# Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Final EM&A Review Report

November 2013 to April 2019

**Submitted to**

Environmental Protection Department

**Prepared By**

Meinhardt Infrastructure and Environment Ltd

Meinhardt Infrastructure and Environment Limited

# Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

## Final EM&A Review Report

(November 2013 to April 2019)

Certified by: Fredrick Leong

Position: Environmental Team Leader

Date: 19 June 2019

MOTT MACDONALD

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**Your Reference**

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**Environmental Monitoring and Audit (EM&A) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange) – Entrusted Works**
**Environmental Permit No. EP-324/2008/E**
**Final EM&A Review Report for November 2013 to April 2019 for the portion of Stage 2 works entrusted to CEDD under Contract No. CV/2012/09**

17 June 2019
By Fax (2805 5028) & Hand

We refer to the Final EM&A Review Report for November 2013 to April 2019 for the Project received on 14 June 2019 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

Steven Tang
Independent Environmental Checker

c.c.

| | | |
|---|---|---|
| HyD | Mr. Chung Lok Chin | By Fax (2116 0714) |
| CEDD/BCP | Mr. Lu Pei Yu | By Fax (3547 1659) |
| AECOM | Mr. Alan Lee | By Fax (2171 3498) |
| Meinhardt | Mr. Fredrick Leong | By Fax (2540 1580) |

| Date | Revision | Prepared By | Checked By | Approved By |
|---|---|---|---|---|
| 19 June 2019 | 0 | WK CHIU<br>Bobo HUI | Fredrick LEONG | Helen COCHRANE |

Meinhardt Infrastructure and Environment Limited

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# EXECUTIVE SUMMARY

This report documents the findings of EM&A works conducted during the period between November 2013 and April 2019.

The impact stage EM&A programme for the Project includes air quality, noise and water quality monitoring.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the civil works contractors where appropriate in the construction period.

In the construction period, a total of 50 exceedance event was recorded and only 2 of the exceedance of suspended solids and turbidity recorded on 18 December 2013 were concluded to be project related. Necessary remedial actions have been taken and the exceedances have been rectified.

No environmental non-compliance was noted. A total 3 of environmental complaint was received, which was concluded that it was unlikely due to the construction works of this Project after investigations, was received. No environmental related prosecution or notification of summons was received in the construction period.

The box culvert works have been partially completed by the end of March 2014 except the last construction activity, i.e. installation of a base slab at Box Culvert ID4. The installation of the base slab at Box Culvert ID4 was commenced in December 2016 and has been completed in March 2017. The 4-week post-construction water quality monitoring at I5 was completed in the end of April 2017.

# 1 INTRODUCTION AND PROJECT INFORMATION

## 1.1 Background

1.1.1 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). An Environmental Impact Assessment (EIA) Report together with an Environmental Monitoring and Audit (EM&A) Manual were approved on 14 July 2000 (Register Number: EIA-043/2000). The Project is governed by an Environmental Permit (EP) (EP-324/2008) which was granted on 23 December 2008. A variation of EP (VEP) was applied and the VEP (EP-324/2008/A) was subsequently granted on 31 January 2012. An additional VEP has been applied on 24 February 2014 and the VEP (EP-324/2008/B) was subsequently granted on 17 March 2014. Furthermore, an additional VEP has been applied on 9 March 2015 and the VEP (EP-324/2008/C) was subsequently granted on 27 March 2015. The previous VEP (EP-324/2008/D) was granted on 27 August 2015. The current VEP (EP-324/2008/E) was granted on 26 January 2017.

1.1.2 Chun Wo Construction & Engineering Co Ltd (Chun Wo) was commissioned by the Civil Engineering and Development Department (CEDD) as the Civil Contractor for the Entrusted Portion of Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2. Meinhardt Infrastructure & Environment Ltd (MIEL) has been appointed by Chun Wo as the Environmental Team (ET) to fulfill the corresponding EM&A requirements pursuant to Environmental Permit No. EP-324/2008/E in accordance with the Updated EM&A Manual (dated October 2013) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2. The EM&A programme commenced in 5 November 2013.

1.1.3 **Figure 1** shows the works areas for the Entrusted Portion of Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2.

## 1.2 Construction Programme and Activities

1.2.1 The master construction programme for the entire construction period is presented in **Appendix A**. The major construction activities undertaken in the construction period are summarized below:

- Hoarding and fencing erection, initial survey and base slab demolition;
- Site clearance and tree felling;
- Excavation works and base slab demolition;
- Site formation;
- Trial Pit Excavation;
- Pre-drilling works and piling works;
- Bored pile and bored pile wall construction;
- Extension of Bored pile for bored pile wall;
- Trim pile head for bored pile wall;

- Erection of site office;
- Construction of haul road and temporary soil platform for geotechnical works;
- Slope upgrading works;
- Diversion of DN600;
- Diversion of DN1400;
- Installation of DN1200 Drainage Pipe by Pipe Jacking Method Across Fanling Highway;
- Pipe Jacking works for DN2200 Water Mains;
- Erection of temporary support at DSD nullah;
- Retaining structure construction;
- Catch Fence Installation;
- Extension of box culverts;
- Cable Detection and Trial Trenches;
- Remaining Works on New Kiu Tau Footbridge;
- Noise Barrier Construction;
- Roadworks and Pavement Works;
- Viaduct Segment Erection;
- Abutment Construction;
- Boundary wall construction for DSD pumping station;
- Construction of Remaining Base Slab of Box Culvert ID4;
- Gabion Wall Construction;
- Water Main Laying Works (on Grade and on bridge deck);
- Installation of Noise Barrier Steel Column & Panel and sign gantry (on Grade and on bridge deck);
- Parapet Installation on Bridge Deck;
- Drainage Work;
- Diversion of existing cycle track;
- Water pipe Installation;

- Planter Wall Construction;
- Roundabout Modification Works.
- Storm drains laying;
- Utilities duct laying
- Mini-pile installation;
- Socket H-pile installation;
- ADMS installation;
- Demolition of central divider at Fanling Highway;
- Portal beam construction;
- Pile Cap works;
- Receiving & Jacking Pit;
- Soil Nail Construction;
- RC structure of new valve control & Telemetry House;
- E & M Work for New Valve Control & Telemetry House;
- Demolition of Huts;
- Abutment construction for Bridge E;
- Pier Construction;
- Construction of Profile Barrier & Planter Wall on Bridge Deck;
- Stressing of External Tendon;
- Construction of Retaining Wall Behind Abutment and backfill;
- Waterproofing works on Bridge deck;
- Stitching works for longitudinal stitch of viaduct;
- Demolition of Existing Kiu Tau Vehicular Bridge;
- Erection of Temporary support for demolition of J-bridge;
- Installation of Stone Cladding;
- Construction of temporary steel ramp for Kiu Tau Footbridge; and
- Bitumen paving on bridge deck;

- Installation of deck cell light inside the bridge deck;
- Installation of movement joint on the bridge; and
- Landscaping works.

### 1.3 Project Organisation

1.3.1 The project organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project, together with the general enquiry hotline, are summarised in **Table 1.1**.

**Table 1.1 Contact Information of Key Personnel**

| Party | Role | Position | Name | Tele-phone | Fax |
|---|---|---|---|---|---|
| AECOM | Engineer's Representative | Senior Resident Engineer | Mr. Alan Lee | 2171 3303 | 2171 3498 |
| | | Resident Engineer (Environmental) | Mr. Perry Yam | 2171 3350 | |
| Mott MacDonald | Independent Environmental Checker (IEC) | IEC | Mr. Steven Tang | 2828 5920 | 2827 1823 |
| Chun Wo | Contractor | Site Agent | Mr. Daniel Ho | 2638 6144 | 2638 7077 |
| | | Environmental Officer | Mr. Yang Ran | 2638 6147 | |
| | | Environmental Supervisor | Mr. Franki Leung | 2638 7005 | |
| Meinhardt | Environmental Team (ET) | ET Leader | Mr. Fredrick Leong | 2859 1739 | 2540 1580 |
| Enquiry Hotline | General Enquiry | -- | Ms Helena Mak | 6355 1731 | -- |

### 1.4 Purpose of the Report

1.4.1 This is the Final EM&A Review Report which summaries the impact monitoring results and audit findings for the Project during the construction period between November 2013 and April 2019.

## 2 SUMMARY OF EM&A REQUIREMENTS

### 2.1 Environmental Impact Hypothesis under Monitoring

2.1.1 The EIA Report concluded that with proper mitigation measures implemented, fugitive dust emission during construction phase would be controlled and will not exceed the acceptable criteria.

2.1.2 For construction noise, exceedances were predicted only at 2 schools (SR41 Wong Shiu Chi Middle School and SR45 HK Teacher's Association Secondary School) but they are out of the scope of this EM&A Programme. Hence the EIA did not anticipate any noise exceedances during construction phase within the scope of this EM&A Programme.

2.1.3 For water quality, it is also anticipated that with proper protection measures being implemented, the water quality during construction phase would be locally confined and controllable.

2.1.4 The above criteria have been tested under this EM&A Programme during the construction period.

## 2.2 Monitoring Requirement

2.2.1 In accordance with the Updated EM&A Manual, environmental parameters including air quality, noise and water quality have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit Levels are given in **Table 3.1** and the location of the monitoring station is shown in the **Figure 2**.

**Table 2.1 Monitoring Parameter**

| Parameter | Unit | Action Level | Limit Level | Frequency |
|---|---|---|---|---|
| **Air Quality** | | | | |
| 1-hour TSP | $\mu g/m^3$ | 292.7 | 500 | Three times every 6 days |
| 24-hour TSP | $\mu g/m^3$ | 170.3 | 260 | Once every 6 days |
| **Construction Noise** | | | | |
| Leq 30min | dB(A) | When one documented valid complaint is received | 75 | Once every Week |
| **Water Quality** | | | | |
| Depth | | -- | -- | Three occasions per week |
| Temperature | °C | -- | -- | Three occasions per week |
| Salinity | ppt | -- | -- | Three occasions per week |
| pH | -- | -- | -- | Three occasions per week |
| DO | mg/L | 6.7 | 4mg/L or 40% saturation at 15 degree Celsius | Three occasions per week |
| DO Saturation | % | -- | -- | Three occasions per week |
| Turbidity | NTU | 81.9NTU or 120% of upstream control station's Tby of the same day | 91.9NTU or 130% of upstream control station's Tby of the same day | Three occasions per week |
| SS | mg/L | 42.6 mg/L or 120% of upstream control station's SS of the same day | 46.8 mg/L or 130% of upstream station's SS of the same day and specific sensitive receiver water quality requirements | Three occasions per week |

2.2.2 The Event and Action Plan for the occurrence of non-compliance of the criteria of the monitoring parameters is annexed in **Appendix C**.

## 2.3 Operational Phase Noise Monitoring

2.3.1 In accordance with the Updated EM&A Manual, operational noise monitoring is required for EM&A during operational phase. Monitoring location of SR20 Hong Lok Yuen is far from Entrusted Portion of Stage 2 and the SR20 is near to Contract 3 so the operation phases noise monitoring will be carried out by Contract 3.

