phase dolphin monitoring from *Contract No. HY/2012/08* from 1 September 2021 to 31 May 2022.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This First EM&A Report presents the findings of the monitoring works undertaken during the period from 1 to 30 September 2021, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Operational phase dolphin monitoring were carried out in this reporting month.

No Action and Limit Level exceedance was recorded.

One Chinese White Dolphin was sighted in the two sets of surveys in September 2021.

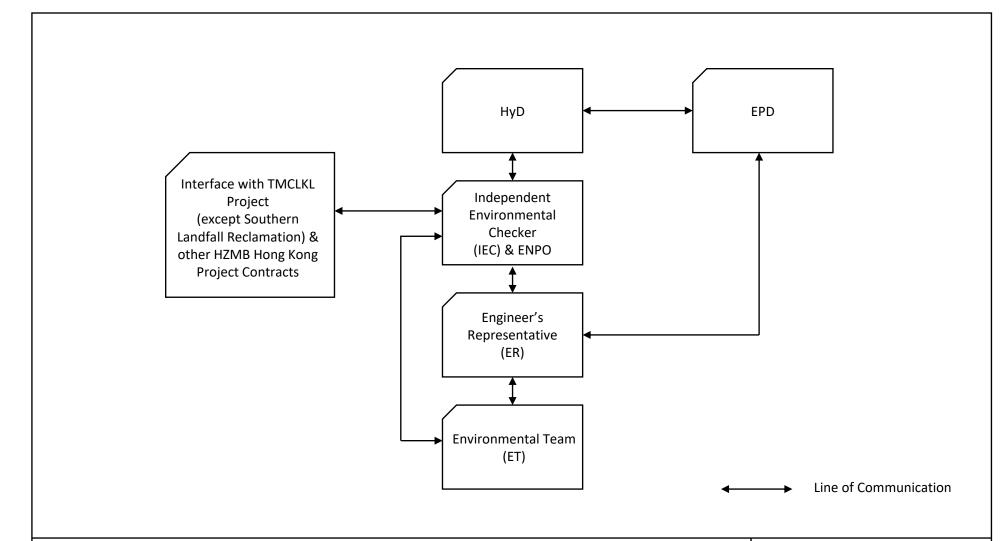
No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

In order to fulfil the EP's and EM&A Manual's requirements for TM-CLKL Project, *Agreement No. HMWSD 1/2021 (EP)* took over the responsibility for implementation of operational phase dolphin monitoring from *Contract No. HY/2012/08* from 1 September 2021 to 31 May 2022.

Appendix A

Project Organization for Environmental Works



Appendix A1

Agreement No. HMWSD 1/2021 (EP)
Post-Construction Monitoring of Chinese White Dolphin
(Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation
Project Organization

Environmental Resources Management



Appendix B

EM&A Monitoring Schedules

Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation Operational Phase Dolphin Monitoring Survey Monitoring Schedule - September 2021

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---|---|-----------|----------|--------|----------|
| | | | 01-Sep | | | |
| | | | | | | |
| 05-Sep | 06-Sep | 07-Sep | 08-Sep | 09-Sep | 10-Sep | 11-Sep |
| | | Operational Phase Dolphin Monitoring | | | | |
| 12-Sep | 13-Sep | 14-Sep | 15-Sep | 16-Sep | 17-Sep | 18-Sep |
| | Operational Phase Dolphin Monitoring | Operational Phase Dolphin Monitoring | | | | |
| 19-Sep | 20-Sep | 21-Sep | 22-Sep | 23-Sep | 24-Sep | 25-Sep |
| | | Operational Phase Dolphin Monitoring | | | | |
| 26-Sep | 27-Sep | 28-Sep | 29-Sep | 30-Sep | | |
| | | | | | | |

Agreement No. HMWSD 1/2021 (EP) Post-Construction Monitoring of Chinese White Dolphin (Line-transect Vessel Surveys) for Tuen Mun – Chek Lap Kok Link in Northeast and Northwest Lantau Survey Area – Investigation Tentative Operational Phase Dolphin Monitoring Survey Monitoring Schedule - October 2021

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---|---|-----------|---|--------|----------|
| | | | | | 01-Oct | 02-Oct |
| | | | | | | |
| 03-Oct | 04-Oct | 05-Oct | 06-Oct | | 08-Oct | 09-Oct |
| | | | | Operational Phase Dolphin Monitoring | | |
| 10-Oct | | 12-Oct | 13-Oct | 14-Oct | 15-Oct | 16-Oct |
| | Operational Phase Dolphin Monitoring | | | | | |
| 17-Oct | 18-Oct | 19-Oct | 20-Oct | 21-Oct | 22-Oct | 23-Oct |
| | | Operational Phase Dolphin Monitoring | | | | |
| 24-Oct | 25-Oct | 26-Oct | 27-Oct | 28-Oct | 29-Oct | 30-Oct |
| | | Operational Phase Dolphin Monitoring | | | | |
| 31-Oct | | | | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised in view of adverse(safety, weather etc) conditions.

