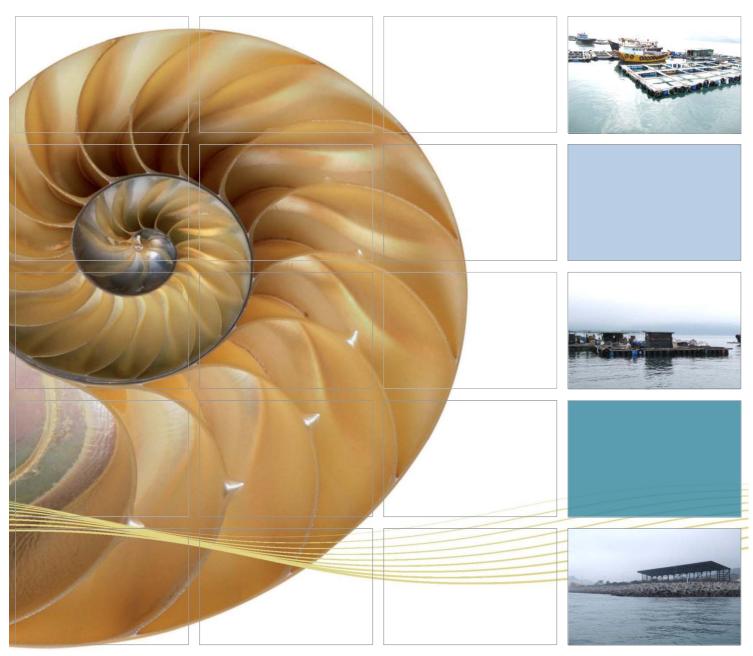
EM&A REPORT





Asia Submarine-cable Express (ASE) – Tseung Kwan O

Fourth Weekly Site Inspection Report

31 October 2012

Environmental Resources Management

16/F DCH Commercial Centre 25 Westlands Road Quarry Bay, Hong Kong Telephone 2271 3000 Facsimile 2723 5660

www.erm.com



Asia Submarine-cable Express (ASE) – Tseung Kwan O

4th Weekly Site Inspection Report

Document Code: 0171870 Ispection Rpt Flyer Sheet.doc

| Client: | | GMS No: | | | | | |
|---|---|--|----------|----------|---|--|--|
| NTT Co | m Asia Ltd | 0171870 | | | | | |
| Summary | | Date: | | | | | |
| | | 31 Octo | ber 2012 | 2 | | | |
| status of | ort presents the inspection findings and the implementation the EM&A recommendations on environmental protection tion control mitigation measures and monitoring. | Approved by: | | | | | |
| | | Project Director | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 0 | 4 th Weekly Site Inspection Report | GYANG | GYANG | TFONG | 31 Oct 12 | | |
| Revision | Description | Ву | Checked | Approved | Date | | |
| to third parti relies on the This report I of 'ERM Hor of the Contr and taking a We disclaim scope of the This report i to third parti | s confidential to the client and we accept no responsibility of whatsoever nature es to whom this report, or any part thereof, is made known. Any such party report at their own risk. has been prepared by Environmental Resources Management the trading name ng-Kong, Limited', with all reasonable skill, care and diligence within the terms act with the client, incorporating our General Terms and Conditions of Business account of the resources devoted to it by agreement with the client. any responsibility to the client and others in respect of any matters outside the above. s confidential to the client and we accept no responsibility of whatsoever nature es to whom this report, or any part thereof, is made known. Any such party report at their own risk. | Distribution Internal Public Confidential | | | DISAS INC. 1997 Constitution No. CHR 5 1997 BO 2011 : 200 Constitution No. 15 2015 Constitution No. 15 2015 Constitution No. 15 2015 | | |
| | | | | | | | |

Environmental Resources Management

16/F DCH Commercial Centre 25 Westlands Road Quarry Bay Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com





Asia Submarine-cable Express (ASE) – Tseung Kwan O Environmental Certification Sheet EP-433/2011

Reference Document/Plan

| Document/Plan to be Certified/ Verified: | Fourth Site Inspection Report |
|--|-------------------------------|
| Date of Report: | 31 October 2012 |
| Date prepared by ET: | ERM-Hong Kong Ltd |
| Date received by IEC: | Ecosystem Ltd |

Reference EM&A Manual/ EP Requirement

EM&A Manual Requirement:

Section 3

Content: Marine Mammal Observation

"A marine mammal exclusion zone within a radius of 250 m from the cable installation bage will be implemented during the cable installation works taking place in daylight hours along the section outside Zones A to B (ie Zone C and from C to the boundary of HKSAR waters)..."