# 3 IMPLEMENTATION STATUS ON ENVIRONEMNTAL PROPECTION REQUIREMENT

3.1.1 The Contractor has implemented the relevant environmental mitigation measures as specified in the EIA Reports, EPs and updated EM&A Manual. The implementation status of environmental mitigation measures during the reporting period is summarized in **Appendix H**. The status of the required submissions under the EP during the reporting period is summarized in **Table 3.1**.

**Table3.1 Status of Required Submission under Environmental Permit**

| EP Condition | Submission | Submission Date |
|---|---|---|
| Condition 2.6 | Landscape Plan* | 4 November 2013 |
| Condition 2.9 | As-Built Drawing for the Noise Mitigation measure | It will be submitted before operation of the project. |
| Condition 3.2 | Baseline Monitoring Report | 18 October 2013 |
| Condition 3.3 | Monthly EM&A Report for November 2013 | 13 December 2013 |
| Condition 3.3 | Monthly EM&A Report for December 2013 | 14 January 2014 |
| Condition 3.3 | Monthly EM&A Report for January 2014 | 14 February 2014 |
| Condition 3.3 | Monthly EM&A Report for February 2014 | 13 March 2014 |
| Condition 3.3 | Monthly EM&A Report for March 2014 | 11 April 2014 |
| Condition 3.3 | Monthly EM&A Report for April 2014 | 13 May 2014 |
| Condition 3.3 | Monthly EM&A Report for May 2014 | 13 June 2014 |
| Condition 3.3 | Monthly EM&A Report for June 2014 | 14 July 2014 |
| Condition 3.3 | Monthly EM&A Report for July 2014 | 14 August 2014 |
| Condition 3.3 | Monthly EM&A Report for August 2014 | 12 September 2014 |
| Condition 3.3 | Monthly EM&A Report for September 2014 | 13 October 2014 |
| Condition 3.3 | Monthly EM&A Report for October 2014 | 14 November 2014 |
| Condition 3.3 | Monthly EM&A Report for November 2014 | 10 December 2014 |

| EP Condition | Submission | Submission Date |
|---|---|---|
| Condition 3.3 | Monthly EM&A Report for December 2014 | 14 January 2015 |
| Condition 3.3 | Monthly EM&A Report for January 2015 | 10 February 2015 |
| Condition 3.3 | Monthly EM&A Report for March 2015 | 14 April 2015 |
| Condition 3.3 | Monthly EM&A Report for April 2015 | 14 May 2015 |
| Condition 3.3 | Monthly EM&A Report for May 2015 | 10 June 2015 |
| Condition 3.3 | Monthly EM&A Report for June 2015 | 13 July 2015 |
| Condition 3.3 | Monthly EM&A Report for July 2015 | 14 August 2015 |
| Condition 3.3 | Monthly EM&A Report for August 2015 | 14 September 2015 |
| Condition 3.3 | Monthly EM&A Report for September 2015 | 13 October 2015 |
| Condition 3.3 | Monthly EM&A Report for October 2015 | 13 November 2015 |
| Condition 3.3 | Monthly EM&A Report for November 2015 | 14 December 2015 |
| Condition 3.3 | Monthly EM&A Report for December 2015 | 14 January 2016 |
| Condition 3.3 | Monthly EM&A Report for January 2016 | 12 February 2016 |
| Condition 3.3 | Monthly EM&A Report for February 2016 | 14 March 2016 |
| Condition 3.3 | Monthly EM&A Report for March 2016 | 12 April 2016 |
| Condition 3.3 | Monthly EM&A Report for April 2016 | 13 May 2016 |
| Condition 3.3 | Monthly EM&A Report for May 2016 | 14 June 2016 |
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| Condition 3.3 | Monthly EM&A Report for July 2016 | 12 August 2016 |
| Condition 3.3 | Monthly EM&A Report for August 2016 | 13 September 2016 |
| Condition 3.3 | Monthly EM&A Report for September 2016 | 14 October 2016 |
| Condition 3.3 | Monthly EM&A Report for October 2016 | 14 November 2016 |
| Condition 3.3 | Monthly EM&A Report for November 2016 | 14 December 2016 |
| Condition 3.3 | Monthly EM&A Report for December 2016 | 13 January 2017 |
| Condition 3.3 | Monthly EM&A Report for January 2017 | 13 February 2017 |
| Condition 3.3 | Monthly EM&A Report for February 2017 | 13 March 2017 |
| Condition 3.3 | Monthly EM&A Report for March 2017 | 12 April 2017 |

| EP Condition | Submission | Submission Date |
|---|---|---|
| Condition 3.3 | Monthly EM&A Report for April 2017 | 12 May 2017 |
| Condition 3.3 | Monthly EM&A Report for May 2017 | 12 June 2017 |
| Condition 3.3 | Monthly EM&A Report for June 2017 | 12 July 2017 |
| Condition 3.3 | Monthly EM&A Report for July 2017 | 11 August 2017 |
| Condition 3.3 | Monthly EM&A Report for August 2017 | 13 September 2017 |
| Condition 3.3 | Monthly EM&A Report for September 2017 | 11 October 2017 |
| Condition 3.3 | Monthly EM&A Report for October 2017 | 9 November 2017 |
| Condition 3.3 | Monthly EM&A Report for November 2017 | 11 December 2017 |
| Condition 3.3 | Monthly EM&A Report for December 2017 | 12 January 2018 |
| Condition 3.3 | Monthly EM&A Report for January 2018 | 12 February 2018 |
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| Condition 3.3 | Monthly EM&A Report for March 2018 | 11 April 2018 |
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| Condition 3.3 | Monthly EM&A Report for May 2018 | 11 June 2018 |
| Condition 3.3 | Monthly EM&A Report for June 2018 | 11 July 2018 |
| Condition 3.3 | Monthly EM&A Report for July 2018 | 11 August 2018 |
| Condition 3.3 | Monthly EM&A Report for August 2018 | 11 September 2018 |
| Condition 3.3 | Monthly EM&A Report for September 2018 | 11 October 2018 |
| Condition 3.3 | Monthly EM&A Report for October 2018 | 9 November 2018 |
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| Condition 3.3 | Monthly EM&A Report for December 2018 | 9 January 2018 |
| Condition 3.3 | Monthly EM&A Report for January 2019 | 12 February 2018 |
| Condition 3.3 | Monthly EM&A Report for February 2019 | 11 March 2018 |
| Condition 3.3 | Monthly EM&A Report for March 2019 | 11 April 2018 |

Notes:
* For the landscape plan, most of the necessary mitigation measures have been implemented and the minor outstanding landscape works will be completed before operation of the Project.

# 4 SUMMARY OF EM&A MONITORING DATA

## 4.1 Air Quality Monitoring Data Results

4.1.1 The monitoring results for 1-hr and 24-hr TSP are summarised in **Table 4.1** and **Table 4.2** respectively. Detailed air quality monitoring results and the graphical presentation of air quality monitoring data for the construction period are presented in **Appendix D**.

**Table 4.1 Summary of 1-hr TSP Monitoring Results**

| ASR ID | Average ($\mu g/m^3$) | Range ($\mu g/m^3$) | Action Level ($\mu g/m^3$) | Limit Level ($\mu g/m^3$) |
|---|---|---|---|---|
| AM1(SR77) * | 135.7 | 34.6-283.0 | 292.7 | 500 |

Remark:
* Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

**Table 4.2 Summary of 24-hr TSP Monitoring Results**

| ASR ID | Average ($\mu g/m^3$) | Range ($\mu g/m^3$) | Action Level ($\mu g/m^3$) | Limit Level ($\mu g/m^3$) |
|---|---|---|---|---|
| AM1(SR77) * | 89.0 | 12.1 – 402.1 | 170.3 | 260 |

Remark:
* Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

## 4.2 Noise Monitoring Results

4.2.1 The monitoring results for noise are summarized in **Table 4.3** and the monitoring results and the graphical presentation of noise level for the construction period are presented in **Appendix E**.

**Table 4.3 Summary of Noise Monitoring Results**

| Noise Monitoring Station ID | Average, dB(A), Leq (30min) (2) | Range, dB(A), Leq (30min) (2) | Action Level | Limit Level, dB(A) |
|---|---|---|---|---|
| M1(SR77) (1) | 67.2 | 54.5 – 76.5 | When one documented valid complaint is received | 75 |

Remark:
(1) Station / NSR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling
(2) +3dB(A) façade correction included

## 4.3 Water Quality Monitoring Results

4.3.1 The monitoring results for water quality are summarized in **Table 4.** and the monitoring results and the graphical presentation of water quality for the construction period are presented in **Appendix F**.

**Table 4.4 Summary of Water Monitoring Results**

| Monitoring Location | Minimum | Maximum | Average | Action Level | Limit Level |
|---|---|---|---|---|---|
| **Water Quality** | | | | | |
| DO | | | | | |
| I5 | 4.3mg/L | 11.5mg/L | 8.0mg/L | 6.7 | 4mg/L or 40% saturation at 15 degree Celsius |
| C3a | 4.2mg/L | 10.3mg/L | 7.5mg/L | | |
| C3b | 5.4mg/L | 10.1mg/L | 7.8mg/L | | |
| Turbidity | | | | | |
| I5 | 2.0NTU | 86.7NTU | 17.9NTU | 81.9NTU or 120% of upstream control station's Tby of the same day | 91.9NTU or 130% of upstream control station's Tby of the same day |
| C3a | 4.1NTU | 135.0NTU | 24.6NTU | | |
| C3b | 3.2NTU | 90.3NTU | 21.0NTU | | |
| SS | | | | | |
| I5 | 2.0mg/L | 72.5mg/L | 9.3mg/L | 42.6 mg/L or 120% of upstream control station's SS of the same day | 46.8 mg/L or 130% of upstream station's SS of the same day and specific sensitive receiver water quality requirements |
| C3a | 2.6mg/L | 27.0mg/L | 8.8mg/L | | |
| C3b | 2.5mg/L | 133.0mg/L | 12.2mg/L | | |

4.3.2 The box culvert works have been partially completed by the end of March 2014 except the last construction activity, i.e. installation of a base slab at Box Culvert ID4. The box culvert works had been completed in March 2017. The 4-week post-construction water quality monitoring at I5 was completed in 28 April 2017.

## 4.4 Summary of Monitoring Exceedances

4.4.1 The number of exceedance events recorded in the construction period is summarized in **Table 4.5.**

4.4.2 Investigation for the exceedance event in the construction period has been completed and the exceedance was concluded not related to the Project. No necessary remedial actions have been taken. The respective investigation report has been presented in the respective Monthly EM&A Report.

**Table 4.5 Summary of Exceedance Events in the Construction period**

| Parameter | | Number of Exceedance Events | Number of Project Related Exceedance Events |
|---|---|---|---|
| **Air Quality** | | | |
| 1-hour Total Suspended Particulates | Action Level | 0 | 0 |
| | Limit Level | 0 | 0 |
| 24-hour Total Suspended Particulates | Action Level | 19 | 0 |
| | Limit Level | 4 | 0 |

| Parameter | | Number of Exceedance Events | Number of Project Related Exceedance Events |
|---|---|---|---|
| **Construction Noise** | | | |
| Leq 30min | Action Level | 0 | 0 |
| | Limit Level | 2 | 0 |
| **Water Quality** | | | |
| DO | Action Level | 4 | 0 |
| | Limit Level | 6 | 0 |
| Turbidity | Action Level | 2 | 0 |
| | Limit Level | 3 | 1 |
| SS | Action Level | 1 | 0 |
| | Limit Level | 9 | 1 |

# 5 WASTE MANAGEMENT

5.1.1 The Contractor has registered as a chemical waste producer of the Project. The C&D materials and waste sorting were carried out on-site. Receptacles were provided for general refuse collection.

