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| То      | AECOM Consulting Services Limited  | Ref. No. MCLF343 |            | 35                |  |
|---------|--|------------------|------------|-------------------|--|
| Country |  | Email            | yw.fung@   | )aecom.com        |  |
| Attn.   | Mr. Y. W. Fung   | Date             | 19 May 20  | 017               |  |
| From    | Colin Yung   | No. of<br>Pages  | 1          | (Incl. this page) |  |
|         | Mr. Vincent Kwan   |                  |            |                   |  |
| C.c. To | (AECOM Consulting Services Limited) Email vincent.kwan@aecom.com Agreement No. CE 22/2006 (HY) |                  |            |                   |  |
|         | Cycle Tracks Connecting North West New   | Territories wit  | h          |                   |  |
| Subject | North East New Territories – Investigation, Design and Construction                            |                  |            |                   |  |
|         | Contract No. YL/2013/01 (Cycle Tracks from   |                  | -          | - /               |  |
|         | Quarterly Environmental Monitoring & Auc   | lit Report for F | ebruary 20 | 17 to April 2017  |  |

We refer to the Quarterly EM&A Report Rev. 0 for February 2017 to April 2017 that we received through email on 12 May 2017 and are pleased to verify the captioned submission is in accordance with Condition 3.5 of the EP-450/2013.

Should you require further information, please feel free to contact us.

Best Regards,

Colin Yung Independent Environmental Checker

CY/jt

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Cycle Tracks from Tuen Mun to Sheung Shui-Stage 1

# Environmental Monitoring and Audit Quarterly EM&A Summary Report No. 12 for February 2017 to April 2017

(Designated Project Works Area)







| REVISION SCHEDULE |             |   |             |             |             |  |
|-------------------|-------------|---|-------------|-------------|-------------|--|
| Rev               | Date        | Details   | Prepared by | Reviewed by | Approved by |  |
| 0                 | 12 May 2017 | Quarterly EM&A Report No. 12<br>– February 2017 to April 2017 | Sammi Lam   | YW Fung     | YT Tang     |  |
|                   |             | Signature   | Gauilau     | 1/.         | Catholis    |  |

| REVISION RECORD |             |   |             |             |             |
|-----------------|-------------|---|-------------|-------------|-------------|
| Rev             | Date        | Details   | Prepared by | Reviewed by | Approved by |
| 0               | 12 May 2017 | Quarterly EM&A Report No. 12<br>– February 2017 to April 2017 | Sammi Lam   | YW Fung     | YT Tang     |

AECOM Consulting Services Limited 38th Floor, Metroplaza Tower 1 223 Hing Fong Road Kwai Fong, Hong Kong

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#### **ABBREVIATION**

- CEDD Civil Engineering and Development Department
- C&D Construction & Demolition
- CNP Construction Noise Permit
- EM&A Environmental Monitoring and Audit
- EMP Environmental Management Plan
- EPD Environmental Protection Department
- ET Environmental Team
- IEC Independent Environmental Checker
- NSR Noise Sensitive Receiver
- NT New Territories
- PME Powered Mechanical Equipment
- RE Resident Engineer
- TTS# Trip-ticket System





#### EXECUTIVE SUMMARY

The Environmental Team (ET) of AECOM Consulting Services Limited (former URS Hong Kong Ltd) is appointed by Civil Engineering and Development Department to undertake the Environmental Monitoring and Audit (EM&A) programme for the Contract No. YL/2013/01 entitled "Cycle Tracks from Tuen Mun to Sheung Shui" (the Project). The Project is regulated under the Environmental Permit no. EP-450/2013 (EP).

This Quarterly EM&A report contains the results and findings of site inspection activities and EM&A works carried out by the Works Contractor as required in the contract from February 2017 to April 2017.

#### **Construction Progress**

The construction works of the Project was commenced in 28 April 2014. The major construction works in this quarter were listed below:

| Reporting Month | Construction Works                              |
|-----------------|---|
| February 2017   | Defect rectification works and additional works |
| March 2017      | Defect rectification works and additional works |
| April 2017      | Defect rectification works and additional works |

#### Environmental Issues

Several environmental issues have been identified by the ET during reporting period as listed below:

- Exposed stockpile without coverage
- Construction materials, construction wastes and chemical wastes near existing vegetation
- Construction wastes and general refuse in drainage
- Construction wastes scattered on ground

#### Environmental Monitoring and Audit Progress

According to the "Construction of Cycle tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River Stage 1 Environmental Review EM&A Manual (2013) (EM&A Manual 2013), no air, water and noise monitoring is required.



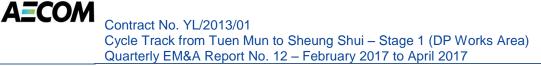


As no noise monitoring was specified from the EM&A Manual 2013, setting up of Action / Limit Levels is not required.

According to the weekly site inspections carried out in this quarter, it indicated that the Contractor has implemented mitigation measures to address the environmental problems. The measures taken by the Contractor were considered as adequate and effective to minimize negative impact to the environment. On-going investigations will be carried out to observe performance and effectiveness of those measures.

#### Environmental Complaints, Notices, Summons and Remedial Action

No complaints, summons and notifications were received in this quarter.





#### 1. BASIC PROJECT INFORMATION

#### 1.1. Introduction

- 1.1.1. AECOM Consulting Services Limited (former URS Hong Kong Ltd) has been commissioned by CEDD as ET for the construction works of 'Contract No. YL/2013/01 Cycle Track from Tuen Mun to Sheung Shui Stage 1" (the Project). The Project commenced in November 2013 and is scheduled for completion by the end of 2017. The construction works of the Project was commenced in 28 April 2014.
- 1.1.2. The site layout plans and the construction programme are shown in **Appendix 1** and **Appendix 2** respectively.
- 1.1.3. The Project comprises the following primary works elements:
  - Construction of a new cycle track (with footpath) section from near Yuen Long Sha Po Tsuen connecting to the end of the existing cycle track, along Castle Peak Road – Tam Mi Section and along Pok Wai South Road (namely "Section 1");
  - Construction of a new cycle track (with footpath) section from near Ho Sheung Heung along Sheung Yue River and Shek Sheung River connecting to the existing cycle track in Sheung Shui ("namely "Section 1b");
  - Construction of the associated support facilities including two Resting Stations
     R5 and R9 integrated with Information Kiosk;
  - The associated streetscape, landscape, utilities diversions, traffic aids installation, street lighting, water, sewerage and drainage works; and
  - Provision of environmental mitigation measures.
- 1.1.4. The major construction works in this quarter were listed below:

| Reporting Month | Construction Works                              |
|-----------------|---|
| February 2017   | Defect rectification works and additional works |
| March 2017      | Defect rectification works and additional works |
| April 2017      | Defect rectification works and additional works |

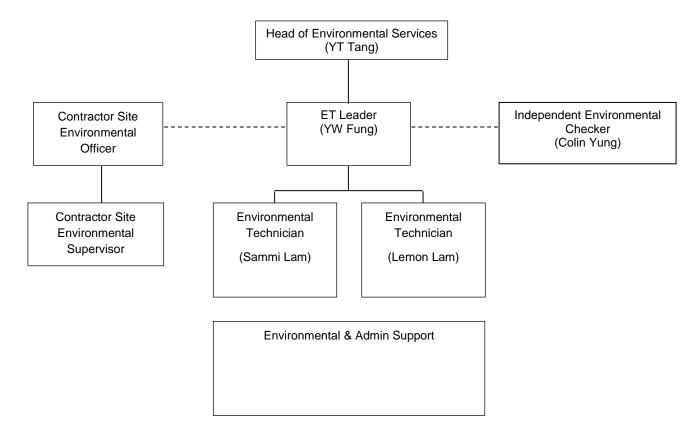




- 1.1.5. The Project is regulated under the Environmental Permit no. EP-450/2013 (EP). According to the EP, the monitoring and audit programme shall be implemented in accordance with the procedures and requirements as set out in the EIA Report and EM&A Manual (Register No. AEIAR–133/2009) & the "Construction of Cycle tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River Stage 1 Environmental Review EM&A Manual (2013) (EM&A Manual (2013)).
- 1.1.6. This Quarterly EM&A report is prepared in accordance with Section 12.5 of the EM&A Manual (2013) to summarize the results and findings of site inspection activities and EM&A works carried out by the Works Contractor as required in the contract from February 2017 to April 2017. The report is to be submitted to the ER, the Contractor, IEC and EPD.
- 1.1.7. The contact persons and telephone numbers of key personnel for enquiries are shown in **Appendix 3**.

#### 1.2. Project Organization and Management

1.2.1. The Project Organization Chart of the ET is shown in **Figure 1**.



#### Figure 1 Organization Chart of Environmental Team





#### 2. SUMMARY OF EM&A REQUIREMENTS

#### 2.1. Environmental Requirements

#### Air Quality

2.1.1. The EM&A Manual (2013) identified that no significant impacts could arise during construction and operation of the project. No specific construction dust monitoring was recommended in the EM&A Manual (2013) given proper implementation of the dust control measures under the Air Pollution Control (Construction Dust) Regulation. General air quality control measures are recommended for implementation as good site practice.

#### <u>Noise</u>

- 2.1.2. The EM&A Manual (2013) identifies that with the use of quiet / silenced PME and noise barriers, where applicable, will result in no unacceptable construction noise. General noise control measures are recommended for implementation as good site practice. No NSR has been identified within 300m of the site working areas and no noise exceedance within the stage 1 designated project works areas were predicted based on the Environmental Review findings, therefore no noise monitoring is recommended under the EM&A Manual (2013). In this connection, setting up of Action / Limit Levels is not required.
- 2.1.3. No construction is planned during restricted hours. If construction is required during restricted hours the Contractor is required to apply for a CNP.

#### Water Quality

- 2.1.4. The EM&A Manual (2013) identifies that best practicable pollution control measures during construction should be effective to control the potential water quality impacts resulting from stormwater runoff into receiving waters. Water Discharge License has been applied by the Contractor.
- 2.1.5. According to the EM&A Manual (2013), no water quality monitoring is considered necessary within stage 1 designated project works areas based on the Environmental Review findings.

#### Waste Management

2.1.6. The EM&A Manual (2013) identifies that with proper on-site handling and storage (covered containers), reuse (of inert construction wastes) and off-site disposal (via approved waste collectors to approved waste facilities and/or disposal grounds) the generation, handling and disposal of these wastes will not give rise to any adverse environmental impacts. Control and mitigation should be implemented as general good site practices.

#### Land Contamination

2.1.7. The EM&A Manual (2013) considers that no specific EM&A requirements are necessary for Land Contamination.





#### **Ecology and Fisheries**

2.1.8. The EM&A Manual (2013) identifies that no significant overall loss of valuable ecological habitat and fishponds and it is considered that no significant negative impacts to surrounding habitats and species and aquaculture or water quality will arise from the construction and operation of the cycle track given that appropriate mitigation measures and good practices are properly implemented. No specific ecological or fisheries monitoring is required.

#### Cultural Heritage

2.1.9. The EM&A Manual (2013) identifies that no adverse impacts on cultural heritage resources would be expected from the construction or operational phase of the Project. No specific monitoring is required during the construction phase. However, care has been taken during construction stage to report any signs of possible discovery of artefacts to minimize potential impacts during the construction phase.

#### Landscape and Visual

2.1.10. Based on the EM&A Manual's recommendation, all measures undertaken during the construction stage shall be audited by the Landscape Architect as a member of the Environmental Team. The site inspections were undertaken for twice a month during this reporting period to ensure all the recommended landscape and visual mitigation measures have been effectively implemented.

#### 2.2. Environmental Site Inspections

2.2.1. Environmental site inspections are required to inspect the construction activities of the Project in order to ensure that appropriate environmental protection and pollution control mitigation measures are properly implemented. Regular site inspections should be carried out once per week during the construction phase.

#### 2.3. Environmental Mitigation Measures

- 2.3.1. Required environmental mitigation measures shall be implemented according to the approved EM&A Manual (2013) as subject to the site condition.
- 2.3.2. The environmental mitigation measures that recommended in the Implementation Schedule in the EM&A Manual (2013) are presented in **Appendix 4**.





#### 3. INSPECTION RESULTS

#### 3.1. Summary of Site Inspections

3.1.1. According to the summary of the weekly site inspections carried out in this quarter, it indicated that the environmental condition has no contrast with the EIA predictions after implementing proper environmental mitigation measures.

#### 3.2. Implementation Status of Environmental Mitigation Measures

- 3.2.1. According to the weekly site inspections carried out in this quarter, it indicated that the Contractor has implemented mitigation measures to address the environmental problems. The measures taken by the Contractor were considered as adequate and effective to minimize negative impact to the environment. On-going investigations will be carried out to observe performance and effectiveness of those measures.
- 3.2.2. Environmental mitigation measures generally implemented in this reporting period are summarized in **Table 3-1**.

| Issues                           | Environmental Mitigation Measures   |  |  |
|----------------------------------|---|--|--|
| Water Quality                    | <ul> <li>Removed construction wastes and general refuse found in<br/>drainage</li> </ul>  |  |  |
| Air Quality                      | Covered exposed stockpile by impervious sheeting  |  |  |
| Noise                            | Nil   |  |  |
| Waste and Chemical<br>Management | <ul> <li>Removed construction materials, construction wastes and<br/>chemical wastes found near existing vegetation</li> <li>Removed construction wastes found scattered on ground</li> <li>Removed dusty construction waste found scattered on<br/>ground</li> </ul> |  |  |
| General                          | Nil   |  |  |

**Table 3-1** Environmental Mitigation Measures





#### 3.3. Status of Environmental Licensing and Permitting

3.3.1. The status of licenses and permits is summarized in **Table 3-2**.

| ltem<br>No. | Description                                      | Application<br>Date | Date of<br>Issue | Ref. No                      | Date of<br>Expiry |
|-------------|--|---------------------|------------------|------------------------------|-------------------|
| 1           | Environmental<br>Permit (EP)                     | N.A                 | 30 May 2013      | EP-450/2013                  | N.A.              |
| 2           | Registration as a<br>Chemical Waste<br>Producer  | N.A                 | 10 Jan 2014      | WPN5213-524-<br>S3<br>777-01 | N.A               |
| 3           | Effluent Discharge<br>License                    | N.A                 | 25 Feb 2014      | W5/1I3841/1                  | 28 Feb 2019       |
| 4           | Account for Disposal<br>of Construction<br>Waste | N.A.                | 16 Dec 2013      | 7018953                      | N.A.              |
| 5           | Construction Noise<br>Permit                     | As required         | N.A.             | N.A.                         | N.A.              |

#### **Table 3-2** Summary of Environmental Licensing and Permit Status

- 3.3.2. Non-compliance with EP conditions and other requirements associated with the construction of this Contract was not identified in this reporting period.
- 3.3.3. No environmental complaint and environmental summons were received in this reporting period.



#### 3.4. Advice on the Solid and Liquid Waste Management Status

- 3.4.1. The quantities of waste for reuse or disposal in this reporting period are summarized in **Table 3-3**.
- 3.4.2. It is recommended to maximize the reuse or recycle of the C&D material. The Contractor transported the remaining inert C&D material to public fill for disposal and disposed of non-inert wastes such as general refuses and materials segregated to North East New Territory (NENT) Landfill after sorting out the recyclables.

| Table 3-3 | Summar   | of Quantities of Waste for Reuse or Disposal in this Quarter |
|-----------|----------|--|
|           | o ann an |  |

|                  | Type of Waste  | Quantity | Disposal<br>Location                            | Cumulative<br>Quantity |
|------------------|--|----------|---|------------------------|
|                  | Total Quantity Generated (in '000m <sup>3</sup> )                  | 0        | TM Area 38                                      | 4.617                  |
| Inert            | Hard Rock and Large<br>Broken Concrete (in<br>'000m <sup>3</sup> ) | 0        | TM Area 38                                      | 0                      |
| C&D<br>Materials | Reused in the Contract (in '000m <sup>3</sup> )                    | 0        | N.A.  | 0                      |
|                  | Reused in other Projects (in '000m <sup>3</sup> )                  | 0        | N.A.  | 0.62                   |
|                  | Disposed as Public Fill (in '000m <sup>3</sup> )                   | 0        | TM Area 38                                      | 3.997                  |
|                  | Metals (in '000kg)   | 0.03     | Recycling<br>Facilities                         | 0.322                  |
|                  | Paper/cardboard packing<br>(in '000kg)                             | 0.03     | Recycling<br>Facilities                         | 0.342                  |
| C&D              | Plastic (in '000kg)  | 0.03     | Recycling<br>Facilities                         | 0.342                  |
| Waste            | Chemical Waste (in '000kg)   | 0        | Chemical<br>Waste<br>Treatment<br>Centre (CWTC) | 0.02                   |
|                  | Others, e.g. general refuse<br>(in '000m <sup>3</sup> )            | 0.06     | NENT / public<br>waste collection<br>facilities | 1.488                  |

- 3.4.3. The Contractor should provide sufficient waste storage facilities on site such as rubbish bins and fenced-off waste storage areas. Waste should be regularly removed from around the site.
- 3.4.4. The Contractor was reminded to increase the frequency of inspection to pump accumulated water from stagnant water ponds when necessary.