Section 5.1

Content: Site Inspections

"...A weekly site inspection will be carried out at the proposed BMH in TKO Industrial Estate until the completion of construction works at the landing point. The areas of inspection will not be limited to the site area and should also include the environmental conditions outside the site which are likely to be affected, directly or indirectly, by the site activities..."

EP Condition:

Condition No. 2.4

Content: Site Audit

"To monitor the environmental impacts and timely implementation of the recommended mitigation measures, the Permit Holder shall:

(i) implement the EM&A programme of the Project in accordance with the procedures and requirements set out in the approved EM&A"

(ii) submit to the Direct... (a)...; (b) weekly impact monitoring and site audit report within three days after the relevant monitoring data are collected or become available; and (c)..."



ET Certification

| I hereby certify that the above referenced document/ plan complies with the above referenced condition of | | | | | |
|--|-------|-----------------|--|--|--|
| EP-433/2011. | | | | | |
| levor | | | | | |
| Terence Fong, Environmental | Date: | 31 October 2012 | | | |
| Team Leader: | | | | | |

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-433/2011.

0

Dr Vincent Lai, Independent Environmental Checker:

Date:

31 October 2012

| 1 | INTRODUCTION | 1 |
|-----|--|----|
| 1.1 | Purpose of the Report | 1 |
| 1.2 | STRUCTURE OF THE REPORT | 1 |
| 2 | PROJECT INFORMATION | 2 |
| 2.1 | BACKGROUND | 2 |
| 2.2 | WORKS PROGRAMME AND WORKS LOCATIONS | 2 |
| 2.3 | CONSTRUCTION ACTIVITIES | 3 |
| 2.4 | STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS | 4 |
| 3 | ENVIRONMENTAL MONITORING | 5 |
| 3.1 | CABLE INSTALLATION WATER QUALITY MONITORING | 5 |
| 3.2 | MARINE MAMMAL OBSERVATION (MMO) | 5 |
| 3.3 | CORAL MONITORING | 5 |
| 3.4 | SITE INSPECTION AND AUDIT | 6 |
| 4 | SITE INSPECTION RESULTS | 7 |
| 5 | ENVIRONMENTAL NON-CONFORMANCE | 8 |
| 5.1 | SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE | 8 |
| 5.2 | SUMMARY OF ENVIRONMENTAL COMPLAINT | 8 |
| 5.3 | SUMMARY OF ENVIRONMENTAL SUMMON AND SUCCESSFUL PROSECUTION | 8 |
| 6 | FUTURE KEY ISSUES | 9 |
| 6.1 | Key Issues for the Next Reporting Period | 9 |
| 6.2 | MONITORING SCHEDULE FOR THE NEXT REPORTING PERIOD | 9 |
| 7 | CONCLUSIONS | 10 |

LIST OF TABLES

- Table 2.1Summary of Landing Point Construction Activities Undertaken during the
Reporting Period
- Table 2.2Summary of Current Environmental Licensing, Notification and Permit
Status
- Table 6.1Construction Works to Be Taken For the Next Reporting Week

LIST OF ANNEXES

- Annex A Proposed ASE Submarine Cable System (Layout Plan)
- Annex B Location of ASE Landing Point and Terrestrial Cable Route
- Annex C Completed Site Inspection Log
- Annex D Photographic Records on Site

EXECUTIVE SUMMARY

NTT Com Asia (NTTCA) proposes to install a telecommunication cable (Asia Submarine-cable Express (ASE) cable) of approximately 7,200 km in length, connecting Japan and Singapore with branches to the Philippines, Hong Kong SAR (HKSAR) and Malaysia. A Project Profile (PP-452/2011) which includes an assessment of the potential environmental impacts associated with the installation of the submarine telecommunications cable system was prepared and submitted to the Environmental Protection Department (EPD) under section 5.(1)(b) and 5.(11) of the Environmental Impact Assessment Ordinance (EIAO) for the application for Permission to apply directly for Environmental Permit (EP). The Environmental Protection Department, subsequently issued an Environmental Permit (EP-433/2011).