5.1.2 As advised by the Contractor, a total of 146708m$^3$ of excavated material has been generated. 101562m$^3$ of inert C&D materials was disposed of at public fill to Tuen Mun Area 38. 26844m$^3$ of inert C&D materials were reused on site. 7560m$^3$ of general refuse was disposed of at North East New Territories (NENT) Landfill. 1143 m$^3$ plastic was collected by recycling contractor in the reporting month. 1m$^3$ paper/cardboard packaging was collected by recycling contractor in the reporting month. 3543m$^3$ metals were collected by recycling contractor in the reporting month. 3433 m$^3$ chemical waste was collected by licensed contractor in the construction period. Details of the waste management data are presented in **Appendix G**.

# 6 ENIVIRONMENT SITE INSPECTION AND AUDIT

## 6.1 Site Audit

6.1.1 Site inspection and audit was carried out by representatives of the Contractor, Engineer and ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The representative of the IEC joined the site inspections once per month.

## 6.2 Environmental Mitigation Measures

6.2.1 The Contractor has implemented the relevant environmental mitigation measures as specified in the EIA Reports, EPs and updated EM&A Manual. The implementation status of environmental mitigation measures during the construction period is summarized in **Appendix H**.

6.2.1 The Contractor has been reminded to strengthen the mitigation measures including:

*Air Quality*

- Covering of exposed slopes near the river;

- Mud and debris shall be removed to prevent potential muddy water flow to public road;
- Watering and covering of exposed slopes and stockpiles to avoid fugitive dust emission;
- Watering within site and vehicle washing facilities shall be enhanced;
- Water spraying should be properly implemented whenever necessary for the unpaved roads, access roads and construction areas;
- Water treatment facilities should be properly maintained avoid untreated water entering storm drain;
- All vehicles should be washed to remove any dusty materials before leaving the construction site, and the wheel washing facilities should be properly maintained to ensure proper functioning;
- Colour NRMM label shall be provided for all Non Road Mobile Machineries and
- Plant equipment should be properly maintained to avoid emitting black smoke;

*Chemical and Waste Management*

- Ensuring regular maintenance and cleaning of waste storage area;
- Good housekeeping should be maintained and general refuse should be removed regularly;
- All types of wastes, both on land floating in the river stream, should be collected sorted properly, also be disposed timely properly. Refuse collection bins should be labelled properly;
- Refuse collection bins should be labelled properly;
- On site segregation should be implemented as far as practicable for reuse and recycle;
- All chemicals stored on site should be provided with drip trays/ secondary containment;
- A spill response procedure shall be in place absorption material available for minor spillages; and
- Good housekeeping should be maintained and stagnant water should be removed from secondary containment regularly.

Water Quality

- Surface run-off, rainwater and waste water from construction site discharged into appropriate drains via adequately designed sand/ silk removal facilities (e.g. sand traps, sile traps and sedimentation basins) and pH adjusted before discharge;

- Building a river diversion structure at the river channel to protect the river from potential site runoff and fill up the leakage and strengthen the river diversion works to avoid future leakage;
- Pay attention on accidental site runoff, including construction of additional protection structure if necessary, to minimize the risk of site runoff;
- Silty effluent should be treated/desilted before discharged. Untreated effluent should be prevented from entering public drain channel;
- Channels or earth bunds or sand bag barriers should be provided on site to prevent surface runoff and properly direct stormwater to silt removal facilities;
- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas;
- Drainage facilities shall be well maintained and inspected regularly;
- Preventive measure shall be enhanced to prevent soil/ rock from engineering the WSD area;
- Trapped Water shall be pumped or removed to avoid site runoff overflow;
- Enhancement to water pumping pipe at NB 67 shall be adopted; and
- Wastewater shall be removed and treated properly prior to discharge in accordance with WPCO License.

Others

- Ensuring the provision of tree protection zone for all existing trees to be transplanted or retained.

# 7 ENVIRONMENTAL NON-CONFORMANCE

## 7.1 Summary of Environmental Non-Compliance

7.1.1 No environmental non-compliance was recorded in the construction period.

## 7.2 Summary of Environmental Complaints

7.2.1 Total three (3) environmental complaints were received in the construction period. One (1) environmental complaint was received in the construction period regarding water quality of Ma Wat River at 26 November 2013. One (1) environmental complaint was received in the construction period regarding water quality of Ng Tung River at 20 November 2014. And one (1) environmental complaint was received in the construction period regarding air quality nearby Kau Lung Hang and Hong Lok Yuen was received on 28 Dec 2017. Investigations have been conducted and all complaints were considered unlikely due to the construction works of this Project.

### 7.3 Summary of Environmental Summon and Successful Prosecutions

7.3.1 No environmental related prosecution or notification of summons was received in the construction period. The cumulative statistics are provided in is provided in **Appendix G**.

# 8 REVIEW OF THE VALIDITY OF EIA PREDICTIONS

8.1.1 The EIA report predicted that with proper implementation of the mitigation measures for air and noise, environmental impact would be locally confined and controllable. During the construction period, only 2 exceedances were recorded in 1 day due to a leakage at the bund used for river diversion.One (1) exceedance was recorded and the exceedance was concluded not related to the Project. Hence, it is considered that the EIA predictions are valid for the construction period.

# 9 REVIEW OF EM&A PROGRAMME

9.1.1 The EM&A programme was considered successfully and adequately conducted during the course of the construction period. With the environmental monitoring and site inspection to directly ensure the timely implementation of mitigation measures during the Project, the environmental performance of the project was acceptable. Analysis of all EM&A data collected throughout the construction periods also demonstrated the environmental acceptability of the Project.

# 10 CONCLUSIONS

10.1.1 The EM&A programme were carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the civil works contractors where appropriate in the construction period.

10.1.2 In the construction period, only 2 of the exceedance were related to the Project. No necessary remedial actions have been taken. Necessary remedial actions have been taken and the exceedances have been rectified.

10.1.3 A total 3 of environmental complaint was received, which was concluded that it was unlikely due to the construction works of this Project after investigations were received. No environmental related prosecution or notification of summons was received in the construction period. No environmental complaint was received in the construction period.

# Figure

Contract No. CV/2012/09
Liantang / Heung Yuen Wai Boundary Control Point
Site Formation and Infrastructure Works - Contract 3

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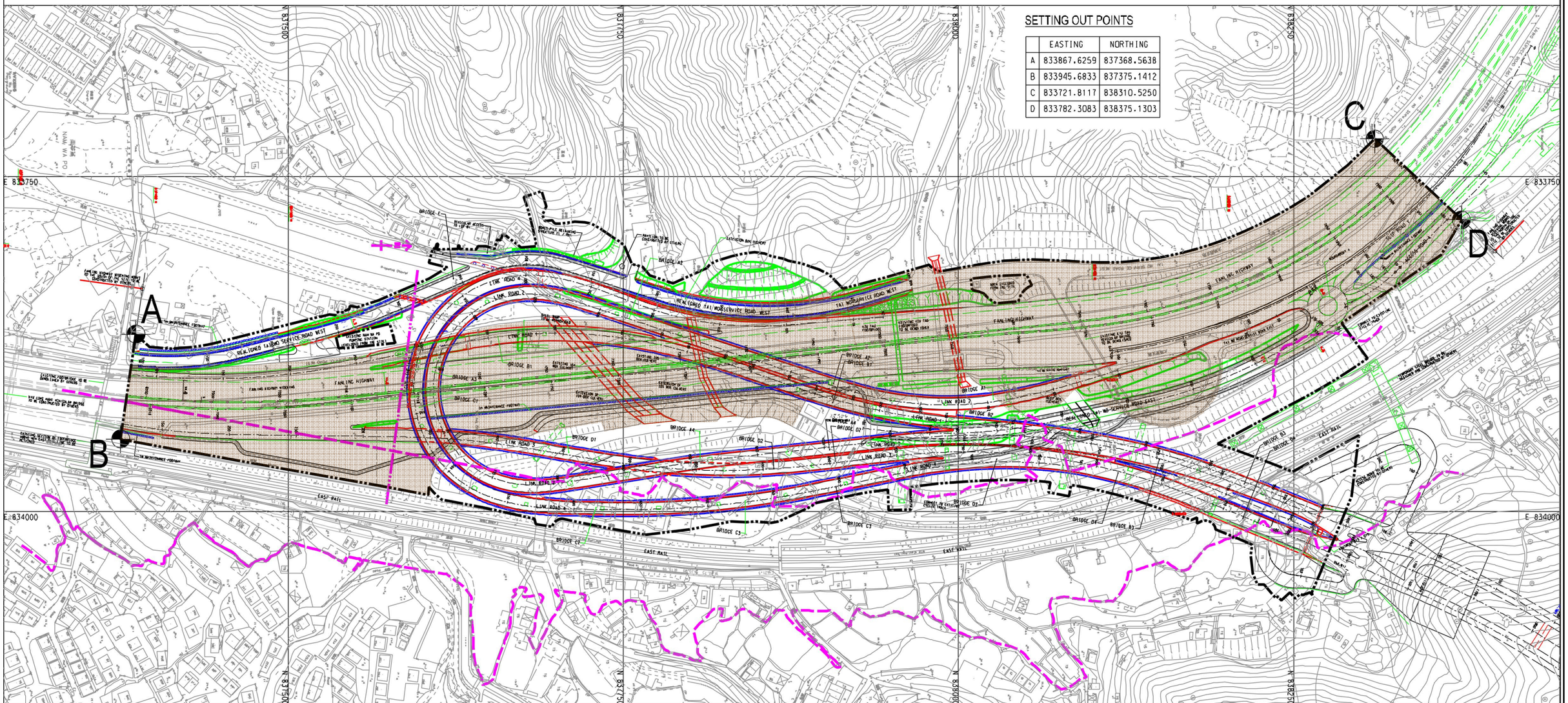
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

SETTING OUT POINTS

| | EASTING | NORTHING |
|---|---|---|
| A | 833867.6259 | 837368.5638 |
| B | 833945.6833 | 837375.1412 |
| C | 833721.8117 | 838310.5250 |
| D | 833782.3083 | 838375.1303 |

