香港青年協會
the hongkong federation of youth groups

# Phase III Redevelopment of The Hong Kong Federation of Youth Groups Jockey Club Sai Kung Outdoor Training Camp

## *Environmental Monitoring and Audit Report for October 2013*








**Ecosystems Limited**
生態系統顧問有限公司
2/F, Kingsun Computer Building,
40 Shek Pai Wan Road,
Aberdeen, Hong Kong
香港香港仔石排灣道 40 號金山電腦大廈 2 樓
Tel. 電話: (852) 25530468
Fax 傳真: (852) 25529191
Email 電郵: ecosys@pacific.net.hk

| | Name | Signature | Date |
|---|---|---|---|
| Prepared by | Mee-Ling Yau |  | 8/11/2013 |
| Checked by<br>ET Leader | Vincent Lai |  | 8/11/2013 |
| Verified by<br>IEC | Grace Kwok |  | 14/11/2013 |

**Issues and Revision Record**

| Issue | Date | Description |
|---|---|---|
| 1 | 8 Novermber2013 | Draft Issue |
| 2 | 14 November 2013 | Revised Issue |

# CONTENTS

**Page**

1. BASIC PROJECT INFORMATION ..... 1
   1.1 Project Background ..... 1
   1.2 Project Organisation and Management ..... 1
   1.3 Purpose of the Report ..... 2
2. MONITORING AND AUDIT REQUIREMENT ..... 2
   2.1 Noise, Air and Water Quality ..... 2
   2.2 Landscape and Visual ..... 2
   2.3 Ecology ..... 3
   2.4 Waste Management ..... 3
   2.5 Site Inspections ..... 3
3. SUMMARY OF WORK ACTIVITIES AND CONSTRUCTION STATUS ..... 4
   3.1 Works Undertaken during the Month ..... 4
   3.2 Construction Activities for the coming month ..... 4
4. LANDSCAPE AND VISUAL ..... 5
   4.1 Tree Protection and Transplanting ..... 5
5. ECOLOGY ..... 6
   5.1 Monitoring of Transplanted Incense Trees ..... 6
   5.2 Mangrove Monitoring ..... 6
   5.3 Off-Site Woodland Compensatory Planting ..... 6
6. ENVIRONMENTAL AUDITING ..... 8
   6.1 Site Inspections ..... 8
7. SUMMARY OF ENVIRONMENTAL PERMIT AND LICENSES ..... 9
8. CUMULATIVE LOG OF COMPLAINTS AND REMEDIAL ACTION ..... 10
9. CUMULATIVE LOG OF NOTIFICATION OF SUMMONS AND PROSECUTIONS ..... 10
10. FUTURE KEY ISSUES ..... 11
    10.1 Key Issues for Coming Month ..... 11
    10.2 EM&A Schedule for the Coming Month ..... 11
11. CONCLUSIONS AND RECOMMENDATIONS ..... 11

**LIST OF TABLES**

Table 3.1 Works Activities in October 2013
Table 3.2 Anticipated Construction Programme in November 2013 and Potential Environmental Issues
Table 6.1 Summary of Waste Disposal in the Reporting Month
Table 7.1 Summary of Status of Environmental Permits/Licenses

**LIST OF FIGURES**

Figure 1.1 Site Location Plan
Figure 1.2 Master Layout Plan
Figure 4.1 Location Plan for the Transplanted *Aquilaria sinensis*
Figure 4.2 Amended On-Site Compensatory Woodland Planting Plan - Schedule of Drawings
Figure 5.1 Mangrove Compensatory Planting Site and Sampling Locations
Figure 5.2 Tree Whip Planting Plan for Off-Site Woodland Compensatory Planting at Lui Ta Shek
Figure 5.3 Planting Schedule for Off-site Woodland Replacement Planting at Lui Ta Shek

**LIST OF APPENDICES**

Appendix A Tentative Construction Programme
Appendix B Key Contact Persons, Phone Numbers and Key Personnel
Appendix C Project Organisation
Appendix D Event and Action Plan for Landscape and Visual Impact - Construction Phase
Appendix E Event and Action Plan for Ecological Impact - Construction Phase
Appendix F Implementation Schedules for Mitigation Measures
Appendix G Monitoring Schedule for October 2013 and Weather Conditions during the Monitoring Period
Appendix H Summary of Site Inspection, Outstanding Issues and Deficiencies
Appendix I Cumulative Log of Complaints and Summons/Prosecutions
Appendix J Tentative Monitoring Schedule for November 2013

# Executive Summary

This is the twenty-eighth monthly Environmental and Audit (EM&A) Report for the project "Phase III Redevelopment of The Hong Kong Federation of Youth Groups Jockey Club Sai Kung Outdoor Training Camp" (Further Environmental Permit Nos. FEP-01/410/2010 and FEP-02/410/2010 and Variation of Environmental Permit No. EP-02/410/2010/A).

This report contains the results and findings of impact monitoring for the activities undertaken during the period of 1 October to 31 October 2013.

The site activities in the reporting period mainly consisted of site clearance and landscape and on-site woodland compensatory planting) at both canteen and dormitory section. The amended On-Site Woodland Compensatory Planting Plan was submitted to EPD on 25 September 2013 and approved on 11 October 2013. Weekly site inspections and landscape and visual monitoring were performed.

Implementation status of environmental mitigation measures, event/action plan and environmental complaint handling procedures were inspected during weekly site environmental audit. There was no complaint, notification of any summons and successful prosecutions against the project received during the reporting period.

The planned activities for November 2013 with regarding to construction consist of:

- Landscape and on-site woodland compensatory planting

It is anticipated that all the construction work will be completed in November 2013.

# 1. BASIC PROJECT INFORMATION

## 1.1 Project Background

1.1.1 The project "Phase III Redevelopment of The Hong Kong Federation of Youth Groups Jockey Club Sai Kung Outdoor Training Camp (hereinafter referred to as the "Project") is to redevelop the existing Jockey Club Sai Kung Outdoor Training Camp and increase the number of dormitories and canteen capacity in order to meet the increasing public demand. The Project Site is located at the southern extremity of Tai Mong Tsai, at the foothill of Cheung Shan and is accessed via Tai Mong Tsai Road. The Site Location Plan is shown in **Figure 1.1.**

1.1.2 The Project includes four major components: construct seven dormitory buildings comprising a total of 19 units on the lower portion of the slope southeast of the existing buildings; construct a new canteen block at the centre of the camp comprising a dining hall, a cafeteria, activity rooms and a drop off point for arrival of visitors; construct of two platform decks for outdoor activities; and construct a new wastewater treatment and reuse system. During the detailed design stage, the footprint of the new canteen block is slightly reduced, the total number of dormitory buildings is cut down to six, while only one platform deck (Deck A) will be constructed due to budgetary concerns. The new wastewater treatment system has also been located inside the existing sewage treatment plant, and therefore no new plant room is required. The Master Layout Plan is shown in **Figure 1.2**.

1.1.3 An Environmental Impact Assessment (EIA) study has been undertaken under the EIA Ordinance (Cap. 499) to provide information on the nature and extent of environmental impacts arising from the construction of the Project and was approved without conditions (AEIAR-157/2010) on 17 December 2010. An Environmental Permit (EP-410/2010) (EP) for the Project was granted to the Project Proponent, The Hong Kong Federations of Youth Groups on 10 January 2011. Under the requirements of Condition 4 of the EP, an Environmental Monitoring and Audit (EM&A) programme as set out in the EM&A Manual is required to be implemented. A Further Environmental Permit (FEP-01/410/2010) for the Project was granted on 5 January 2012 to the foundation contractor, Konwall Construction & Engineering Co., Ltd., who would take up the responsibility of the foundation and site formation works of the Project. Another Further Environmental Permit (FEP-02/410/2010) for the Project was granted on 19 July 2012 to the main contractor Fat Cheong (Hong Kong) Construction Co. Ltd., who would take up the responsibility of the remaining foundation and site formation works and superstructure works of the Project. Two Variation of Environmental Permits (EP/410/2010/A; EP-02/410/2010/A) (VEP) were granted to HKFYG and the main contractor respectively on 27 March 2013 to extend the construction period of Platform Deck A to 31 May 2013.

## 1.2 Project Organisation and Management

1.2.1 The foundation contract for the Project was awarded to Konwall Construction and Engineering Co. Ltd. (Foundation Contractor) in June 2011 by the Project Proponent, The Hong Kong Federations of Youth Groups. The foundation works was anticipated to complete in 8 months followed by superstructure works under a separate contract. Due to technical issues, the foundation work at the Canteen Section was extended to September 2012. Meanwhile, the

superstructure contract for the Project was awarded to Fat Cheong (Hong Kong) Construction Co. Ltd. (Main Contractor) in June 2012. The Main Contractor commenced the work at the Dormitory Section first followed by Canteen Section after the hand-over of the site by the Foundation Contractor in September 2012. The revised tentative Construction Programme is shown in **Appendix A**. During the reporting month, the Foundation Contractor, Konwall Construction and Engineering Co. Ltd., was on site to carry out the remaining works as agreed in their contracts, including reinstatement work at the Dormitory Section.

1.2.2 The Project Proponent has commissioned Ecosystems Ltd. as the Environmental Team (ET), which comprises the environmental team leader and the environmental technicians to undertake the environmental monitoring and audit work for this Project.

1.2.3 The Project Proponent has also commissioned Allied Environmental Consultants Ltd. as the Independent Environmental Checker (IEC) for the Project.

1.2.4 The contact person and telephone number of key personnel for the Project are shown in **Appendix B**.

1.2.5 The project organisation for environmental management is shown in **Appendix C**.

### 1.3 Purpose of the Report

1.3.1 This is the twenty-eighth monthly EM&A Report prepared for the Project, pursuant to Condition 4.4 of the EP and FEP and the EM&A Manual issued for the Project. The report presents a summary of the EM&A works and lists of activities in October 2013 (from 1 October to 31 October 2013).

## 2. MONITORING AND AUDIT REQUIREMENT

### 2.1 Noise, Air and Water Quality

2.1.1 According to the EM&A Manual, no quantitative measurement of air, water or noise parameters are required. Upon commencement of construction, weekly site audits will be implemented to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented (see Chapter 6 – Environmental Auditing).