This is the **Fourth Weekly Site Inspection Report** that presents the findings of the site inspection and other EM&A activities undertaken during the period from **22** to **28 October 2012**.

Environmental Site Inspection

A weekly joint environmental site inspection was carried out by the representatives of the Contractor and the Environmental Team (ET). Environmental performance complied with the environmental requirements and all necessary mitigation measures were properly implemented.

Marine Mammal Observation (MMO)

Daily marine mammal exclusion zone monitoring was conducted on 22 – 24 October 2012 in the reporting week, as the cable installation barge reached the boundary of Hong Kong marine waters by the end of 24 October 2012. Every day prior to the start of cable installation, the qualified observer scanned the 250 m exclusion zone for at least 30 minutes to ensure no cetaceans in the exclusion zone. Otherwise, cable installation works should be delayed until they leave the exclusion zone. During the three days of MMO, no cetaceans were reported to have been observed within the 250 m exclusion zone.

Environmental Complaints, Non-compliance & Summons

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

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the coming reporting period include seawall duct work, land duct laying works, beach manhole construction and backfilling and restatement. Potential environmental impacts arising from these construction activities are mainly associated with marine water quality, dust, construction noise and waste management.

For the submarine cable installation part, cable laying works will be conducted from HKSAR boundary to China waters, which are out of the scope of the current EM&A.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by NTT Com Asia (NTTCA) as the Environmental Team to conduct regular site inspections and audit the implementation of all environmental monitoring and mitigation measures recommended in the Project Profile (PP) (Register No. PP – 452/2011) for the Proposed Asia Submarine-cable Express (ASE) – Tseung Kwan O (the Project).

1.1 PURPOSE OF THE REPORT

This is the **Fourth Weekly Site Inspection Report** (the Report), which summarises the inspection findings for the period from **22 October 2012** to **28 October 2012** and the implementation status of the EM&A recommendations on environmental protection and pollution control mitigation measures and monitoring.

1.2 STRUCTURE OF THE REPORT

The structure of the Report is as follows:

Section 1: Introduction

Details the scope and structure of the Report.

Section 2: Project Information

Summarises background and scope of the Project, site description, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3 : **Environmental Monitoring** Summarises the monitoring programmes as recommended in the PP and the monitoring undertaken during the reporting period.

Section 4 : **Site Inspection Results** Summarises the findings of the weekly site inspection undertaken within the reporting period.

Section 5 : **Environmental Non-conformance** Summarises any exceedances of environmental performance standard, environmental complaints and environmental summons received within the reporting period.

Section 6 : **Upcoming Works for the next Reporting Period** Summarises the impact forecast and monitoring schedule for the next reporting week.

Section 7: Conclusions

2.1 BACKGROUND

NTT Com Asia (NTTCA) proposes to install a telecommunication cable (Asia Submarine-cable Express (ASE) cable) of approximately 7,200 km in length, connecting Japan and Singapore with branches to the Philippines, Hong Kong SAR (HKSAR) and Malaysia. NTTCA is responsible for securing the approval to land the ASE cable in Tseung Kwan O, Hong Kong SAR (HKSAR). The proposed landing site will be at a new Beach Manhole (BMH) and ultimately connect with a Data Centre in Tseung Kwan O (TKO) Industrial Estate which is scheduled for completion in 2012. From Tseung Kwan O, the cable will extend eastward approaching the Tathong Channel. Near to Cape Collinson, the cable is approximately parallel to the Tathong Channel until north of Waglan Island where the cable travels eastward to the boundary of HKSAR waters where it enters the South China Sea. The total length of cable in Hong Kong SAR waters is approximately 33.5 km. A map of the proposed cable route is presented in *Annex A*.

A Project Profile (PP-452/2011) which includes an assessment of the potential environmental impacts associated with the installation of the submarine telecommunications cable system was prepared and submitted to the Environmental Protection Department (EPD) under section 5.(1)(b) and 5.(11) of the Environmental Impact Assessment Ordinance (EIAO) for the application for Permission to apply directly for Environmental Permit (EP). The Environmental Protection Department, subsequently issued an Environmental Permit (EP- 433/2011).