#### 4. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

- 4.1.1. In this quarter, major site activities were construction of cycle track, construction of resting station, installation of traffic aids/ colour dressing, painting colour dressing, road marking, defect rectification works.
- 4.1.2. No environmental complaints, notification of summons and prosecutions with respect to environmental issues were received in this quarter.
- 4.1.3. According to the weekly site inspections carried out in this quarter, it indicated that the Contractor has implemented mitigation measures to address the environmental problems. The measures taken by the Contractor were considered as adequate and effective to minimize negative impact to the environment. On-going investigations will be carried out to observe performance and effectiveness of those measures.
- 4.1.4. According to the environmental site inspections performed in this quarter, the following recommendations were provided:

#### Air Quality

- 4.1.5. Undertake water spraying or utilisation of tarpaulins on exposed stockpile and dusty materials;
- 4.1.6. Cover exposed stockpile by impervious sheeting; and
- 4.1.7. Pave access road with hard surface and keep clear of dusty materials

#### Water Quality

- 4.1.8. Clear and seal drainage to prevent materials from entering public drains; and
- 4.1.9. Remove obstacles in drainage to ensure entry of water without obstruction

#### **Chemical and Waste Management**

- 4.1.10. Remove chemical container and generator without drip tray to prevent any spillage;
- 4.1.11. Remove construction materials and wastes near existing vegetation

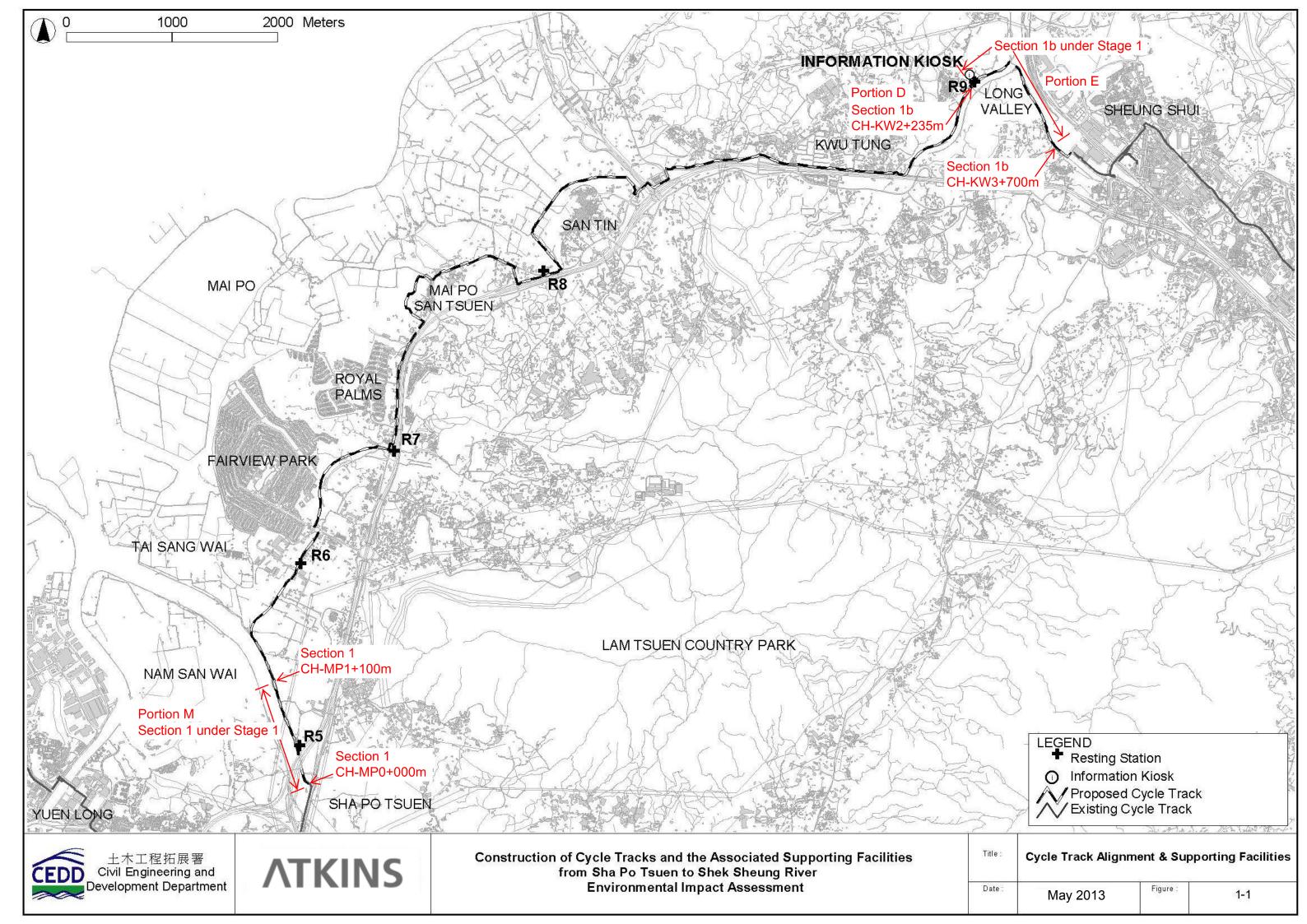
#### <u>General</u>

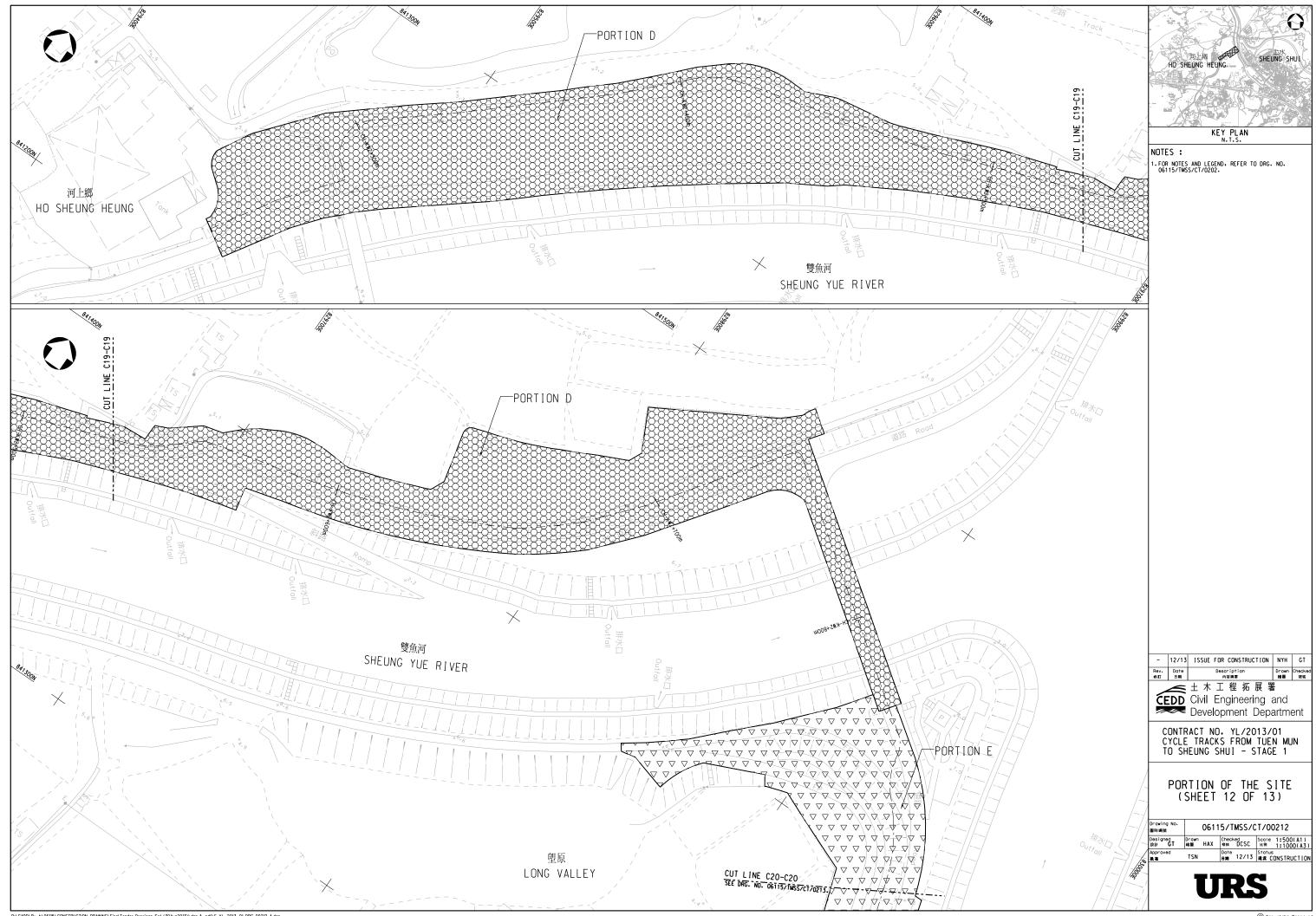
4.1.12. Remove stagnant water or apply larvicidal oil to prevent mosquito breeding



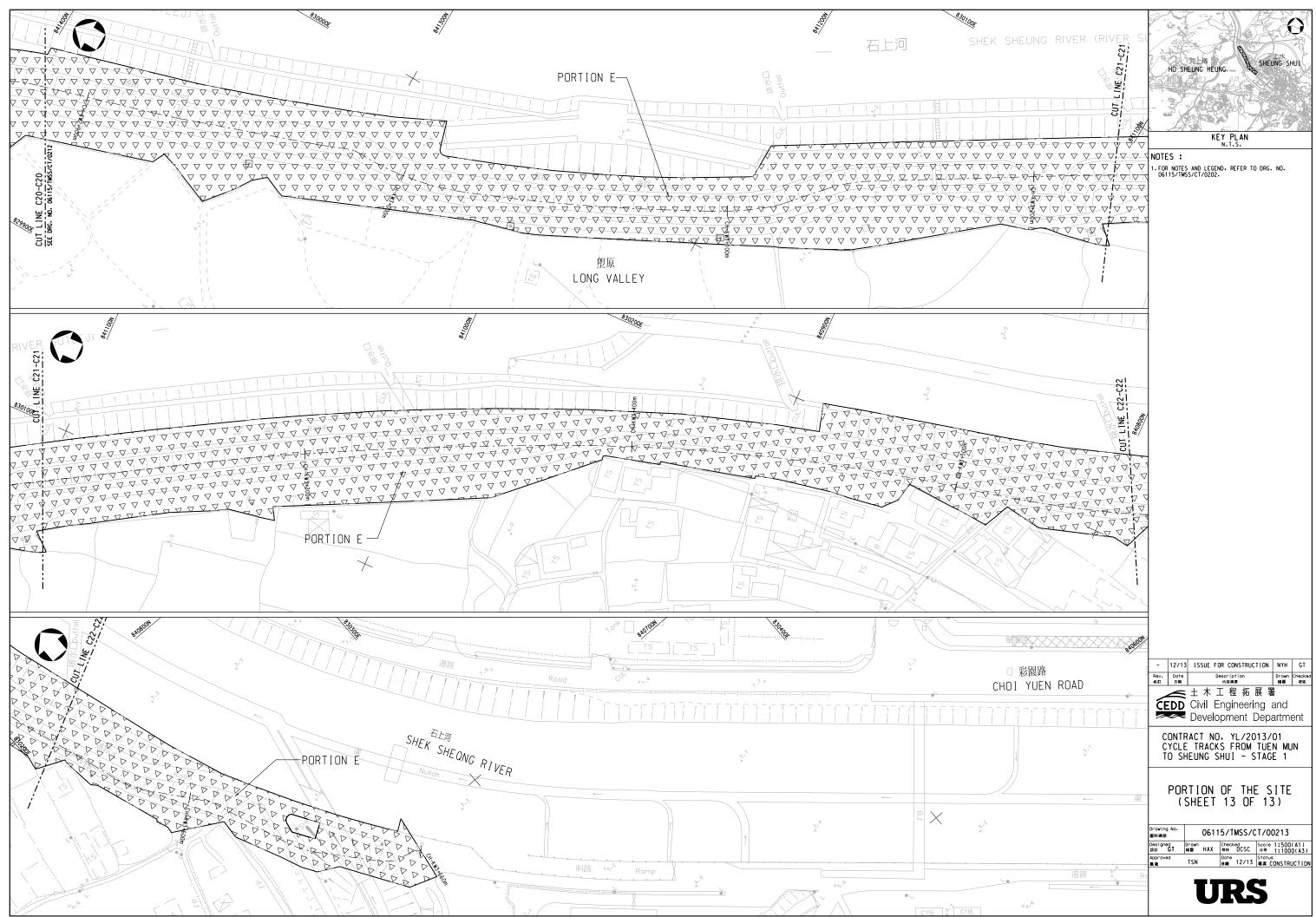


# APPENDIX 1 SITE LAYOUT PLANS



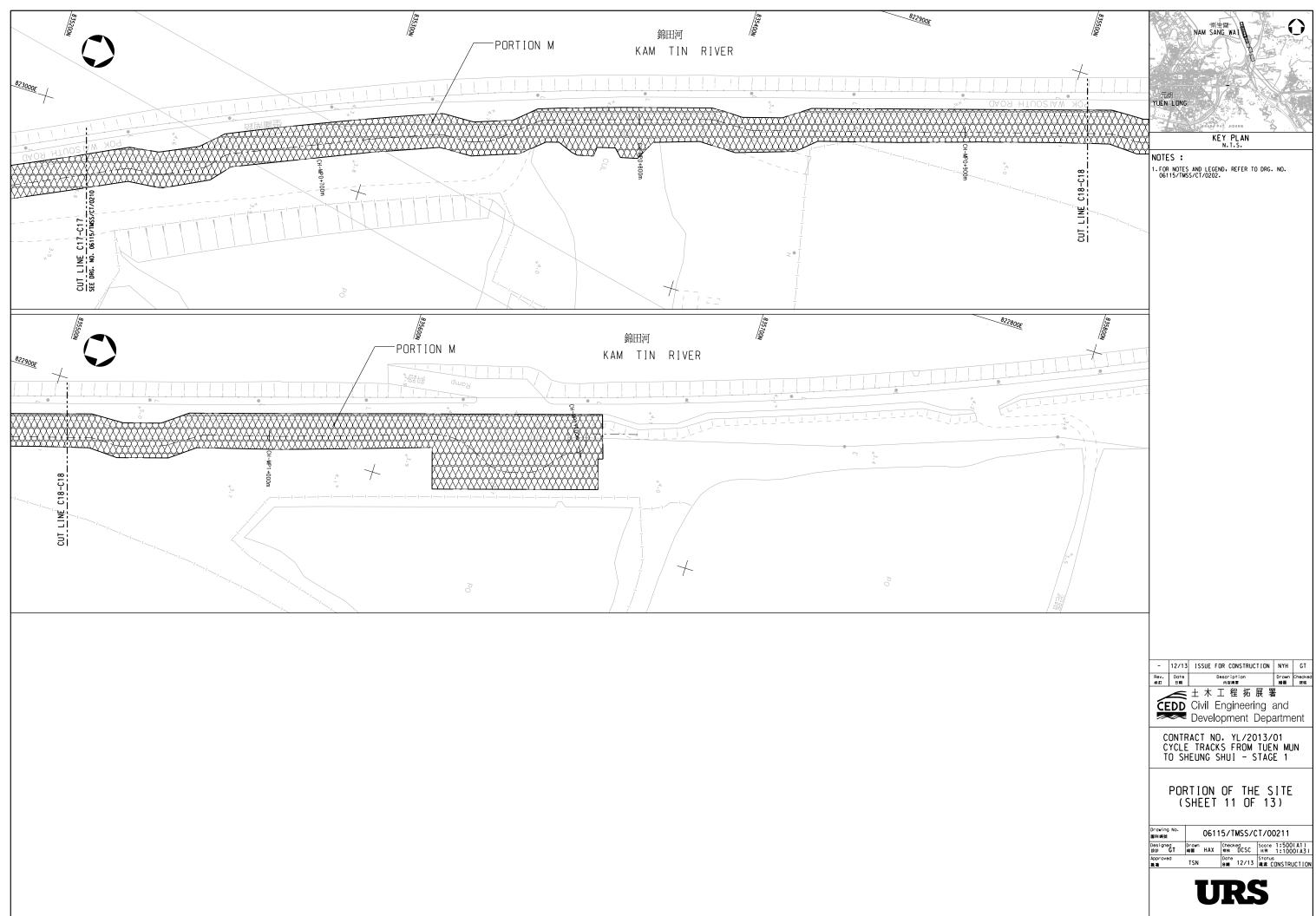


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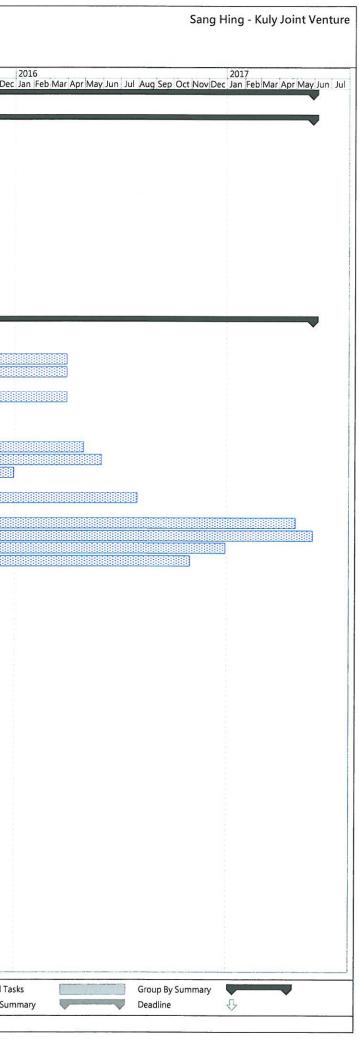