Appendix C

Operational Phase Dolphin Monitoring Survey

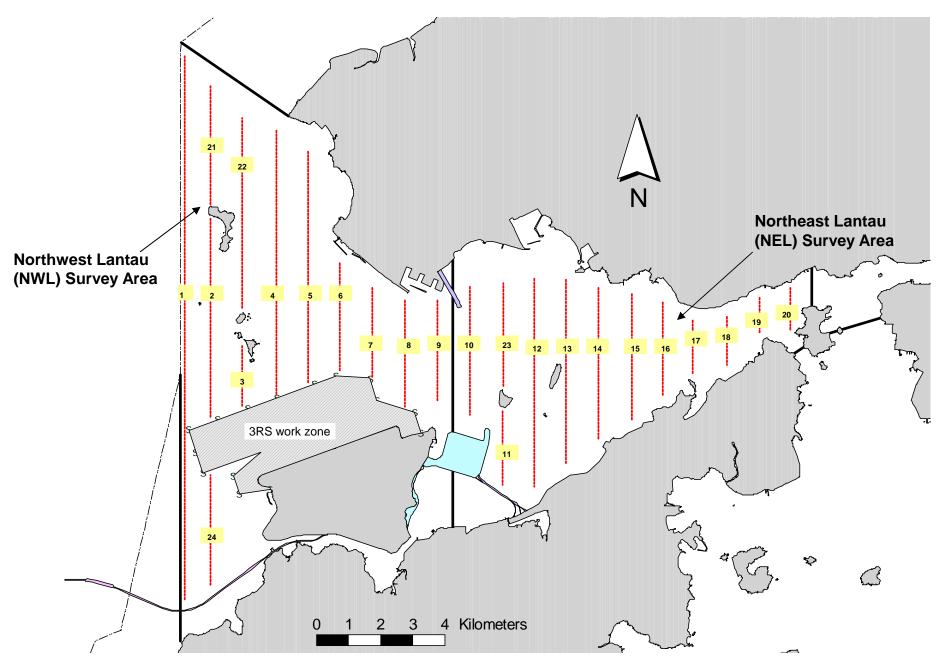


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

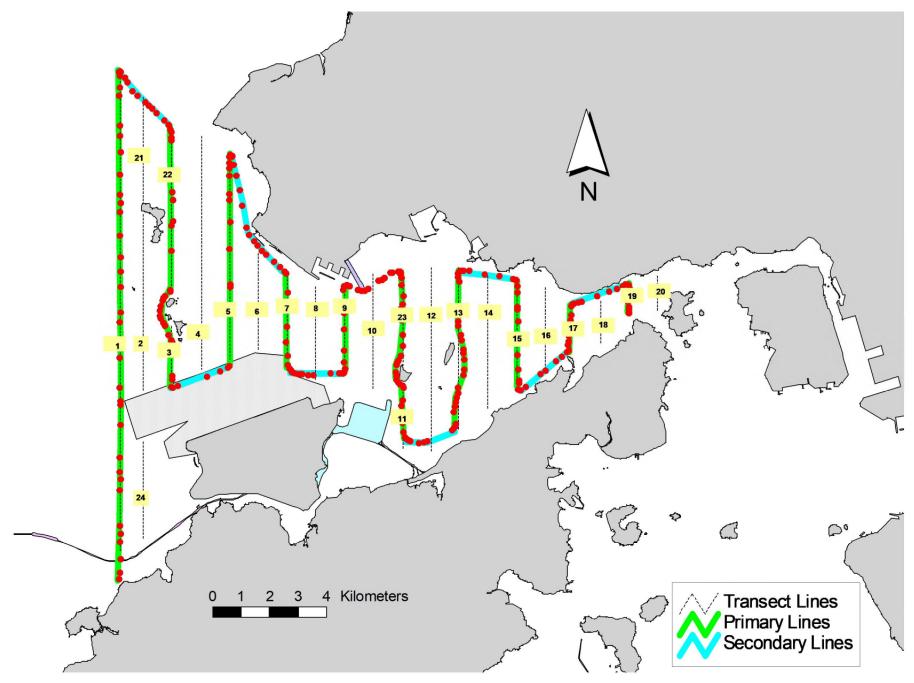