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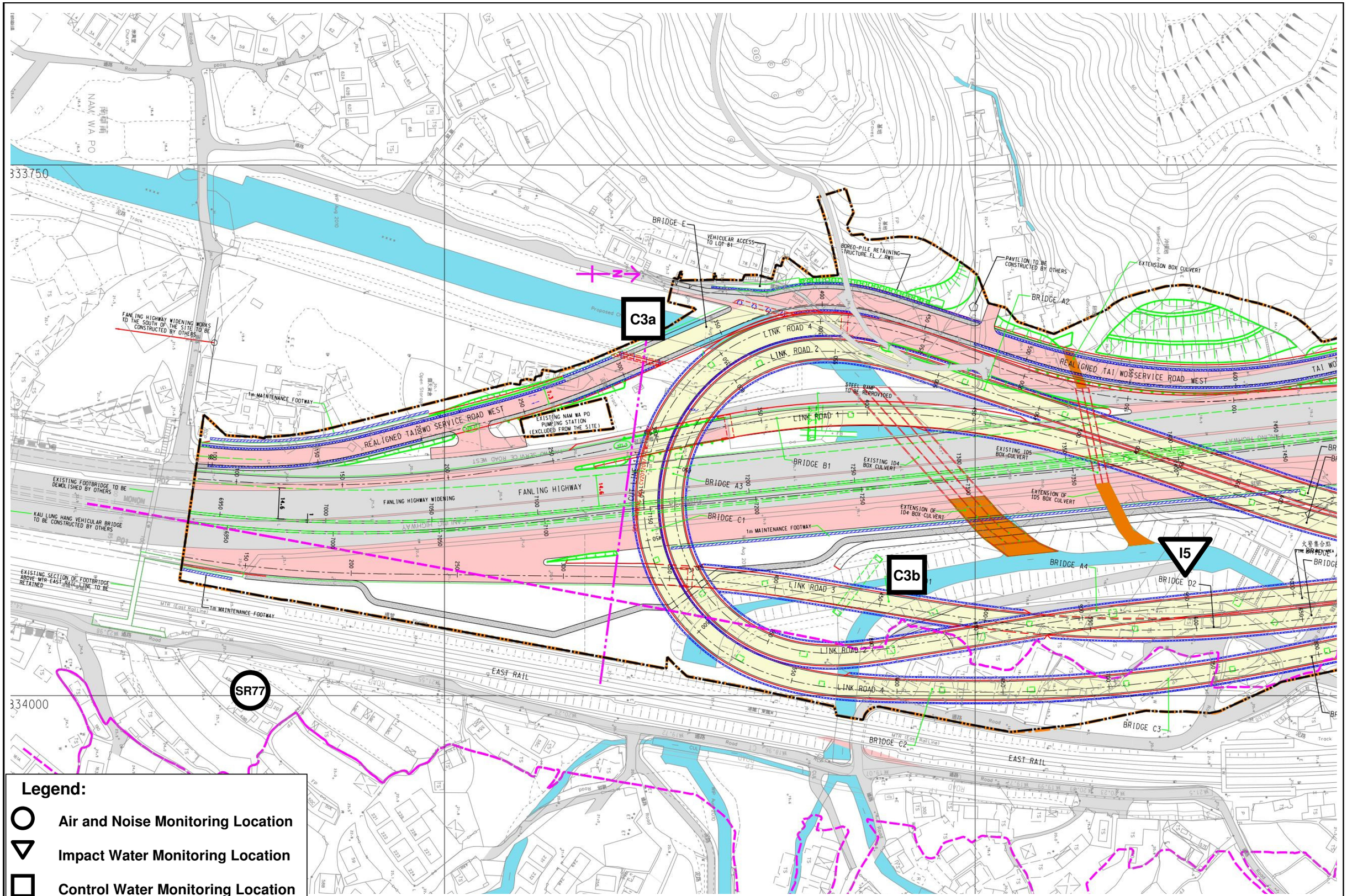
**Legend:**

**Works Area for Entrusted Portion**

| | | |
|---|---|---|
| MEINHARDT | **Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2** | **Figure 1: Demarcation of Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling – Stage 2** |



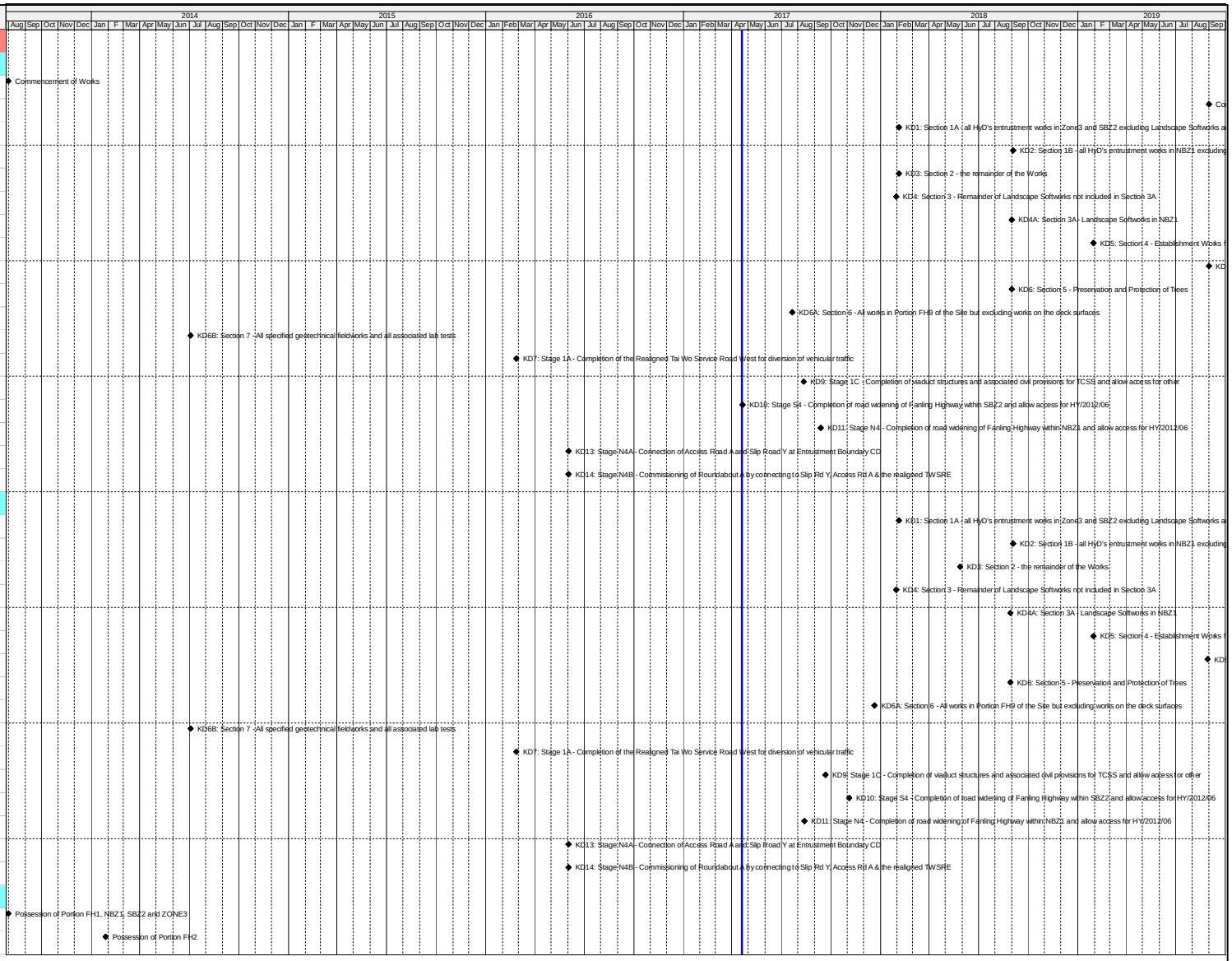

**Legend:**

- Air and Noise Monitoring Location
- Impact Water Monitoring Location
- Control Water Monitoring Location

| | | |
|---|---|---|
| MEINHARDT | Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 | **Figure 2: Environmental Monitoring Locations** |

# Appendix A
# Construction Programme

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| ***Updated Master Programme (UMP05B) Data Date: 20 Apr 2017*** | | 1786 | 697 | 31-Jul-13 A | 31-Aug-19 |
| ***Key Dates (Contractual)*** | | 2223 | 864 | 31-Jul-13 A | 31-Aug-19 |
| KD-0010 | Commencement of Works | 0 | 0 | 31-Jul-13 A | |
| KD-0020 | Completion of Contract CV/2012/09 | 0 | 0 | | 31-Aug-19* |
| KD-0100 | KD1: Section 1A - all HyD's entrustment works in Zone3 and SBZ2 excluding Landscape Softworks and Establishment Works | 0 | 0 | | 03-Feb-18* |
| KD-0200 | KD2: Section 1B - all HyD's entrustment works in NBZ1 excluding Landscape Softworks and Establishment Works | 0 | 0 | | 03-Sep-18* |
| KD-0300 | KD3: Section 2 - the remainder of the Works | 0 | 0 | | 03-Feb-18* |
| KD-0400 | KD4: Section 3 - Remainder of Landscape Softworks not included in Section 3A | 0 | 0 | | 29-Jan-18* |
| KD-0500 | KD4A: Section 3A - Landscape Softworks in NBZ1 | 0 | 0 | | 31-Aug-18* |
| KD-0600 | KD5: Section 4 - Establishment Works for Landscape Softworks under Section 3 | 0 | 0 | | 29-Jan-19* |
| KD-0700 | KD5A: Section 4A - Establishment Works for Landscape Softworks under Section 3A | 0 | 0 | | 31-Aug-19* |
| KD-0800 | KD6: Section 5 - Preservation and Protection of Trees | 0 | 0 | | 31-Aug-18* |
| KD-0900 | KD6A: Section 6 - All works in Portion FH9 of the Site but excluding works on the deck surfaces | 0 | 0 | | 21-Jul-17* |
| KD-1000 | KD6B: Section 7 - All specified geotechnical fieldworks and all associated lab tests | 0 | 0 | | 03-Jul-14 A |
| KD-1100 | KD7: Stage 1A - Completion of the Realigned Tai Wo Service Road West for diversion of vehicular traffic | 0 | 0 | | 26-Feb-16 A |
| KD-1200 | KD9: Stage 1C - Completion of viaduct structures and associated civil provisions for TCSS and allow access for other | 0 | 0 | | 11-Aug-17* |
| KD-1300 | KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and allow access for HY/2012/06 | 0 | 0 | | 20-Apr-17* |
| KD-1400 | KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and allow access for HY/2012/06 | 0 | 0 | | 12-Sep-17* |
| KD-1500 | KD13: Stage N4A - Connection of Access Road A and Slip Road Y at Entrustment Boundary CD | 0 | 0 | | 02-Jun-16 A |
| KD-1600 | KD14: Stage N4B - Commissioning of Roundabout A by connecting to Slip Rd Y, Access Rd A & the realigned TWSRE | 0 | 0 | | 02-Jun-16 A |
| ***Key Dates (Forecast)*** | | 1473 | 600 | 03-Jul-14 A | 29-Aug-19 |
| KD-0105 | KD1: Section 1A - all HyD's entrustment works in Zone3 and SBZ2 excluding Landscape Softworks and Establishment Works | 0 | 0 | | 03-Feb-18 |
| KD-0205 | KD2: Section 1B - all HyD's entrustment works in NBZ1 excluding Landscape Softworks and Establishment Works | 0 | 0 | | 03-Sep-18 |
| KD-0305 | KD3: Section 2 - the remainder of the Works | 0 | 0 | | 28-May-18 |
| KD-0405 | KD4: Section 3 - Remainder of Landscape Softworks not included in Section 3A | 0 | 0 | | 29-Jan-18 |
| KD-0505 | KD4A: Section 3A - Landscape Softworks in NBZ1 | 0 | 0 | | 29-Aug-18 |
| KD-0605 | KD5: Section 4 - Establishment Works for Landscape Softworks under Section 3 | 0 | 0 | | 29-Jan-19 |
| KD-0705 | KD5A: Section 4A - Establishment Works for Landscape Softworks under Section 3A | 0 | 0 | | 29-Aug-19 |
| KD-0805 | KD6: Section 5 - Preservation and Protection of Trees | 0 | 0 | | 29-Aug-18 |
| KD-0905 | KD6A: Section 6 - All works in Portion FH9 of the Site but excluding works on the deck surfaces | 0 | 0 | | 20-Dec-17 |
| KD-1005 | KD6B: Section 7 - All specified geotechnical fieldworks and all associated lab tests | 0 | 0 | | 03-Jul-14 A |
| KD-1105 | KD7: Stage 1A - Completion of the Realigned Tai Wo Service Road West for diversion of vehicular traffic | 0 | 0 | | 26-Feb-16 A |
| KD-1205 | KD9: Stage 1C - Completion of viaduct structures and associated civil provisions for TCSS and allow access for other | 0 | 0 | | 20-Sep-17 |
| KD-1305 | KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and allow access for HY/2012/06 | 0 | 0 | | 04-Nov-17* |
| KD-1405 | KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and allow access for HY/2012/06 | 0 | 0 | | 12-Aug-17* |
| KD-1505 | KD13: Stage N4A - Connection of Access Road A and Slip Road Y at Entrustment Boundary CD | 0 | 0 | | 02-Jun-16 A |
| KD-1605 | KD14: Stage N4B - Commissioning of Roundabout A by connecting to Slip Rd Y, Access Rd A & the realigned TWSRE | 0 | 0 | | 02-Jun-16 A |
| ***Possession of Site*** | | 386 | 0 | 31-Jul-13 A | 15-Aug-14 A |
| PS-P01 | Possession of Portion FH1, NBZ1, SBZ2 and ZONE3 | 0 | 0 | 31-Jul-13 A | |
| PS-P02 | Possession of Portion FH2 | 0 | 0 | 27-Jan-14 A | |