# APPENDIX 2 CONSTRUCTION PROGRAMME

#### Cycle Tracks from Tuen Mun to Sheugn Shui - Stage 1

Project Programme of the Works

| 110,0       | et rogramme of the works   |   |                                |  |   |
|-------------|--|---|--------------------------------|--|---|
| ID          | Task Name  | Duration  | Start                          | Finish Predecessors                            | 2014 2015   |
| 1           | Project Programme of the Works   | 1279 days   | Fri 13 Nov 29                  | Tue 17 May 30                                  | Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec |
| 2           |  |   |                                |  |   |
| 3           | 1. Contract Key Dates  | 1279 days   | Fri 13 Nov 29                  | Tue 17 May 30                                  | V.  |
| 4           | 1.2 Date for Commencement of the Works   | 0 days  | Fri 13 Nov 29                  |  |   |
| 5           | 1.3 Site Possession Dates  | 184 days  | Fri 13 Nov 29                  |  |   |
| 6           | Portion A  | 0 days  | Fri 13 Nov 29                  |  |   |
| 8           | Portion B  | 0 days  | Fri 13 Nov 29                  | Fri 13 Nov 29                                  |   |
| 9           | Portion C1, C3 & C4<br>Portion C2  | 0 days  | Fri 13 Nov 29                  | Fri 13 Nov 29                                  |   |
| 10          | Portion D  | 0 days  | Sun 14 Mar 2                   | Sun 14 Mar 2 4FS+94 days                       |   |
| 11          | Portion E  | 0 days<br>0 days  | Fri 13 Nov 29<br>Fri 13 Nov 29 | Fri 13 Nov 29<br>Fri 13 Nov 29                 |   |
| 12          | Portion G1   | 0 days  | Fri 13 Nov 29                  | Fri 13 Nov 29                                  |   |
| 13          | Portion G2   | 0 days  | Sat 14 May 31                  | Sat 14 May 31 4FS+184 days                     |   |
| 14          | Portion H  | 0 days  | Wed 14 Apr 30                  | Wed 14 Apr 30 4FS+153 days                     |   |
| 15          | Poriton I  | 0 days  | Wed 14 Apr 30                  | Wed 14 Apr 30 4FS+153 days                     |   |
| 16          | Portion J  | 0 days  | Fri 13 Nov 29                  | Fri 13 Nov 29                                  |   |
| 17          | Portion K  | 0 days  | Wed 14 Apr 30                  | Wed 14 Apr 30 4FS+153 days                     |   |
| 18          | Portion M  | 0 days  | Fri 13 Nov 29                  | Fri 13 Nov 29                                  |   |
| 19          | 1.4 Section Completion of the Works  | 1279 days   | Fri 13 Nov 29                  | Tue 17 May 30                                  |   |
| 20          | Section W1A - Portions C1, C3 & C4   | 548 days  | Fri 13 Nov 29                  | Sat 15 May 30                                  |   |
| 21          | Section W1B - Portion C2   | 274 days  | Fri 13 Nov 29                  | Fri 14 Aug 29                                  |   |
| 22          | Section W2 - Portions D & E  | 854 days  | Fri 13 Nov 29                  | Thu 16 Mar 31                                  |   |
| 23<br>24    | Section W3 - Portions G1 & G2  | 854 days  | Fri 13 Nov 29                  | Thu 16 Mar 31                                  |   |
| 24          | Section W4 - Portions H, I & K<br>Section W5 - Portion J   | 701 days  | Fri 13 Nov 29                  | Fri 15 Oct 30                                  |   |
| 26          | Section W7 - Portion M   | 854 days  | Fri 13 Nov 29                  | Thu 16 Mar 31                                  |   |
| 27          | Section W8A - Landscape Softworks within Portions C1, C3 & C4                                    | 639 days<br>609 days  | Fri 13 Nov 29<br>Fri 13 Nov 29 | Sat 15 Aug 29<br>Thu 15 Jul 30                 |   |
| 28          | Section W8B - Landscape Softworks within Portion C2  | 274 days  | Fri 13 Nov 29                  | Fri 14 Aug 29                                  |   |
| 29          | Section W8C - Landscape Softworks within Portion G1 & J  | 883 days  | Fri 13 Nov 29                  | Fri 16 Apr 29                                  |   |
| 30          | Section W8D - Landscape Softworks within Portion D & E   | 914 days  | Fri 13 Nov 29                  | Mon 16 May 30                                  |   |
| 31          | Section W8E - Landscape Softworks within Portions I & K  | 762 days  | Fri 13 Nov 29                  | Wed 15 Dec 30                                  |   |
| 32          | Section W8F - Landscape Softworks within Portion M   | 701 days  | Fri 13 Nov 29                  | Fri 15 Oct 30                                  |   |
| 33          | Section W9A - Establishment Works within Portions C1, C3 & C4                                    | 975 days  | Fri 13 Nov 29                  | Sat 16 Jul 30                                  |   |
| 34          | Section W9B - Establishment Works within Portion C2  | 639 days  | Fri 13 Nov 29                  | Sat 15 Aug 29                                  |   |
| 35          | Section W9C - Establishment Works within Portions G1 & J   | 1249 days   | Fri 13 Nov 29                  | Sun 17 Apr 30                                  |   |
| 36          | Section W9D - Establishment Works within Portions D & E  | 1279 days   | Fri 13 Nov 29                  | Tue 17 May 30                                  |   |
| 37          | Section W9E - Establishment Works within Portion I & K   | 1128 days   | Fri 13 Nov 29                  | Fri 16 Dec 30                                  |   |
| 38          | Section W9F - Establishment Works within Portion M   | 1067 days   | Fri 13 Nov 29                  | Sun 16 Oct 30                                  |   |
| 39          |  |   |                                |  |   |
| 40          | 2. Preliminary Works   | 120 days  | Fri 13 Nov 29                  | Fri 14 Mar 28                                  |   |
| 41 42       | Design and approval of Hoarding & Fencing<br>Construction of Hoarding & Fencing for Site Offices | 21 days   | Fri 13 Nov 29                  | Thu 13 Dec 19 4                                |   |
| 43          | Set up Engineer's Office & Temp Accommondation   | 21 days   | Fri 13 Dec 20<br>Fri 13 Dec 20 | Thu 14 Jan 9 41<br>Mon 14 Feb 17 41            |   |
| 44          | Set up Contractor's Site Office  | 60 days<br>45 days  | Sat 14 Jan 4                   | Mon 14 Feb 17 41<br>Mon 14 Feb 17 43SS+15 days |   |
| 45          | Submission and construction of Project Signboard   | 45 days   | Fri 13 Dec 20                  | Sun 14 Feb 2 41                                |   |
| 46          | Initial topographic survey   | 120 days  | Fri 13 Nov 29                  | Fri 14 Mar 28 4                                |   |
| 47          | Prepare, submit & Approve ICE  | 30 days   | Fri 13 Nov 29                  | Sat 13 Dec 28 4                                | 8 8   |
| 48          | Prepare, Submit Draft Safety Plan  | 14 days   | Fri 13 Nov 29                  | Thu 13 Dec 12 4                                |   |
| 49          | Review & Approve Safety Plan   | 35 days   | Fri 13 Nov 29                  | Thu 14 Jan 2 4                                 |   |
| 50          | Prepare, Submit Draft Environmental Management Plan  | 21 days   | Fri 13 Nov 29                  | Thu 13 Dec 19 4                                |   |
| 51          | Review & Approve Environmental Management Plan   | 45 days   | Fri 13 Nov 29                  | Sun 14 Jan 12 4                                |   |
| 52          | Prepare, Submit & Approve Traffic Consultant   | 30 days   | Fri 13 Nov 29                  | Sat 13 Dec 28 4                                |   |
| 53          | Prepare and Submit Smart Card System   | 30 days   | Fri 13 Nov 29                  | Sat 13 Dec 28 4                                |   |
| 54          |  |   |                                |  |   |
| 55          | 3. Section W1A of the works - Portion C1, C3 & C4  | 548 days  | Fri 13 Nov 29                  | Sat 15 May 30                                  |   |
| 56          | Portion C3 - Tuen Mun Cycle Track Improvement  | 548 days  | Fri 13 Nov 29                  | Sat 15 May 30                                  |   |
| 57          | Preparation work and submissions   | 90 days   | Fri 13 Nov 29                  | Wed 14 Feb 26                                  |   |
| 58          | TTM design & submission and XP application   | 60 days   | Fri 14 Oct 10                  | Mon 14 Dec 8 7655,57                           |   |
| 59          | Road Works   | 128 days  | Tue 14 Dec 9                   | Wed 15 Apr 15 58                               |   |
| 60          | Installation of street furnitures / Road marking   | 60 days   | Wed 15 Apr 1                   | Sat 15 May 30 59FS-15 days                     |   |
| 61          | Portion C1 - Resting Station R14   | 375 days  | Fri 13 Nov 29                  | Mon 14 Dec 8                                   |   |
| 62<br>63    | Preparation work and submissions   | 90 days   | Fri 13 Nov 29                  | Wed 14 Feb 26                                  |   |
| 64          | Tree Survey and submission<br>Site Clearance   | 21 days   | Mon 14 Mar 3                   | Sun 14 Mar 23 86SS,62                          |   |
| 65          | Site Clearance<br>Tree felling   | 7 days  | Mon 14 Mar 24                  | Sun 14 Mar 30 63                               |   |
| 66          | Free telling<br>Erection of Type 1 Hoarding (100m)   | 14 days   | Mon 14 Mar 24                  | Sun 14 Apr 6 63                                |   |
| 67          | Drainage works   | 45 days<br>45 days  | Mon 14 Apr 7<br>Thu 14 May 22  | Wed 14 May 21 65,64                            |   |
| 68          | Cable duct laying with draw pits   | and the second se | Sun 14 Jul 6                   | Sat 14 Jul 5 66                                |   |
| 69          | Installation of irrigation pipe and irrigation point (3 nos.)                                    | 28 days<br>21 days  | Sun 14 Jul 6<br>Sun 14 Jul 6   | Sat 14 Aug 2 67<br>Sat 14 Jul 26 67            |   |
| 70          | Kerb laying  | 34 days   | Sun 14 Jul 6<br>Sun 14 Aug 3   | Sat 14 Jul 26 67<br>Fri 14 Sep 5 69,68         |   |
|             | ····· - ·····  | J- Jays   | Jun 14 Aug 3                   | 1111-3ch 2 03/00                               |   |
| Project: YL | /2013/01 Task  | Prog  | ess 🗖                          | Summary  | Rolled Up Critical Task   |
| Submissio   | n: 09 Dec 2013 Critical Task   | Miles   |                                |  | Polled Un Milestone Colit Draigt Sun  |
| <u> </u>    |  |   |                                |  |   |
|             |  |   |                                |  | Page 1  |
|             |  |   |                                |  |   |



Cycle Tracks from Tuen Mun to Sheugn Shui - Stage 1

Project Programme of the Works

| ID                 | Task Name   | Duration             | Start                          | Finish Predece                               | ssors 2014 2015  |
|--------------------|---|----------------------|--------------------------------|--|--|
| 71 O               | Coordinate and request HyD to install Public lighting (5 nos) | 60 days              | Sun 14 Aug 3                   | Wed 14 Oct 1 70SS                            | Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov De |
| 72                 | Installation of bicycle parking racks, shelter with bench     | 45 days              | Sat 14 Sep 6                   | Mon 14 Oct 20 70                             |  |
| 73                 | Pavement  | 49 days              | Tue 14 Oct 21                  | Mon 14 Dec 8 72                              |  |
| 74                 | Portion C4 - Bike Parking Area at Choy Yee Bridge             | 146 days             | Fri 14 Oct 10                  | Wed 15 Mar 4                                 |  |
| 75                 | Submission and consent from MTRCL                             | 45 days              | Sat 14 Oct 25                  | Mon 14 Dec 8 7755-45                         | i days   |
| 76                 | TTM design & submission and XP application                    | 60 days              | Fri 14 Oct 10                  | Mon 14 Dec 8 77SS-60                         | ) days   |
| 77                 | Site clearance  | 7 days               | Tue 14 Dec 9                   | Mon 14 Dec 15 73                             |  |
| 78                 | Kerb laying   | 21 days              | Tue 14 Dec 16                  | Mon 15 Jan 5 77                              |  |
| 79                 | Installation of bicycle parking racks                         | 28 days              | Tue 15 Jan 6                   | Mon 15 Feb 2 78                              |  |
| 80                 | Paving block laying   | 30 days              | Tue 15 Feb 3                   | Wed 15 Mar 4 79                              |  |
| 81<br>82           | Completion of Section W1A                                     | 0 days               | Sat 15 May 30                  | Sat 15 May 30 60,80                          |  |
| 83                 | 4. Section W1B of the Works - Portion C2                      | 274 days             | Fri 13 Nov 29                  | Fri 14 Aug 29                                |  |
| 84                 | Resting Station R2 at Pui To Road (South) Rest Garden         | 274 days             | Fri 13 Nov 29                  | Fri 14 Aug 29                                |  |
| 85                 | Pocession of site   | 94 days              | Fri 13 Nov 29                  | Sun 14 Mar 2                                 |  |
| 86                 | Site clearance  | 7 days               | Mon 14 Mar 3                   | Sun 14 Mar 9 9,85                            |  |
| 87                 | Erection of Type 3 Hoarding                                   | 21 days              | Mon 14 Mar 10                  | Sun 14 Mar 30 86                             |  |
| 88                 | Construction of DWAFT wall                                    | 58 days              | Mon 14 Mar 31                  | Tue 14 May 27 87                             |  |
| 89                 | Cable duct laying with draw pits                              | 21 days              | Wed 14 May 28                  | Tue 14 Jun 17 88                             |  |
| 90                 | kerb laying   | 15 days              | Wed 14 Jun 18                  | Wed 14 Jul 2 89                              |  |
| 91                 | Coordinate and request HyD to install Public lighting         | 30 days              | Thu 14 Jul 3                   | Fri 14 Aug 1 90                              |  |
| 92                 | Installation of bicycle parking racks, shelter with bench     | 28 days              | Thu 14 Jul 3                   | Wed 14 Jul 30 90                             |  |
| 93                 | Pavement  | 30 days              | Thu 14 Jul 31                  | Fri 14 Aug 29 92                             |  |
| 94                 | Completion of Section W1B                                     | 0 days               | Fri 14 Aug 29                  | Fri 14 Aug 29 93,91                          |  |
| 95<br>96           | 5. Section W2 of the Works - Portions D & E                   | 854 days             | Fri 13 Nov 29                  | Thu 16 Mar 31                                |  |
| 96                 | 5. Section W2 of the Works - Portions D & E<br>Portion D      | 854 days<br>854 days | Fri 13 Nov 29                  | Thu 16 Mar 31                                |  |
| 98                 | Tree survey and submission                                    | 45 days              | Fri 13 Nov 29                  | Sun 14 Jan 12                                | ETERSE.  |
| 99                 | Preparation work  | 300 days             | Mon 14 Jan 13                  | Sat 14 Nov 8                                 |  |
| 100                | tree felling / site clearance                                 | 120 days             | Mon 14 Jan 13                  | Mon 14 May 12 98                             |  |
| 101                | tree transplant   | 180 days             | Fri 14 Mar 14                  | Tue 14 Sep 9 100SS+                          | 60 days  |
| 102                | Geotechnical instrumentation                                  | 180 days             | Tue 14 May 13                  | Sat 14 Nov 8 10155+                          | 60 days  |
| 103                | Construction of RW2 (29 Bays) and cycle track / footpath      | 657 days             | Sat 14 Jun 14                  | Thu 16 Mar 31                                |  |
| 104                | Bay 1 - Bay 8   | 515 days             | Sat 14 Nov 1                   | Tue 16 Mar 29                                |  |
| 105                | Preloading exercise   | 140 days             | Sat 14 Nov 1                   | Fri 15 Mar 20 111                            | The construction works adjacent to exis  |
| 106                | RC structure  | 60 days              | Sun 15 Nov 1                   | Wed 15 Dec 30 105                            |  |
| 107                | Backfilling   | 60 days              | Tue 15 Dec 1                   | Fri 16 Jan 29 106SS+                         |  |
| 108<br>109         | Drainage works & duct laying for lighting                     | 30 days              | Thu 15 Dec 31                  | Fri 16 Jan 29 107SS+                         |  |
| 109                | Road works - cycle track & footpath<br>Bay 9 - Bay 16         | 60 days<br>290 days  | Sat 16 Jan 30<br>Sat 14 Jun 14 | Tue 16 Mar 29 108,107<br>Mon 15 Mar 30       |  |
| 111                | Preloading exercise   | 140 days             | Sat 14 Jun 14                  | Fri 14 Oct 31 102SS+:                        | 32 days  |
| 112                | RC structure  | 60 days              | Sat 14 Nov 1                   | Tue 14 Dec 30 111                            |  |
| 113                | Backfilling   | 60 days              | Mon 14 Dec 1                   | Thu 15 Jan 29 112SS+                         | 30 days  |
| 114                | Drainage works & duct laying for lighting                     | 30 days              | Wed 14 Dec 31                  | Thu 15 Jan 29 113SS+3                        | 30 days  |
| 115                | Road works - cycle track & footpath                           | 60 days              | Fri 15 Jan 30                  | Mon 15 Mar 30 113,114                        |  |
| 116                | Bay 17 - Bay 24   | 290 days             | Sat 15 Mar 21                  | Mon 16 Jan 4                                 |  |
| 117                | Preloading exercise   | 140 days             | Sat 15 Mar 21                  | Fri 15 Aug 7 105                             |  |
| 118                | RC structure  | 60 days              | Sat 15 Aug 8                   | Tue 15 Oct 6 117,112                         |  |
| 119                | Backfilling   | 60 days              | Mon 15 Sep 7                   | Thu 15 Nov 5 118SS+                          |  |
| 120                | Drainage works & duct laying for lighting                     | 30 days              | Wed 15 Oct 7                   | Thu 15 Nov 5 11955+                          |  |
| 121                | Road works - cycle track & footpath                           | 60 days              | Fri 15 Nov 6                   | Mon 16 Jan 4 119,120                         |  |
| 122<br>123         | Bay 25 - Bay 29<br>Preloading exercise                        | 237 days<br>135 days | Sat 15 Aug 8<br>Sat 15 Aug 8   | Thu 16 Mar 31<br>Sun 15 Dec 20 117           |  |
| 123                | RC structure  | 45 days              | Mon 15 Dec 21                  | Wed 16 Feb 3 123,118                         |  |
| 124                | Backfilling   | 45 days<br>45 days   | Tue 16 Jan 5                   | Thu 16 Feb 18 124SS+:                        |  |
| 126                | Drainage works & duct laying for lighting                     | 30 days              | Wed 16 Jan 20                  | Thu 16 Feb 18 12433+                         |  |
| 127                | Road works - cycle track & footpath                           | 42 days              | Fri 16 Feb 19                  | Thu 16 Mar 31 125,126                        |  |
| 128                | Construction of Resting Station R9                            | 60 days              | Sat 16 Jan 30                  | Tue 16 Mar 29 107                            |  |
| 129                | Construction RW4 (17 Bays) and cycle track / footpath         | 517 days             | Sat 14 Nov 1                   | Thu 16 Mar 31                                |  |
| 130                | Bay 1 - Bay 6   | 220 days             | Sat 14 Nov 1                   | Mon 15 Jun 8                                 |  |
| 131                | Preloading exercise   | 145 days             | Sat 14 Nov 1                   | Wed 15 Mar 25 111                            | It is expected the duration of preloadin   |
| 132                | RC structure  | 30 days              | Thu 15 Mar 26                  | Fri 15 Apr 24 131                            |  |
| 133                | Backfilling   | 30 days              | Fri 15 Apr 10                  | Sat 15 May 9 13255+3                         |  |
| 134                | Drainage works & duct laying for lighting                     | 15 days              | Sat 15 Apr 25                  | Sat 15 May 9 133SS+1                         |  |
| 135                | Road works - cycle track & footpath                           | 30 days              | Sun 15 May 10                  | Mon 15 Jun 8 133,134                         |  |
| 136                | Bay 7 - Bay 12  | 220 days             | Thu 15 Mar 26                  | Sat 15 Oct 31                                |  |
| 137                | Preloading exercise   | 145 days             | Thu 15 Mar 26                  | Mon 15 Aug 17 131                            |  |
| 138                | RC structure  | 30 days              | Tue 15 Aug 18                  | Wed 15 Sep 16 137,132                        |  |
| 139<br>140         | Backfilling<br>Drainage works & duct laving for lighting      | 30 days              | Wed 15 Sep 2<br>Thu 15 Sep 17  | Thu 15 Oct 1 13855+1<br>Thu 15 Oct 1 13955+1 |  |
| 140                | Drainage works & duct laying for lighting                     | 15 days              | 110 15 Seb 1/                  | 110 15 OCL 1 13955+.                         |  |
| roject: YL/2013/01 | Task  | Prog                 | ress                           | Summa  | ry Rolled Up Critical Task Rolled Up Progress External T   |
| ubmission: 09 Dec  | 2013  |                      | tone                           | Rolled L                                     |  |
|                    |   |                      |                                | •  |  |
| 0                  |   |                      |                                |  | Page 2   |
|                    |   | 5-950 E              |                                |  |  |

# Sang Hing - Kuly Joint Venture 2016 Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul xisting fish pond to be undertaken during Dry Season -ding exercise would be shortened, so the 2nd batch of concrete blocks may not require. I Tasks Group By Summary Deadline t Summary ~ 3