Under the requirements of Condition 2.4 of the EP, an EM&A programme as set out in the revised Environmental Monitoring and Audit Manual (EM&A Manual) is required to be implemented. The EM&A programme includes water quality monitoring, marine mammal observation, coral monitoring and weekly site inspection.

2.2 WORKS PROGRAMME AND WORKS LOCATIONS

The location of the cable installation works within the boundary of Hong Kong SAR waters is shown in *Annex A*, while the location of the landing point (ie new Beach Manhole (BMH) in TKO Industrial Estate) is shown in *Annex B*. The preliminary construction programme of the Project is given in *Figure 2.1*.

Figure 2.1 Preliminary Construction Programme

| | | Week | | | | | | | | | | |
|-------------------------------|---|------|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Submarine Cable Installation | | | | | | | | | | | | |
| Zone A | | | | | | | | | | | | |
| Zone B | | | | | | | | | | | | |
| Zone C | | | | | | | | | | | | |
| Outside Zone C to HK Boundary | | | | | | | | | | | | |
| Post-installation Works | | | | | | | | | | | | |
| Diver Jetting | | | | | | | | | | | | |
| Landing Point Construction | | | | | | | | | | | | |
| Preparation Work | | | | | | | | | | | | |
| Seawall Duct Work | | | | | | | | | | | | |
| Land Duct Laying | | | | | | | | | | | | |
| Beach Manhole Construction | | | | | | | | | | | | |
| Reinstatement | | | | | | | | | | | | |
| | | | | | | | | | | | | |

2.3 CONSTRUCTION ACTIVITIES

Submarine Cable Installation

The submarine-cable installation works started on 8 October 2012. By the end of the reporting period (ie 28 October 2012), cable laying works in Zone A, Zone B and Zone C had been finished and the cable installation barge reached the boundary of Hong Kong marine waters on 24 October 2012. The cable protection work will be performed for Zone A and Zone B at the later construction stage.

Landing Point Construction

The construction works of the landing point commenced on 4 October 2012 and are temporarily scheduled to be completed in early December of 2012. A summary of the major construction activities undertaken on the landing point during the reporting period is shown in *Table 2.1*.

Table 2.1Summary of Landing Point Construction Activities Undertaken during
Reporting Period

Construction Activities Undertaken

- Installation of G.I. pipe
- Filling and levelling the base of G.I. pipe
- Installation of steel mould for concreting
- Concrete pour
- Start reinstating armour rock

2.4 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in *Table 2.2*.

Table 2.2Summary of Current Environmental Licensing, Notification and Permit
Status

| Permit/ Licences/ | Reference | Validity Period | Remarks |
|--------------------------------------|--------------|---|--|
| Notification Environmental Permit | EP-433/2011 | Throughout the construction and operation of the Project | Permit granted on 20 December 2011 |
| Construction Noise Permit | GW-RE0774-12 | 18 Sep 2012 – 31 Jan 2013 | Permits granted on using of registered powered mechanical equipment for 07:00- 23:00 hrs on general holidays (including Sundays) and 19:00- 23:00 hrs on any day not being a general holiday for Sub-marine cable laying works of the Project |

3 ENVIRONMENTAL MONITORING

3.1 CABLE INSTALLATION WATER QUALITY MONITORING

Baseline water quality monitoring was completed by the end of September 2012. Baseline Water Quality Monitoring Reports for Zone A, Zone B and Zone C were submitted on 19 September 2012, 25 September 2012 and 1 October 2012, respectively.

Daily impact water quality monitoring was not conducted in the reporting period as no cable laying works in Zone A, Zone B and Zone C were involved from 22 October 2012 to 28 October 2012.

3.2 MARINE MAMMAL OBSERVATION (MMO)

Daily marine mammal exclusion zone monitoring is required to be conducted during the cable installation works taking place in daylight hours along the sections outside Zone A to Zone B (ie Zone C and from C to the boundary of HKSAR waters).

During the reporting period, the MMO was conducted on 22 – 24 October 2012, as the cable installation barge reached the boundary of Hong Kong marine waters by the end of 24 October 2012. Every day prior to the start of cable installation, the qualified observer scanned the 250 m exclusion zone for at least 30 minutes to ensure no cetaceans in the exclusion zone. Otherwise, cable installation works should be delayed until they leave the exclusion zone. During the three days of MMO, no cetaceans were reported to have been observed within the 250 m exclusion zone.