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- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

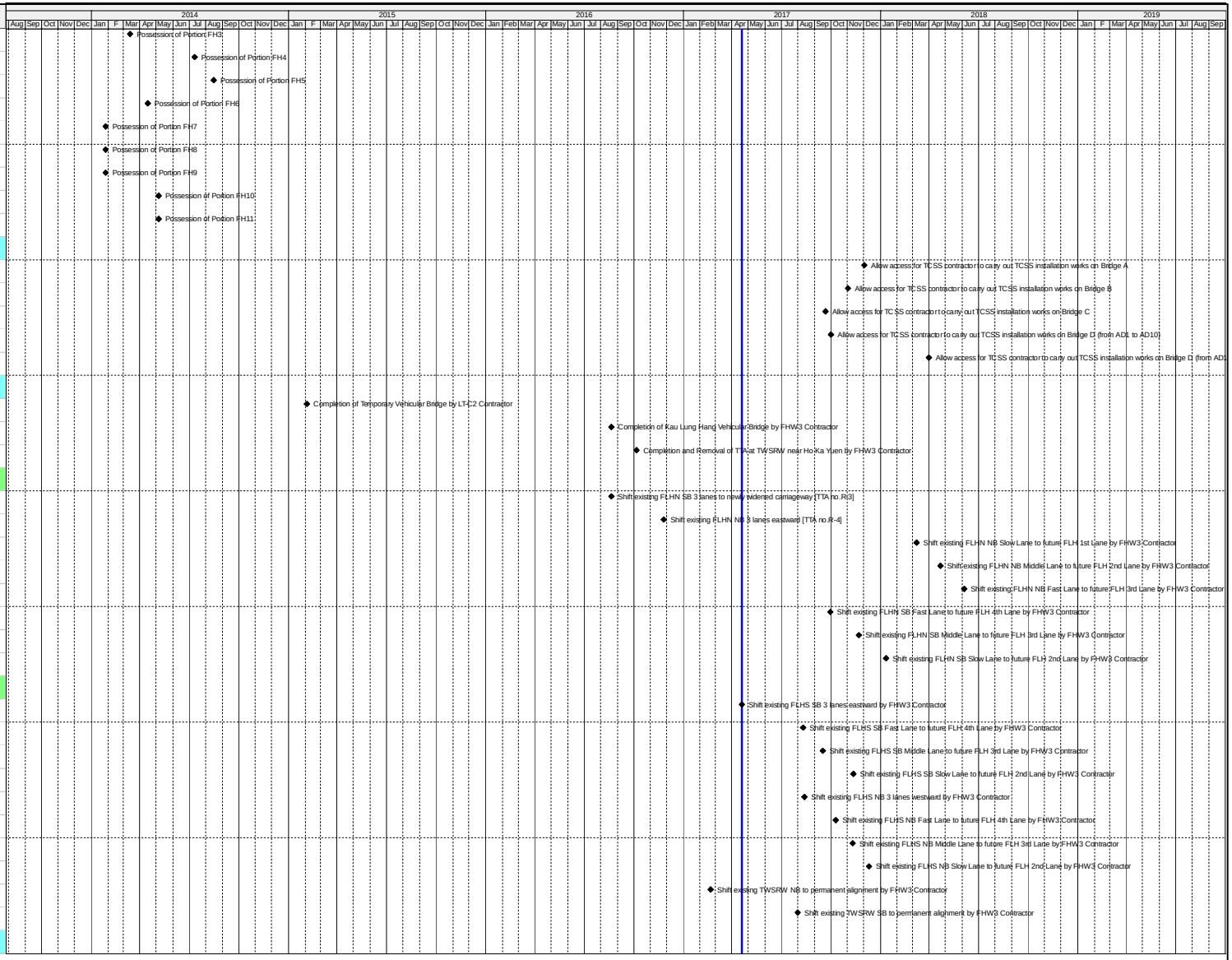
## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| PS-P03 | Possession of Portion FH3 | 0 | 0 | 13-Mar-14 A | |
| PS-P04 | Possession of Portion FH4 | 0 | 0 | 11-Jul-14 A | |
| PS-P05 | Possession of Portion FH5 | 0 | 0 | 15-Aug-14 A | |
| PS-P06 | Possession of Portion FH6 | 0 | 0 | 15-Apr-14 A | |
| PS-P07 | Possession of Portion FH7 | 0 | 0 | 27-Jan-14 A | |
| PS-P08 | Possession of Portion FH8 | 0 | 0 | 27-Jan-14 A | |
| PS-P09 | Possession of Portion FH9 | 0 | 0 | 27-Jan-14 A | |
| PS-P10 | Possession of Portion FH10 | 0 | 0 | 05-May-14 A | |
| PS-P11 | Possession of Portion FH11 | 0 | 0 | 05-May-14 A | |
| ***Tentative Handover Schedule to TCSS contractor*** | | 192 | 192 | 20-Sep-17 | 31-Mar-18 |
| HS-A | Allow access for TCSS contractor to carry out TCSS installation works on Bridge A | 0 | 0 | | 01-Dec-17* |
| HS-B | Allow access for TCSS contractor to carry out TCSS installation works on Bridge B | 0 | 0 | | 01-Nov-17* |
| HS-C | Allow access for TCSS contractor to carry out TCSS installation works on Bridge C | 0 | 0 | | 20-Sep-17* |
| HS-D1 | Allow access for TCSS contractor to carry out TCSS installation works on Bridge D (from AD1 to AD10) | 0 | 0 | | 01-Oct-17* |
| HS-D2 | Allow access for TCSS contractor to carry out TCSS installation works on Bridge D (from AD10 to AD14) | 0 | 0 | | 31-Mar-18* |
| ***Dependent Milestones from Other Contracts*** | | 1228 | 309 | 03-Feb-15 A | 05-Jun-18 |
| MS-DM01 | Completion of Temporary Vehicular Bridge by LT-C2 Contractor | 0 | 0 | | 03-Feb-15 A |
| MS-DM02 | Completion of Kau Lung Hang Vehicular Bridge by FHW3 Contractor | 0 | 0 | | 20-Aug-16 A |
| MS-DM03 | Completion and Removal of TTA at TWSRW near Ho Ka Yuen by FHW3 Contractor | 0 | 0 | | 07-Oct-16 A |
| ***Related to North Buffer Zone*** | | 628 | 248 | 21-Aug-16 A | 05-Jun-18 |
| MS-NBZ010 | Shift existing FLHN SB 3 lanes to newly widened carriageway [TTA no.R-3] | 0 | 0 | 21-Aug-16 A | |
| MS-NBZ020 | Shift existing FLHN NB 3 lanes eastward [TTA no.R-4] | 0 | 0 | 26-Nov-16 A | |
| MS-NBZ110 | Shift existing FLHN NB Slow Lane to future FLH 1st Lane by FHW3 Contractor | 0 | 0 | 08-Mar-18* | |
| MS-NBZ120 | Shift existing FLHN NB Middle Lane to future FLH 2nd Lane by FHW3 Contractor | 0 | 0 | 22-Apr-18* | |
| MS-NBZ130 | Shift existing FLHN NB Fast Lane to future FLH 3rd Lane by FHW3 Contractor | 0 | 0 | 05-Jun-18* | |
| MS-NBZ140 | Shift existing FLHN SB Fast Lane to future FLH 4th Lane by FHW3 Contractor | 0 | 0 | 30-Sep-17* | |
| MS-NBZ150 | Shift existing FLHN SB Middle Lane to future FLH 3rd Lane by FHW3 Contractor | 0 | 0 | 21-Nov-17* | |
| MS-NBZ160 | Shift existing FLHN SB Slow Lane to future FLH 2nd Lane by FHW3 Contractor | 0 | 0 | 11-Jan-18* | |
| ***Related to South Buffer Zone*** | | 284 | 132 | 20-Feb-17 A | 10-Dec-17 |
| MS-SBZ110 | Shift existing FLHS SB 3 lanes eastward by FHW3 Contractor | 0 | 0 | 20-Apr-17 A | |
| MS-SBZ120 | Shift existing FLHS SB Fast Lane to future FLH 4th Lane by FHW3 Contractor | 0 | 0 | 11-Aug-17* | |
| MS-SBZ130 | Shift existing FLHS SB Middle Lane to future FLH 3rd Lane by FHW3 Contractor | 0 | 0 | 16-Sep-17* | |
| MS-SBZ140 | Shift existing FLHS SB Slow Lane to future FLH 2nd Lane by FHW3 Contractor | 0 | 0 | 12-Nov-17* | |
| MS-SBZ150 | Shift existing FLHS NB 3 lanes westward by FHW3 Contractor | 0 | 0 | 13-Aug-17* | |
| MS-SBZ160 | Shift existing FLHS NB Fast Lane to future FLH 4th Lane by FHW3 Contractor | 0 | 0 | 10-Oct-17* | |
| MS-SBZ170 | Shift existing FLHS NB Middle Lane to future FLH 3rd Lane by FHW3 Contractor | 0 | 0 | 10-Nov-17* | |
| MS-SBZ180 | Shift existing FLHS NB Slow Lane to future FLH 2nd Lane by FHW3 Contractor | 0 | 0 | 10-Dec-17* | |
| MS-SBZ210 | Shift existing TWSRW NB to permanent alignment by FHW3 Contractor | 0 | 0 | 20-Feb-17 A | |
| MS-SBZ220 | Shift existing TWSRW SB to permanent alignment by FHW3 Contractor | 0 | 0 | 31-Jul-17* | |
| ***Major Milestones and Events*** | | 1073 | 328 | 09-Nov-14 A | 05-Jun-18 |