#### Cycle Tracks from Tuen Mun to Sheugn Shui - Stage 1

Project Programme of the Works

| ID Task N  | 10000   |                               |   |               |                       |   |
|--|---|-------------------------------|---|---------------|-----------------------|---|
| 0  | Vame  |                               | Duration  | Start         | Finish Prede          | decessors 2014 2015<br>Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct N  |
| 141  | Road works - cycle track & footpa   | th                            | 30 days   | Fri 15 Oct 2  | Sat 15 Oct 31 139,14  | 140   |
| 142  | Bay 13 - Bay 17   |                               | 227 days  | Tue 15 Aug 18 | Thu 16 Mar 31         | Eccesi and a second s |
| 143  | Preloading exercise   |                               | 152 days  | Tue 15 Aug 18 | Sat 16 Jan 16 137     |   |
| 44   | RC structure  |                               | 30 days   | Sun 16 Jan 17 |                       |   |
| 145  | Backfilling   |                               | 30 days   | Mon 16 Feb 1  | Tue 16 Mar 1 14455    | SS+15 days  |
| 46   | Drainage works & duct laying for I  |                               | 15 days   | Tue 16 Feb 16 | Tue 16 Mar 1 145SS    | SS+15 days  |
| 47   | Road works - cycle track & footpa   | th                            | 30 days   | Wed 16 Mar 2  | Thu 16 Mar 31 145,14  | 146   |
| .48  | Portion E   |                               | 854 days  | Fri 13 Nov 29 | Thu 16 Mar 31         |   |
| .49  | Tree Survey and submission  |                               | 60 days   | Fri 13 Nov 29 | Mon 14 Jan 27         |   |
| 50   | Preparation works   |                               | 255 days  | Tue 14 Jan 28 | Thu 14 Oct 9          |   |
| 51   | tree felling / site clearance   |                               | 120 days  | Tue 14 Jan 28 | Tue 14 May 27 149     |   |
| 52   | tree transplant   |                               | 240 days  | Wed 14 Feb 12 | Thu 14 Oct 9 151SS    |   |
| 53   | Construction of RW1 (36 Bays) and cycle<br>track/footpath/treepits/drainage |                               | 734 days  | Sat 14 Mar 29 | Thu 16 Mar 31         |   |
| 54   | Bay 1 - Bay 5   |                               | 150 days  | Tue 15 Nov 3  | Thu 16 Mar 31 160     |   |
| 55   | Bay 6 - Bay 10  |                               | 95 days   | Sat 14 Mar 29 | Tue 14 Jul 1 152SS    | SS+45 days  |
| 56   | Bay 11 - Bay 15   |                               | 95 days   | Wed 14 Jul 2  | Sat 14 Oct 4 155      | Proceedings and a second s  |
| 7  | Bay 16 - Bay 20   |                               | 95 days   | Sun 14 Oct 5  | Wed 15 Jan 7 156      |   |
| 8  | Bay 21 - Bay 25   |                               | 95 days   | Thu 15 Jan 8  | Sun 15 Apr 12 157     |   |
| 9  | Bay 26 - Bay 30   |                               | 95 days   | Mon 15 Apr 13 | Thu 15 Jul 16 158     |   |
| 0  | Bay 31 - Bay 36   |                               | 109 days  | Fri 15 Jul 17 | Mon 15 Nov 2 159      |   |
| 1  | Construction of RW5 (14 Bays) and cycle                                     |                               | 284 days  | Mon 15 Jun 22 | Thu 16 Mar 31         |   |
|  | track/footpath/treepits/drainage  |                               |   |               |                       |   |
| 2  | Bay 1 - Bay 5   |                               | 95 days   | Mon 15 Jun 22 | Thu 15 Sep 24 171     |   |
| 3  | Bay 6 - Bay 10  |                               | 95 days   | Fri 15 Sep 25 | Mon 15 Dec 28 162     |   |
|  | Bay 11 - Bay 14   |                               | 94 days   | Tue 15 Dec 29 | Thu 16 Mar 31 163     |   |
|  | Construction of RW8 (28 Bays) and cycle                                     | track/footpath/drainage       | 450 days  | Sat 14 Mar 29 | Sun 15 Jun 21         |   |
|  | Bay 1 - Bay 5   |                               | 75 days   | Sat 14 Mar 29 | Wed 14 Jun 11 152SS   | S+45 days   |
|  | Bay 6 - Bay 10  |                               | 75 days   | Thu 14 Jun 12 |                       |   |
|  | Bay 11 - Bay 15   |                               | 75 days   | Tue 14 Aug 26 | Sat 14 Nov 8 167      |   |
|  | Bay 16 - Bay 20   |                               | 75 days   | Sun 14 Nov 9  | Thu 15 Jan 22 168     |   |
|  | Bay 21 - Bay 25   |                               | 75 days   | Fri 15 Jan 23 | Tue 15 Apr 7 169      |   |
|  | Bay 26 - Bay 28   |                               | -   |               |                       |   |
|  | Completion of Section W2  |                               | 75 days   | Wed 15 Apr 8  | Sun 15 Jun 21 170     |   |
|  | completion of section w2  |                               | 0 days  | Thu 16 Mar 31 | Thu 16 Mar 31 127,12  | 128,147,154,.   |
| 6.   | Section W3 of the Works - Portions G1 & G2                                  |                               | 854 days  | Fri 13 Nov 29 | Thu 16 Mar 31         |   |
| 5  | Tree survey and submission  |                               | 21 days   | Fri 13 Nov 29 | Thu 13 Dec 19         | S+14 dave   |
|  | Tree felling / site clearance   |                               | 60 days   | Fri 13 Dec 13 | Mon 14 Feb 10 175SS   |   |
|  | Hoarding erection   |                               | 120 days  | Fri 13 Dec 27 | Fri 14 Apr 25 176SS   |   |
|  | Temp foothpath diversion / Trial pits (2 nos.)                              |                               | 28 days   | Fri 13 Nov 29 | Thu 13 Dec 26         |   |
|  | Footpath diversion  |                               | 60 days   | Fri 13 Dec 27 | Mon 14 Feb 24 176SS   | S+14 days,1   |
|  | Utility detection / utility mapping / submission                            |                               | 45 days   | Fri 13 Nov 29 | Sun 14 Jan 12         |   |
|  | Utility diversion - CLP/HKBN & removal of stree<br>w/ water points          | et lighting / irrigation pipe | 180 days  | Fri 13 Nov 29 | Tue 14 May 27         |   |
|  | Consent from MTRCL  |                               | 45 days   | Fri 13 Nov 29 | Sun 14 Jan 12         |   |
|  | Tree transplant   |                               | 150 days  | Fri 13 Dec 20 | Sun 14 May 18 175     |   |
| _  | Constructed & removal of existing underground                               | d drainage                    | 90 days   | Tue 14 Feb 25 | Sun 14 May 25 180,17  | 79 182  |
|  | Construction of public toilet   |                               | 363 days  | Mon 14 Jan 13 | Sat 15 Jan 10         |   |
| -  | Excavation for sub-structure  |                               | 21 days   | Mon 14 Jan 13 | Sun 14 Feb 2 180,18   | 82  |
|  | Disposal of excavated material to Employer                                  | 's tin at LianTang            | The second se |               |                       |   |
|  | Construction of concrete footing  | s up at tiann ang             | 21 days   | Mon 14 Jan 13 | Sun 14 Feb 2 186SS    |   |
| -  | RC structures   |                               | 42 days   | Mon 14 Feb 3  | Sun 14 Mar 16 187,18  |   |
| -  |   |                               | 105 days  | Mon 14 Mar 17 | Sun 14 Jun 29 188     |   |
|  | Internal finishes   |                               | 105 days  | Mon 14 Jun 30 | Sun 14 Oct 12 189     |   |
| _  | Electrical installation   |                               | 105 days  | Fri 14 Aug 29 | Thu 14 Dec 11 19055+  |   |
|  | External finishes   |                               | 105 days  | Sun 14 Sep 28 | Sat 15 Jan 10 19055-  | S+90 days   |
|  | Construction of Kiosks  |                               | 462 days  | Wed 14 May 28 | Tue 15 Sep 1          |   |
|  | Excavation for sub-structure  |                               | 42 days   | Wed 14 May 28 | Tue 14 Jul 8 181,18   | 83SS+90 da  |
|  | Disposal of excavated material to Employer                                  | 's tip at LianTang            | 42 days   | Wed 14 May 28 | Tue 14 Jul 8 19455    |   |
|  | Construction of concrete footing  |                               | 60 days   | Wed 14 Jul 9  | Sat 14 Sep 6 195,194  |   |
|  | RC structures   |                               | 135 days  | Sun 14 Sep 7  | Mon 15 Jan 19 196,18  |   |
|  | Internal finishes   |                               | 135 days  | Tue 15 Jan 20 | Wed 15 Jun 3 197,19   |   |
|  | Electrical installation   |                               | 135 days  | Sat 15 Mar 21 | Sun 15 Aug 2 19855+   |   |
|  | External finishes   |                               | 135 days  |               |                       |   |
|  | Drainage works  |                               |   | Mon 15 Apr 20 | Tue 15 Sep 1 198SS+   |   |
|  | Laying of watermains and irrigation system                                  |                               | 90 days   | Wed 15 Sep 2  | Mon 15 Nov 30 200,198 |   |
|  |   |                               | 60 days   | Fri 15 Oct 2  | Mon 15 Nov 30 20155+  | S+30 days   |
|  | Kerb laying / planter   |                               | 90 days   | Tue 15 Dec 1  | Sun 16 Feb 28 202     |   |
|  | Construction of paving slab   |                               | 77 days   | Fri 16 Jan 15 | Thu 16 Mar 31 203SS+  | 5+45 days   |
|  | Construction of cycle track and footpath                                    |                               | 90 days   | Tue 15 Dec 1  | Sun 16 Feb 28 202     |   |
|  | TTM submission for relocation of Bus Stop                                   |                               | 90 days   | Wed 15 Sep 2  | Mon 15 Nov 30 207SS-  | 5-90 days   |
|  | Relocation of Bus Stop and construction of lay<br>pickup/drop off           | by for cyclists               | 90 days   | Tue 15 Dec 1  | Sun 16 Feb 28 205SS   |   |
|  |   | k Element                     | Progr   | ess           | Summa                 | nary Rolled Up Critical Task Rolled Up Progress   |
| : YL/2013/01   |   |                               |   |               |                       |   |
| : YL/2013/01<br>ate: 29 Nov 2013<br>ssion: 09 Dec 2013 |   | ical Task                     | Miles   |               |                       | d Up Task Rolled Up Milestone Split Proje   |

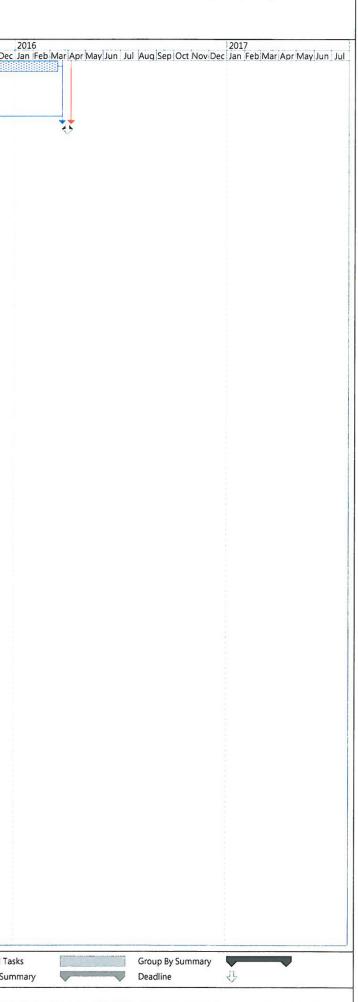
# 2016 Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Tasks Group By Summary . Deadline Summary Sr

#### Sang Hing - Kuly Joint Venture

#### Cycle Tracks from Tuen Mun to Sheugn Shui - Stage 1

Project Programme of the Works

|                                      |   |   |                                |   | 12223   |   |
|--------------------------------------|---|---|--------------------------------|---|---|---|
| ID<br>O                              | Task Name   | Duration  | Start                          | Finish Predecessors   | 2014<br>Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec | 2015<br>c Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec |
| 208                                  | Construction of bicycle parking racks                     | 105 days  | Tue 15 Dec 1                   |   |   |   |
| 209                                  | Realignment of Cycle track and footpath at Ng Lau Ro      |   | Wed 14 Oct 22                  |   |   |   |
| 210                                  | TTM submission  | 90 days   | Wed 14 Oct 22                  | Mon 15 Jan 19 211SS-90 days   |   |   |
| 211                                  | Construction of RWH1                                      | 120 days  | Tue 15 Jan 20                  |   |   |   |
| 212                                  | Backfilling and construction of cycle track and footp     | path 150 days   | Wed 15 May 20                  | Fri 15 Oct 16 211   |   |   |
| 213                                  | Completion of Section W3                                  | 0 days  | Thu 16 Mar 31                  | Thu 16 Mar 31 212,204,207,208,  |   |   |
| 214                                  |   |   |                                |   |   |   |
| 215                                  | 7. Section W4 of the Works - Portions H, I & K            | 701 days  | Fri 13 Nov 29                  | Fri 15 Oct 30   |   |   |
| 216                                  | Portion H   | 701 days  | Fri 13 Nov 29                  | Fri 15 Oct 30   |   |   |
| 217                                  | Improvement of Cycle Tracks, Footpaths & associa          | ated Road 701 days  | Fri 13 Nov 29                  | Fri 15 Oct 30   |   |   |
| 218                                  | Works at Lam Tei<br>Preparation work, TTM and submissions | 210 dava  | 5-112 May 20                   | Thu: 14 his 26  |   |   |
| 219                                  | CHA - A7+200 ~ A8+560                                     | 210 days  | Fri 13 Nov 29                  |   |   |   |
| 220                                  | A7+200 ~ A7+300   | 547 days  | Fri 14 May 2                   |   | STOCTOTIONS)  |   |
| 221                                  | A7+300 ~ A7+400   | 78 days   | Fri 14 May 2                   |   |   |   |
| 222                                  | A7+400 ~ A7+400<br>A7+400 ~ A7+500                        | 78 days   | Sat 14 Jul 19                  |   |   |   |
| 223                                  | A7+400 ~ A7+500<br>A7+500 ~ A7+600                        | 78 days   | Sun 14 Oct 5<br>Mon 14 Dec 22  |   |   |   |
| 224                                  | A7+600 ~ A7+700   | 78 days   | Tue 15 Mar 10                  |   |   |   |
| 225                                  | A7+700 ~ A7+800   | 78 days   | Wed 15 May 27                  | · · · · · · · · · · · · · · · · · · ·   |   |   |
| 226                                  | A7+800 ~ A7+900   | 78 days   |                                |   |   |   |
| 227                                  | A7+900 ~ A7+900<br>A7+900 ~ A8+000                        | 79 days   | Thu 15 Aug 13                  | Fri 15 Oct 30 225   |   | Essences  |
| 228                                  | A8+000 ~ A8+000   | 78 days   | Fri 14 May 2                   | Contraction of the second s |   |   |
| 228                                  | A8+000 ~ A8+000<br>A8+100 ~ A8+200                        | 78 days   | Sat 14 Jul 19                  |   |   |   |
| 230                                  | A8+100 ~ A8+200<br>A8+200 ~ A8+300                        | 78 days   | Sun 14 Oct 5                   |   |   |   |
| 231                                  | A8+300 ~ A8+400   | 78 days   | Mon 14 Dec 22                  | Mon 15 Mar 9 229  |   |   |
| 232                                  | A8+300 ~ A8+300<br>A8+400 ~ A8+500                        | 78 days   | Tue 15 Mar 10                  |   |   |   |
| 233                                  | A8+500 ~ A8+560   | 78 days<br>79 days  | Wed 15 May 27                  | Wed 15 Aug 12 231<br>Fri 15 Oct 30 232  |   |   |
| 234                                  | Portion I   | 701 days  | Thu 15 Aug 13<br>Fri 13 Nov 29 | Fri 15 Oct 30   |   | 56266666666   |
| 235                                  | Improvement of Cycle Tracks, Footpaths & associa          |   | Fri 13 Nov 29                  | Fri 15 Oct 30   |   |   |
|                                      | Works at Hung Shui Kiu                                    | lied Road 701 days  | 11113 1400 23                  | 1113 02130  |   |   |
| 236                                  | Preparation work, TTM and submissions                     | 210 days  | Fri 13 Nov 29                  | Thu 14 Jun 26   |   |   |
| 237                                  | CHA - A8+585 ~ A10+169                                    | 547 days  | Fri 14 May 2                   | Fri 15 Oct 30   |   |   |
| 38                                   | A8+585 ~ A8+700   | 71 days   | Fri 14 May 2                   |   |   |   |
| 239                                  | A8+700 ~ A8+800   | 68 days   | Sat 14 Jul 12                  |   |   |   |
| 240                                  | A8+800 ~ A8+900   | 68 days   | Thu 14 Sep 18                  | Mon 14 Nov 24 239   |   |   |
| 241                                  | A8+900 ~ A9+000   | 68 days   | Tue 14 Nov 25                  | Sat 15 Jan 31 240   |   |   |
| 42                                   | A9+000 ~ A9+100   | 68 days   | Sun 15 Feb 1                   | Thu 15 Apr 9 241  |   |   |
| 243                                  | A9+100 ~ A9+200   | 68 days   | Fri 15 Apr 10                  | Tue 15 Jun 16 242   |   |   |
| 244                                  | A9+200 ~ A9+300   | 68 days   | Wed 15 Jun 17                  | Sun 15 Aug 23 243   |   |   |
| 245                                  | A9+300 ~ A9+400   | 68 days   | Mon 15 Aug 24                  | Fri 15 Oct 30 244   |   |   |
| 246                                  | A9+400 ~ A9+500   | 68 days   | Fri 14 May 2                   | Tue 14 Jul 8 15SS+1 day   |   |   |
| 247                                  | A9+500 ~ A9+600   | 68 days   | Wed 14 Jul 9                   | Sun 14 Sep 14 246   |   |   |
| 248                                  | A9+600 ~ A9+700   | 68 days   | Mon 14 Sep 15                  | Fri 14 Nov 21 247   |   |   |
| 49                                   | A9+700 ~ A9+800   | 68 days   | Sat 14 Nov 22                  | Wed 15 Jan 28 248   |   |   |
| 250                                  | A9+800 ~ A9+900   | 68 days   | Thu 15 Jan 29                  | Mon 15 Apr 6 249  |   |   |
| 251                                  | A9+900 ~ A10+000  | 68 days   | Tue 15 Apr 7                   | Sat 15 Jun 13 250   |   |   |
| 52                                   | A10+000 ~ A10+100   | 68 days   | Sun 15 Jun 14                  | Thu 15 Aug 20 251   |   |   |
| :53                                  | A10+100 ~ A10+169   | 71 days   | Fri 15 Aug 21                  | Fri 15 Oct 30 252   |   |   |
| 54                                   | CHA - E0+000 ~ E0+345                                     | 272 days  | Fri 14 May 2                   | Wed 15 Jan 28   |   |   |
| 55                                   | E0+000 ~ E0+100   | 68 days   | Fri 14 May 2                   | Tue 14 Jul 8 155S+1 day   |   |   |
| 56                                   | E0+100 ~ E0+200   | 68 days   | Wed 14 Jul 9                   | Sun 14 Sep 14 255   |   |   |
| 57                                   | E0+200 ~ E0+300   | 68 days   | Mon 14 Sep 15                  | Fri 14 Nov 21 256   |   |   |
| 58                                   | E0+300 ~ E0+345   | 68 days   | Sat 14 Nov 22                  | Wed 15 Jan 28 257   |   |   |
| 59                                   | CHA - D0+000 ~ D0+380                                     | 275 days  | Thu 15 Jan 29                  | Fri 15 Oct 30   |   |   |
| 60                                   | D0+000 ~ D0+100   | 68 days   | Thu 15 Jan 29                  | Mon 15 Apr 6 258  |   |   |
| 61                                   | D0+100 ~ D0+200   | 68 days   | Tue 15 Apr 7                   | Sat 15 Jun 13 260   |   |   |
| 62                                   | D0+200 ~ D0+300   | 71 days   | Sun 15 Jun 14                  | Sun 15 Aug 23 261   |   |   |
| 63                                   | D0+300 ~ D0+380   | 68 days   | Mon 15 Aug 24                  | Fri 15 Oct 30 262   |   |   |
| 64                                   | Portion K   | 701 days  | Fri 13 Nov 29                  | Fri 15 Oct 30   |   |   |
| 65                                   | Improvement of Cycle Tracks, Footpaths & associat         | ated Road 701 days  | Fri 13 Nov 29                  | Fri 15 Oct 30   |   |   |
| <u></u>                              | Works at Yuen Long  |   |                                |   |   |   |
| 66                                   | Preparation work, TTM and submsions                       | 210 days  | Fri 13 Nov 29                  | Thu 14 Jun 26   |   |   |
| 67                                   | CHA - E1+100 ~ E1+800 Ping Shan                           | 229 days  | Thu 15 Jan 29                  | Mon 15 Sep 14   |   |   |
| 68                                   | E1+100 ~ E1+200   | 25 days   | Thu 15 Jan 29                  | Sun 15 Feb 22 258   |   |   |
| 69                                   | E1+200 ~ E1+300   | 25 days   | Mon 15 Feb 23                  | Thu 15 Mar 19 268   |   |   |
| 70                                   | E1+300 ~ E1+400   | 25 days   | Fri 15 Mar 20                  | Mon 15 Apr 13 269   |   |   |
| 71                                   | E1+400 ~ E1+500   | 52 days   | Tue 15 Apr 14                  | Thu 15 Jun 4 270  |   |   |
| 72                                   | E1+500 ~ E1+600   | 25 days   | Fri 15 Jun 5                   | Mon 15 Jun 29 271   |   |   |
| 73                                   | E1+600 ~ E1+700   | 25 days   | Tue 15 Jun 30                  | Fri 15 Jul 24 272   |   |   |
| 74                                   | E1+700 ~ E1+800   | 52 days   | Sat 15 Jul 25                  | Mon 15 Sep 14 273   |   |   |
| 75                                   | CHA - E2+265 ~ E2+370 Wan Tat Road                        | 46 days   | Tue 15 Sep 15                  | Fri 15 Oct 30 274   |   |   |
| iect: YI /2013/01                    |   | provide the second s |                                |   | Balladita estador a Brandoreza                                      |   |
| ject: YL/2013/01<br>a Date: 29 Nov 2 | 013 Task  | Prog  |                                | Summary   | Rolled Up Critical Task   | Rolled Up Progress External Tas                           |
| mission: 09 Dec                      | 2013 Critical Task  | Mile  | stone                          | Rolled Up Task  | Rolled Up Milestone 🛇   | Split Project Sum   |
|                                      |   |   | Contra Contra                  |   | Page 4  |   |
|                                      |   |   |                                |   |   |   |