3.3 CORAL MONITORING

Baseline coral monitoring was completed in September 2012. The Baseline Coral Monitoring Survey Report was submitted on 28 September 2012. Postproject coral monitoring will be conducted within one month after completion of the jetting works, with the Post-project Coral Monitoring Survey Report to be submitted within one month after completion of the marine works. Impact monitoring for coral during cable installation works is not required under the Project.

In the week of 8 October 2012 when the cable installation barge passed the identified coral communities as presented in the *Baseline Coral Monitoring Survey Report*, the nearest distances between the barge and the identified coral communities in Zone A and Zone B were 230m and 270m respectively, indicating the cable alignment of more than 180m away from the identified coral communities as required in the Environmental Permit (EP- 433/2011).

3.4 SITE INSPECTION AND AUDIT

In accordance with the revised EM&A Manual, a weekly site inspection should be undertaken at the landing point (ie new Beach Manhole (BMH) in TKO Industrial Estate) to ensure that the appropriate environmental protection and pollution control mitigation measures are properly implemented in accordance with the Project Profile (PP-452/2011). Results of the site inspection in the reporting period are provided in *Section 4*. The weekly site inspection is required to be carried out by the representatives of the Contractor and the Environmental Team (ET). A Site Inspection Log is completed by the ET representative to record whether the Contractor is compliant with environmental regulations in terms of noise, water quality and housekeeping etc (*Annex C*).

During the reporting period, the site inspection was conducted on 26 October 2012 by the representatives of the Contractor and the ET. There was no non-compliance recorded during the site audit. Major findings and recommendations are summarised as follows:

- (i) A copy of EP was displayed conspicuously at the vehicular site entrance in accordance with the requirement of Condition 1.5 of the EP.
- (ii) A silt curtain was employed around the seawall area in order to reduce the dispersion of sediments from the landing site (*Annex D Photo No. 1*).
- (iii) Tarpaulin sheets were observed to have been used to cover the excavated materials and open stockpiles (for the part that was not actively used) to prevent dust generation or erosion (*Annex D Photo No.* 2).
- (iv) Rubbish bin has been provided by the Contractor (*Annex D Photo No. 3*) and the construction site was found to be largely clean and tidy with rubbish seldom seen on site.
- (v) Dark smoke was seen rising from the crane truck used to restore large boulders back to the opened sea wall (*Annex D Photo No. 4*). The Contractor was reminded to well maintain all plants and equipment on site. Dark smoke, which indicates inefficient combustion of fuel within the plant engine, should be avoided to minimise air pollution emission. Follow-up action actions by the Contractor will be check in the next week's site inspection.

4

5 ENVIRONMENTAL NON-CONFORMANCE

5.1 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance of PP/ EM&A/ EP/ legislative requirements was recorded during the reporting period.

5.2 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period.

5.3 SUMMARY OF ENVIRONMENTAL SUMMON AND SUCCESSFUL PROSECUTION

No summons was received during the reporting period.

6 FUTURE KEY ISSUES

6.1 KEY ISSUES FOR THE NEXT REPORTING PERIOD

Works to be taken for the next reporting period are summarised in *Table 6.1*.

Table 6.1Construction Works to Be Taken For the Next Reporting Week

Work to be taken

Submarine Cable Installation

• Cable laying works will continue from HKSAR boundary to China waters (out of the scope of the current EM&A)

Landing Point Construction

- Seawall duct work
- Land duct laying works
- Beach manhole construction
- Backfilling and reinstatement

Potential environmental impacts arising from the above construction activities are mainly associated with marine water quality, dust, construction noise and waste management.

6.2 MONITORING SCHEDULE FOR THE NEXT REPORTING PERIOD

Impact water quality monitoring will cease in next week and resume when the cable protection works using hand jetting are conducted in Zone A and Zone B at the later construction stage.

Next weekly site inspection is temporarily scheduled on 2 November 2012.

CONCLUSIONS

This **Fourth Weekly Site Inspection Report** presents the findings of the site inspection and other EM&A activities undertaken during the period from **22** to **28 October 2012**, in accordance with the PP (Register No. PP – 452/2011), revised EM&A Manual and the requirements of Environmental Permit (EP-433/2011).