### 2.2 Landscape and Visual

2.2.1 According to the EM&A Manual, monitoring and audit should be undertaken during the construction phase of the Project to ensure and check that the implementation and maintenance of landscape and visual mitigation measures are being properly carried out. Site inspections should be undertaken at least once every two weeks through the construction period to ensure the existing trees retained on-site are being well preserved, tree transplanting and felling operations are being undertaken in accordance with the requirements, procedures and specifications as stipulated in the contract and the approvals granted by concerned authorities, and all the newly planted vegetation are being maintained properly during the establishment period. In particular, the extent of the agreed works areas should be regularly checked during the construction phase. Any trespass by the Contractor outside the limit of the

works, including any damage to existing trees, woodland and vegetation should be noted.

2.2.2 Contractor's submission and proposals on tree protection and transplanting should be reviewed, and the Contractor's landscape works should be monitored and audited.

2.2.3 Should non-compliance of the landscape and visual impacts occur, actions in accordance with the action plan stated in **Appendix D** should be carried out.

## 2.3 Ecology

2.3.1 According to the EM&A Manual, construction phase ecological monitoring includes the followings:

2.3.2 Inspect the transplanted individuals of *Aquilaria sinensis* the first three months after transplanting and quarterly thereafter for two years. Survival and growth should be observed and recorded with photo records.

2.3.3 Oversee the mangrove compensatory planting activities and monitor survival and growth of the mangroves quantitatively and monthly for the first three months and quarterly thereafter for one year. The mangrove seedlings planted at each stand will be sampled, and height and percentage survival measured.

2.3.4 Carry out site inspection for both on-site and off-site compensatory tree planting monthly for the first three month after planting and quarterly thereafter for two years. Survival and growth of representative species should be observed and recorded with photo records.

2.3.5 Weekly site inspections to ensure compliance of all construction activities with all appropriate environmental protection and pollution control measures which would in turn also safeguard the ecology of the Project Site.

2.3.6 Should non-compliance of the ecological impacts occur, actions in accordance with the action plan stated in **Appendix E** should be carried out.

## 2.4 Waste Management

2.4.1 According to the EM&A Manual, the weekly site inspections should include waste management issues to ensure compliance of all construction activities with all appropriate environmental protection and pollution control measures, including those set up in the Environmental Management Plan prepared by the main contractor. Waste management audit will also be carried out as part of the monthly audit by the IEC.

## 2.5 Site Inspections

2.5.1 According to the EM&A Manual, weekly site inspections should be conducted to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented. The Implementation Schedule of Mitigation Measures is attached in **Appendix F**.

2.5.2 The monitoring schedule for the reporting month and the weather conditions recorded during the monitoring period are shown in **Appendix G**.

# 3. SUMMARY OF WORK ACTIVITIES AND CONSTRUCTION STATUS

## 3.1 Works Undertaken during the Month

3.1.1 Works activities have been commenced in the month of October 2013. Application of Occupation Permit (OP) for platform deck was approved on 3 September 2013 and that for canteen and dormitory was approved on 3 and 17 September 2013. Weekly site inspections and landscape and visual monitoring were performed. A summary of works activities, locations, and dates of occurrence in October 2013 is provided by the Contractors, as shown in **Table 3.1**. Weekly site inspections were conducted on 2, 11, 17, 23, and 30 October 2013.

**Table 3.1 Works Activities in October 2013**

| Item | Work Activities & Location | Date of Occurrence |
|---|---|---|
| 1 | Site Clearance – Canteen, Dormitory | 1 October – 31 October 2013 |
| 2 | Landscape and on-site woodland compensatory planting – Canteen, Dormitory | 1 October – 31 October 2013 |

## 3.2 Construction Activities for the coming month

3.2.1 The Contractors have provided an updated construction programme in **Table 3.2** to show the planned activities for the coming month. No PME would be used during the stated landscape and planting works. Potential environmental issues are not anticipated.

**Table 3.2 Anticipated Construction Programme in November 2013 and Potential Environmental Issues**

| Item | Works | Potential Environmental Issues |
|---|---|---|
| 1 | Landscape and woodland compensatory planting | '- |

3.2.2 It is anticipated that all the construction work will be completed in November 2013.

# 4. LANDSCAPE AND VISUAL

## 4.1 Tree Protection and Transplanting

4.1.1 The Tree Protection and Transplantation Plan was submitted to EPD on 14 March 2011, pursuant to Condition 3.3 of the EP and FEP.

4.1.2 All trees at the Dormitory and the Canteen Site were labelled according to the approved tree removal applications with blue (retained), red (fell) and yellow (transplanted) ribbons. These included the 3 nos. of Incense Trees to be retained and 5 nos. of Incense Tree to be transplanted[1]. Tree felling at the Canteen Block and Dormitory area has been commenced and completed.

4.1.3 Tree protection measures including construction of chain link fence at the Canteen Block area were completed in August 2011. Hoarding and tree protection work in the Dormitory area were completed in March 2011. During site inspection, the contractor was also reminded of proper tree protection measures such as carrying out remedial measures on retained trees with poor conditions. Inspection of the tree protection measures will continue.

4.1.4 Transplantation of the 5 trees was completed on 12 March 2012. Tree protection fence for the transplanted trees was installed after. The locations of the transplanted trees were fine-tuned in according to the site conditions and are shown in **Figure 4.1**.

4.1.5 No trespass by the Contractor outside the limit of the works, including any damage to existing trees, woodland and vegetation, was noted.

4.1.6 The On-Site Woodland Compensatory Planting Plan was submitted to EPD on 11 September 2012 pursuant to Condition 3.3 of the EP and FEP and was approved on 14 September 2012. An amended On-Site Woodland Compensatory Planting Plan was submitted to EPD on 25 September 2013 and approved on 11 October 2013. **Figure 4.2** shows the approved amended plan and planting specification. Planting has been commenced in October 2013 and is anticipated to be completed in November 2013.

[1] The label of the Incense tree TR776 reported dead during the baseline report was found to be swapped with another tree TR775 nearby. The tree label was therefore rectified and total number of transplanted Incense Tree remained to be five (i.e. TR775, TR 766, TR 643, TR 639 and TR 644). After the transplantation exercise, TR643 was identified as Cochin-china Homalium during the site inspection in April 2012. Therefore the transplantation record is further rectified to include 4 no. of Incense Tree (TR775, TR 766, TR639 and TR644) and one no. of Cochin-china Homalium (TR 643).

# 5. ECOLOGY

## 5.1 Monitoring of Transplanted Incense Trees

5.1.1 Transplantation of the Incense Trees *Aquilaria sinensis* was completed on 12 March 2012. Transplanted tree monitoring was conducted monthly for the first three months from March to May 2012 and then will be conducted quarterly for two years. Monitoring was conducted in 22 August 2013 and will continue in November 2013 to check the status of the trees.

## 5.2 Mangrove Monitoring

5.2.1 The Mangrove Planting Plan was submitted to EPD on 11 March 2011, pursuant to Condition 3.3 of the EP and FEP. The Planting Plan was approved on 23 March 2011.

5.2.2 Planting was commenced and completed on 29 April 2011. About 1243 droppers of *Kandelia obovata* were planted on about 0.01 ha of sandflat following the protocol in the mangrove planting plan under the supervision of the ET. The planting area was further fine-tuned to avoid rocky/shallow substrate to enhance the survival (**Figure 5.1)**.

5.2.3 Mangrove monitoring was conducted monthly for the first three months from June to August 2011 and then quarterly for one year. Monitoring results of compensatory mangrove planting in February 2012 show that survival and growth of mangrove seedlings was low. Since no mangrove loss caused by the Project is anticipated due to deletion of Platform Deck B in the revised Master Layout Plan, replanting of mangrove is not considered necessary. Mangrove planting however was carried out as part of the nature conservation education programme on 25 April 2012. About 1130 droppers were planted.

5.2.4 The last session of monitoring was conducted on 23 August 2012. Monitoring results showed that both growth and survival was stabilized. Mangrove monitoring is completed and planting will be implemented as a conservation education programme from time to time.

## 5.3 Off-Site Woodland Compensatory Planting

5.3.1 The Tree Whip Planting Plan for Off-Site Woodland Compensatory Planting at Lui Ta Shek was submitted to EPD on 14 March and 27 April 2011, pursuant to Condition 3.3 of the EP and FEP. **Figure 5.2** shows the approved plan and planting specification.

5.3.2 Planting was commenced and was reported to be completed by the landscape contractor on 13 June 2011. Monitoring was conducted on monthly basis from July to September 2011. Due to poor condition of the plantings, and according to the Event and Action Plan for Ecological Impact (**Appendix E**), actions due to non-compliance were taken in accordance with the action plan. Monitoring was increased to monthly in October and November 2011. IEC was informed. The landscape contractor was informed regarding the situation and reminded of the required remedial and maintenance work. It was reported with photo records by the landscape contractor that firming up for the seedlings was conducted in November 2011. A remedial action proposal including replacement planting in April 2012 was submitted to the Project Proponent. Due to issues of sourcing, the planting exercise was rescheduled to 28 June 2013 and inspected by the Project Landscape Architect, ET and IEC. It was

reported to be completed on 29 June 2013. Three species of whips, *Schima superba, Machilus breviflora* and *Sterculia lanceolata* were planted at the same location. The tree planting schedule is shown in **Figure 5.3**.

5.3.3 The last session of monitoring according to the EM&A requirement was conducted on 22 August 2013 to check the growing conditions of the plants. Due to poor conditions of some replacement plantings, and according to the Event and Action Plan (**Appendix E**), remedial actions were discussed with IEC and the landscape contractor, who will further replant 1200 nos. tree whips. Monitoring will continue until rectification is completed.

# 6. ENVIRONMENTAL AUDITING

## 6.1 Site Inspections

6.1.1 The site inspections were conducted on 2, 11, 17, 23 and 30 October 2013. The monthly Site Safety and Environmental Management Committee (SSEMC) site meeting and inspection audit with the Contractor, Project Proponent, Project Architect and IEC was carried out on 23 October 2013. A detailed checklist of each site inspection together with comments, relevant photos and maps have been filed and kept. The findings and results of site inspections are summarized in **Appendix H**.

Water Quality

The Contractor was reminded to maintain and monitor the performance of the drainage to ensure that these facilities function properly. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly.