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Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
Milestone
Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

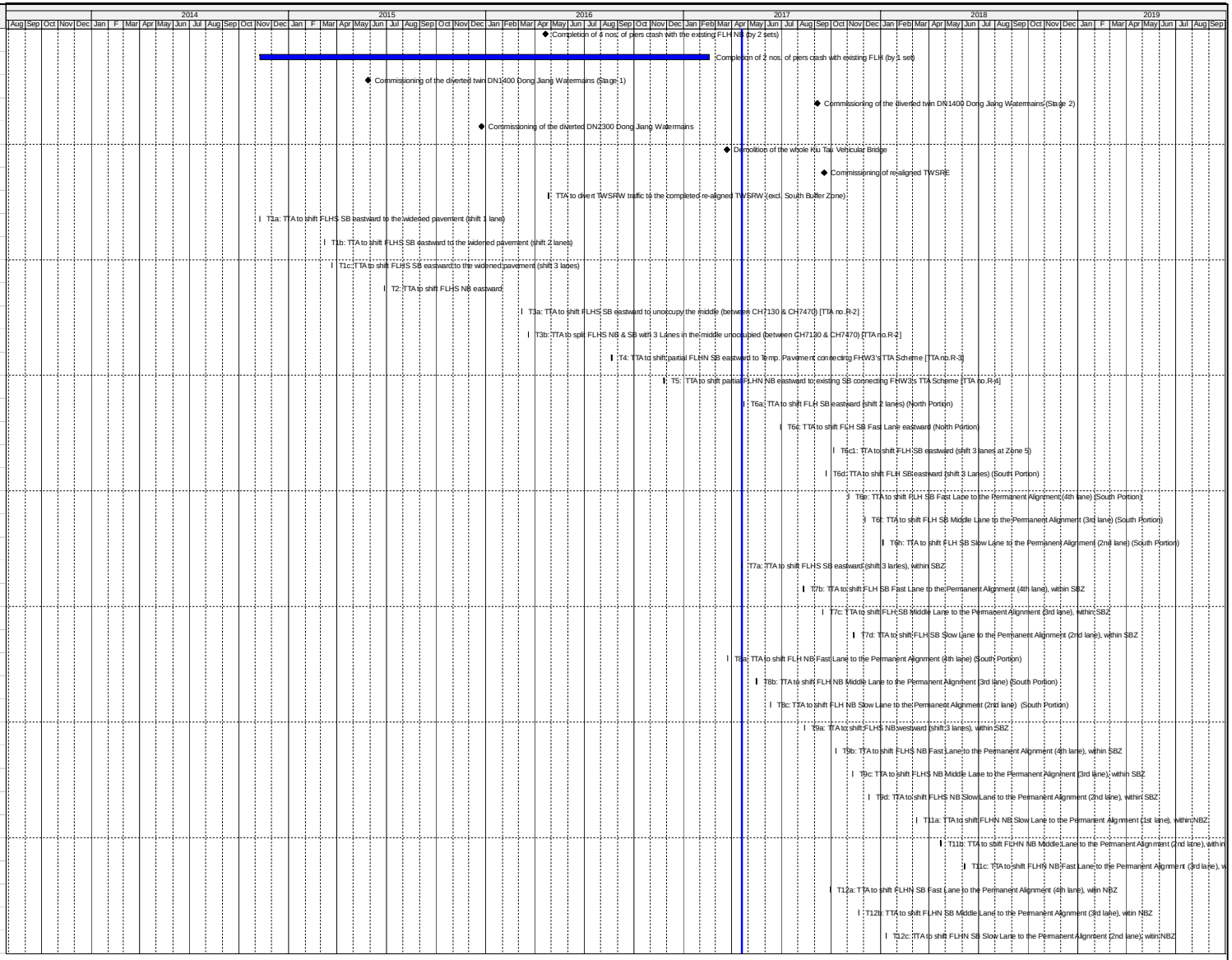
## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| MS-0110 | Completion of 4 nos. of piers crash with the existing FLH NB (by 2 sets) | 0 | 0 | | 20-Apr-16 A |
| MS-0120 | Completion of 2 nos. of piers crash with existing FLH (by 1 set) | 1073 | 0 | 09-Nov-14 A | 18-Feb-17 A |
| MS-0210 | Commissioning of the diverted twin DN1400 Dong Jiang Watermains (Stage 1) | 0 | 0 | | 27-May-15 A |
| MS-0220 | Commissioning of the diverted twin DN1400 Dong Jiang Watermains (Stage 2) | 0 | 0 | | 05-Sep-17* |
| MS-0230 | Commissioning of the diverted DN2300 Dong Jiang Watermains | 0 | 0 | | 24-Dec-15 A |
| MS-0310 | Demolition of the whole Kiu Tau Vehicular Bridge | 0 | 0 | | 22-Mar-17 A |
| MS-0320 | Commissioning of re-aligned TWSRE | 0 | 0 | 18-Sep-17 | |
| MS-0410 | TTA to divert TWSRW traffic to the completed re-aligned TWSRW (excl. South Buffer Zone) | 1 | 0 | 26-Apr-16 A | 26-Apr-16 A |
| MS-1010A | T1a: TTA to shift FLHS SB eastward to the widened pavement (shift 1 lane) | 1 | 0 | 09-Nov-14 A | 09-Nov-14 A |
| MS-1010B | T1b: TTA to shift FLHS SB eastward to the widened pavement (shift 2 lanes) | 1 | 0 | 08-Mar-15 A | 08-Mar-15 A |
| MS-1010C | T1c: TTA to shift FLHS SB eastward to the widened pavement (shift 3 lanes) | 1 | 0 | 22-Mar-15 A | 22-Mar-15 A |
| MS-1020 | T2: TTA to shift FLHS NB eastward | 1 | 0 | 27-Jun-15 A | 27-Jun-15 A |
| MS-1030A | T3a: TTA to shift FLHS SB eastward to unoccupy the middle (between CH7130 & CH7470) [TTA no.R-2] | 1 | 0 | 07-Mar-16 A | 07-Mar-16 A |
| MS-1030B | T3b: TTA to split FLHS NB & SB with 3 Lanes in the middle unoccupied (between CH7130 & CH7470) [TTA no.R-2] | 1 | 0 | 20-Mar-16 A | 20-Mar-16 A |
| MS-1040 | T4: TTA to shift partial FLHN SB eastward to Temp. Pavement connecting FHW3's TTA Scheme [TTA no.R-3] | 1 | 0 | 21-Aug-16 A | 21-Aug-16 A |
| MS-1050 | T5: TTA to shift partial FLHN NB eastward to existing SB connecting FHW3's TTA Scheme [TTA no.R-4] | 1 | 0 | 26-Nov-16 A | 26-Nov-16 A |
| MS-1060a | T6a: TTA to shift FLH SB eastward (shift 2 lanes) (North Portion) | 1 | 1 | 23-Apr-17* | 23-Apr-17 |
| MS-1060c | T6c: TTA to shift FLH SB Fast Lane eastward (North Portion) | 1 | 1 | 30-Jun-17 | 30-Jun-17 |
| MS-1060c1 | T6c1: TTA to shift FLH SB eastward (shift 3 lanes at Zone 5) | 1 | 1 | 06-Oct-17 | 06-Oct-17 |
| MS-1060d | T6d: TTA to shift FLH SB eastward (shift 3 Lanes) (South Portion) | 1 | 1 | 22-Sep-17 | 22-Sep-17 |
| MS-1060e | T6e: TTA to shift FLH SB Fast Lane to the Permanent Alignment (4th lane) (South Portion) | 1 | 1 | 03-Nov-17 | 03-Nov-17 |
| MS-1060f | T6f: TTA to shift FLH SB Middle Lane to the Permanent Alignment (3rd lane) (South Portion) | 1 | 1 | 03-Dec-17 | 03-Dec-17 |
| MS-1060h | T6h: TTA to shift FLH SB Slow Lane to the Permanent Alignment (2nd lane) (South Portion) | 1 | 1 | 05-Jan-18 | 05-Jan-18 |
| MS-1070a | T7a: TTA to shift FLHS SB eastward (shift 3 lanes), within SBZ | 1 | 0 | 20-Apr-17 A | 20-Apr-17 A |
| MS-1070b | T7b: TTA to shift FLH SB Fast Lane to the Permanent Alignment (4th lane), within SBZ | 1 | 1 | 11-Aug-17 | 11-Aug-17 |
| MS-1070c | T7c: TTA to shift FLH SB Middle Lane to the Permanent Alignment (3rd lane), within SBZ | 1 | 1 | 16-Sep-17 | 16-Sep-17 |
| MS-1070d | T7d: TTA to shift FLH SB Slow Lane to the Permanent Alignment (2nd lane), within SBZ | 1 | 1 | 12-Nov-17 | 12-Nov-17 |
| MS-1080a | T8a: TTA to shift FLH NB Fast Lane to the Permanent Alignment (4th lane) (South Portion) | 1 | 0 | 24-Mar-17 A | 24-Mar-17 A |
| MS-1080b | T8b: TTA to shift FLH NB Middle Lane to the Permanent Alignment (3rd lane) (South Portion) | 1 | 1 | 16-May-17 | 16-May-17 |
| MS-1080c | T8c: TTA to shift FLH NB Slow Lane to the Permanent Alignment (2nd lane) (South Portion) | 1 | 1 | 11-Jun-17 | 11-Jun-17 |
| MS-1090a | T9a: TTA to shift FLHS NB westward (shift 3 lanes), within SBZ | 1 | 1 | 13-Aug-17 | 13-Aug-17 |
| MS-1090b | T9b: TTA to shift FLHS NB Fast Lane to the Permanent Alignment (4th lane), within SBZ | 1 | 1 | 10-Oct-17 | 10-Oct-17 |
| MS-1090c | T9c: TTA to shift FLHS NB Middle Lane to the Permanent Alignment (3rd lane), within SBZ | 1 | 1 | 10-Nov-17 | 10-Nov-17 |
| MS-1090d | T9d: TTA to shift FLHS NB Slow Lane to the Permanent Alignment (2nd lane), within SBZ | 1 | 1 | 10-Dec-17 | 10-Dec-17 |
| MS-1110a | T11a: TTA to shift FLHN NB Slow Lane to the Permanent Alignment (1st lane), within NBZ | 1 | 1 | 08-Mar-18 | 08-Mar-18 |
| MS-1110b | T11b: TTA to shift FLHN NB Middle Lane to the Permanent Alignment (2nd lane), within NBZ | 1 | 1 | 22-Apr-18 | 22-Apr-18 |
| MS-1110c | T11c: TTA to shift FLHN NB Fast Lane to the Permanent Alignment (3rd lane), within NBZ | 1 | 1 | 05-Jun-18 | 05-Jun-18 |
| MS-1120a | T12a: TTA to shift FLHN SB Fast Lane to the Permanent Alignment (4th lane), witin NBZ | 1 | 1 | 30-Sep-17 | 30-Sep-17 |
| MS-1120b | T12b: TTA to shift FLHN SB Middle Lane to the Permanent Alignment (3rd lane), witin NBZ | 1 | 1 | 21-Nov-17 | 21-Nov-17 |
| MS-1120c | T12c: TTA to shift FLHN SB Slow Lane to the Permanent Alignment (2nd lane), witin NBZ | 1 | 1 | 11-Jan-18 | 11-Jan-18 |