Submarine-cable installation works/ jetting works were conducted outside Zone A, Zone B and Zone C and reached the boundary of HKSAR waters in the reporting period. No impact water quality monitoring was carried out in the reporting week.

Daily marine mammal exclusion zone monitoring was conducted on 22 – 24 October 2012 in the reporting week, as the cable installation barge reached the boundary of Hong Kong marine waters by the end of 24 October 2012. Every day prior to the start of cable installation, the qualified observer scanned the 250 m exclusion zone for at least 30 minutes to ensure no cetaceans in the exclusion zone. No cetaceans were reported to have been observed within the 250 m exclusion zone during the three days of MMO.

A weekly joint environmental site inspection was conducted on 26 October 2012 during the reporting period. It confirmed that the environmental mitigation measures recommended in the PP were properly implemented by the Contractor.

No non-compliance event was recorded during the reporting period.

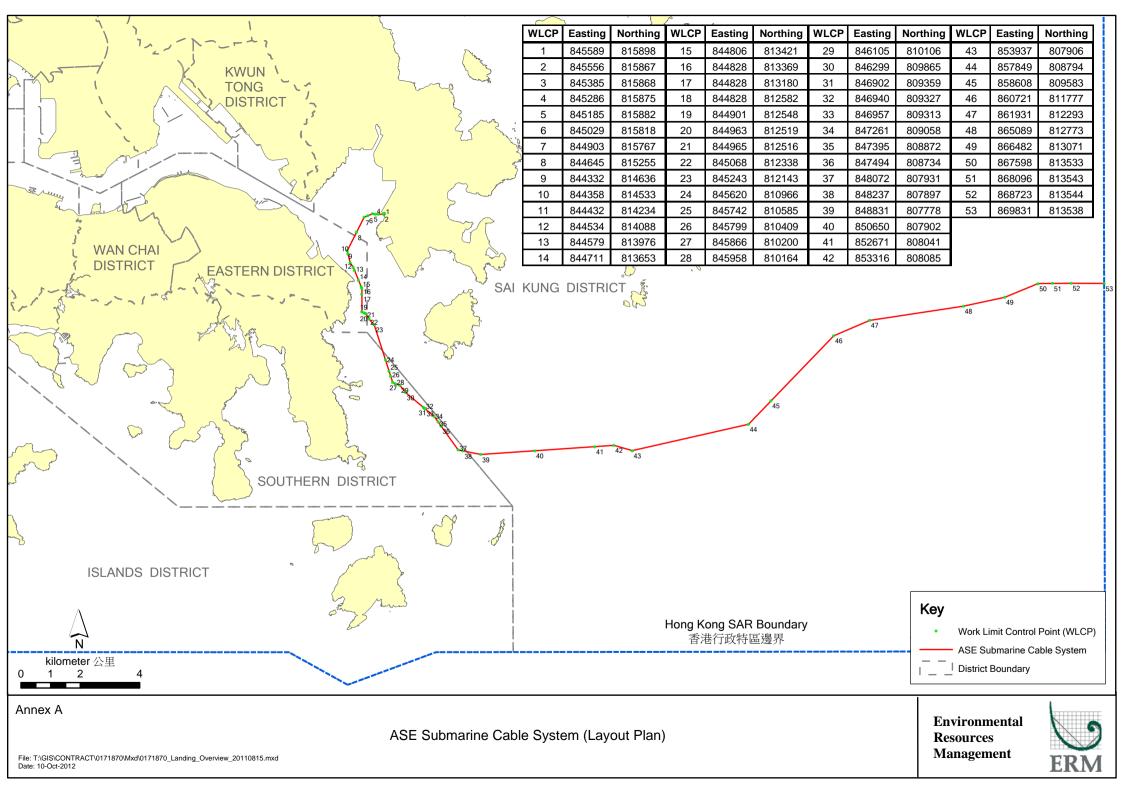
No complaint and summons/prosecution was received during the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