Sang Hing - Kuly Joint Venture

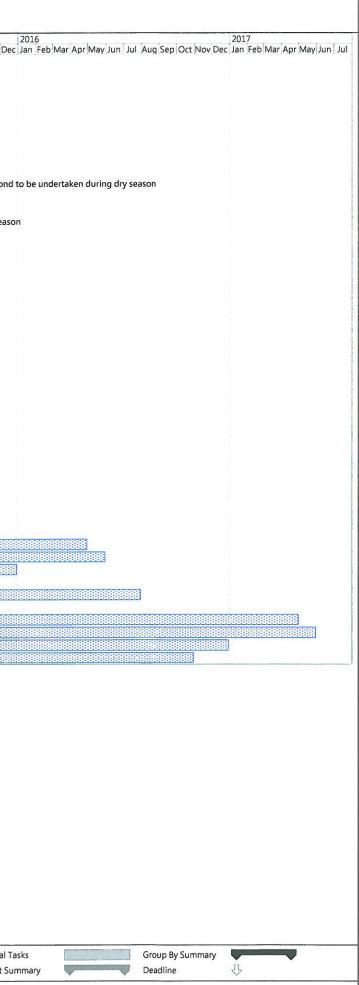
|                | ks from Tuen Mun to Sheugn Shui - Stage 1<br>ogramme of the Works                           |                      |                                |                              |  |  |
|----------------|---|----------------------|--------------------------------|------------------------------|--|--|
| D              | Task Name   | Duration             | Start                          | Finish                       | Predecessors                                 | 2014 2015 2016 2017  |
| <b>0</b><br>76 |   |                      |                                |                              |  | Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Ma |
| 0              | CHA - m0+00 ~ m0+200 YOHO Town Phase 3 Development  | 125 days             | Mon 14 Oct 13                  | Sat 15 Feb 1                 | 14 282                                       |  |
| 77             | CHA - E5+840 ~ E5+915 Pok Io  | 50 days              | Sun 15 Feb 15                  | Sun 15 Apr                   | 5 276  | n in the second s  |
| 78             | Stream Decking STR1   | 240 days             | Thu 14 May 1                   | Fri 14 Dec 2                 | 26   |  |
| 79             | Submission and consent from MTRCL   | 30 days              | Thu 14 May 1                   | Fri 14 May 3                 | 1755   |  |
| 80             | ELS / Excavation  | 60 days              | Sat 14 May 31                  | Tue 14 Jul 2                 | 9 279  |  |
| 81             | Base slab   | 30 days              | Wed 14 Jul 30                  | Thu 14 Aug 2                 | 28 280                                       |  |
| 82             | Wall and top Slab   | 45 days              | Fri 14 Aug 29                  |                              |  |  |
| 83             | Railing   | 45 days              | Mon 14 Oct 13                  |                              |  |  |
| 84             | Road works / Pavement   | 30 days              | Thu 14 Nov 27                  | Fri 14 Dec 2                 |  |  |
| 85<br>86       | Resting Station R4  | 208 days             | Mon 15 Apr 6                   | Fri 15 Oct 3                 |  |  |
| 80             | Tree survey and submission<br>Site clearance  | 14 days              | Mon 15 Apr 6                   |                              |  |  |
| 88             | Site clearance<br>Erection of temporary chain-link fence                                    | 7 days               | Mon 15 Apr 20                  | Sun 15 Apr 2                 |  |  |
| 89             | Tree felling  | 14 days              | Mon 15 Apr 27                  |                              |  |  |
| 90             | Drainage works  | 7 days               | Mon 15 May 11                  |                              |  |  |
| 91             | Cable duct laying with draw pits  | 21 days<br>25 days   | Mon 15 May 18<br>Mon 15 Jun 8  | Sun 15 Jun<br>Thu 15 Jul     |  |  |
| 92             | Installation of irrigation pipe and irrigation point (3 nos.)                               | 25 days<br>25 days   | Mon 15 Jun 8                   | Thu 15 Jul                   |  |  |
| 93             | Kerb laying   | 30 days              | Fri 15 Jul 3                   | Sat 15 Aug                   |  |  |
| 94             | Coordinate and request HyD to install Public lighting (4 nos)                               | 60 days              | Fri 15 Jul 3                   | Mon 15 Aug 3                 |  |  |
| 95             | Installation of bicycle parking racks, shelter with bench                                   | 45 days              | Sun 15 Aug 2                   | Tue 15 Sep 1                 |  |  |
| 96             | Pavement  | 45 days              | Wed 15 Sep 16                  | Fri 15 Oct 3                 |  |  |
| 97             | Completion of Section W4  | 0 days               | Fri 15 Oct 30                  |                              | 0 226,233,245,253                            |  |
| 98             |   |                      |                                |                              |  | $\vee$   |
| 99             | 8. Section W5 of the Works - Portion J  | 854 days             | Fri 13 Nov 29                  | Thu 16 Mar 3                 | 1  |  |
| 00             | Tree survey and submission  | 14 days              | Fri 13 Nov 29                  | Thu 13 Dec 1                 | 2  |  |
| 01             | Tree felling / site clearance   | 14 days              | Fri 13 Dec 6                   | Thu 13 Dec 1                 | 9 300SS+7 days                               |  |
| 02             | Hoarding erection   | 90 days              | Fri 13 Dec 20                  | Wed 14 Mar 1                 | 9 301  |  |
| 03             | Trial pits (4 nos.)   | 48 days              | Fri 13 Nov 29                  | Wed 14 Jan 1                 | 5  |  |
| 04             | Utility detection / detection of existing DN1000 rising main sewer / utility                | 30 days              | Fri 13 Nov 29                  | Sat 13 Dec 2                 | 8  |  |
| 05             | mapping / submission<br>Utility diversion - gas main & PCCW cable by others                 | 00 days              | Cur 12 Dec 20                  | F-114 Mar 2                  | 0.004  |  |
| 06             | Tree transplant   | 90 days<br>90 days   | Sun 13 Dec 29<br>Fri 13 Dec 13 | Fri 14 Mar 2<br>Wed 14 Mar 1 |  |  |
| 07             | Construction of food kiosk and metter room  | 426 days             | Mon 14 Feb 3                   | Sat 15 Apr                   |  |  |
| 08             | Excavation for sub-structure  | 21 days              | Mon 14 Feb 3                   |                              | 3 30255+45 days,                             |  |
| 09             | Disposal of excavated material to Employer's tip at LianTang and DSD Contract DC/2010/02    | 21 days              | Mon 14 Feb 3                   | Sun 14 Feb 2                 |  |  |
| 10             | Construction of concrete footing  | 45 days              | Mon 14 Feb 24                  | Wed 14 Apr                   | 9 309,308                                    |  |
| 11             | RC structures   | 150 days             | Thu 14 Apr 10                  | Sat 14 Sep                   | 6 310  |  |
| 12             | Internal finishes   | 120 days             | Sun 14 Sep 7                   | Sun 15 Jan                   |  |  |
| 13             | Electrical installation   | 120 days             | Thu 14 Nov 6                   |                              | 5 312SS+60 days                              |  |
| 14             | External finishes   | 120 days             | Sat 14 Dec 6                   |                              | 4 312SS+90 days                              |  |
| 15<br>16       | Construction of first aid and cycle rental kiosks<br>Excavation for sub-structure           | 426 days             | Sat 14 Mar 29                  | Thu 15 May 2                 |  |  |
| 17             | Disposla of excavated material to Employer's tip at LianTang and DSD<br>Contract DC/2010/02 | 21 days<br>21 days   | Sat 14 Mar 29<br>Sat 14 Mar 29 | Fri 14 Apr 1<br>Fri 14 Apr 1 | 8 302SS+60 days,<br>8 316SS                  |  |
| 8              | Construction of concrete footing  | 45 days              | Sat 14 Apr 19                  | Mon 14 lun                   | 2 317,316,310                                |  |
| .9             | RC structures   | 150 days             | Tue 14 Jun 3                   | Thu 14 Oct 3                 | C. Aller and the second second second second |  |
| 0              | Internal finishes   | 120 days             | Fri 14 Oct 31                  | Fri 15 Feb 2                 |  |  |
| 21             | Electrical installation   | 120 days             | Tue 14 Dec 30                  |                              | 8 32055+60 days                              |  |
| 22             | External finishes   | 120 days             | Thu 15 Jan 29                  |                              | 8 32055+90 days                              |  |
| 23             | Construction of public toilet   | 426 days             | Mon 14 Apr 28                  | Sat 15 Jun 2                 |  |  |
| 24             | Excavation for sub-structure  | 21 days              | Mon 14 Apr 28                  |                              | 8 316SS+30 days                              |  |
| 25             | Disposal of excavated material to Employer's tip at LianTang and DSD                        | 21 days              | Mon 14 Apr 28                  | Sun 14 May 18                | 8 32455                                      |  |
| 6              | Contract DC/2010/02   |                      |                                |                              |  |  |
| 6<br>7         | Construction of concrete footing  | 45 days              | Mon 14 May 19                  |                              | 2 325,324,310                                |  |
| 8              | RC structures<br>Internal finishes  | 150 days             | Thu 14 Jul 3                   | Sat 14 Nov 29                |  |  |
| 9              | Electrical installation   | 120 days             | Sun 14 Nov 30                  | Sun 15 Mar 29                |  |  |
| 0              | External finishes   | 120 days<br>120 days | Thu 15 Jan 29<br>Sat 15 Eeb 28 |                              | 32855+60 days<br>32855+90 days               |  |
| 1              | Drainage works  |                      | Sat 15 Feb 28<br>Sun 15 Jun 28 |                              | 7 32855+90 days<br>5 314,322,330,312         |  |
| 2              | Laying of watermains and irrigation system  | 90 days<br>60 days   | Tue 15 Jul 28                  |                              | 5 314,322,330,312<br>5 331SS+30 days         |  |
| 3              | Kerb laying / planter   | 120 days             | Sat 15 Sep 26                  | Sat 16 Jan 23                |  |  |
| 4              | Construction of paving slab   | 128 days             | Wed 15 Nov 25                  |                              | 1 333SS+60 days                              |  |
| 5              | Completion of Section W5  | 0 days               | Thu 16 Mar 31                  | Thu 16 Mar 31                |  |  |
| 5              |   |                      |                                |                              |  | V  |
| 7              | 9. Section W7 of the Works - Portion M  | 639 days             | Fri 13 Nov 29                  | Sat 15 Aug 29                | )  |  |
| 8              | Cycle Tracks, Footpaths & associated Road Works at Kam Tin River                            | 639 days             | Fri 13 Nov 29                  | Sat 15 Aug 29                |  |  |
| 9              | CH - MP0+000 ~ MP1+100  | 639 days             | Fri 13 Nov 29                  | Sat 15 Aug 29                |  |  |
| 0              | Tree survey and submission  | 45 days              | Fri 13 Nov 29                  | Sun 14 Jan 12                | 2  |  |
| 1              | Tree Transplant   | 150 days             | Mon 14 Jan 13                  | Wed 14 Jun 11                |  |  |
| 2              | Construction of cycle track / footpath  | 504 days             | Sun 14 Apr 13                  | Sat 15 Aug 29                | )  |  |
| ct: YL/2013/0  | Task  | Progr                | ess 🗖                          |                              | Summary                                      | Rolled Up Critical Task Rolled Up Progress External Tasks Group By Summary   |
| Date: 29 Nov   |   |                      |                                |                              | a service and the second of                  |  |

#### Cycle Tracks from Tuen Mun to Sheugn Shui - Stage 1

Project Programme of the Works

| 0 | Task Name  | Duration  | Start         | Finish        | Predecessors    | 2014<br>Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct |
|---|--|-----------|---------------|---------------|-----------------|---|
| 3 | MP0+000 ~ MP0+080 proposed fill slope  | 120 days  | Wed 14 Oct 29 | Wed 15 Feb 25 | 368             |   |
|   | MP0+100 ~ MP0+160 L-shape RW3  | 90 days   | Wed 15 Apr 1  | Mon 15 Jun 29 | 361,343         |   |
|   | MP0+160 ~ MP0+300 widening of existing footpath  | 60 days   | Tue 15 Jun 30 | Fri 15 Aug 28 | 344             |   |
|   | MP0+300 ~ MP0+400  | 45 days   | Thu 15 Jul 16 | Sat 15 Aug 29 | 372,347         |   |
|   | MP0+400 ~ MP0+500  | 45 days   | Mon 15 Jun 1  | Wed 15 Jul 15 | 348             |   |
|   | MP0+500 ~MP0+580 U-shape RW6   | 87 days   | Fri 15 Mar 6  | Sun 15 May 31 | 349             |   |
|   | MP0+580 ~ MP0+760  | 60 days   | Mon 15 Jan 5  | Thu 15 Mar 5  | 353             |   |
|   | MP0+760 ~ MP0+830 U-shape RW7  | 87 days   | Mon 14 Aug 11 | Wed 14 Nov 5  | 351             |   |
|   | MP0+830 ~ MP1+025  | 60 days   | Thu 14 Jun 12 | Sun 14 Aug 10 | 352             |   |
|   | MP1+025 ~ MP1+050 U-shape RW   | 60 days   | Sun 14 Apr 13 | Wed 14 Jun 11 | 341SS+90 days   |   |
|   | MP1+050 ~ MP1+100 DWARF wall   | 60 days   | Thu 14 Nov 6  | Sun 15 Jan 4  | 350             | The construction works adjacent existing f  |
| 1 | Stream Decking STR2  | 331 days  | Sun 14 Aug 3  | Mon 15 Jun 29 |                 |   |
|   | TDMP design and submission   | 90 days   | Sun 14 Aug 3  | Fri 14 Oct 31 | 356SS-90 days   |   |
|   | Temporary flow diversion for south half portion  | 14 days   | Sat 14 Nov 1  | Fri 14 Nov 14 |                 | The construction works to be undertaken during I  |
|   | Demolition of exisitng base slab and wing wall   | 21 days   | Sat 14 Nov 15 | Fri 14 Dec 5  | 356             |   |
|   | Construction of box culvert and base slab / wing wall W2 of outlet   | 41 days   | Sat 14 Dec 6  | Thu 15 Jan 15 | 357             |   |
|   | Temporary flow diversion for north half portion  | 14 days   | Fri 15 Jan 16 | Thu 15 Jan 29 | 358             |   |
|   | Demolition of existing base slab and wing wall   | 21 days   | Fri 15 Jan 30 | Thu 15 Feb 19 | 359             |   |
|   | Construction of box culvert and base slab / wing wall W1 of outlet   | 40 days   | Fri 15 Feb 20 | Tue 15 Mar 31 | 360             |   |
| 1 | Railing installation and road works  | 90 days   | Wed 15 Apr 1  | Mon 15 Jun 29 | 361             |   |
| 1 | Resting Station R5   | 322 days  | Sun 14 Apr 13 | Sat 15 Feb 28 |                 |   |
|   | Site Clearance   | 7 days    | Sun 14 Apr 13 | Sat 14 Apr 19 | 341SS+90 days   |   |
|   | Erection of Type 1 Hoarding  | 30 days   | Sun 14 Apr 20 | Mon 14 May 19 | 364             |   |
|   | Tree felling / tree tranplant  | 162 days  | Tue 14 May 20 | Tue 14 Oct 28 | 365             |   |
|   | Construction of planter wall   | 120 days  | Tue 14 Jun 10 | Tue 14 Oct 7  | 366SS+21 days   |   |
|   | Backfilling  | 21 days   | Wed 14 Oct 8  | Tue 14 Oct 28 | 367             |   |
| 1 | Drainage works   | 60 days   | Wed 14 Oct 29 | Sat 14 Dec 27 | 368,366         |   |
|   | Cable duct laying with draw pits   | 21 days   | Wed 14 Oct 29 | Tue 14 Nov 18 | 368,366         |   |
|   | Installation of irrigation pipe and irrigation point (2 nos.)  | 21 days   | Wed 14 Nov 19 | Tue 14 Dec 9  | 370             |   |
| 1 | Kerb laying  | 30 days   | Wed 14 Dec 10 | Thu 15 Jan 8  | 370,371         |   |
| 1 | Coordinate and request HyD to install Public lighting (3 nos)  | 60 days   | Wed 14 Dec 10 | Sat 15 Feb 7  | 372SS           | → <b>3</b> 33   |
|   | Installation of bicycle parking racks, shelter with bench  | 21 days   | Fri 15 Jan 9  | Thu 15 Jan 29 | 372             |   |
|   | Pavement   | 30 days   | Fri 15 Jan 30 | Sat 15 Feb 28 | 374             |   |
| _ | Completion of Section W7   | 0 days    | Sat 15 Aug 29 | Sat 15 Aug 29 | 345,346,362,375 |   |
|   | Section W8A - Landscape Softworks within Portions C1, C3 & C4  | 609 days  | Fri 13 Nov 29 | Thu 15 Jul 30 |                 |   |
| - | Section W8B - Landscape Softworks within Portion C2  | 274 days  | Fri 13 Nov 29 | Fri 14 Aug 29 |                 |   |
| - | Section W8C - Landscape Softworks within Portion G1 & J  | 883 days  | Fri 13 Nov 29 | Fri 16 Apr 29 |                 |   |
| - | Section W8D - Landscape Softworks within Portion D & E   | 914 days  | Fri 13 Nov 29 | Mon 16 May 30 |                 |   |
| - | Section W8B - Landscape Softworks within Portion D & L<br>Section W8E - Landscape Softworks within Portions I & K    | 762 days  | Fri 13 Nov 29 | Wed 15 Dec 30 |                 |   |
| - | Section W8E - Landscape Softworks within Portion M   | 701 days  | Fri 13 Nov 29 | Fri 15 Oct 30 |                 |   |
| - | Section W9A - Establishment Works within Portion V1, C3 & C4   | 975 days  | Fri 13 Nov 29 | Sat 16 Jul 30 |                 |   |
| - | Section W98 - Establishment Works within Portions C1, C3 & C4<br>Section W98 - Establishment Works within Portion C2 | 639 days  | Fri 13 Nov 29 | Sat 15 Aug 29 |                 |   |
| - | Section W9C - Establishment Works within Portion C2  | 1249 days | Fri 13 Nov 29 | Sun 17 Apr 30 |                 |   |
| - | Section W9D - Establishment Works within Portions D & E  | 1249 days | Fri 13 Nov 29 | Tue 17 May 30 |                 |   |
| - | Section W9D - Establishment Works within Portions D & E<br>Section W9E - Establishment Works within Portion I & K    |           | Fri 13 Nov 29 | Fri 16 Dec 30 |                 |   |
|   |  | 1128 days |               |               |                 |   |
|   | Section W9F - Establishment Works within Portion M   | 1067 days | Fri 13 Nov 29 | Sun 16 Oct 30 |                 |   |

| Project: YL/2013/01<br>Data Date: 29 Nov 2013<br>Submission: 09 Dec 2013 | Task<br>Critical Task | Progress<br>Milestone | \$<br>Summary<br>Rolled Up Task |        | Rolled Up Critical Task | Rolled Up Progress<br>Split | <br>External Task<br>Project Sumr |
|--|-----------------------|-----------------------|---------------------------------|--------|-------------------------|-----------------------------|-----------------------------------|
|  |                       |                       |                                 | Page 6 |                         |                             |                                   |