Waste Management

As the superstructural works are completed, the Contractor was reminded to remove all the construction waste and to implement good housekeeping practices before site hand over. It is the Contractor's responsibility to ensure that all wastes produced during the construction phase for the Project are handled, stored and disposed of in accordance with good waste management practices and EPD's regulation and requirement. Waste materials generated during construction activities, such as construction and demolition (C&D) material and general refuse were inspected during weekly site audit by ET to ensure that proper storage, transportation and disposal practices are being implemented.

The waste generation and disposal in reporting month is summarized in Table 6.1. The contractor was reminded to dispose the observed waste generated and accumulated on site on a timely manner.

Others

As the superstructural works are completed, temporary tree protection fence could be removed by contractor. The contractor was reminded to remove the remaining tree protection fences outside the site boundary. The contractor was still recommended to check the health condition of the concerned trees.

**Table 6.1 Summary of Waste Disposal in the Reporting Month**

| Type of Waste | Disposal Site | Disposed Quantity | Remark |
|---|---|---|---|
| Non-Inert C&D Waste | SENT Landfill | 2.21 tonnes | Mixed Construction Waste; General Refuse |
| Inert C&D Waste | - | - | - |

Landscape and Visual Environment

6.1.2 Generally, the Contractor had provided proper landscape and visual mitigation measures during inspection.

## 7. SUMMARY OF ENVIRONMENTAL PERMIT AND LICENSES

7.1.1 ET has checked with the Project Proponent for the status of all environmental permits and licenses for this project as of October 2013, which is summarized in **Table 7.1** below. The Contractors are also reminded of surrendering the licenses or permits which are no longer in use.

**Table 7.1 Summary of Status of Environmental Permits/Licenses**

| Description | License/Permit/ Acc. No. #/Letter Ref. No. | License/ Permit Holder* | Date of Issue | Date of Expiry | Status/ Remarks |
|---|---|---|---|---|---|
| Environmental Permit | Permit No. EP-410/2010 | HKFYG | 10 Jan 2011 | - | Issued |
| AFCD Letter for Works Partly Within Sai Kung Country Park | (3) AF GR CPDA SKW/33/2005<br><br>(14) AF GR CPDA SKW/33/2005 Pt.5<br><br>(10)AF GR CPDA SK W/33/2005/ Pt.6 | HKFYG | 6 Sep 2013 | 30 November 2013 (extended) | Issued |
| Tree Removal Applications | (18) in LM(3) to DLO/SK SX 1557(Pt. 5) | HKFYG | 3 May 2011 | - | Approved |
| Billing Account for Disposal of Construction Waste | 7013108 | KCE | 30 Jun 2011 | - | Issued |
| Registration of Chemical Waste Producer | WPN No. 5113-811-K2905-05 | KCE | 7 Jul 2011 | - | Completed |
| WPCO Effluent Discharge License | WT00009985-2011 | KCE | 26 Oct 2011 | 31 Oct 2016 | Issued |
| Further Environmental Permit | FEP-01/410/2010 | KCE | 5 Jan 2012 | - | Issued |
| Billing Account for Disposal of Construction Waste | 701548525 | FC | 3 July 2012 | - | Issued |
| Registration of Chemical Waste Producer | 346354 | FC | 10 July 2012 | - | Issued |
| WPCO Effluent Discharge License | WT00013343-2012 | FC | 4 Oct 2012 | 31 Oct 2017 | Expired |
| WPCO Effluent Discharge License | WT00014684-2012 | FC | 28 January 2013 | 31 Oct 2017 | Issued |
| Further Environmental Permit | FEP-02/410/2010 | FC | 19 July 2012 | - | Issued |
| Variation of Environmental Permit | EP-410/2010/A | HKFYG | 27 March 2013 | - | Issued |
| Variation of Environmental Permit | EP-02/410/2010/A | FC | 27 March 2013 | - | Issued |
| WPCO Effluent Discharge License | WT00016060-2013 | HKFYG | 1 Aug 2013 | 31 Dec 2015 | Issued |

*HKFYG = The Hong Kong Federation of Youth Groups;
KCE = Konwall Construction and Engineering Co. Ltd.
FC = Fat Cheong (Hong Kong) Construction Co. Ltd.

## 8. CUMULATIVE LOG OF COMPLAINTS AND REMEDIAL ACTION

8.1.1 There was no complaint received in association with installation activities in the month. The cumulative log of complaints is referred in **Appendix I**.

## 9. CUMULATIVE LOG OF NOTIFICATION OF SUMMONS AND PROSECUTIONS

9.1.1 No notification of summons or prosecutions were received or made against the Project in the month. The cumulative log of summons and prosecutions is referred in **Appendix I**.

# 10. FUTURE KEY ISSUES

## 10.1 Key Issues for Coming Month

10.1.1 As the only remaining work item is landscape and on-site woodland compensatory planting, no environmental key issues are anticipated.

## 10.2 EM&A Schedule for the Coming Month

10.2.1 The tentative schedule for environmental monitoring and audit for the next month is provided in **Appendix J**.

# 11. CONCLUSIONS AND RECOMMENDATIONS

11.1.1 Tree protection measures were implemented and some rectified. Transplantation of the Incense Trees was completed on March 2012. Monitoring results in August 2013 showed that the transplanted trees were in fair to poor conditions. The project proponent has notified the landscape contractor to carry out remedial actions. Monitoring will continue in November 2013 as scheduled.

11.1.2 Monitoring results of off-site woodland compensatory and replacement planting in August 2013 at Lui Ta Shek ranged from fair to poor. According to the Event and Action Plan (Appendix E), remedial actions were discussed with IEC and the landscape contractor, who will further replant 1200 nos. tree whips. Monitoring will continue until rectification is completed.

11.1.3 Generally, air, water quality and noise level during the reporting period were satisfactory. As the superstructural works are completed, the Contractor was reminded to remove all the construction waste and to implement good housekeeping practices before site hand over.

11.1.4 There were no notifications of summons recorded during the reporting period. Furthermore, there were not any formal prosecution and complaints recorded.

11.1.5 It is anticipated that the construction phase will be completed upon completion of planting in November 2013. It is recommended that weekly site inspection will terminate upon completion of on-site planting. The ET will continue to implement the environmental monitoring & audit programme for the remaining items, including ecological monitoring of transplanted trees, on-site woodland compensatory planting, and replacement planting at off-site woodland compensatory planting site in accordance with the EM&A Manual and Environmental Permit requirement.

# FIGURES

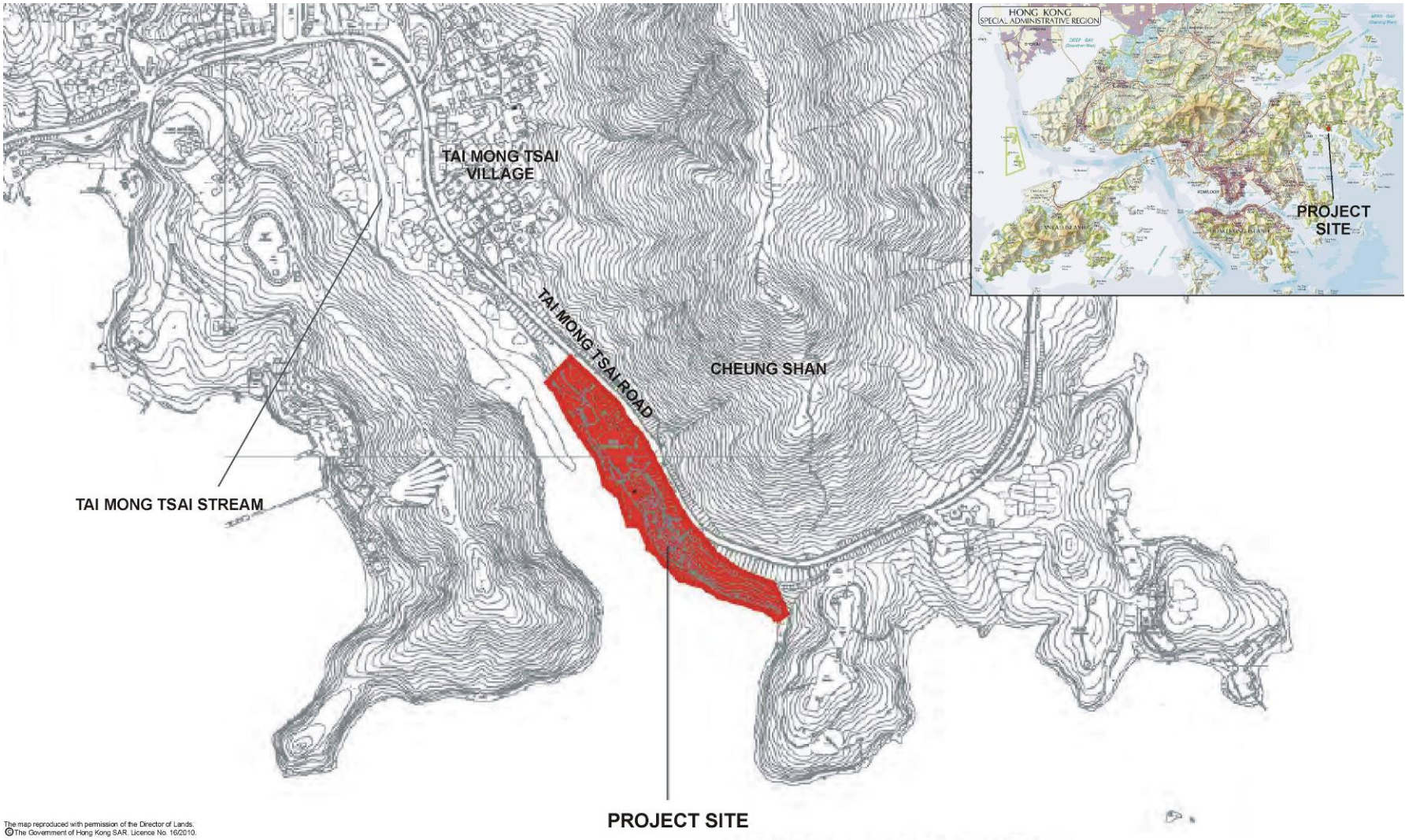
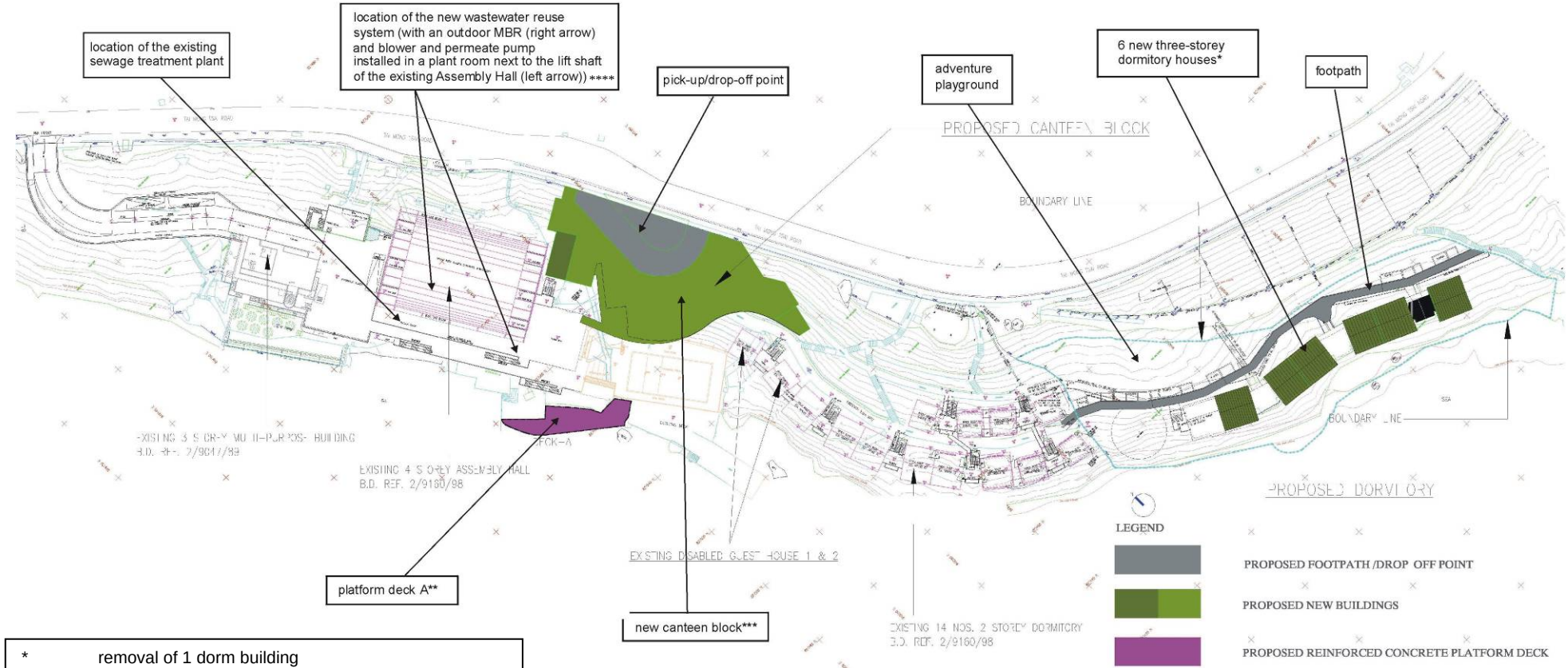