10

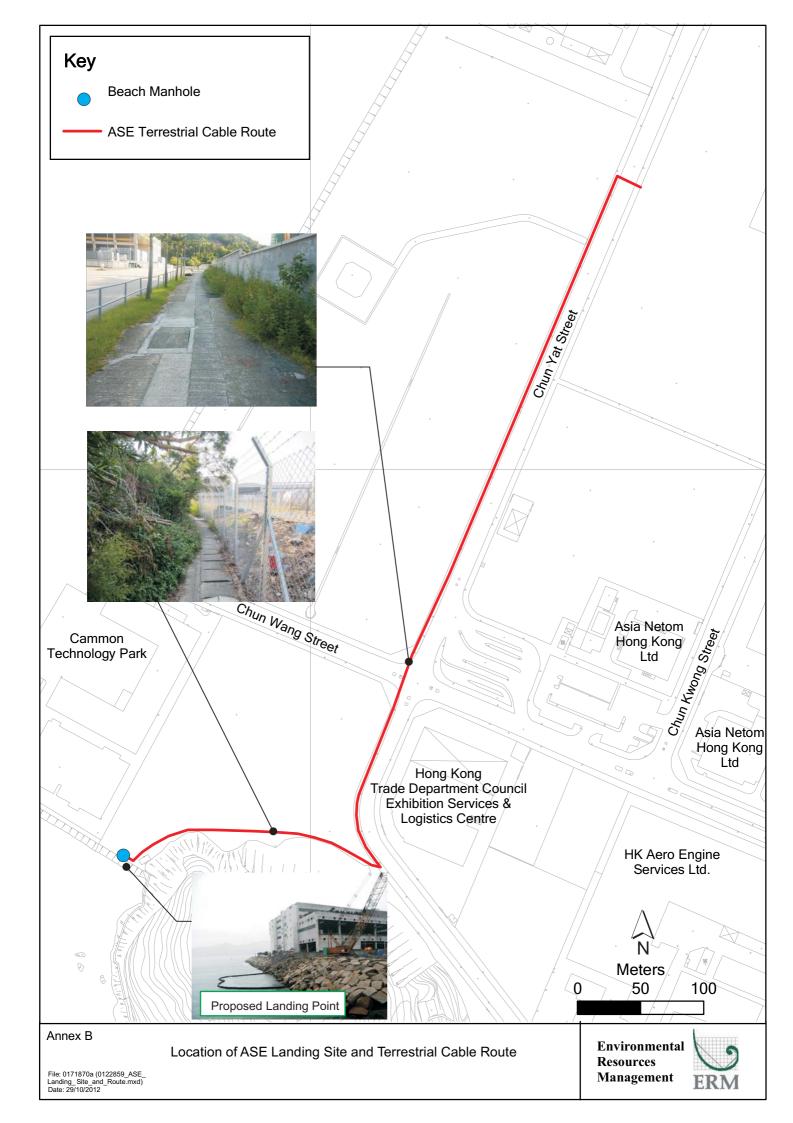
Annex A

Proposed ASE Submarine Cable System (Layout Plan)



Annex B

Location of ASE Landing Point and Terrestrial Cable Route



Annex C

Completed Site Inspection Log

| Site | Tseung Kwan O Landing Point | Inspected By: | | | | |
|------|--|--|--|--|--|--|
| Insp | ection Date: 26-Oct-12 Time: 14:00 - | Grace YANG 14:30 | | | | |
| We | ather | | | | | |
| Con | dition Sunny Fine Overcast Drizzle | ✓ Rain Storm Hazy | | | | |
| Tem | perature 28 °C Humidity ✓ High | Moderate Low | | | | |
| Win | d Calm ✓ Light Breeze Strong | | | | | |
| Α | Noise | N/A or Yes No Photo/Remarks not observed | | | | |
| A1 | Are all plant and equipment well maintained and in good operating condition? | See Note 1 | | | | |
| A2 | Is idle equipment turned off or throttled down? | | | | | |
| A3 | Are powered mechanical equipment covered or shielded by acoustic materials? | | | | | |
| A4 | Are silenced equipment used where practicable? | | | | | |
| A5 | Do mobile plants be sited as far away from NSRs as possible? | | | | | |
| A6 | Do plants known to emit noise strongly in one direction be oriented away from nearby NSRs? | | | | | |
| A7 | Major noise source(s) | ✓ Construction activities inside of site | | | | |
| A8 | Construction activities outside of site Any remedial action undertaken? | Others ✓ | | | | |