Sang Hing - Kuly Joint Venture





## **APPENDIX 3**

# THE CONTACT DETAILS OF KEY PERSONNEL OF THE PROJECT





#### Contact Details of Key Personnel for the Project

| Company / Department  | Name             | Position                                | Telephone                             |
|---|------------------|---|---------------------------------------|
| AECOM Consulting Services<br>Limited                                | Mr. Y.W. Fung    | Environmental Team<br>Leader            | 3922 9366                             |
| AECOM Consulting Services<br>Limited (former URS Hong Kong<br>Ltd.) | Mr. Vincent Kwan | Resident Engineer                       | 2672 7938                             |
| Sang Hing – Kuly Joint Venture                                      | Mr. Jeff Chan    | Project Manager                         | 9606 2398                             |
| Sang Hing – Kuly Joint Venture                                      | Mr. W.K. Tang    | Site Agent                              | 9300 7037 /<br>5638 3186<br>(Hotline) |
| Sang Hing – Kuly Joint Venture                                      | Mr. Michael Wan  | Site Environmental<br>Officer           | 9222 3089                             |
| Fugro Hong Kong Ltd.  | Mr. Colin Yung   | Independent<br>Environmental<br>Checker | 3565 4114                             |





# **APPENDIX 4**

### IMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURE



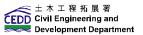
| EIA Ref.     | EM&A Ref.          | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures                             | What requirements or<br>standards for the<br>measures to achieve?                               |  |  |  |  |
|--------------|--------------------|---|---|--------------------------------------|---|---|--|--|--|--|
| Construction | Construction Phase |   |   |                                      |   |   |  |  |  |  |
| S.3.6.2      | S.3.2.3            | All the dust control measures as recommended in the Air<br>Pollution Control (Construction Dust) Regulation, where<br>applicable, should be implemented. Typical dust control<br>measures include:  | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| S.3.6.2      | S.3.2.3            | <ul> <li>The works area for site clearance shall be sprayed with<br/>water before, during and after the operation so as to<br/>maintain the entire surface wet</li> </ul>   | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| S.3.6.2      | S.3.2.3            | <ul> <li>Restricting heights from which materials are to be dropped,<br/>as far as practicable to minimize the fugitive dust arising<br/>from unloading/ loading</li> </ul>   | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| S.3.6.2      | S.3.2.3            | <ul> <li>Immediately before leaving a construction site, all vehicles<br/>shall be washed to remove any dusty materials from the<br/>bodies and wheels. However, all spraying of materials and<br/>surfaces should avoid excessive water usage</li> </ul> | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| S.3.6.2      | S.3.2.3            | <ul> <li>Where a vehicle leaving a construction site is carrying a load<br/>of dusty materials, the load shall be covered entirely by<br/>clean impervious sheeting to ensure that the dusty materials<br/>will not leak from the vehicle</li> </ul>      | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| S.3.6.2      | S.3.2.3            | <ul> <li>Travelling speeds should be controlled to reduce traffic<br/>induced dust dispersion and re-suspension within the site<br/>from the operating haul trucks</li> </ul>   | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| S.3.6.2      | S.3.2.3            | <ul> <li>Erection of hoarding of not less than 2.4 m high from ground<br/>level along the site boundary, where appropriate</li> </ul>   | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| S.3.6.2      | S.3.2.3            | <ul> <li>Any stockpile of dusty materials shall be covered entirely by<br/>impervious sheeting; and/or placed in an area sheltered on<br/>the top and 4 sides</li> </ul>  | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |

#### Table A1-1 Air Quality Impact – Implementation Schedule of Recommended Mitigation Measures

#### Construction of Cycle Tracks and the Associated Supporting Facilities From Sha Po Tsuen and Shek Sheung River



| EIA Ref.      | EM&A Ref.         | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures                             | What requirements or<br>standards for the<br>measures to achieve?                               |  |  |  |  |
|---------------|-------------------|--|---|--------------------------------------|---|---|--|--|--|--|
| S.3.6.2       | S.3.2.3           | <ul> <li>All dusty materials shall be sprayed with water or a dust<br/>suppression chemical immediately prior to any loading,<br/>unloading or transfer operation so as to maintain the dusty<br/>materials wet</li> </ul> | Air Quality (fugitive dust) Control<br>during Construction Phase        | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 4 and Annex 12 of<br>EIAO -TM, Air Pollution<br>Control (Construction<br>Dust) Regulation |  |  |  |  |
| Operational F | Operational Phase |  |   |                                      |   |   |  |  |  |  |
| N/A           | N/A               | None specific  | N/A   | N/A                                  | N/A   | N/A   |  |  |  |  |



#### Table A1-2 Noise Impact – Implementation Schedule of Recommended Mitigation Measures

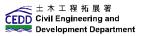
| EIA Ref.    | EM&A<br>Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures                                   | What requirements or<br>standards for the<br>measures to achieve? |
|-------------|--------------|---|---|--------------------------------------|---|---|
| Constructio | on Phase     |   |   |                                      |   |   |
| S.5.5.11    | S.4.2.17     | In order to prevent potential cumulative construction noise impacts<br>to NSRs at Mai Po San Tsuen and Palm Springs, the works at the<br>cycle track section (near CH-MP5+100m) are recommended to be<br>scheduled to avoid works at the areas near Castle Peak Road of<br>the Proposed Comprehensive Development at Wo Shang Wai<br>(CDWSW) project if the works site of the CDWSW project is less<br>than 300 m away from Castle Peak Road.   | Noise control during construction                                       | Contractors, ER                      | Construction areas near<br>the specified locations<br>during the construction<br>period | EIA, Contractual<br>requirements                                  |
| S.5.5.14    | S.4.2.17     | The contractor shall liaise with the Yuen Long and Kam Tin<br>Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North<br>West New Territories Salt Water Supply (NWNTSWS) works<br>contractors so as to avoid undertaking works concurrently with the<br>works when they are in the close proximity as far as practicable.<br>As a conservative approach, works for the cycle track shall be<br>carried out when the works from the other projects are over 300 m<br>away. The requirements shall be included in the works contracts. | Noise control during construction                                       | Contractors, ER                      | Construction areas near<br>the specified locations<br>during the construction<br>period | EIA, Contractual<br>requirements                                  |
| Table 5-7   | S.4.2.19     | Use of quiet plant (PME):<br>- mini excavator<br>- mobile crane<br>- dump truck<br>- hand-held electric circular saw<br>- concrete lorry mixer<br>- lorry<br>- vibratory poker<br>- asphalt paver<br>- crane mounted auger<br>- road roller<br>- road ripper, excavator mounted   | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period       | EIA, Contractual<br>requirements                                  |

# Construction of Cycle Tracks and the Associated Supporting Facilities From Sha Po Tsuen and Shek Sheung River



| EIA Ref.             | EM&A<br>Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures   | What requirements or<br>standards for the<br>measures to achieve? |
|----------------------|--------------|--|---|--------------------------------------|---|---|
| S.5.6.2<br>Table 5-8 | S.4.2.19     | Noise barrier in the form of site hoarding shall be used for the following PMEs where practicable:         -       mini excavator         -       mobile crane         -       dump truck         -       hand-held electric circular saw         -       bar bender         -       vibrating hammer         -       generator         -       concrete lorry mixer         -       lorry         -       vibratory poker         -       asphalt paver         -       compactor         -       grout nuixer         -       grout pump         -       drill | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site close to identified<br>NSRs during the entire<br>construction period | EIA, Contractual<br>requirements                                  |
| S.5.6.2              | S.4.2.19     | Noise enclosure shall be used for the following PMEs where<br>practicable:<br>- air compressor<br>- hand-held breaker  | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site close to identified<br>NSRs during the entire<br>construction period | EIA, Contractual<br>requirements                                  |
| S.5.6.2              | S.4.2.19     | The barrier / enclosure material's surface mass shall be in excess of 7 kg/m <sup>2</sup> .  | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period                             | EIA, Contractual<br>requirements                                  |
| S.5.6.6              | S.4.2.19     | Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.   | Noise control during construction                                       | Contractors                          | At construction areas of<br>the site close to NSR12<br>and NSR20 during the<br>entire construction period     | EIA, Contractual<br>requirements                                  |
| S.5.6.8              | S.4.2.19     | The Contractor shall adopt the Code of Practice on Good<br>Management Practice to Prevent Violation of the Noise Control<br>Ordinance (Chapter 400) (for Construction Industry) published by<br>EPD  | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period                             | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| S.5.6.8              | S.4.2.19     | The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines   | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period                             | Annex 5 and Annex 13 of<br>EIAO-TM                                |

# Construction of Cycle Tracks and the Associated Supporting Facilities From Sha Po Tsuen and Shek Sheung River



| EIA Ref.   | EM&A<br>Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures                             | What requirements or<br>standards for the<br>measures to achieve? |
|------------|--------------|--|---|--------------------------------------|---|---|
| S.5.6.8    | S.4.2.19     | Before commencing any work, the Contractor shall submit to the<br>project Engineer for approval the method of working, equipment<br>and noise mitigation measures intended to be used at the site                                      | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| S.5.6.8    | S.4.2.19     | The Contractor shall devise and execute working methods to<br>minimize the noise impact on the surrounding sensitive uses, and<br>provide experienced personnel with suitable training to ensure that<br>those methods are implemented | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| S.5.6.8    | S.4.2.19     | Noisy equipment and noisy activities should be located as far away from the NSRs as is practical   | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| S.5.6.8    | S.4.2.19     | Unused equipment should be turned off. PME should be kept to a<br>minimum and the parallel use of noisy equipment / machinery<br>should be avoided   | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| S.5.6.8    | S.4.2.19     | Regular maintenance of all plant and equipment   | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| S.5.6.8    | S.4.2.19     | Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable   | Noise control during construction                                       | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| S.5.6.8    | S.4.2.19     | The Contractor shall liaise with the schools that are located near<br>the works sites regarding their examination period and schedule the<br>noisy works to avoid the examination period as far as possible                            | Noise control during construction                                       | Contractors                          | At construction areas near<br>schools during the entire<br>construction period    | Annex 5 and Annex 13 of<br>EIAO-TM                                |
| Operationa | l Phase      |  |   |                                      |   |   |
| N/A        | N/A          | None specific  | N/A   | N/A                                  | N/A   | N/A   |

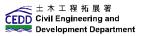


#### Table A1-3 Water Quality Impact – Implementation Schedule of Recommended Mitigation Measures

| EIA Ref.           | EM&A<br>Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures                             | What requirements or<br>standards for the<br>measures to achieve? |
|--------------------|--------------|--|---|--------------------------------------|---|---|
| Construction Phase |              |  |   |                                      |   |   |
| S. 6.6.1           | S.5.2.4      | Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | ProPECC PN1/94, Water<br>Pollution Control<br>Ordinance           |
| S. 6.6.1           | S.5.2.4      | Surface run-off from the construction sites will be directed into<br>storm drains via adequately designed wastewater treatment<br>facilities such as sand traps, silt traps and sediment settling basins.<br>This is important for works immediately along the Kam Tin River,<br>Ngau Tam Mei Main Drainage Channel, River Beas and Shek<br>Sheung River | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1           | S.5.2.4      | Channels, earth bunds or sand bag barriers will be provided on-site<br>to properly direct stormwater to the above-mentioned facilities   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1           | S.5.2.4      | Existing silt removal facilities, channels and manholes along roads<br>and pedestrian walkways will be maintained and the deposited silt<br>and grit will be removed regularly, at the onset of and after each<br>rainstorm to ensure that these facilities are functioning properly at<br>all times   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1           | S.5.2.4      | Other manholes (including any newly constructed ones) will be<br>adequately covered and temporarily sealed so as to prevent silt,<br>construction materials or debris from getting into the drainage<br>system   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1           | S.5.2.4      | Open stockpiles of materials on site will be avoided or where<br>unavoidable covered with tarpaulin or similar fabric during<br>rainstorms. Measures will be taken to prevent the washing away of<br>construction materials, soil, silt or debris into any drainage system   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1           | S.5.2.4      | Where possible, works entailing soil excavation will be minimized during the rainy season (i.e. April to September);   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1           | S.5.2.4      | Where applicable, final earthworks surfaces/ slopes will be well<br>compacted and hydro-seeded following completion to prevent   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of the site during the entire                           | Water Pollution Control<br>Ordinance                              |



| EIA Ref. | EM&A<br>Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures                             | What requirements or<br>standards for the<br>measures to achieve? |
|----------|--------------|---|---|--------------------------------------|---|---|
|          |              | erosion   |   |                                      | construction period   |   |
| S. 6.6.1 | S.5.2.4      | During construction works, chemical toilets will be provided for the<br>use of site staff. These will be provided by a licensed contractor,<br>who will be responsible for appropriate disposal and maintenance<br>of the effluent            | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | Works adjacent to the fishponds near Kam Tin River inside the conservation area (CA) and Mai Po San Tsuen should be avoided as far as possible during the wet season to avoid runoff into the fishponds                                       | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | Wastewater from site facilities (such as toilets) should be<br>discharged to foul sewer, where available. Chemical toilets will be<br>considered where there is no foul sewer connection. There is not<br>expected to be a temporary canteen. | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | All site discharges within Water Control Zones must comply with the terms and conditions of a valid discharge licence issued by EPD   | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | Vehicle wheel washing facilities should be provided, where<br>applicable, at the site exit such that mud, debris, etc. deposited<br>onto the vehicle wheels or body can be washed off before the<br>vehicles are leaving the site area        | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | Section of the road between the wheel washing bay and the public<br>road should be paved with backfill to reduce vehicle tracking of soil<br>and to prevent site run-off from entering public road drains                                     | Stormwater and Non-point<br>Source Pollution Control                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | The project may occasionally involve the handling of fuel and generates chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed areas and provided with locks  | Protection Against Accidental<br>Spillage                               | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | The storage areas will be surrounded by bunds with a capacity<br>equal to 110% of the storage capacity of the largest tank to prevent<br>accidentally spilled oil, fuel or chemicals from reaching the<br>receiving waters                    | Protection Against Accidental<br>Spillage                               | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |
| S. 6.6.1 | S.5.2.4      | Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas   | Protection Against Accidental<br>Spillage                               | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Water Pollution Control<br>Ordinance                              |



| EIA Ref.   | EM&A<br>Ref.      | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location / Timing of<br>implementation of<br>Measures                             | What requirements or<br>standards for the<br>measures to achieve? |  |  |
|------------|-------------------|---|---|--------------------------------------|---|---|--|--|
| S. 6.6.1   | S.5.2.4           | Chemical waste arising from the site should be properly stored,<br>handled, treated and disposed of in compliance with the<br>requirements stipulated under the Waste Disposal (Chemical<br>Waste) (General) Regulation | Protection Against Accidental<br>Spillage                               | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation        |  |  |
| Operationa | Operational Phase |   |   |                                      |   |   |  |  |
| N/A        | N/A               | None specific   | N/A   | N/A                                  | N/A   | N/A   |  |  |

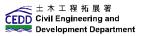


| EIA Ref.     | EM&A Ref.             | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures  | What requirements or<br>standards for the<br>measures to achieve?  |
|--------------|-----------------------|---|---|--------------------------------------|---|--|
| Construction | Phase                 |   |   | •                                    |   |  |
| S.7.4.1      | S. 6.2.1 –<br>S.6.2.4 | An on-site environmental co-ordinator employed by the<br>Contractor should be identified at the outset of the works. Prior<br>to commencement of Project works, the co-ordinator shall<br>prepare a WMP in accordance with the requirements set out in<br>the ETWB TCW No. 19/2005, Waste Management on<br>Construction Sites, for the ER's approval. The WMP shall<br>include monthly and yearly Waste Flow Tables ("WFT") that<br>indicate the amounts of waste generated, recycled and<br>disposed of (including final disposal site), and which should be<br>regularly updated; | Waste management during construction                                    | Contractors                          | Prior to commencement of<br>Project works, and<br>implemented throughout<br>the entire construction<br>period | ETWB TCW No. 19/2005,<br>Waste Management on<br>Construction Sites |
| S.7.4.1      | S. 6.2.6              | Given the potential for secondary environmental impacts (dust,<br>noise, water quality and visual impacts), mitigation measures<br>are required to ensure proper handling, storage, transportation<br>and disposal of materials at the outset and throughout the<br>construction phase of the project   | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period                             | Waste Disposal Ordinance   |
| S.7.4.1      | S. 6.2.6              | <ul> <li>The reuse/ recycling of all materials on site shall be<br/>investigated and exhausted prior to treatment/ disposal off-<br/>site</li> </ul>  | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period                             | Waste Disposal Ordinance   |
| S.7.4.1      | S. 6.2.6              | <ul> <li>Good site practices shall be adopted from the<br/>commencement of works to avoid the generation of waste,<br/>reduce cross contamination of waste and to promote waste<br/>minimisation</li> </ul>   | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period                             | Waste Disposal Ordinance   |
| S.7.4.1      | S. 6.2.6              | <ul> <li>All waste materials shall be sorted on-site into inert and non-<br/>inert C&amp;D materials, and where the materials can be<br/>recycled or reused, they shall be further segregated. Inert<br/>material, or public fill will comprise stone, rock, masonry,<br/>brick, concrete and soil which is suitable for land<br/>reclamation and site formation whilst non-inert materials<br/>include all other wastes generated from the construction<br/>process such as plastic packaging and vegetation (from site<br/>clearance).</li> </ul>                                 | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period                             | Waste Disposal Ordinance   |