**Figure 1.1 Site Location Plan**




| | |
|---|---|
| * | removal of 1 dorm building |
| ** | removal of platform Deck B |
| *** | reduction of size of canteen block |
| **** | installation of new wastewater treatment and reuse system inside existing sewage treatment plant and no new plant room required. |

**Figure 1.2 Master Layout Plan**




**Figure 4.1 Location Plan for the Transplanted *Aquilaria sinensis***

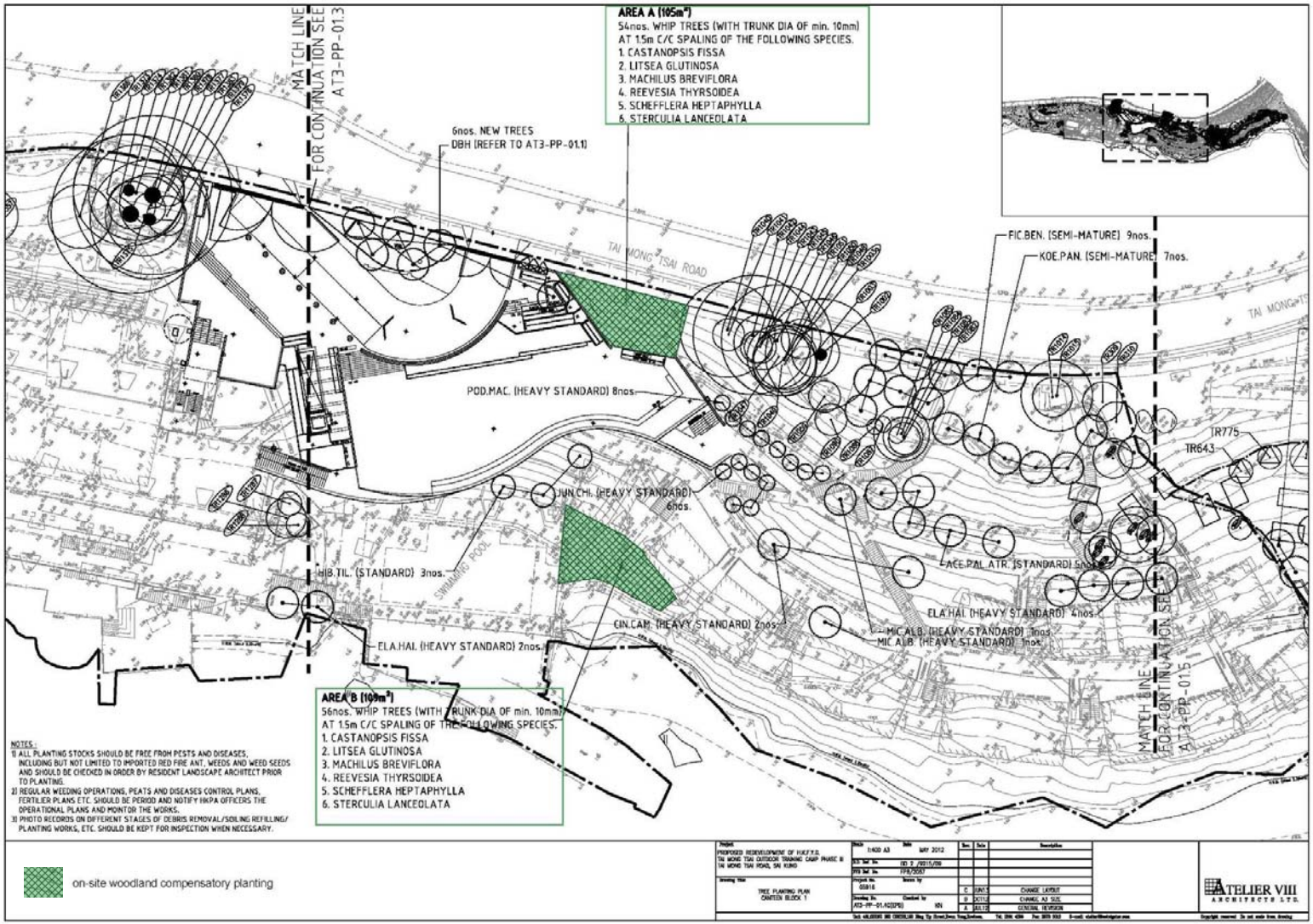



**Figure 4.2 Amended On-Site Compensatory Woodland Planting Plan - Schedule of Drawings**

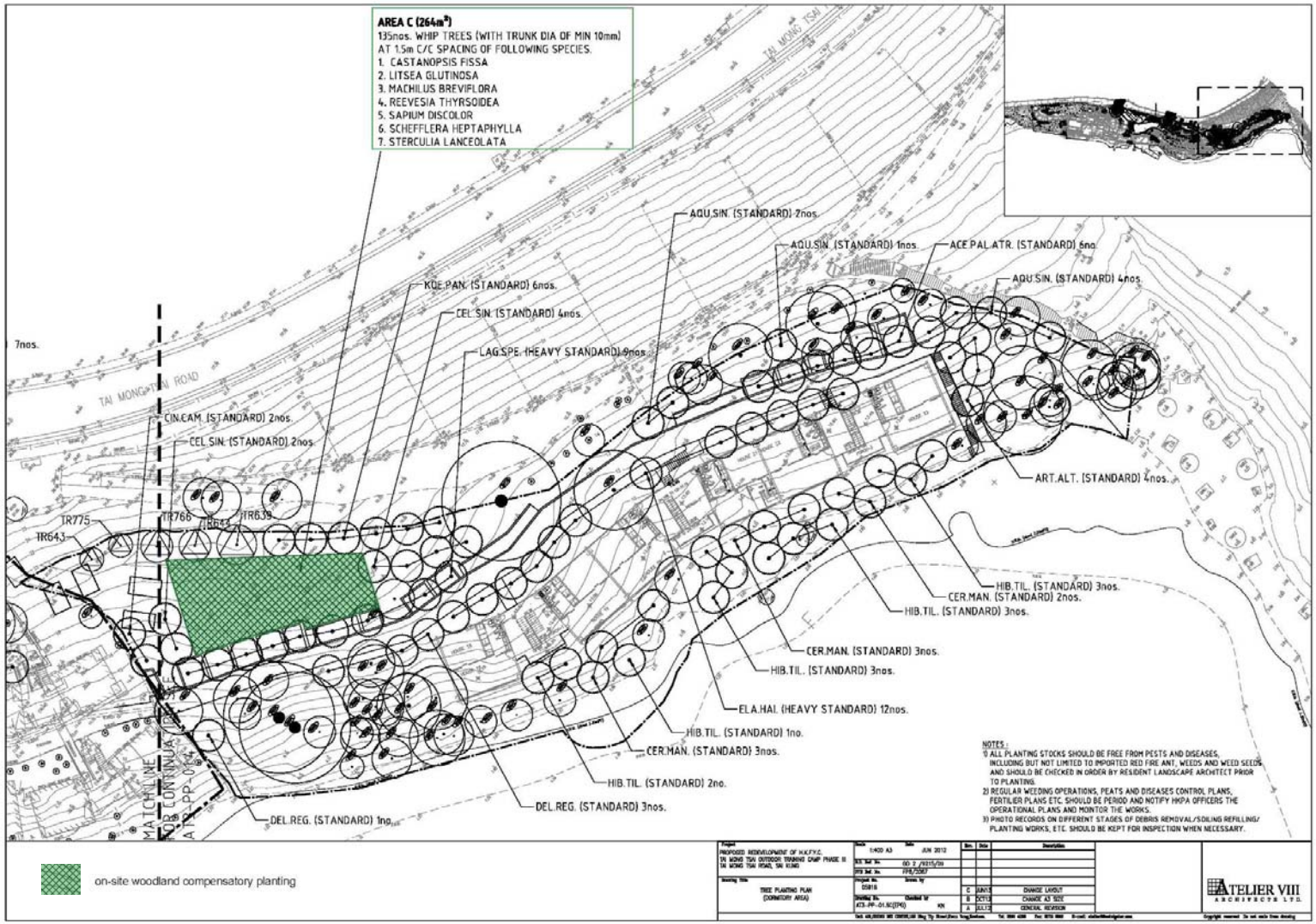



**Figure 4.2 Amended On-Site Compensatory Woodland Planting Plan- Schedule of Drawings (cont.)**

| Type | Botanical Name | Chinese Name | Standard | Spacing | QUANTITY |
|---|---|---|---|---|---|
| CAS. FIS. | CASTANOPSIS FISSA | 裂斗錐栗 | TREE WHIP MIN 10MM TRUNK DIAMETER | 1.5M C/C | 39 |
| MAC. BRE. | MACHILUS BREVIFLORA | 短花楠 | TREE WHIP MIN 10MM TRUNK DIAMETER | 1.5M C/C | 39 |
| LIT. GLU. | LITSEA GLUTINOSA | 潺槁樹 | TREE WHIP MIN 10MM TRUNK DIAMETER | 1.5M C/C | 37 |
| REE. THY. | REEVESIA THYRSOIDEA | 梭羅樹 | TREE WHIP MIN 10MM TRUNK DIAMETER | 1.5M C/C | 37 |
| SAP. DIS. | SAPIUM DISCOLOR | 山烏桕 | TREE WHIP MIN 10MM TRUNK DIAMETER | 1.5M C/C | 19 |
| STE. LAN. | STERCULIA LANCEOLATA | 假蘋婆 | TREE WHIP MIN 10MM TRUNK DIAMETER | 1.5M C/C | 37 |
| SCH. HEP. | SCHEFFLERA HEPTAPHYLLA | 鴨腳木 | TREE WHIP MIN 10MM TRUNK DIAMETER | 1.5M C/C | 37 |