Figure 2. Survey Route on September 7th, 2021

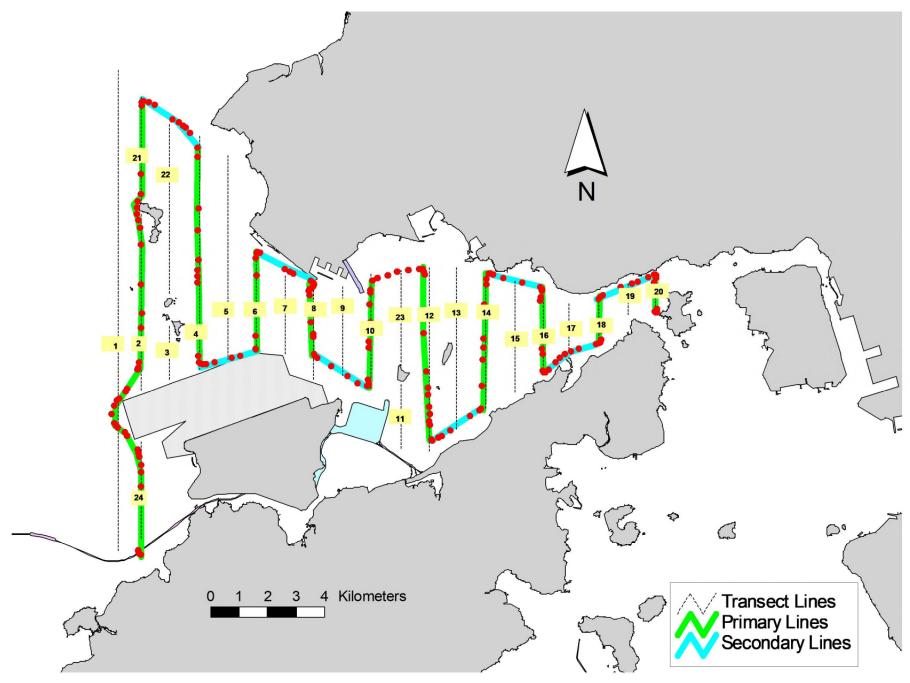


Figure 3. Survey Route on September 13th, 2021

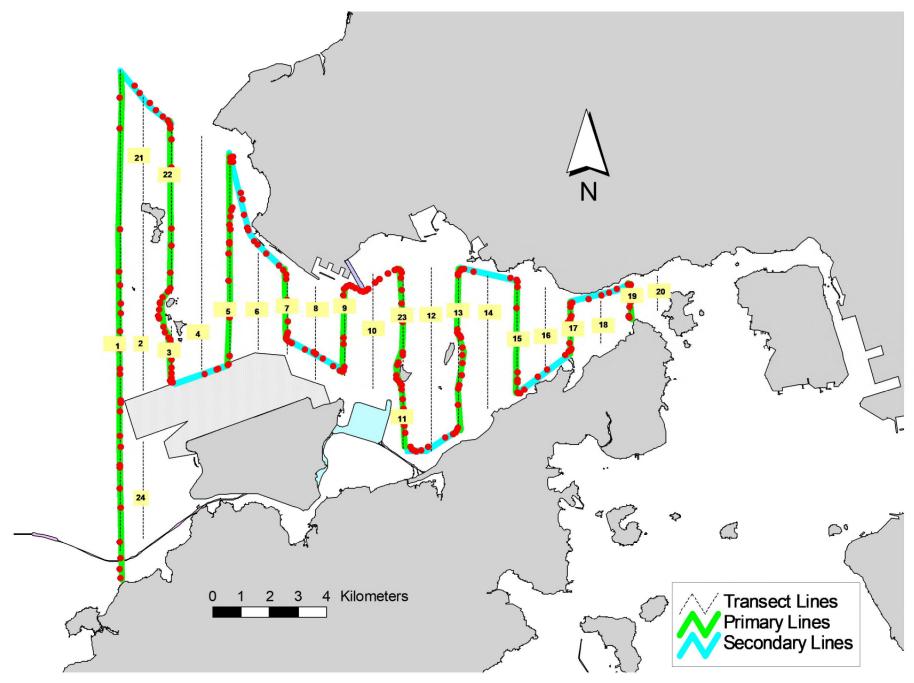


Figure 4. Survey Route on September 14th, 2021