#### Table A1-4 Waste Management Implication – Implementation Schedule of Recommended Mitigation Measures



| EIA Ref. | EM&A Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures                              | What requirements or<br>standards for the<br>measures to achieve?                               |
|----------|-----------|---|---|--------------------------------------|---|---|
| S.7.4.1  | S. 6.2.6  | The Contractor shall be responsible for identifying what<br>materials can be recycled/ reused, whether on-site or off-<br>site. In the event of the latter, the Contractor shall make<br>arrangements for the collection of the recyclable materials.<br>Any remaining non-inert waste shall be collected and<br>disposed of to the Public Filling Areas whilst any inert C&D<br>materials shall be re-used on site as far as possible.<br>Alternatively, if no use of the inert material can be found on-<br>site, the materials can be delivered to a Public Fill Area or<br>Public Fill Bank after obtaining the appropriate licence;            | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Waste Disposal Ordinance  |
| S.7.4.1  | S. 6.2.6  | <ul> <li>In order to monitor the disposal of C&amp;D material and solid<br/>wastes at public filling facilities and landfills, and control fly-<br/>tipping, a trip-ticket system shall be implemented by the<br/>Contractor, in accordance with the contract and the<br/>requirements of WBTC 31/2004 "Trip Ticket System for<br/>Disposal of Construction and Demolition Material".</li> </ul>  | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | WBTC 31/2004 "Trip<br>Ticket System for<br>Disposal of Construction<br>and Demolition Material" |
| S.7.4.1  | S. 6.2.6  | <ul> <li>Under the Waste Disposal (Chemical Waste) (General)<br/>Regulation, the Contractor shall register as a Chemical<br/>Waste Producer if chemical wastes such as spent lubricants<br/>and paints are generated on site. Only licensed chemical<br/>waste collectors shall be employed to collect any chemical<br/>waste generated at site. The handling, storage,<br/>transportation and disposal of chemical wastes shall be<br/>conducted in accordance with the Code of Practice on the<br/>Packaging, Labelling and Storage of Chemical Wastes and A<br/>Guide to the Chemical Waste Control Scheme both<br/>published by EPD;</li> </ul> | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation                                      |
| S.7.4.1  | S. 6.2.6  | <ul> <li>A sufficient number of covered bins shall be provided on site<br/>for the containment of general refuse to prevent visual<br/>impacts and nuisance to the sensitive surroundings. These<br/>bins shall be cleared daily and the collected waste disposed<br/>of to the refuse transfer station. Further to the issue of<br/>ETWB TCW No. 6/2002A, Enhanced Specification for Site<br/>Cleanliness and Tidiness, the Contractor is required to<br/>maintain a clean and hygienic site throughout the project<br/>works;</li> </ul>  | Waste management during construction                                    | Contractors                          | At all construction areas of<br>the site during the entire<br>construction period | Waste Disposal Ordinance  |



| EIA Ref.    | EM&A Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures?   | Location/ Timing of<br>implementation of<br>Measures  | What requirements or<br>standards for the<br>measures to achieve? |
|-------------|-----------|--|---|--|---|---|
| S.7.4.1     | S. 6.2.6  | <ul> <li>All chemical toilets, if any, shall be regularly cleaned and the<br/>night-soil collected and transported by a licensed contractor<br/>to a Government Sewage Treatment Works facility for<br/>disposal; and</li> </ul>   | Waste management during construction                                    | Contractors  | At all construction areas of<br>the site during the entire<br>construction period                 | Waste Disposal Ordinance  |
| S.7.4.1     | S. 6.2.6  | <ul> <li>Toolbox talks should be provided to workers about the<br/>concepts of site cleanliness and appropriate waste<br/>management procedures, including waste reduction, reuse<br/>and recycling.</li> </ul>  | Waste management during construction                                    | Contractors  | At all construction areas of<br>the site during the entire<br>construction period                 | Waste Disposal Ordinance  |
| S.7.4.1     | S. 6.2.6  | <ul> <li>The Contractor shall comply with all relevant statutory<br/>requirements and guidelines and their updated versions that<br/>may be issued during the course of project construction.</li> </ul>   | Waste management during construction                                    | Contractors  | At all construction areas of<br>the site during the entire<br>construction period                 | Waste Disposal Ordinance  |
| Operational | Phase     |  |   |  |   |   |
| S. 7.4.2    | S.6.3.2   | Waste collection facilities (e.g. litter bins) to be included in the design of the supporting facilities, and at regular intervals along the route. The Government Department responsible for managing the facilities will be responsible for arranging for regular collection of litter from these facilities. Separate collection bins shall be provided for aluminium cans, plastic drinks bottles and paper wastes, which will facilitate recycling of these waste streams | Waste management during operational phase                               | LCSD for<br>management<br>and<br>maintenance of<br>facilities<br>FEHD for<br>arranging<br>regular<br>collection of<br>refuse | All Resting Stations and<br>along the cycle track.<br>Collection of refuse at<br>regular interval | EIA, Contractual<br>requirements                                  |

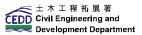


| EIA Ref.             | EM&A Ref.          | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address   | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures  | What requirements or<br>standards for the<br>measures to achieve?  |  |  |
|----------------------|--------------------|--|---|--------------------------------------|---|--|--|--|
| Construction         | Construction Phase |  |   |                                      |   |  |  |  |
| S.8.7.2 –<br>S.8.7.3 | S.7.2.2            | <ul> <li>Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.</li> <li>Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD's approval.</li> </ul>  | To formulate CAP and CAR to<br>assess the land contamination<br>impact    | Project<br>Proponent,<br>Contractor  | Prior to construction works<br>within the area 5 m of the<br>Project alignment<br>neighbouring Sites A to F,<br>and works area of the<br>cycle track section along<br>Castle Peak Road – San<br>Tin near San Sham Road. | Guidance Note for<br>Contaminated Land<br>Assessment and<br>Guidance Notes for<br>Investigation and<br>Remediation of<br>Contaminated Sites of<br>Petrol Filling Stations,<br>Boatyards, and Car<br>Repair/ Dismantling<br>Workshops |  |  |
| S.8.7.5              | S.7.3.1            | <ul> <li>The following control measures should be implemented when handling identified contaminated materials:</li> <li>General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection;</li> <li>Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used;</li> <li>Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene;</li> <li>Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants.</li> </ul> | Safety precautionary measures<br>for identified contaminated<br>materials | Contractors                          | During construction at<br>works areas neighbouring<br>Sites A to F and works<br>area of the cycle track<br>section along Castle Peak<br>Road – San Tin near San<br>Sham Road  | Guidance Note for<br>Contaminated Land<br>Assessment and<br>Guidance Notes for<br>Investigation and<br>Remediation of<br>Contaminated Sites of<br>Petrol Filling Stations,<br>Boatyards, and Car<br>Repair/ Dismantling<br>Workshops |  |  |

#### Table A1-5 Land Contamination – Implementation Schedule of Recommended Mitigation Measures



| EIA Ref.      | EM&A Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures   | What requirements or<br>standards for the<br>measures to achieve?  |
|---------------|-----------|---|---|--------------------------------------|--|--|
| S.8.7.5       | S.7.3.1   | <ul> <li><u>Management of Contaminated Soils</u></li> <li>Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers;</li> <li>The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site;</li> <li>All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area;</li> <li>Any vehicles transporting the material shall be suitably covered to limit potential dust emissions;</li> <li>Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of contaminated water requiring disposal and suspended solids in the wastewater stream</li> </ul> | Proper management of contaminated soils                                 | Contractors                          | During construction at<br>works areas neighbouring<br>Sites A to F and works<br>area of the cycle track<br>section along Castle Peak<br>Road – San Tin near San<br>Sham Road | Guidance Note for<br>Contaminated Land<br>Assessment and<br>Guidance Notes for<br>Investigation and<br>Remediation of<br>Contaminated Sites of<br>Petrol Filling Stations,<br>Boatyards, and Car<br>Repair/ Dismantling<br>Workshops |
| Operational F | Phase     |   |   |                                      |  |  |
| N/A           | N/A       | None specific   | N/A   | N/A                                  | N/A  | N/A  |



| Table A1-6 | Ecological & Fisheries Impact – Implementation Schedule of Recommended Mitigation Measures |
|------------|--|
|------------|--|

| EIA Ref.               | EM&A Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address        | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures | What requirements or<br>standards for the<br>measures to achieve? |
|------------------------|-----------|--|--|--------------------------------------|--|---|
| Construction           | Phase     |  |  |                                      |  |   |
| S.9.11.4               | S.8.2.3   | Prior to tree felling, survey inspections should be made for their<br>suitability for roosting bats. Once these trees have been<br>highlighted, then appropriate checks of each tree for bats<br>should be made prior to removal as a precautionary measure.<br>It is more realistic to further assess the trees with potential for<br>bat roosting at a later stage in the project, programmed at such<br>a time that a survey can be completed in a reasonable<br>timescale prior to felling | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor, ET                       | During construction                                  | EIA, Contractual<br>requirements                                  |
| S.9.11.17 -<br>9.11.19 | S.8.2.4   | For the Kam Tin section and the Long Valley section of the<br>Project, construction works shall be carried out during the dry<br>season (October to March) which is considered to have no<br>significant impact to wildlife and to avoid the breeding season<br>of Greater Painted-snipes at Long Valley. This is also to<br>prevent any site run-off to adjacent water channels and<br>fishponds including those fishponds along San Tin Tsuen<br>Road.                                       | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |
| S.9.11.23              | S.8.2.5   | Construction of the section in the vicinity of Mai Po Egretry<br>would need to be completed outside of the recognised breeding<br>season for Ardeids in Hong Kong to prevent any disturbance to<br>the nesting birds. This breeding season is from March to<br>August inclusive. Therefore, construction should take place<br>between the months of <u>September to February</u> to avoid any<br>disturbance to breeding and nesting birds   | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor                           | During construction                                  | EIA, Contractual requirements                                     |
| S.9.11.25              | S.8.2.6   | Planting of tall bamboo or other vegetation could also be<br>implemented at the corner of Mai Po Road and Castle Peak<br>Road on the northern side to act as a screen between the<br>cycle track and egretry. This may help to reduce any potential<br>disturbance to breeding ardeids   | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |
| S.9.11.7               | S.8.2.6   | <i>In situ</i> compensation planting should occur at the Information Kiosk and R9, to provide continuing function of the bamboo and plantation (as well as the provision of potential roosting habitats for birds, an anticipated benefit of the mitigation planting from a previous project (Maunsell 1998).  | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |



| EIA Ref.  | EM&A Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address        | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures | What requirements or<br>standards for the<br>measures to achieve? |
|-----------|-----------|--|--|--------------------------------------|--|---|
| S.10.5.1  | S.8.2.2   | Local narrowing of the cycle track (from 4m to 3m) shall be<br>implemented to avoid the impact of the cycle track on the<br>single, inactive fishpond edge just outside Mai Po Village (see<br>Figure 10-1 of the EIA Report).   | Fisheries – to minimize impact to<br>fisheries                                 | Contractor                           | During construction                                  | EIA, Contractual requirements                                     |
| S.10.5.4  | S.8.2.7   | Good site practice must be employed at all times, particularly<br>in the areas close to fishponds. Practice Note for Professional<br>Persons ProPECC PN1/94 – Construction Site Drainage shall<br>be implemented   | Fisheries – to minimize impact to<br>fisheries                                 | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |
| S.10.5.4  | S.8.2.8   | Along Pok Wai South Road and San Tin Tsuen Roads, once<br>the final construction sequencing is known, liaison with local<br>residents and aquaculturists should be implemented in order to<br>minimize temporary road blockages and to identify the best<br>timing for works along this area   | Fisheries – to minimize impact to fisheries                                    | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |
| S.10.5.3  | S.8.2.9   | During wet seasons, surface run-off from the construction sites<br>will need to be directed into storm drains via adequately<br>designed wastewater treatment facilities such as sand traps,<br>silt traps and sediment settling basins. Works adjacent to the<br>fishponds near NTMDC inside the Wetland Conservation Area<br>(WCA) and Mai Po San Tsuen should be avoided, as far as<br>practicable, during the wet season to avoid runoff into the<br>fishponds   | Fisheries – to minimize impact to fisheries                                    | Contractor                           | During construction                                  | EIA, Contractual requirements                                     |
| S.9.11.27 | S.8.2.11  | <ul> <li>The following good work practices are recommended:</li> <li>Avoid soil storage against trees;</li> <li>Fence off any potentially ecologically sensitive areas;</li> <li>Delineation of works area to prevent encroachment onto adjacent habitats;</li> <li>Reinstatement of habitat after works;</li> <li>No on-site burning of waste;</li> <li>Waste and refuse in appropriate receptacles;</li> <li>Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible;</li> <li>Regular ecological checks; and</li> <li>Silt/ Sediment/ Oil traps for drainage to prevent site run-off</li> </ul> | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |

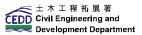


| EIA Ref.    | EM&A Ref. | Recommended Environmental Protection Measures/ Mitigation<br>Measures  | Objectives of the recommended<br>measures & main concerns to<br>address        | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures | What requirements or<br>standards for the<br>measures to achieve? |
|-------------|-----------|--|--|--------------------------------------|--|---|
| Operational | Phase     |  |  |                                      |  |   |
| S.9.11.26   | S.8.2.10  | Implementation of signage at the Resting Stations to indicate<br>that wildlife may be present and that noise levels and activities<br>should be kept to a minimum could be implemented to help to<br>reduce any potential disturbance to wildlife.   | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |
| S.9.11.26   | S.8.2.10  | At Long Valley, to mitigate against potential indirect human<br>disturbance to Greater Painted-snipe, planting could be<br>undertaken as appropriate along the proposed cycle track at<br>meander 8 to act as screening.   | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor                           | During construction                                  | EIA, Contractual<br>requirements                                  |
| S.9.13.2    | S.8.3.1   | Operational Phase EM&A will comprise of an audit undertaken<br>by the ET Leader during the first year of operation of the cycle<br>track to ensure appropriate implementation of mitigation<br>measures including signage, mitigation planting at Mai Po<br>Egretry, R9 and planting for screening at meander 8 in Long<br>Valley. | Ecological – to minimize<br>ecological impact/ ecological<br>enhancement works | Contractor, ET                       | During operation                                     | EIA, Contractual<br>requirements                                  |



#### Table A1-7 Cultural Heritage Impact – Implementation Schedule of Recommended Mitigation Measures

| EIA Ref.      | EM&A Ref.          | Recommended Environmental Protection Measures/ Mitigation<br>Measures   | Objectives of the recommended<br>measures & main concerns to<br>address | Who to<br>implement the<br>measures? | Location/ Timing of<br>implementation of<br>Measures | What requirements or<br>standards for the<br>measures to achieve? |  |  |
|---------------|--------------------|---|---|--------------------------------------|--|---|--|--|
| Construction  | Construction Phase |   |   |                                      |  |   |  |  |
| S.11.5.1      | S.9.2.1            | Care should be taken during the construction stage to report<br>any signs of possible discovery of artefacts. | Cultural heritage protection  | Contractors                          | During the construction period                       | АМО   |  |  |
| Operational F | Operational Phase  |   |   |                                      |  |   |  |  |
| N/A           | N/A                | None specific   | N/A   | N/A                                  | N/A  | N/A   |  |  |



| Table A1-8 | Landscape & Visual Impact – Implementation Schedule of Recommended Mitigation Measures |
|------------|--|
|------------|--|

|                 |              | Recommended Mitigation   |          |                      | Implementation/                      | n/ Relevant Standard or  | Impler | nentation | Stages |                             |   |
|-----------------|--------------|--|----------|----------------------|--------------------------------------|--|--------|-----------|--------|-----------------------------|---|
| EIA Ref.        | Mit.<br>Code | Recommended Mitigation<br>Measures   | Location | Funding              | Implementation/<br>Maintenance Agent | Relevant Standard or<br>Requirement  | D      | С         | 0      | Timing of<br>Implementation | Recommended<br>Measure and Main<br>Concern to address |
| Detailed Design | n Phase      |  |          |                      |                                      |  |        |           |        |                             |   |
| Table 12-11     | CP1          | A detailed tree survey to be carried<br>out by the IDC Consultant during<br>the detailed design stage. The<br>recommendations of the<br>preliminary tree survey shall be<br>reviewed and confirmed during the<br>detailed survey. Should tree felling<br>be required, tree felling application<br>is required in accordance with<br>ETWB TCW No. 3/2006, Tree<br>Preservation  | Site     | Project<br>Proponent | Project Proponent,<br>IDC Consultant | EIA, Contractual<br>requirements<br>Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | ×      |           |        | During detailed<br>design   | Landscape mitigation<br>measures                      |
| S.12.9.3        | CP6          | It has been agreed that the<br>proposed landscape areas under<br>DSD's 4215DS project which falls<br>within the cycle track works area<br>will be implemented by Project<br>proponent of this Project in form of<br>roadside amenity areas after<br>completion of the cycle track.<br>During the detailed design, the<br>works programme of this Project<br>shall be coordinated with the<br>above-mentioned DSD project in<br>order to avoid abortive planting<br>works and impact on landscape<br>resources between the interface of<br>different public works. The<br>proposed landscape areas under<br>4215DS falled within the cycle<br>track works area shall be<br>incorporated in the final landscape<br>design of this Project. | Site     | Project<br>Proponent | Project Proponent,<br>IDC Consultant | EIA, Contractual<br>requirements<br>Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |        |           |        | During detailed<br>design   | Landscape mitigation<br>measures                      |



|                |              | _   |          |                      | Implementation/  |  | Implen   | nentation | Stages |   | Objectives of the   |
|----------------|--------------|---|----------|----------------------|--|--|----------|-----------|--------|---|---|
| EIA Ref.       | Mit.<br>Code | Recommended Mitigation<br>Measures  | Location | Funding              | Implementation/<br>Maintenance Agent                                 | Relevant Standard or<br>Requirement  | D        | С         | 0      | Timing of<br>Implementation                 | Recommended<br>Measure and Main<br>Concern to address                     |
| S.12.10.1      | OP1          | The Design Concept Drawings and<br>Conceptual Landscape Master<br>Plan of cycle track and associated<br>facilities demonstrate landscape<br>and visual mitigation strategies and<br>design measures including<br>integrated design approach,<br>amenity and compensatory<br>planting proposals and treatment of<br>retaining structure and slopes have<br>been recommended in the EIA.<br>More detailed landscape and<br>compensatory planting proposals<br>shall be developed by IDC<br>consultants at later stage during<br>detailed design and construction<br>phase of this project following the<br>completion of the detailed Tree<br>Survey Report and approval from<br>relevant departments at that stage | Site     | Project<br>Proponent | Project Proponent,<br>IDC Consultant                                 | EIA, Contractual<br>requirements<br>Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | <b>~</b> |           |        | During detailed<br>design                   | Landscape mitigation<br>measures  |
| Construction P | hase Lands   | scape and Visual Mitigation Measures  |          |                      |  |  |          |           |        |   |   |
| Table 12-11    | CP1          | Preservation of Existing Vegetation   |          |                      |  |  |          |           |        |   |   |
|                | CP1.1        | To retain trees, which have high<br>amenity or ecology value and<br>contribute most to the landscape<br>and visual amenity of the site and<br>its immediate environs.   | Site     | Project<br>Proponent | Project Landscape<br>Architect /<br>Contractor, Project<br>Proponent | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002                                     | ~        |           |        | Throughout<br>design phase                  | To minimize the<br>disturbance to the<br>existing landscape<br>resources. |
|                | CP1.2        | Creation of precautionary area<br>around trees to be retained equal<br>to half of the trees canopy<br>diameter. Precautionary area to be<br>fenced.   | Site     | Project<br>Proponent | Contractor /<br>Contractor   | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002                                     |          | ~         |        | Before<br>Construction<br>phase<br>Commence | To ensure the<br>success of the tree<br>preservation<br>proposals.        |



|          | N 4:4        | Recommended Mitigation  |          |                      | Implementation/            | Relevant Standard or   | Implementation Stages |   |   | Timing of                           | Objectives of the Recommended                                      |
|----------|--------------|---|----------|----------------------|----------------------------|--|-----------------------|---|---|-------------------------------------|--|
| EIA Ref. | Mit.<br>Code | Recommended Mittigation<br>Measures   | Location | Funding              | Maintenance Agent          | Relevant Standard or<br>Requirement  | D                     | С | 0 | Timing of<br>Implementation         | Measure and Main<br>Concern to address                             |
|          | CP1.3        | Prohibition of the storage of<br>materials including fuel, the<br>movement of construction<br>vehicles, and the refuelling and<br>washing of equipment including<br>concrete mixers within the<br>precautionary area.   | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |                       | ✓ |   | Throughout<br>construction<br>phase | To ensure the<br>success of the tree<br>preservation<br>proposals. |
|          | CP1.4        | Phased segmental root pruning for<br>trees to be retained and<br>transplanted over a suitable period<br>(determined by species and size)<br>prior to lifting or site formation<br>works which affect the existing<br>rootball of trees identified for<br>retention. The extent of the pruning<br>will be based on the size and the<br>species of the tree in each case. | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |                       | ✓ |   | Throughout<br>construction<br>phase | To ensure the<br>success of the tree<br>preservation<br>proposals. |
|          | CP1.5        | Pruning of the branches of existing<br>trees identified for transplantation<br>and retention to be based on the<br>principle of crown thinning<br>maintaining their form and amenity<br>value.  | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |                       | ✓ |   | Throughout<br>construction<br>phase | To ensure the<br>success of the tree<br>preservation<br>proposals. |
|          | CP1.6        | The watering of existing vegetation<br>particularly during periods of<br>excavation when the water table<br>beneath the existing vegetation is<br>lowered.  | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |                       | ✓ |   | Throughout<br>construction<br>phase | To ensure the<br>success of the tree<br>preservation<br>proposals. |
|          | CP1.7        | The rectification and repair of<br>damaged vegetation following the<br>construction phase to it's original<br>condition prior to the<br>commencement of the works or<br>replacement using specimens of<br>the same species, size and form<br>where appropriate to the design  | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |                       | ✓ |   | Throughout<br>construction<br>phase | To ensure the<br>success of the tree<br>preservation<br>proposals. |