**Figure 4.2 Amended On-Site Compensatory Woodland Planting Plan - Schedule of Drawings (cont.)**

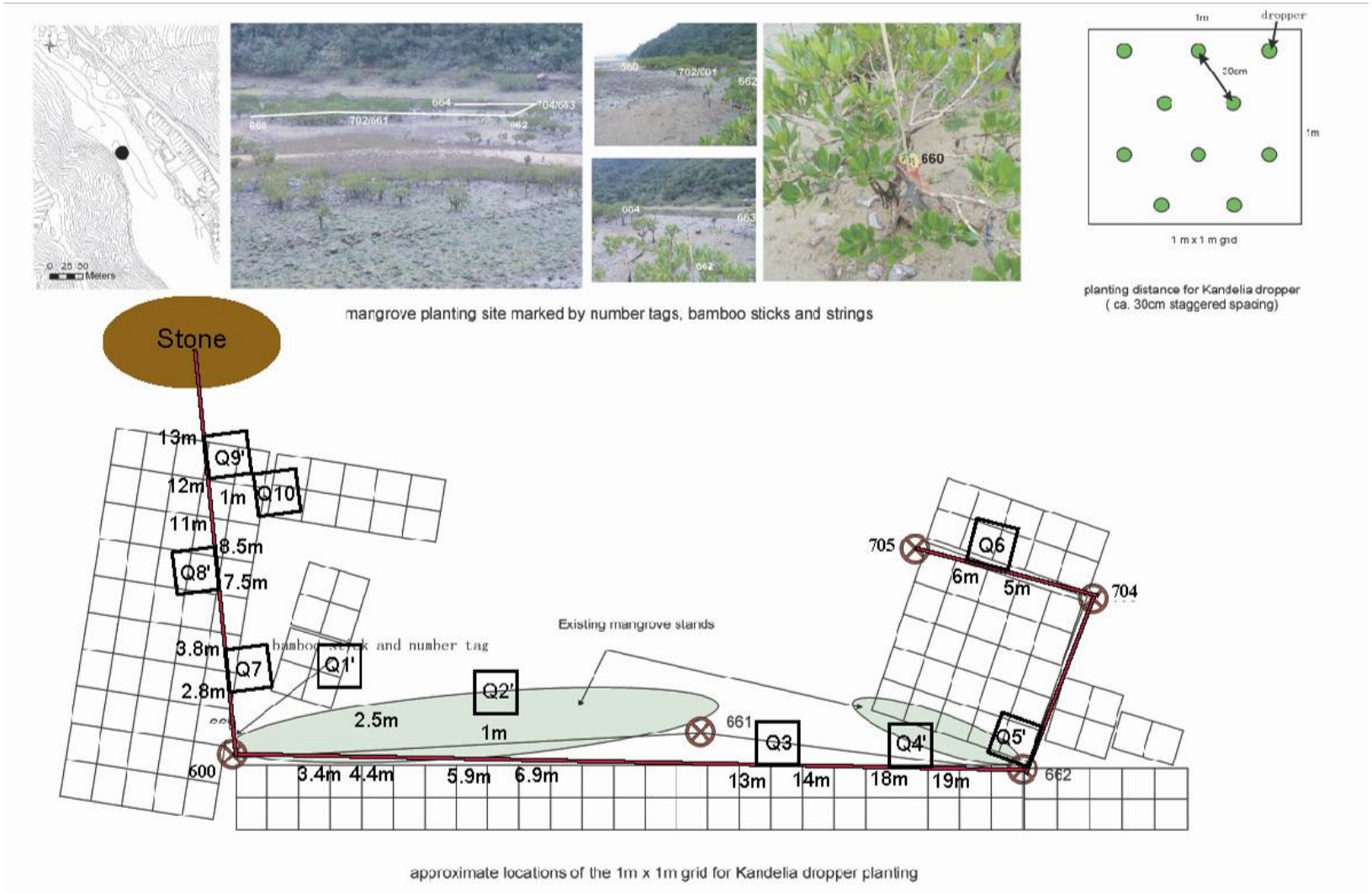



**Figure 5.1 Mangrove Compensatory Planting Site and Sampling Locations**

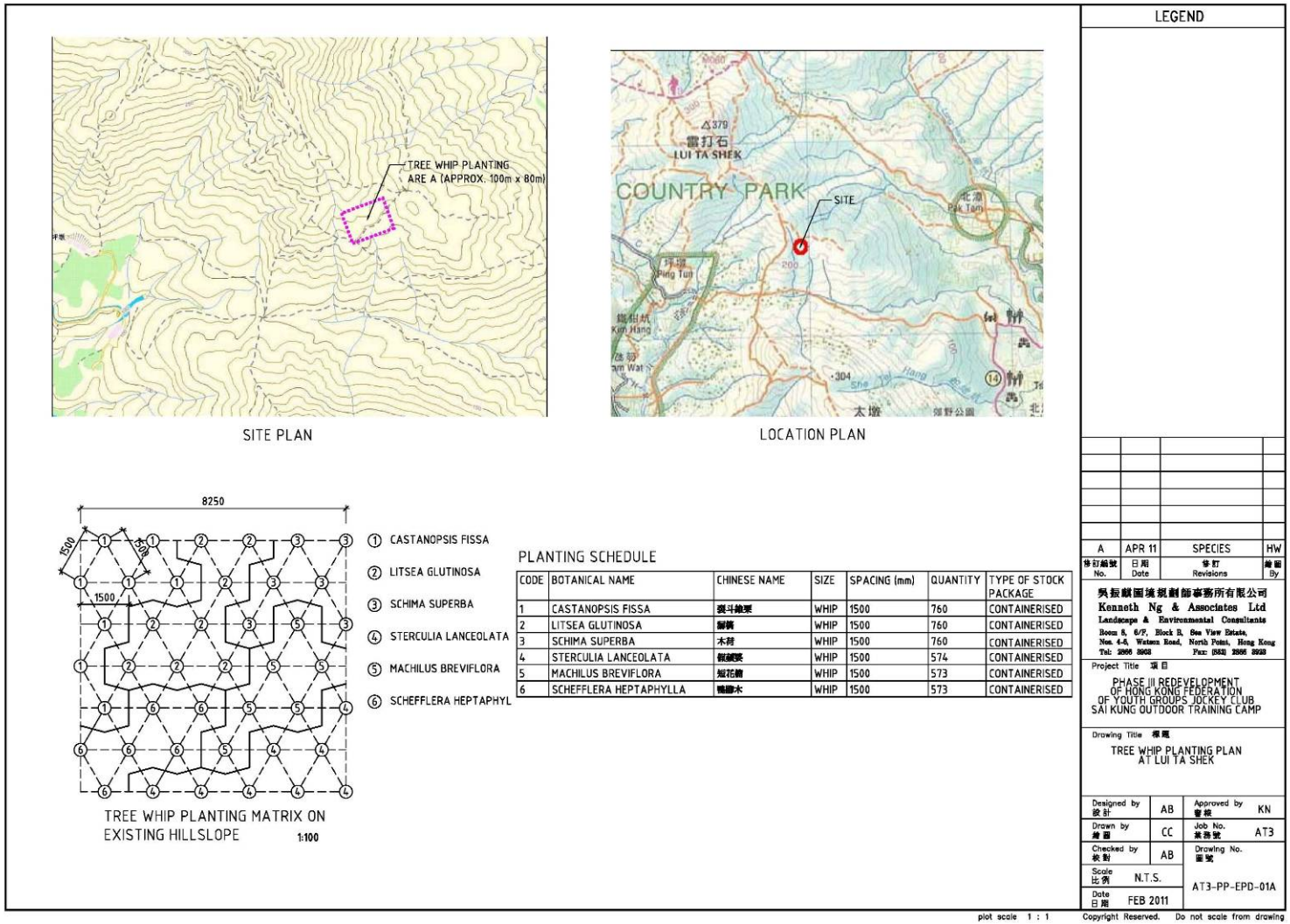


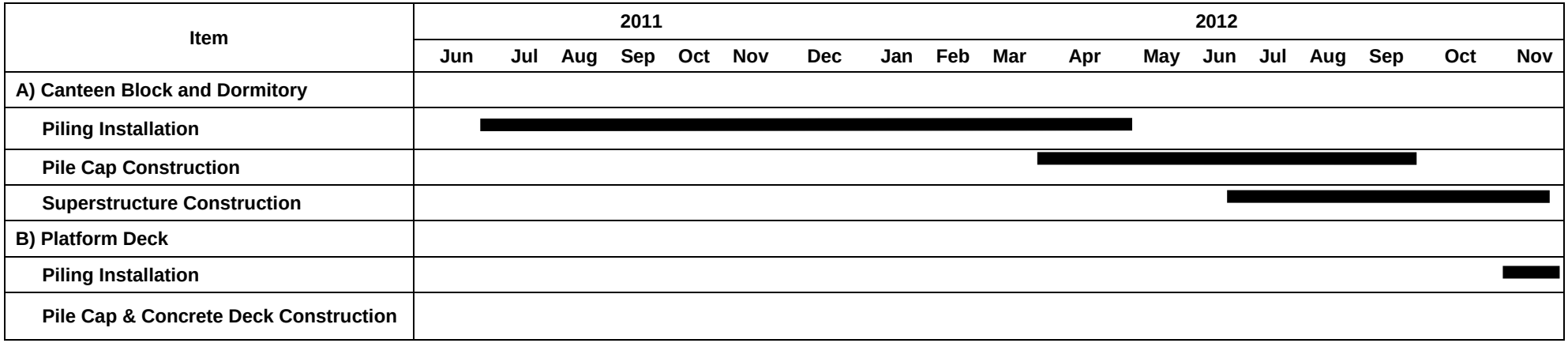

**Figure 5.2 Tree Whip Planting Plan for Off-Site Woodland Compensatory Planting at Lui Ta Shek**

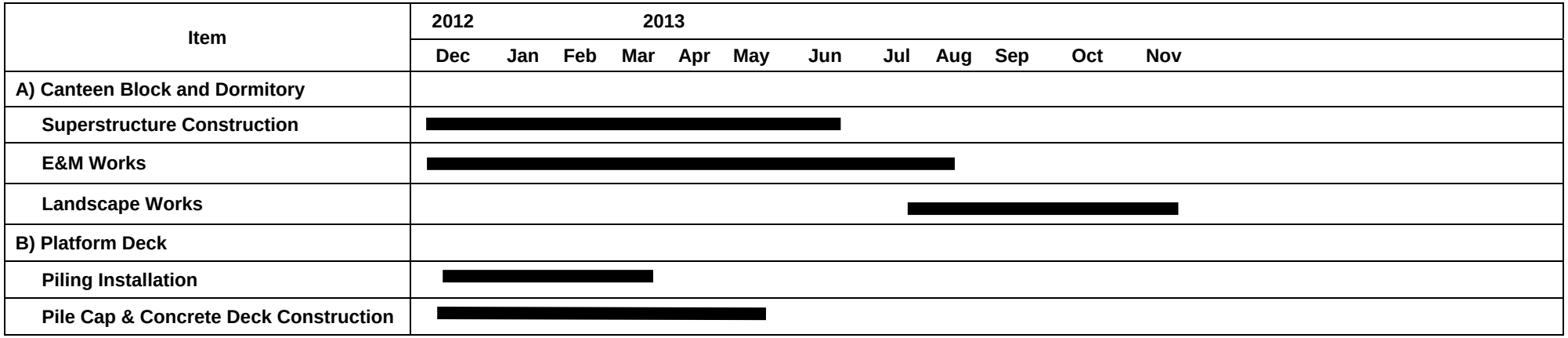
| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity |
|---|---|---|---|---|
| *Schima superba* | 木荷 | Whip | 1500 | 2200 |
| *Sterculia lanceolata* | 假蘋婆 | Whip | 1500 | 930 |
| *Machilus breviflora* | 短花潤楠 | Whip | 1500 | 120 |

**Figure 5.3 Planting Schedule for Off-Site Woodland Replacement Planting at Lui Ta Shek**

# Appendices

## Appendix A Tentative Construction Programme

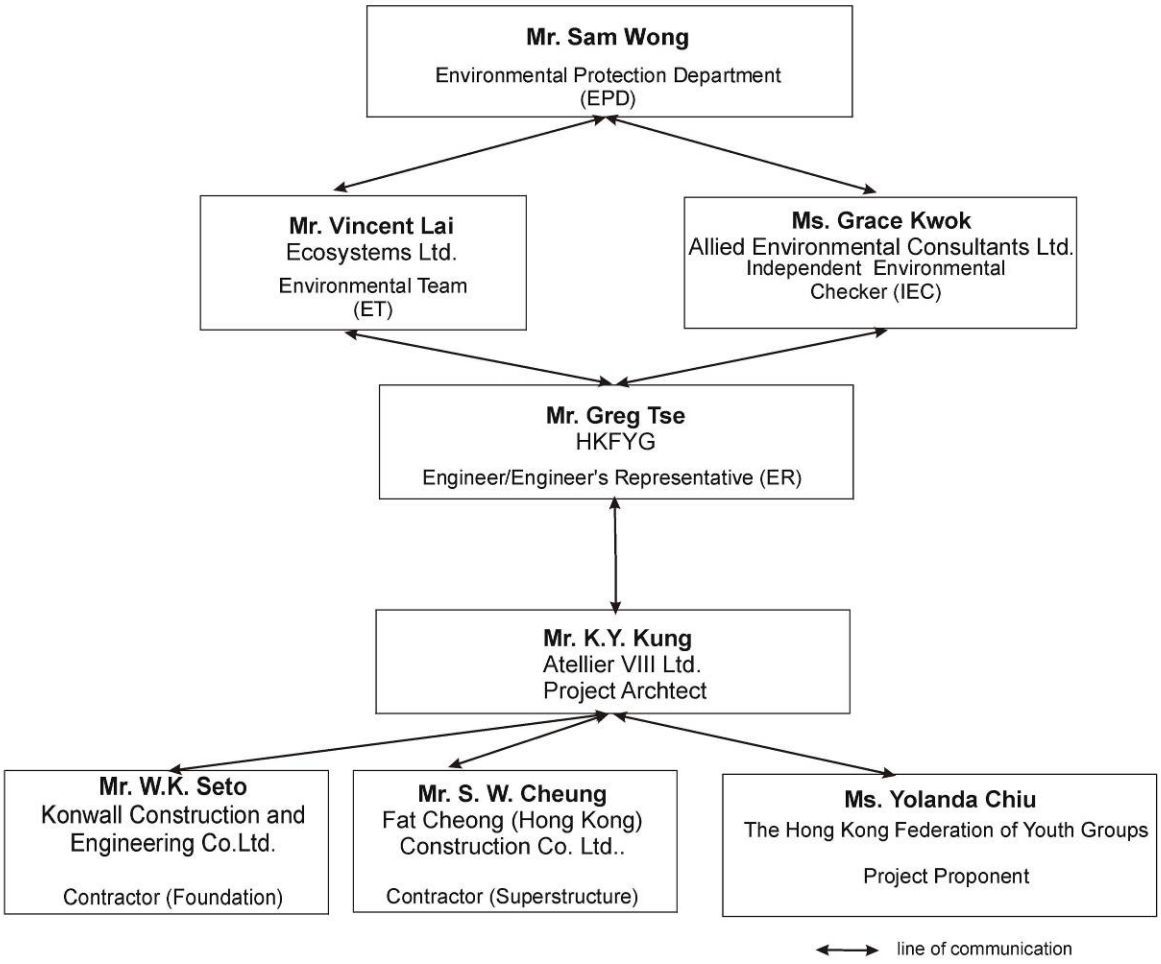


## Appendix B Key Contact Persons, Phone Numbers and Key Personnel

| Party | Name | Telephone No. |
|---|---|---|
| **Project Proponent** | | |
| The Hong Kong Federation of Youth Groups | | |
| Deputy Executive Director | Ms. Yolanda CHIU | 37557134 |
| Engineer Representative | Mr. Greg TSE | 97811411 |
| **Architect** | | |
| Atelier VIII Ltd. | | |
| Project Architect | Mr. K.Y. KUNG | 28914296 |