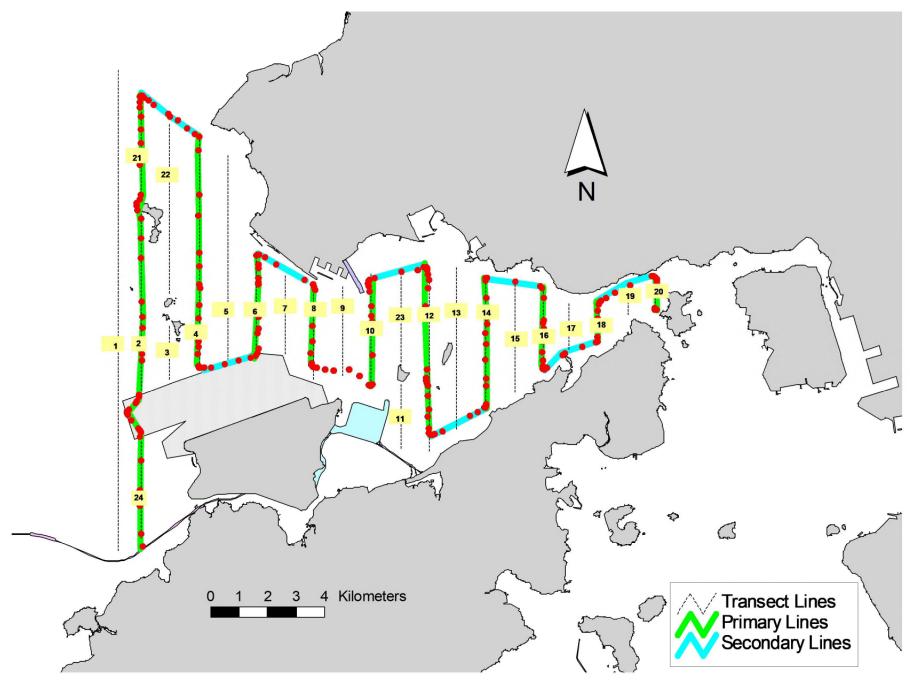


Figure 5. Survey Route on September 21st, 2021

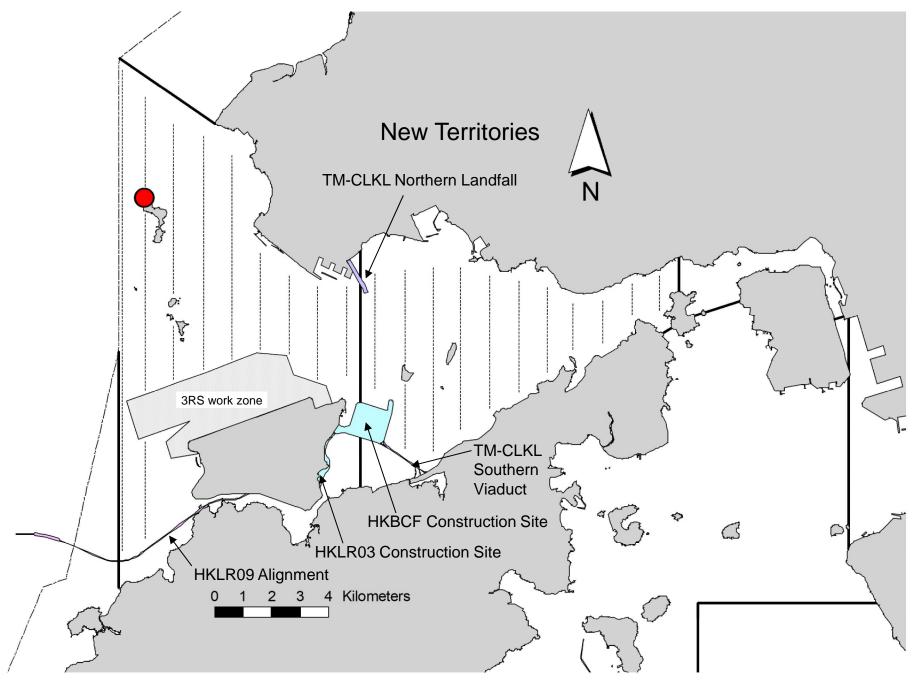


Figure 6. Distribution of Chinese White Dolphin Sightings during September 2021 Monitoring Surveys