|             | N 414        | Deserves de l Mitigetier  |          |                      | Implementation/   | Relevant Standard or   | Implen | nentation | Stages | Timin a of   | Objectives of the<br>Recommended  |
|-------------|--------------|---|----------|----------------------|---|--|--------|-----------|--------|--|---|
| EIA Ref.    | Mit.<br>Code | Recommended Mitigation<br>Measures  | Location | Funding              | Maintenance Agent   | Requirement  | D      | с         | 0      | Timing of<br>Implementation                        | Measure and Main<br>Concern to address  |
|             |              | intention of the area affected  |          |                      |   |  |        |           |        |  |   |
|             | CP1.8        | All works affecting the trees<br>identified for retention and<br>transplantation will be carefully<br>monitored. This includes the key<br>stages in the preparation of the<br>trees, the implementation of<br>protection measures and health<br>monitoring through out the<br>construction period | Site     | Project<br>Proponent | Contractor /<br>Contractor                                | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |        | *         |        | Throughout<br>construction<br>phase                | To ensure the<br>success of the tree<br>preservation<br>proposals.  |
|             | CP1.9        | Detailed landscape and tree<br>preservation proposals will be<br>submitted to the relevant<br>government departments for<br>approval under the lease<br>conditions and in accordance with<br>ETWB TCW No. 2/2004 and<br>WBTC No. 14/2002.   | Site     | Project<br>Proponent | Project Proponent,<br>Project Landscape<br>Architect / NA | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | ~      |           |        | Throughout<br>design phase                         | To ensure the tree<br>preservation and<br>planting proposals are<br>integrated with the<br>existing landscape<br>context and that the<br>landscape resources<br>are preserved where<br>appropriate. |
|             | CP2.0        | The tree preservation works should<br>be implemented by approved<br>Landscape Contractors and<br>inspected and approved on site by<br>a qualified Landscape Architect. A<br>tree protection specification would<br>be included within the contract<br>documents.                                  | Site     | Project<br>Proponent | Landscape<br>Architect, Project<br>Proponent / NA         | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | ~      | *         |        | Throughout<br>design and<br>construction<br>phases | To ensure the tree<br>preservation and<br>planting proposals are<br>integrated with the<br>existing landscape<br>context and that the<br>landscape resources<br>are preserved where<br>appropriate. |
| Table 12-11 | CP2          | Preservation of Existing Topsoil  | 1        |                      | I   | 1  | 1      | 1         | 1      | I  |   |
|             | CP2.1        | Topsoil disturbed during the<br>construction phase should be<br>tested using a standard soil testing<br>methodology and where it is found<br>to be worthy of retention stored for<br>re-use.  | Site     | Project<br>Proponent | Contractor /<br>Contractor                                | Annex 10 and Annex<br>18 of EIAO-TM  |        | ✓         |        | Throughout<br>construction<br>phase                | To provide a viable<br>growing medium<br>suited to the existing<br>conditions and reduce<br>the need for the<br>importation of topsoil.   |



|             | Mit.  | Recommended Mitigation   |          |                      |                            |                                     | Implen | nentation | Stages | Timing of                            |   |
|-------------|-------|--|----------|----------------------|----------------------------|-------------------------------------|--------|-----------|--------|--------------------------------------|---|
| EIA Ref.    | Code  | Measures   | Location | Funding              | Maintenance Agent          | Requirement                         | D      | С         | 0      | Implementation                       | Measure and Main<br>Concern to address  |
|             | CP2.2 | The soil will be stockpiled to a<br>maximum height of 2m and will be<br>either temporarily vegetated with<br>hydroseeded grass during<br>construction or covered with a<br>waterproof covering to prevent<br>erosion.  | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM |        | ✓         |        | Throughout<br>construction<br>phase  | To provide a viable<br>growing medium<br>suited to the existing<br>conditions and reduce<br>the need for the<br>importation of topsoil. |
|             | CP2.3 | The stockpile should be turned<br>over on a regular basis to avoid<br>acidification and the degradation of<br>the organic material, and reused<br>after completion. Alternatively, if<br>this is not practicable, it should be<br>considered for use elsewhere,<br>including other projects. | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM |        | ~         |        | Throughout<br>construction<br>phase  | To provide a viable<br>growing medium<br>suited to the existing<br>conditions and reduce<br>the need for the<br>importation of topsoil. |
| Table 12-11 | CP3   | Works Area and Temporary Works A   | reas     |                      |                            |                                     | Ĩ      | r         | ſ      |                                      |   |
|             | CP3.1 | Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.  | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM |        | ~         |        | Through out<br>construction<br>phase | To minimize the<br>disturbance to existing<br>landscape resources<br>and change of visual<br>amenity.                                   |
|             | CP3.2 | Construction site controls should<br>be enforced including the storage<br>of materials, the location and<br>appearance of site accommodation<br>and the careful design of site<br>lighting to prevent light spillage.  | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM |        | ✓         |        | Through out<br>construction<br>phase | To minimize the<br>disturbance to existing<br>landscape resources<br>and change of visual<br>amenity.                                   |
|             | CP3.3 | Screen the works area during the<br>construction phase through the use<br>of decorative hoarding along the<br>site boundary facing adjacent<br>VSRs  | Site     | Project<br>Proponent | Contractor /<br>Contractor | Annex 10 and Annex<br>18 of EIAO-TM |        | *         |        | Through out<br>construction<br>phase | To minimize the<br>disturbance to existing<br>landscape resources<br>and change of visual<br>amenity.                                   |



|             |              |  |          |                      |   |  | Implen | nentation | Stages |   | Objectives of the  |
|-------------|--------------|--|----------|----------------------|---|--|--------|-----------|--------|---|--|
| EIA Ref.    | Mit.<br>Code | Recommended Mitigation<br>Measures   | Location | Funding              | Implementation/<br>Maintenance Agent              | Relevant Standard or<br>Requirement  | D      | С         | 0      | Timing of<br>Implementation   | Recommended<br>Measure and Main<br>Concern to address  |
| Table 12-11 | CP4          | Mitigation Planting  | r        | T                    |   | Γ  | 1      |           | 1      | I   |  |
|             | CP4.1        | Replanting of disturbed vegetation<br>should be undertaken at the<br>earliest possible stage of the<br>construction phase  | Site     | Project<br>Proponent | Contractor /<br>Contractor                        | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 |        | ✓<br>     |        | After the site<br>formation and on<br>completion of<br>planting area. | To minimize the<br>disturbance to existing<br>landscape resources<br>and minimize the<br>impacts on the visual<br>amenity of the area.   |
|             | CP4.2        | Use of native plant species predominantly in the planting design for the buffer areas.   | Site     | Project<br>Proponent | Project Landscape<br>Architect/ NA                | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | ✓<br>  | ✓<br>     |        | After the site<br>formation and on<br>completion of<br>planting area. | To enhance the local<br>landscape and<br>ecological value.   |
|             | CP4.3        | The tree planting works should be<br>implemented by approved<br>Landscape Contractors and<br>inspected and approved on site by<br>a qualified Landscape Architect. A<br>tree planting specification would be<br>included within the contract<br>documents.                           | Site     | Project<br>Proponent | Landscape<br>Architect, Project<br>Proponent / NA | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | *      | ✓         |        | Throughout<br>design and<br>construction<br>phases                    | To ensure the tree<br>preservation and<br>planting proposals are<br>integrated with the<br>existing landscape<br>context and that<br>valuable landscape<br>resources are<br>preserved where<br>appropriate to the final<br>design. |
| Table 12-11 | CP5          | Transplantation of Existing Trees  | 1        |                      |   |  | 1      | 1         | 1      |   |  |
|             | CP5.1        | The tree transplanting works<br>should be implemented by<br>approved Landscape Contractors<br>and inspected and approved on<br>site by a qualified Landscape<br>Architect. A tree protection /<br>transplanting specification would<br>be included within the contract<br>documents. | Site     | Project<br>Proponent | Project Proponent /<br>Contractor                 | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | *      | •         |        | Throughout<br>design and<br>construction<br>phases                    | To ensure the tree<br>preservation and<br>planting proposals are<br>integrated with the<br>existing landscape<br>context and that<br>valuable landscape<br>resources are<br>preserved where<br>appropriate to the final<br>design. |



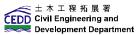
|             | Mit.  | Recommended Mitigation  |               |                      | Implementation/                       | Relevant Standard or   | Implen | nentation | Stages | Timing of  | Objectives of the Recommended  |
|-------------|-------|---|---------------|----------------------|---------------------------------------|--|--------|-----------|--------|--|--|
| EIA Ref.    | Code  | Measures  | Location      | Funding              | Maintenance Agent                     | Requirement  | D      | С         | 0      | Implementation                                     | Measure and Main<br>Concern to address   |
|             | CP5.2 | The implementation program<br>should reserve enough time for<br>advance tree transplanting<br>preparation.  | Site          | Project<br>Proponent | Project Proponent /<br>Contractor     | Annex 10 and Annex<br>18 of EIAO-TM,<br>ETWB TCW No.<br>3/2006 & WBTC No.<br>14/2002 | ✓<br>  | ✓         |        | Throughout<br>design and<br>construction<br>phases | To ensure the tree<br>preservation and<br>planting proposals are<br>integrated with the<br>existing landscape<br>context and that<br>valuable landscape<br>resources are<br>preserved where<br>appropriate to the final<br>design. |
| •           | 1     | cape and Visual Mitigation Measures   |               |                      |                                       |  |        |           |        |  |  |
| Table 12-12 | OP1   | Design of Cycle Track and Associate   | ed Facilities |                      | 1                                     | T  | 1      | 1         |        | 1  |  |
|             | OP1.1 | Where possible integrate the<br>alignment, as far as technically<br>feasible, with existing built<br>structures. Select responsive The<br>locations for the associated<br>facilities away from landscape and<br>visually sensitive areas. | Site          | Project<br>Proponent | Project Engineer<br>and Architect/ NA | Annex 10 and Annex<br>18 of EIAO-TM and<br>BD  | ✓      |           |        | Throughout<br>Design phase                         | To ensure the<br>proposals are<br>integrated with the<br>existing landscape<br>and visual context,<br>and avoid cluster<br>effect.   |
|             | OP1.2 | Where possible adopt a simple<br>building design and building height<br>profile, single-storey (lower than<br>the adjacent village houses),<br>responding to the village houses in<br>the context.  | Site          | Project<br>Proponent | Project Engineer<br>and Architect/ NA | Annex 10 and Annex<br>18 of EIAO-TM and<br>BD  | *      |           |        | Throughout<br>Design phase                         | To ensure the<br>proposals are<br>integrated with the<br>existing landscape<br>and visual context,<br>and avoid cluster<br>effect.   |
|             | OP1.3 | Use of natural materials such as<br>wooden framing or sustainable<br>materials such as recycle plastic<br>for built structure.  | Site          | Project<br>Proponent | Project Engineer<br>and Architect/ NA | Annex 10 and Annex<br>18 of EIAO-TM and<br>BD  | ×      |           |        | Throughout<br>Design phase                         | Responsive building<br>façade treatment to<br>reduce the apparent<br>visual mass of the<br>facilities and reduce<br>the glare effect from<br>the reflection of<br>sunlight.  |



|             | Mit.  | Recommended Mitigation   |          | n. Eurodia a         | Implementation/                                   | Relevant Standard or                                 | Implen   | nentation | Stages | Timing of                      | Objectives of the<br>Recommended  |
|-------------|-------|--|----------|----------------------|---|--|----------|-----------|--------|--------------------------------|---|
| EIA Ref.    | Code  | Measures   | Location | Funding              | Maintenance Agent                                 | Requirement  | D        | С         | 0      | Implementation                 | Measure and Main<br>Concern to address  |
|             | OP1.4 | Use of natural tones with non-<br>reflective finishes on the outward<br>facing building facades to reduce<br>glare effect. Sustainable material<br>such as recycle plastic shall be<br>considered.   | Site     | Project<br>Proponent | Project Engineer<br>and Architect/ NA             | Annex 10 and Annex<br>18 of EIAO-TM,<br>HKPSG and BD | ×        |           |        | Throughout<br>Design phase     | To reduce the<br>nighttime glare effect<br>to the surrounding<br>environs.  |
|             | OP1.5 | Formulate lighting operation<br>management programme to<br>minimize potential light spillage and<br>glare impacts.   | Site     | Project<br>Proponent | HyD and ArchSD/<br>HyD and ArchSD                 | Annex 10 and Annex<br>18 of EIAO-TM                  |          |           | ~      | Through out<br>Operation phase | To reduce the<br>nighttime glare effect<br>to the surrounding<br>environs.  |
| Table 12-12 | OP2   | Roadside and Amenity Planting  |          |                      |   |  | <b>T</b> |           |        |                                |   |
|             | OP2.1 | Utilise large ornamental trees with<br>high canopy and thin foliage to<br>allow some through views from the<br>adjacent neighbourhood and give<br>accent to the existing road planting<br>and wooded areas with the<br>advantage of creating a more<br>coherent landscape framework<br>whilst native species will utilise on<br>sloping area improving the<br>ecological connectivity between<br>existing woodland habitats. | Site     | Project<br>Proponent | Project Landscape<br>Architect / AFCD<br>and LCSD | Annex 10 and Annex<br>18 of EIAO-TM,<br>HKPSG and BD | ✓<br>    |           | •      | Through out<br>Design phase    | Provide a linkage with<br>the existing roadside<br>and woodland planting<br>areas creating a more<br>coherent landscape<br>framework. |
|             | OP2.2 | Large Feature Trees will utilise<br>within the resting station and<br>education centre or along the cycle<br>tracks where space allows   | Site     | Project<br>Proponent | Project Landscape<br>Architect / AFCD<br>and LCSD | Annex 10 and Annex<br>18 of EIAO-TM,<br>HKPSG & BD   | ~        |           | *      | Through out<br>Design phase    | Conserve and<br>enhance the<br>landscape interest.  |



|             | Mit.  | Recommended Mitigation  |          |                      | Implementation/                                   | Relevant Standard or                                 | Implementation Stag |   |   | Timing of                   | Objectives of the Recommended  |
|-------------|-------|---|----------|----------------------|---|--|---------------------|---|---|-----------------------------|--|
| EIA Ref.    | Code  | Measures  | Location | Funding              | Maintenance Agent                                 | Requirement  | D                   | с | 0 | Implementation              | Measure and Main<br>Concern to address   |
| Table 12-12 | OP3   | Compensatory Planting Proposals   |          | -                    |   |  | -                   |   |   |                             |  |
|             | OP3.1 | Utilise ornamental species along<br>the track and within the resting<br>stations and education whilst<br>species native to Hong Kong will<br>be added the roadside planting<br>along cycle track or on sloping area   | Site     | Project<br>Proponent | Project Landscape<br>Architect / AFCD<br>and LCSD | Annex 10 and Annex<br>18 of EIAO-TM,<br>HKPSG and BD | ✓                   |   | ✓ | Through out<br>Design phase | The planting proposal<br>seeks to compensate<br>for the predicted tree<br>loss resulting from the<br>construction of the<br>proposed works,<br>visually integrate the<br>proposals within its<br>existing landscape<br>framework and<br>provide an improved<br>visual amenity for<br>future residents. |
|             | OP3.2 | A qualified or registered landscape<br>architect will be involved in the<br>design, construction supervision<br>and monitoring, and maintenance<br>period to oversee the<br>implementation of the<br>recommended landscape and<br>visual mitigation measures<br>including the tree preservation and<br>landscape works on site. | Site     | Project<br>Proponent | Project Proponent /<br>NA                         | Annex 10 and Annex<br>18 of EIAO-TM,<br>HKPSG and BD | ✓                   |   |   | Through out<br>Design phase | The planting proposal<br>seeks to compensate<br>for the predicted tree<br>loss resulting from the<br>construction of the<br>proposed works,<br>visually integrate the<br>proposals within its<br>existing landscape<br>framework and<br>provide an improved<br>visual amenity for<br>future users.     |



|             | Mit.  | Recommended Mitigation  |          |                      | Implementation/                       | Relevant Standard or   | Impler | nentation | Stages | Timing of                   | Objectives of the<br>Recommended  |
|-------------|-------|---|----------|----------------------|---------------------------------------|--|--------|-----------|--------|-----------------------------|---|
| EIA Ref.    | Code  | Measures  | Location | Funding              | Maintenance Agent                     | Requirement  | D      | С         | 0      | Implementation              | Measure and Main<br>Concern to address  |
| Table 12-12 | OP4   | Treatment of Retaining Wall and Slop  | pes      |                      | _                                     |  |        |           |        |                             |   |
|             | OP4.1 | Use of soft landscape works<br>including tree and shrub planting to<br>give man-made slopes a more<br>natural appearance blending into<br>the woodland setting for the<br>development   | Site     | Project<br>Proponent | Project Landscape<br>Architect / AFCD | Annex 10 and Annex<br>18 of EIAO-TM,<br>HKPSG and BD<br>GEO Publication No.<br>1/2000 "Technical<br>Guidelines on<br>Landscape Treatment<br>and Bio-engineering<br>for Man-made Slopes<br>and Retaining Walls" | ✓      |           |        | Through out<br>Design phase | The design seeks to<br>visually integrate the<br>engineered slope<br>feature within the rural<br>and riverside<br>landscapes.   |
|             | OP4.2 | Utilise whip sized planting on the<br>face of soil cut slopes and at the<br>crest and toe of the slope, and<br>within berm planters these smaller,<br>younger plants adapt to their new<br>growing conditions more quickly<br>than larger sized stock and<br>establish a naturalistic effect more<br>rapidly. | Site     | Project<br>Proponent | Project Landscape<br>Architect/ AFCD  | Annex 10 and Annex<br>18 of EIAO-TM,<br>HKPSG and BD<br>GEO Publication No.<br>1/2000 "Technical<br>Guidelines on<br>Landscape Treatment<br>and Bio-engineering<br>for Man-made Slopes<br>and Retaining Walls" | *      |           | ~      | Through out<br>Design phase | The planting proposal<br>seeks to integrate the<br>engineered slope<br>feature within the rural<br>and riverside<br>landscapes. |

Legend: D – Design, C – Construction, O - Operation

Note: BD– Building Ordinance

ETWB TCW – Environmental and Transport Works Bureau Technical Circular

HKPSG - Hong Kong Planning Standards and Guidelines

EIAO-TM – Technical Memorandum on Environmental Impact Assessment Process

TPO – Town Planning Ordinance

WBTC - Works Bureau Technical Circulars