| Project Architect | Ms. Stella LUK | 28914296 |
| Project Officer | Mr. Dennis LEUNG | 28914296 |
| Clerk of Works | Mr. Jovi Ha | 28914296 |
| **Contractor (Foundation)** | | |
| Konwall Construction and Engineering Co. Ltd. | | |
| Project Director | Mr. Eric KWOK | 25631233 |
| Project Manager | Mr. W. K. SETO | 62020195 |
| Site Agent | Mr. H.Y. Cheung | 96348220 |
| Environmental Officer | Mr. Joe LAM | 63306705 |
| **Contractor (Superstructure)** | | |
| Fat Cheong (Hong Kong) Construction Co. Ltd. | | |
| Project Director | Mr. S.W. Cheung | 25272721 |
| Site Agent | Mr. S.T. Kwok | 91987112 |
| Project Coordinator | Mr. Simon Lee | 62747287 |
| Environmental Officer | Mr. Gary Cheung | 27912312 |
| **Independent Environmental Checker** | | |
| Allied Environmental Consultants Ltd. | | |
| IEC Team Leader | Ms. Grace KWOK | 28157028 |
| IEC Team | Mr. Ronan CHAN | 28157028 |
| IEC Team | Ms. Viann LAU | 28157028 |
| **Environmental Team** | | |
| Ecosystems Ltd. | | |
| ET Leader | Mr. Vincent LAI | 25530468 |
| Deputy/Monitoring Team Leader | Ms. M. L. YAU | 25530468 |
| Environmental Pioneers and Solutions Ltd. | | |
| Environmental Technician | Ms. Natalie Lai | 25587699 |
| Environmental Technician | Mr. Allen Chan | 25587699 |
| Environmental Technician | Mr. Lai Chi Hang | 25587142 |