Appendix I. TMCLKL Survey Effort Database (September 2021)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

| DATE | AREA | BEAU | EFFORT | SEASON | VESSEL | TYPE | P/S |
|-----------|-----------|------|--------|--------|----------------|--------|--------|
| 7-Sep-21 | NW LANTAU | 1 | 0.40 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 7-Sep-21 | NW LANTAU | 2 | 32.70 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 7-Sep-21 | NW LANTAU | 3 | 4.00 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 7-Sep-21 | NW LANTAU | 1 | 1.10 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 7-Sep-21 | NW LANTAU | 2 | 6.70 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 7-Sep-21 | NW LANTAU | 3 | 5.50 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 7-Sep-21 | NE LANTAU | 2 | 12.16 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 7-Sep-21 | NE LANTAU | 3 | 3.69 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 7-Sep-21 | NE LANTAU | 2 | 6.02 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 7-Sep-21 | NE LANTAU | 3 | 3.33 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 13-Sep-21 | NW LANTAU | 2 | 25.31 | AUTUMN | STANDARD138716 | TMCLKL | Р |
| 13-Sep-21 | NW LANTAU | 2 | 10.49 | AUTUMN | STANDARD138716 | TMCLKL | S |
| 13-Sep-21 | NE LANTAU | 1 | 1.20 | AUTUMN | STANDARD138716 | TMCLKL | Р |
| 13-Sep-21 | NE LANTAU | 2 | 18.20 | AUTUMN | STANDARD138716 | TMCLKL | Р |
| 13-Sep-21 | NE LANTAU | 1 | 1.80 | AUTUMN | STANDARD138716 | TMCLKL | S |
| 13-Sep-21 | NE LANTAU | 2 | 8.40 | AUTUMN | STANDARD138716 | TMCLKL | S |
| 14-Sep-21 | NW LANTAU | 2 | 27.80 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 14-Sep-21 | NW LANTAU | 3 | 6.90 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 14-Sep-21 | NW LANTAU | 2 | 8.10 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 14-Sep-21 | NW LANTAU | 3 | 4.80 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 14-Sep-21 | NE LANTAU | 2 | 16.76 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 14-Sep-21 | NE LANTAU | 2 | 9.34 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 14-Sep-21 | NE LANTAU | 3 | 0.40 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 21-Sep-21 | NW LANTAU | 2 | 25.33 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 21-Sep-21 | NW LANTAU | 2 | 10.67 | AUTUMN | STANDARD36826 | TMCLKL | S |
| 21-Sep-21 | NE LANTAU | 2 | 13.40 | AUTUMN | STANDARD36826 | TMCLKL | Р |
| 21-Sep-21 | NE LANTAU | 3 | 5.60 | AUTUMN | STANDARD36826 | TMCLKL | P |
| 21-Sep-21 | NE LANTAU | 2 | 6.10 | AUTUMN | STANDARD36826 | TMCLKL | S S |
| 21-Sep-21 | NE LANTAU | 3 | 4.20 | AUTUMN | STANDARD36826 | TMCLKL | 5 |
| | | | | | | | |

Appendix II. TMCLKL Chinese White Dolphin Sighting Database (September 2021)

(Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance;

BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Lines)

| DATE | STG# | TIME | HRD SZ | AREA | BEAU | PSD | EFFORT | TYPE | NORTHING | EASTING | SEASON | BOAT ASSOC. | P/S |
|-----------|------|------|--------|-----------|------|-----|--------|--------|----------|---------|--------|-------------|-----|
| 13-Sep-21 | 1 | 1053 | 1 | NW LANTAU | 2 | 3 | ON | TMCLKL | 827184 | 805396 | AUTUMN | NONE | Р |

Appendix III. Individual dolphins identified during TMCLKL monitoring surveys in (September 2021)

| ID# | DATE | STG# | AREA |
|-------|----------|------|-----------|
| NL182 | 13/09/21 | 1 | NW LANTAU |



Appendix IV. Photograph of Identified Individual Dolphin in September 2021 (TMCLKL)

Appendix D

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

 Table D1
 Cumulative Statistics on Exceedances

| Monitoring Parameters | Action/Limit Level | Total No. recorded in this reporting quarter | Total No. recorded since Contract commencement |
|--------------------------|--------------------|--|--|
| Post Construction | Action | 0 | 0 |
| (Operational) Dolphin | Limit | 0 | 5 |
| Monitoring | | | |

Table D2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

| Reporting Period | Cumulative Statistics | | | | | |
|-----------------------|-----------------------|------------------|--------------|--|--|--|
| | Complaints | Notifications of | Successful | | | |
| | | Summons | Prosecutions | | | |
| This Reporting Period | 0 | 0 | 0 | | | |
| (September 2021) | | | | | | |
| Total No. received | 0 | 0 | 0 | | | |
| since Contract | | | | | | |
| commencement | | | | | | |