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- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

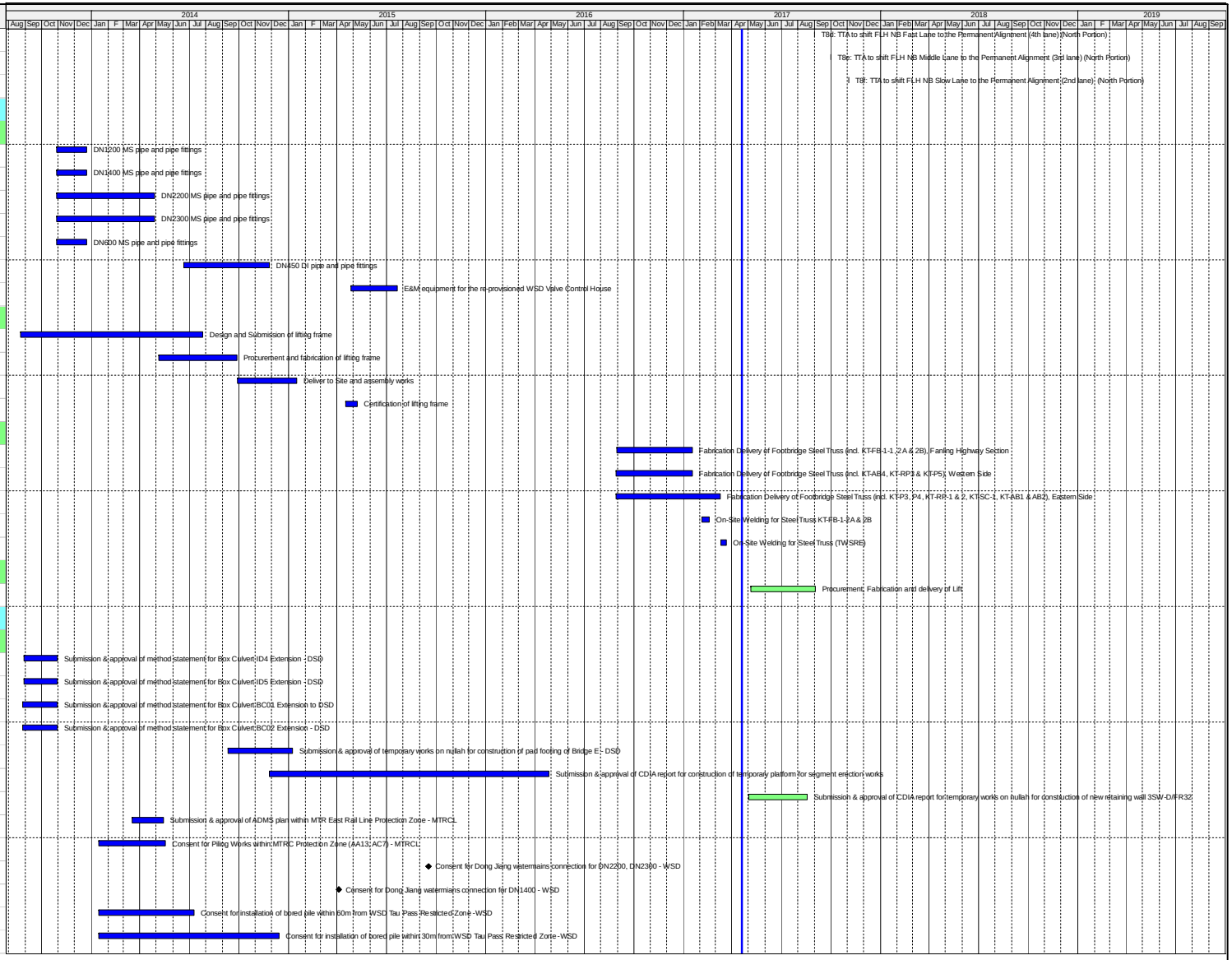
## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| MS-1180d | T8d: TTA to shift FLH NB Fast Lane to the Permanent Alignment (4th lane) (North Portion) | 1 | 1 | 01-Sep-17 | 01-Sep-17 |
| MS-1180e | T8e: TTA to shift FLH NB Middle Lane to the Permanent Alignment (3rd lane) (North Portion) | 1 | 1 | 01-Oct-17 | 01-Oct-17 |
| MS-1180f | T8f: TTA to shift FLH NB Slow Lane to the Permanent Alignment (2nd lane) (North Portion) | 1 | 1 | 03-Nov-17 | 03-Nov-17 |
| ***Major Procurement & Delivery*** | | 1108 | 101 | 23-Aug-13 A | 02-Sep-17 |
| ***Water Supply Pipeworks*** | | 493 | 0 | 29-Oct-13 A | 21-Jul-15 A |
| MM-1000 | DN1200 MS pipe and pipe fittings | 80 | 0 | 29-Oct-13 A | 23-Dec-13 A |
| MM-1010 | DN1400 MS pipe and pipe fittings | 80 | 0 | 29-Oct-13 A | 23-Dec-13 A |
| MM-1020 | DN2200 MS pipe and pipe fittings | 90 | 0 | 29-Oct-13 A | 28-Apr-14 A |
| MM-1030 | DN2300 MS pipe and pipe fittings | 90 | 0 | 29-Oct-13 A | 28-Apr-14 A |
| MM-1040 | DN600 MS pipe and pipe fittings | 80 | 0 | 29-Oct-13 A | 23-Dec-13 A |
| MM-1050 | DN450 DI pipe and pipe fittings | 60 | 0 | 21-Jun-14 A | 26-Nov-14 A |
| MM-1060 | E&M equipment for the re-provisioned WSD Valve Control House | 60 | 0 | 27-Apr-15 A | 21-Jul-15 A |
| ***Precast Bridge Segment Lifting Frames and Precast Yard*** | | 520 | 0 | 23-Aug-13 A | 08-May-15 A |
| MM-2000 | Design and Submission of lifting frame | 160 | 0 | 23-Aug-13 A | 26-Jul-14 A |
| MM-2020 | Procurement and fabrication of lifting frame | 105 | 0 | 05-May-14 A | 27-Sep-14 A |
| MM-2040 | Deliver to Site and assembly works | 44 | 0 | 28-Sep-14 A | 16-Jan-15 A |
| MM-2050 | Certification of lifting frame | 12 | 0 | 17-Apr-15 A | 08-May-15 A |
| ***Footbridge Steel Truss*** | | 183 | 0 | 30-Aug-16 A | 22-Mar-17 A |
| MM-3000 | Fabrication Delivery of Footbridge Steel Truss (incl. KT-FB-1-1, 2A & 2B), Fanling Highway Section | 73 | 0 | 30-Aug-16 A | 17-Jan-17 A |
| MM-3010 | Fabrication Delivery of Footbridge Steel Truss (incl. KT-AB4, KT-RP3 & KT-P5), Western Side | 88 | 0 | 30-Aug-16 A | 17-Jan-17 A |
| MM-3020 | Fabrication Delivery of Footbridge Steel Truss (incl. KT-P3, P4, KT-RP-1 & 2, KT-SC-1, KT-AB1 & AB2), Eastern Side | 92 | 0 | 30-Aug-16 A | 10-Mar-17 A |
| MM-3030 | On-Site Welding for Steel Truss KT-FB-1-2A & 2B | 14 | 0 | 04-Feb-17 A | 18-Feb-17 A |
| MM-3040 | On-Site Welding for Steel Truss (TWSRE) | 20 | 0 | 11-Mar-17 A | 22-Mar-17 A |
| ***Lift for New Kiu Tau Footbridge*** | | 120 | 120 | 06-May-17 | 02-Sep-17 |
| MM-4000 | Procurement, Fabrication and delivery of Lift | 120 | 120 | 06-May-17 | 02-Sep-17 |
| ***Design and Submissions*** | | 1188 | 99 | 06-Aug-13 A | 17-Aug-17 |
| ***Statutory Approval*** | | 1176 | 99 | 27-Aug-13 A | 17-Aug-17 |
| PRE-1000 | Submission & approval of method statement for Box Culvert ID4 Extension - DSD | 50 | 0 | 29-Aug-13 A | 30-Oct-13 A |
| PRE-1010 | Submission & approval of method statement for Box Culvert ID5 Extension - DSD | 50 | 0 | 29-Aug-13 A | 30-Oct-13 A |
| PRE-1020 | Submission & approval of method statement for Box Culvert BC01 Extension to DSD | 50 | 0 | 27-Aug-13 A | 30-Oct-13 A |
| PRE-1030 | Submission & approval of method statement for Box Culvert BC02 Extension - DSD | 50 | 0 | 27-Aug-13 A | 30-Oct-13 A |
| PRE-1040 | Submission & approval of temporary works on nullah for construction of pad footing of Bridge E - DSD | 40 | 0 | 11-Sep-14 A | 08-Jan-15 A |
| PRE-1050 | Submission & approval of CDIA report for construction of temporary platform for segment erection works | 185 | 0 | 27-Nov-14 A | 26-Apr-16 A |
| PRE-1060 | Submission & approval of CDIA report for temporary works on nullah for construction of new retaining wall 3SW-D/FR32 | 90 | 90 | 02-May-17* | 17-Aug-17 |
| PRE-1100 | Submission & approval of ADMS plan within MTR East Rail Line Protection Zone - MTRCL | 30 | 0 | 17-Mar-14 A | 14-May-14 A |
| PRE-1110 | Consent for Piling Works within MTRC Protection Zone (AA13, AC7) - MTRCL | 45 | 0 | 15-Jan-14 A | 17-May-14 A |
| PRE-1200 | Consent for Dong Jiang watermains connection for DN2200, DN2300 - WSD | 0 | 0 | | 17-Sep-15 A |
| PRE-1210 | Consent for Dong Jiang watermains connection for DN1400 - WSD | 0 | 0 | | 03-Apr-15 A |
| PRE-1230A | Consent for installation of bored pile within 60m from WSD Tau Pass Restricted Zone -WSD | 90 | 0 | 15-Jan-14 A | 09-Jul-14 A |
| PRE-1230B | Consent for installation of bored pile within 30m from WSD Tau Pass Restricted Zone -WSD | 90 | 0 | 15-Jan-14 A | 14-Dec-14 A |