# Appendix C Project Organisation



# Appendix D
# Event and Action Plan for Landscape and Visual Impact – Construction Phase

| Action Level | Environmental Team (ET) Leader | Independent Environmental Checker (IEC) | Engineer's Representative (ER) | Contractor |
|---|---|---|---|---|
| Non-conformity on one occasion | 1. Identify source<br>2. Inform the IEC and the ER<br>3. Discuss remedial actions with the IEC, the ER and the Contractor<br>4. Monitor remedial actions until rectification has been completed | 1. Check report<br>2. Check the Contractor's working method<br>3. Discuss with the ER and the Contractor on possible remedial measures<br>4. Advise the ER on effectiveness of proposed remedial measures | 1. Notify the Contractor<br>2. Ensure remedial measures are properly implemented | 1. Amend working methods<br>2. Rectify damage and undertake remedial measures or any necessary replacement |
| Repeated Non-conformity | 1. Identify source<br>2. Inform the IEC, the ER and EPD<br>3. Increase monitoring (site audit) frequency<br>4. Discuss remedial actions with the IEC, the ER and the Contractor<br>5. Monitor remedial actions until rectification has been completed<br>6. If exceedance stops, cease additional monitoring (site audit) | 1. Check report<br>2. Check the Contractor's working method<br>3. Discuss with the ER and the Contractor on possible remedial measures<br>4. Advise the ER on effectiveness of proposed remedial measures<br>5. Supervise implementation of remedial measures | 1. Notify the Contractor<br>2. Ensure remedial measures are properly implemented | 1. Amend working methods<br>2. Rectify damage and undertake remedial measures or any necessary replacement |

# Appendix E
# Event and Action Plan for Ecological Impact – Construction Phase

| Action Level | Environmental Team (ET) Leader | Independent Environmental Checker (IEC) | Camp operator/ Landscape Contractor |
|---|---|---|---|
| Poor survival or health of mangrove planting | 1. Identify source<br>2. Inform the IEC<br>3. Discuss remedial actions with the IEC and Camp operator<br>4. Monitor remedial actions until rectification has been completed | 1. Check report<br>2. Discuss with the Camp operator on possible remedial measures<br>4. Advise the Camp operator on effectiveness of proposed remedial measures | 1. Amend planting programme and replant as necessary |
| Poor survival or health of woodland planting | 1. Identify source<br>2. Inform the IEC<br>3. Discuss remedial actions with the IEC and Landscape Contractor<br>4. Monitor remedial actions until rectification has been completed | 1. Check report<br>2. Discuss with the Landscape Contractor on possible remedial measures<br>4. Advise the Landscape Contractor on effectiveness of proposed remedial measures | 1. Amend maintenance programme and replant as necessary |
| Poor survival of transplanted trees | 1. Identify source<br>2. Inform the IEC<br>3. Discuss remedial actions with the IEC and Landscape Contractor<br>4. Monitor remedial actions until rectification has been completed | 1. Check report<br>2. Discuss with the Landscape Contractor on possible remedial measures<br>4. Advise the Landscape Contractor on effectiveness of proposed remedial measures | 1. Amend maintenance programme and replant as necessary |

## Appendix F Implementation Schedules for Mitigation Measures

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| Noise | | | | | | | | |
| 3.6.1 | 2.3.1 | • Contractor shall comply with and observe the Noise Control Ordinance (NCO) and its current subsidiary regulations;<br>• Before the commencement of any work, the Contractor shall submit to the Engineer for approval the method of working, equipment and sound-reducing measures intended to be used at the Project Site;<br>• Contractor shall devise and execute working methods that will minimise the noise impact on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these methods are implemented;<br>• Only well-maintained plant and equipment should be operated on-site;<br>• Plant/equipment should be serviced regularly during the construction programme;<br>• Machines that may be in intermittent use should be shut down or throttled down to a minimum between work periods;<br>• Silencers and/or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme;<br>• Noisy activities should be scheduled to minimise exposure of nearby NSRs to high levels of construction noise. For | Y<br>Y<br>Y<br>Y<br>Y<br>Y<br>Y<br>Y | Good site practices to minimise construction Noise Impact | The Contractor | Construction Site | Construction Phase | EIAO and Environmental Permit;<br>NCO and its regulations |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | example, noisy activities should be scheduled for midday or at times coinciding with periods of high background noise (such as during peak traffic hours);<br>• Noisy equipment such as emergency generators shall always be sited as far away as possible from noise sensitive receivers;<br>• Mobile plant/equipment should be sited as far away from NSRs as possible; and<br>• Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable. | Y<br>Y<br>N/A | | | | | |
| **Water** | | | | | | | | |
| 4.7.2 | 3.3.1 | • High loading of suspended solids (SS) in construction site runoff shall be prevented through proper site management by the contractor;<br>• The boundary of critical work areas shall be surrounded by sandbags, ditches, or embankments. Accidental release of soil or refuse onto the adjoining land should be prevented by the provision of site hoarding or earth bunds at the site boundary. These facilities should be constructed in advance of site formation works and roadworks;<br>• Consideration should be given to plan construction activities to allow the use of natural topography of the Project Site as a barrier to minimise uncontrolled non-point source discharge of construction site runoff;<br>• Temporary ditches or earthen bunds | Y<br>Y<br>Y<br>Y | Good site practices to minimise construction water quality Impact due to potential site runoff and chemical leakage | The Contractor | Construction Site | Construction Phase | EIAO and Environmental Permit; WPCO and its regulations |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | should be provided to facilitate directed and controlled discharge of runoff into storm drains via sand/ silt removal facilities such as sand traps, silt traps and sediment retention basin. Oil and grease removal facilities should also be provided where appropriate, for example, in area near plant workshop/ maintenance areas; | | | | | | |
| | | • Sand and silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly by the contractor, and at the onset of and after each rainstorm to ensure that these facilities area functioning properly; | Y | | | | | |
| | | • Slope exposure should be minimised where practicable especially during the wet season. Exposed soil surfaces should be protected from rainfall through covering temporarily exposed slope surfaces or stockpiles with tarpaulin or the like; | Y | | | | | |
| | | • Haul roads should be hard paved by laying crushed rock, gravel or other granular materials to minimise discharge of contaminated runoff; | Y | | | | | |
| | | • Plant workshop/ maintenance areas, if any, should be bunded and constructed on a hard standing. Sediment traps and oil interceptors should be provided at appropriate locations; | Y | | | | | |
| | | • Manholes (including newly constructed ones), if any, should be adequately covered or temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage | Y | | | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | system;<br>• Construction works should be programmed to minimise soil excavation works where practicable during rainy conditions;<br>• Chemical stores should be contained (bunded) to prevent any spills from contact with water bodies. All fuel tanks and/ or storage areas should be provided with locks and be sited on hard surface;<br>• Chemical waste arising from the construction of the Project Site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation;<br>• Drainage facilities must be adequate for the controlled release of storm flows. | Y<br>Y<br>Y<br>Y | | | | | |
| 4.7.2 | 3.3.1 | • Sewage generated from the construction workforce should be contained in chemical toilets until connection to public foul sewer can be provided. Chemical toilets should be provided at a minimum rate of about 1 per 50 workers. The facility should be serviced and cleaned by a specialist contractor at regular intervals;<br>• Vehicle wheel washing facilities should be provided at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles leave the Project site;<br>• The section of the road between the wheel washing bay and the public road | Y<br>Y<br>Y | Good site practices to control the wastewater generated from the construction site | The Contractor | Construction Site | Construction Phase | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | should be hard paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. | | | | | | |
| 4.7.3 | 3.3.1 | • Spillage of fuel oils or other polluting fluids should be prevented at source. It is recommended that all stocks should be stored inside proper containers and sited on sealed areas, preferably surrounded by bunds | Y | Good site practices to minimise construction water quality Impact due to avoid spillage of chemical | | | | |
| 4.7.6 | 3.3.2 | • Apart from the online monitoring and control system for the wastewater quality, regular sampling programme will be devised to further safeguard and ensure that the quality of the treated effluent is suitable for reuse. Should the treated effluent not meet the required standards for irrigation and flushing or in case of breakdown of the wastewater system, a contingency plan would be triggered. The wastewater reuse system will be shut down. The canteen wastewater from Phase III will be held in the new holding tank for the MBR. The new holding tank has a capacity of 15$m^3$ and a minimum storage time of half day capacity. The canteen wastewater will then be diverted to the existing sewage treatment plant via the coarse screen chamber, and it will be held in the equalisation holding tank, with a capacity of 96$m^3$, for screening and treatment. The existing sewage treatment plant (with maximum treatment capacity of 152.7$m^3$/d) for | N/A | Contingency plan to further safeguard the water quality of the surrounding environment and ensure that the quality of the treated effluent is suitable for reuse | Proponent | Project Area | During design, construction and operation | EIAO and Environmental Permit; WPCO and its regulations |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | Phase I & II has a daily flow of 35$m^3$ per day, so it has a spare capacity of more than 50%, which is adequate to treat the canteen wastewater. The treated effluent for direct discharge will not undergo any chlorination process. During this period, both irrigation system and flushing system will use the fresh water from city main as water source. The water reuse system would be fully inspected for problem fixing before re-operation. | | | | | | |
| **Air Quality** | | | | | | | | |
| 5.7.2 | 4.3.1 | • The designated haul road should be hard paved;<br>• The site should be water sprayed four times a day during site formation work of the residential portion of the Project Site;<br>• Dump truck beds for material transport should be totally enclosed using impervious sheeting;<br>• any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading;<br>• The stockpiled malodorous materials, if any, should be placed as far as possible from any ASRs and removed from Project Site as soon as possible, and they should be covered entirely by plastic tarpaulin sheets; | Y<br>Y<br>Y<br>Y<br>N/A | Good site practice to minimise construction fugitive dust impact | The Contractor | Construction Site | Construction Phase | EIAO and Environmental Permit; APCO and its regulations |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | • Dusty materials remaining after a stockpile is removed should be wetted with water;<br>• The vehicle washing area and the section of the road between the washing facilities and the exit point should be paved with e.g. concrete, bituminous materials or hardcore or similar;<br>• Stockpile of dusty materials to be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides; or sprayed with water so as to maintain the entire surface wet;<br>• All dusty materials to be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;<br>• Vehicle speed to be limited to 10 kph except on completed access roads;<br>• The portion of road leading only to a construction site that is within 30 m of a designated vehicle entrance or exit should be kept clear of dusty materials;<br>• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;<br>• The load of dusty materials carried by vehicles leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle;<br>• The working area of excavation should be sprayed with water immediately before, during and immediately after (as necessary) the operations so as to | Y<br>Y<br>Y<br>Y<br>Y<br>Y<br>Y<br>Y<br>Y | | | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | maintain the entire surface wet. | | | | | | |
| **Ecology** | | | | | | | | |
| 6.9.3 | 5.2.2 | Preserve three no. and transplant five no. of *Aquilaria sinensis* | Y | Minimise construction ecological impacts on species on protected species | Contractor | On Project Site | Construction Phase | ETWB(W) 3/2006: Tree Preservation. Agree on the maintenance requirement and programme |
| 6.9.7 | 5.2.3 | Compensatory mangrove planting (0.01 ha) | Y | Mitigate loss of 0.01 ha of mangrove | Proponent | Sandflat near Project Site | Construction Phase | Agree on the maintenance requirement and programme |
| 6.9.8 | 5.2.4 | Compensatory woodland planting (0.03 ha within Project Site and 0.8 ha in Sai Kung West Country Park) | Y (within Project Site)<br>Y (both original and replacement planting in Sai Kung West Country Park) | Mitigate loss of 0.31 ha of woodland | Contractor | On Project Site and Lui Ta Shek inside Sai Kung West Country Park | Construction Phase | Agree on the maintenance requirement and programme |
| 6.9.4 | 5.2.6 | Good site practices | Y | To minimise environmental impacts and therefore potential ecological impacts within and near the construction site | Contractor | Entire construction site | Construction Phase | N/A |
| **Landscape and Visual** | | | | | | | | |
| Table 7.12 | Table 6.2 | LMM1 – Minimizing construction area and contractor's temporary works area to avoid unnecessary impacts to landscape resources and | Y | Preservation of landscape resources and | Contractor | Project area | During design and construction | EIAO-TM Annex 10, 18 |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | minimize visual intrusion. | | minimize visual intrusion | | | | |
| Table 7.12 | Table 6.2 | LMM2 – Sensitively designed site hoarding in both color and form to screen view to the construction works. | Y | Visual enhancement | Contractor | Project area | During design and construction | EIAO-TM Annex 10, 18 |
| Table 7.12 | Table 6.2 | LMM3 – Preservation of existing tree to be retained on area not affected by the proposed development. | Y | Conservation of existing trees; Visual screen | Contractor | Project area | During construction | EIAO-TM Annex 10, 18 LAO PN No. 7/2007 |
| Table 7.12 | Table 6.2 | LMM4 – Demarcation of the tree protection zone for retain trees. | Y | Preservation of existing trees | Contractor | Project area | During construction | EIAO-TM Annex 10, 18 Demarcation of temporary protective fencing shall be agreed and erected before other works commence |
| Table 7.12 | Table 6.2 | LMM5 – Operational time restrictions to limit after dark welding and lighting. | Y | Limit night time glare | Contractor | Project area | During construction | EIAO-TM Annex 10, 18 |
| Table 7.12 | Table 6.2 | LMM6 – Selection of fast growing native trees and shrubs mix in compensation for the removal / disturbance area. | Y | Visual screen; Landscape compensation | Contractor for planting HKFYG for management and maintenance | Project area | During design, construction and operation | EIAO-TM Annex 10, 18 Selection and agree on the specified plant species |
| Table 7.12 | Table 6.2 | LMM7 – Landscape treatment such as green roof, vertical greening and screen planting including climber plants to screen and soften surface of built structures and mitigate the landscape and visual impact. | Y | Visual enhancement | Contractor during construction HKFYG for management and maintenance | Project area | During design, construction and operation | EIAO-TM Annex 10, 18 Selection and agree on the specified plant species |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| Table 7.12 | Table 6.2 | LMM8 – Staggered built form with building height corresponding to the natural sloping landform to enhance visual quality. | Y | To provide an interesting view on the visual receiver and to lower the overwhelming effect as may be created by the proposed building blocks | Contractor during construction HKFYG for management and maintenance | Project area | During design, construction and operation | EIAO-TM Annex 10, 18 |
| Table 7.12 | Table 6.2 | LMM9 – Sensitive treatment and design to external finishes of the built structure to ensure element with colour, texture and tonal quality being compatible to the existing landscape context. | Y | Visual enhancement | Contractor during construction HKFYG for management and maintenance | Project area | During design, construction and operation | EIAO-TM Annex 10, 18 |
| Table 7.12 | Table 6.2 | LMM10 – Maintenance of planting works upon completion. | In progress | Landscape compensation | Contractor for planting and maintenance during establishment HKFYG for management and maintenance | Project area | During operation | EIAO-TM Annex 10, 18 Agree on the maintenance requirement and programme |
| **Waste Management** | | | | | | | | |
| 8.4.6 | 7.2.5 | • Storage of different waste types – different types of waste should be segregated and stored in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. An on-site temporary storage area equipped with required | Y | Waste management measures for construction phase | The Contractor | Construction Site | Construction Phase | EIAO and Environmental Permit; Various guidelines stated in paragraph |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Implementation Status of the Mitigation Measures* | Objectives of the Recommended Measure & Main Concerns to address | Who to implement the measure? | Location of the measure | When to implement the measure? | What requirements or standards for the measure to achieve |
|---|---|---|---|---|---|---|---|---|
| | | control measures (e.g. dust) should be provided;<br>• Trip-ticket system – in order to monitor the proper disposal of non-inert C&D waste to landfills and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements and audited by the Environmental Team;<br>• Records of Wastes – a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed;<br>• Training – The contractor should provide his workers with proper training of appropriate waste management procedure to achieve waste reduction as far as practicable and cost-effective through recovery, reuse and recycling and avoid contamination of reusable C&D materials;<br>• Incorporate the "Recommended Pollution Control Clauses for Construction Contracts" in respect to removal of waste material from the construction site into the contract of the contractor. | Y<br>Y<br>Y<br>Y | | | | | 8.2 of the EIA report |