Site Inspection Log

| В | Water Quality | | N/A or not observed | Yes | No | Photo/Remarks |
|-----|---|--------------------------------|------------------------|--------------|--------------|--------------------------|
| B1 | Is drainage system adequate? | | \checkmark | | | B1 - B10: |
| | Are there temporary ditches for runoff dis | scharge into appropriate | | | | |
| B2 | Watercourse? | | \checkmark | | | Silt curtain was |
| В3 | With silt retention pond? | | \checkmark | | | employed in front of |
| B4 | Do permanent drainage channels have: | sediment basin? | \checkmark | | | the new beach manhole. |
| B5 | | traps and baffles? | \checkmark | | | |
| B6 | Are there sediment tanks for settling rund | off prior to disposal? | \checkmark | | | |
| B7 | Are there oil interceptors in drainage sys | tem? | \checkmark | | | |
| B8 | Oil and grease removed regularly? | | \checkmark | | | |
| B9 | Bypass to prevent flushing during p | eriods of heavy rain? | \checkmark | | | |
| B10 | Is drainage system well maintained? | | \checkmark | | | |
| B11 | Is exposed earth stabilized after earthwo | rks have been completed? | \checkmark | | | Not completed yet. |
| B12 | Are exposed slope surfaces covered (by | tarpaulin or other means)? | \checkmark | | | |
| B13 | Are open stockpiles of more than 20 $\ensuremath{\text{m}^3}$ | covered during rainstorm? | | \checkmark | | |
| B14 | Are manholes covered and sealed? | | \checkmark | | | |
| | Rainy Season | | | | | |
| B15 | Drainage system adequately desigr | ned for storm flow? | \checkmark | | | B15 & B16: Inspection |
| B16 | Sediment control measures inspect rain storms? | ed and maintained after | \checkmark | | | conducted in dry season. |
| B17 | Is debris and rubbish on site collected ar | d disposed of properly? | | \checkmark | | |
| B18 | Is wastewater discharge license available | e for inspection? | \checkmark | | | |
| B19 | Measures to prevent the washing away of | of sand/silt to drains? | \checkmark | | | |
| B20 | Is there any sediment plume observed ex | kisting the marine works area? | | | \checkmark | |

Asia Submarine-cable Express (ASE) - Tseung Kwan O

C Environmental Complaint

| C1 | Number of Environmental Complaint Received from 22-Oct-12 | to <u>28-Oc</u> | t-12 | 0 | |
|----|--|------------------------|------|----|---|
| D | General / Housekeeping | N/A or not observed | Yes | No | Photo/Remarks |
| D1 | Are potential stagnant pools cleared and mosquito breeding prevented? | \checkmark | | | Not applicable due to rain during insepction. |

| Items for Inspection |
|---|
| Sea wall opening point / new beach manhole; Land duct construction site; and Storage area for construction materials. |
| Notes / Issues Recorded On Site |
| 1. Dark smoke was seen rising from the crane truck used to restore large boulders back to the opened sea wall. The Contractor was reminded to well maintain all plants and equipment on site. Dark smoke, which indicates inefficient combustion of fuel within the plant engine, should be avoided to minimise air pollution emission. |

Corrective Actions

Follow-up actions by the Contractor will be checked in next week's site inspection.

)

Signatures: ET:

-..

(Name: Grace YANG

Annex D

Photographic Records on Site



Photo 1 - A silt curtain was employed around the seawall area.



Photo 3 - A rubbish bin was provided by the Contractor.



Photo 2 - Tarpaulin sheets were observed to have been used to cover excavated materials for the part that was not actively used.



Photo 4 – Dark smoke was seen rising from the crane truck used to restore large boulders to the opened sea wall.

ERM has over 100 offices Across the following countries worldwide

| Argentina | Malaysia |
|------------|-----------------|
| Australia | Mexico |
| Azerbaijan | The Netherlands |
| Belgium | Peru |
| Brazil | Poland |
| Canada | Portugal |
| Chile | Puerto Rico |
| China | Russia |
| Colombia | Singapore |
| Ecuador | South Africa |
| France | Spain |
| Germany | Sweden |
| Hong Kong | Taiwan |
| Hungary | Thailand |
| India | UK |
| Indonesia | US |
| Ireland | Vietnam |
| Italy | Venezuela |
| Japan | |
| Kazakhstan | |
| Korea | |
| | |

ERM's Hong Kong Office

16/F DCH Commercial Centre 25 Westlands Road Quarry Bay, Hong Kong T: 2271 3000 F: 2723 5660

www.erm.com