*Y = implemented, N = not yet implemented, N/A = not applicable

## Appendix G Monitoring Schedule for October 2013 and Weather Conditions during the Monitoring Period

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
| | | 1/10 | 2/10 | 3/10 | 4/10 | 5/10 |
| | | | Site inspection | | | |
| 6/10 | 7/10 | 8/10 | 9/10 | 10/10 | 11/10 | 12/10 |
| | | | | | Site inspection | |
| 13/10 | 14/10 | 15/10 | 16/10 | 17/10 | 18/10 | 19/10 |
| | | | | Site inspection | | |
| 20/10 | 21/10 | 22/10 | 23/10 | 24/10 | 25/10 | 26/10 |
| | | | Site inspection and SSEMC | | | |
| 27/10 | 28/10 | 29/10 | 30/10 | 31/10 | | |
| | | | Site inspection | | | |

| Survey Date | Weather Condition |
|---|---|
| 2/10/2013 | Fine |
| 9/10/2013 | Fine |
| 16/10/2013 | Fine |
| 23/10/2013 | Fine |
| 30/10/2013 | Fine |

| | |
|---|---|
| Monthly Mean Air temperature | 25.7° C |
| Monthly Total Rainfall | 2.9 mm |

## Appendix H Summary of Site Inspection, Outstanding Issues and Deficiencies

| Row No. | Date | Findings | Advice from ET | Action taken | Closing date |
|---|---|---|---|---|---|
| 1 | 19, 24 Dec 2012, 02, 09, 16, 23, 30 Jan, 20, 27 Feb, 08, 13, 20, 28 Mar, 03, 10, 17, 24 Apr, 02, 08, 15, 24, 29 May & 05, 13, 20, 25 Jun, 03, 10, 19 & 31 Jul, 07, 15, 22, 28 Aug, 06, 11, 18, 25 Sep, 02, 11, 17, 23 and 30 Oct 13 | Cement deposition was observed on the Tai Mong Tsai Road | The Contractor was urged to remove the deposited cement to maintain good hygiene and environmental conditions of the public road. | To be followed during the next reporting period | On-going |
| 2 | 20 Jun, 03, 10, 19 31 Jul, 07, 15, 22, 28 Aug 06, 11, 18, 25 Sep, 02, 11, 17, 23 and 30 Oct 13 | As the construction works of the platform deck were completed, cement were still observed at the river | The contractor was reminded to remove them as soon as possible. | To be followed during the next reporting period. | On-going |
| 3 | 30 Oct 13 | As all construction works was completed, temporary tree protection fence could be removed by contractor.<br>The temporary tree protection fence was still observed during the site inspection. | The contractor was reminded to remove the remaining tree protection fence. | To be followed during the next reporting period. | On-going |

## Appendix I Cumulative Log of Complaints and Summons/Prosecutions

| Reporting Month | No. of complaints in Reporting Month | No. of Summons/Prosecutions in Reporting Month |
|---|---|---|
| July 2011 | 0 | 0 |
| August 2011 | 0 | 0 |
| September 2011 | 0 | 0 |
| October 2011 | 0 | 0 |
| November 2011 | 0 | 0 |
| December 2011 | 0 | 0 |
| January 2012 | 0 | 0 |
| February 2012 | 0 | 0 |
| March 2012 | 0 | 0 |
| April 2012 | 0 | 0 |
| May 2012 | 0 | 0 |
| June 2012 | 0 | 0 |
| July 2012 | 0 | 0 |
| August 2012 | 0 | 0 |
| September 2012 | 0 | 0 |
| October 2012 | 0 | 0 |
| November 2012 | 0 | 0 |
| December 2012 | 0 | 0 |
| January 2013 | 0 | 0 |
| February 2013 | 0 | 0 |
| March 2013 | 0 | 0 |
| April 2013 | 0 | 0 |
| May 2013 | 0 | 0 |
| June 2013 | 0 | 0 |
| July 2013 | 0 | 0 |
| August 2013 | 0 | 0 |
| September 2013 | 0 | 0 |
| October 2013 | 0 | 0 |
| Overall Total | 0 | 0 |

## Appendix J Tentative Monitoring Schedule for November 2013

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
| | | | | | 1/11 | 2/11 |
| | | | | | | |
| 3/11 | 4/11 | 5/11 | 6/11 | 7/11 | 8/11 | 9/11 |
| | | Site inspection | | | | |
| 10/11 | 11/11 | 12/11 | 13/11 | 14/11 | 15/11 | 16/11 |
| | | | | | Ecological Monitoring, Site inspection and SSEMC | |
| 17/11 | 18/11 | 19/11 | 20/11 | 21/11 | 22/11 | 23/11 |
| | | | Site inspection | | | |
| 24/11 | 25/11 | 26/11 | 27/11 | 28/11 | 29/11 | 30/11 |
| | | | Site inspection | | | |