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- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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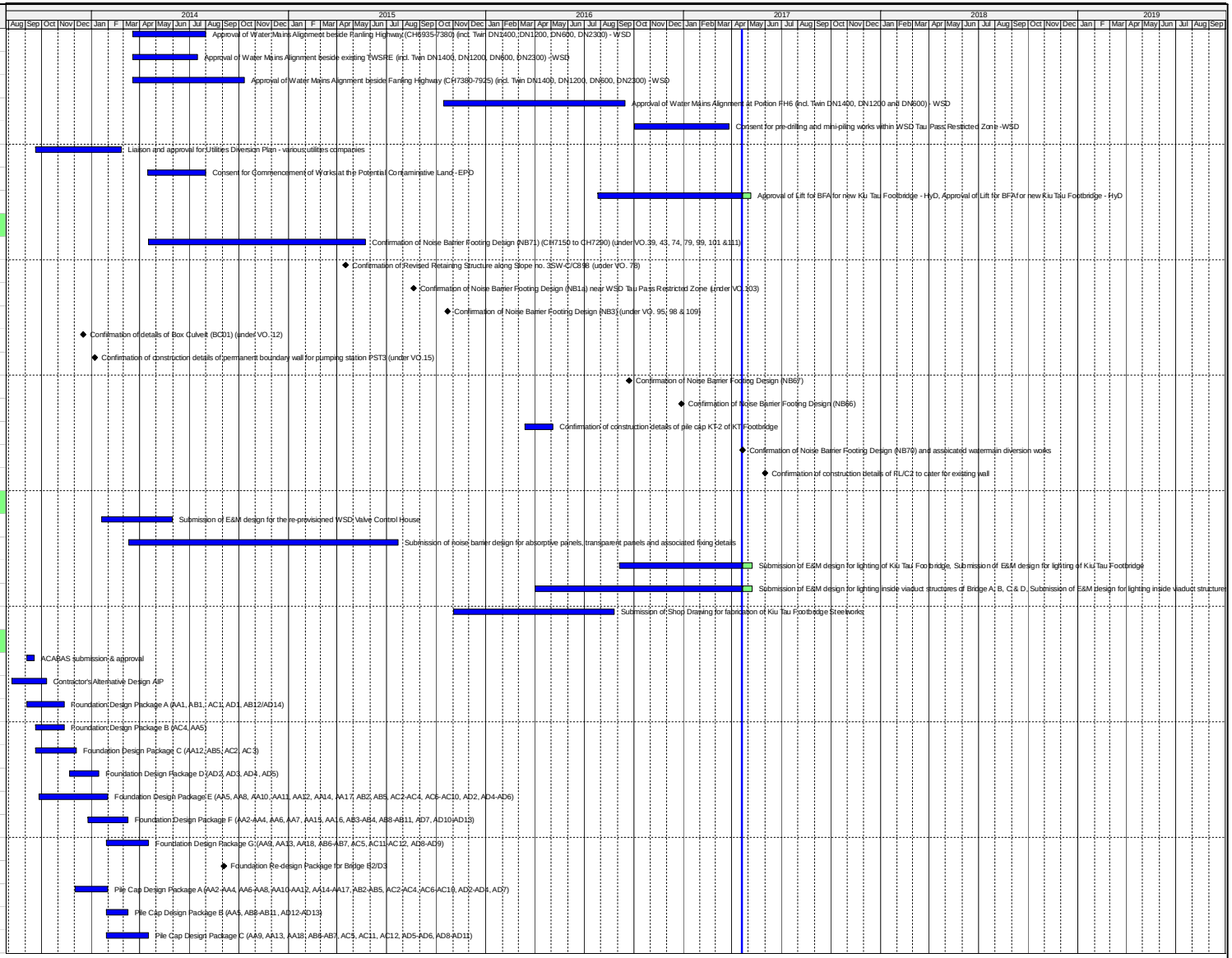
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| PRE-1240 | Approval of Water Mains Alignment beside Fanling Highway (CH6935-7380) (incl. Twin DN1400, DN1200, DN600, DN2300) - WSD | 45 | 0 | 19-Mar-14 A | 31-Jul-14 A |
| PRE-1250 | Approval of Water Mains Alignment beside existing TWSRE (incl. Twin DN1400, DN1200, DN600, DN2300) - WSD | 45 | 0 | 19-Mar-14 A | 16-Jul-14 A |
| PRE-1260 | Approval of Water Mains Alignment beside Fanling Highway (CH7380-7925) (incl. Twin DN1400, DN1200, DN600, DN2300) - WSD | 45 | 0 | 19-Mar-14 A | 11-Oct-14 A |
| PRE-1270 | Approval of Water Mains Alignment at Portion FH6 (incl. Twin DN1400, DN1200 and DN600) - WSD | 90 | 0 | 15-Oct-15 A | 14-Sep-16 A |
| PRE-1280 | Consent for pre-drilling and mini-piling works within WSD Tau Pass Restricted Zone -WSD | 60 | 0 | 03-Oct-16 A | 27-Mar-17 A |
| PRE-1300 | Liaison and approval for Utilities Diversion Plan - various utilities companies | 150 | 0 | 19-Sep-13 A | 25-Feb-14 A |
| PRE-1400 | Consent for Commencement of Works at the Potential Contaminative Land - EPD | 60 | 0 | 15-Apr-14 A | 31-Jul-14 A |
| PRE-1410 | Approval of Lift for BFA for new Kiu Tau Footbridge - HyD | 60 | 12 | 27-Jul-16 A | 05-May-17 |
| ***Design Confirmation*** | | 903 | 33 | 16-Dec-13 A | 31-May-17 |
| PRE-1500 | Confirmation of Noise Barrier Footing Design (NB71) (CH7150 to CH7290) (under VO.39, 43, 74, 79, 99, 101 &111) | 70 | 0 | 17-Apr-14 A | 22-May-15 A |
| PRE-1510 | Confirmation of Revised Retaining Structure along Slope no. 3SW-C/C898 (under VO. 78) | 0 | 0 | | 16-Apr-15 A |
| PRE-1520 | Confirmation of Noise Barrier Footing Design (NB1a) near WSD Tau Pass Restricted Zone (under VO.103) | 0 | 0 | | 20-Aug-15 A |
| PRE-1530 | Confirmation of Noise Barrier Footing Design (NB3) (under VO. 95, 98 & 109) | 0 | 0 | | 22-Oct-15 A |
| PRE-1540 | Confirmation of details of Box Culvert (BC01) (under VO. 12) | 0 | 0 | | 16-Dec-13 A |
| PRE-1550 | Confirmation of construction details of permanent boundary wall for pumping station PST3 (under VO.15) | 0 | 0 | | 07-Jan-14 A |
| PRE-1560 | Confirmation of Noise Barrier Footing Design (NB67) | 0 | 0 | | 23-Sep-16 A |
| PRE-1570 | Confirmation of Noise Barrier Footing Design (NB66) | 0 | 0 | | 29-Dec-16 A |
| PRE-1580 | Confirmation of construction details of pile cap KT-2 of KT Footbridge | 34 | 0 | 14-Mar-16 A | 04-May-16 A |
| PRE-1590 | Confirmation of Noise Barrier Footing Design (NB70) and associated watermain diversion works | 0 | 0 | | 20-Apr-17* |
| PRE-1600 | Confirmation of construction details of FL/C2 to cater for existing wall | 0 | 0 | | 31-May-17* |
| ***Method Statement and Design (Major) Approved by AECOM*** | | 822 | 14 | 20-Jan-14 A | 08-May-17 |
| PRE-2000 | Submission of E&M design for the re-provisioned WSD Valve Control House | 60 | 0 | 20-Jan-14 A | 30-May-14 A |
| PRE-2020 | Submission of noise barrier design for absorptive panels, transparent panels and associated fixing details | 60 | 0 | 11-Mar-14 A | 22-Jul-15 A |
| PRE-2030 | Submission of E&M design for lighting of Kiu Tau Footbridge | 60 | 14 | 05-Sep-16 A | 08-May-17 |
| PRE-2040 | Submission of E&M design for lighting inside viaduct structures of Bridge A, B, C & D | 60 | 14 | 01-Apr-16 A | 08-May-17 |
| PRE-2050 | Submission of Shop Drawing for fabrication of Kiu Tau Footbridge Steelworks | 60 | 0 | 02-Nov-15 A | 25-Aug-16 A |
| ***Contractor's Alternative Design (AD) Submission & Approval*** | | 687 | 0 | 06-Aug-13 A | 04-Mar-15 A |
| PRE-4000 | ACABAS submission & approval | 50 | 0 | 03-Sep-13 A | 17-Sep-13 A |
| PRE-4010 | Contractor's Alternative Design AIP | 56 | 0 | 06-Aug-13 A | 09-Oct-13 A |
| PRE-4110 | Foundation Design Package A (AA1, AB1, AC1, AD1, AB12/AD14) | 36 | 0 | 03-Sep-13 A | 11-Nov-13 A |
| PRE-4120 | Foundation Design Package B (AC4, AA5) | 36 | 0 | 19-Sep-13 A | 11-Nov-13 A |
| PRE-4130 | Foundation Design Package C (AA12, AB5, AC2, AC3) | 36 | 0 | 19-Sep-13 A | 04-Dec-13 A |
| PRE-4140 | Foundation Design Package D (AD2, AD3, AD4, AD5) | 36 | 0 | 21-Nov-13 A | 14-Jan-14 A |
| PRE-4150 | Foundation Design Package E (AA5, AA8, AA10, AA11, AA12, AA14, AA17, AB2, AB5, AC2-AC4, AC6-AC10, AD2, AD4-AD6) | 48 | 0 | 26-Sep-13 A | 30-Jan-14 A |
| PRE-4160 | Foundation Design Package F (AA2-AA4, AA6, AA7, AA15, AA16, AB3-AB4, AB8-AB11, AD7, AD10-AD13) | 48 | 0 | 25-Dec-13 A | 10-Mar-14 A |
| PRE-4170 | Foundation Design Package G (AA9, AA13, AA18, AB6-AB7, AC5, AC11-AC12, AD8-AD9) | 48 | 0 | 28-Jan-14 A | 16-Apr-14 A |
| PRE-4170A | Foundation Re-design Package for Bridge B2/D3 | 0 | 0 | | 03-Sep-14 A |
| PRE-4180 | Pile Cap Design Package A (AA2-AA4, AA6-AA8, AA10-AA12, AA14-AA17, AB2-AB5, AC2-AC4, AC6-AC10, AD2-AD4, AD7) | 48 | 0 | 02-Dec-13 A | 30-Jan-14 A |
| PRE-4190A | Pile Cap Design Package B (AA5, AB8-AB11, AD12-AD13) | 48 | 0 | 28-Jan-14 A | 10-Mar-14 A |
| PRE-4190B | Pile Cap Design Package C (AA9, AA13, AA18, AB6-AB7, AC5, AC11, AC12, AD5-AD6, AD8-AD11) | 48 | 0 | 28-Jan-14 A | 16-Apr-14 A |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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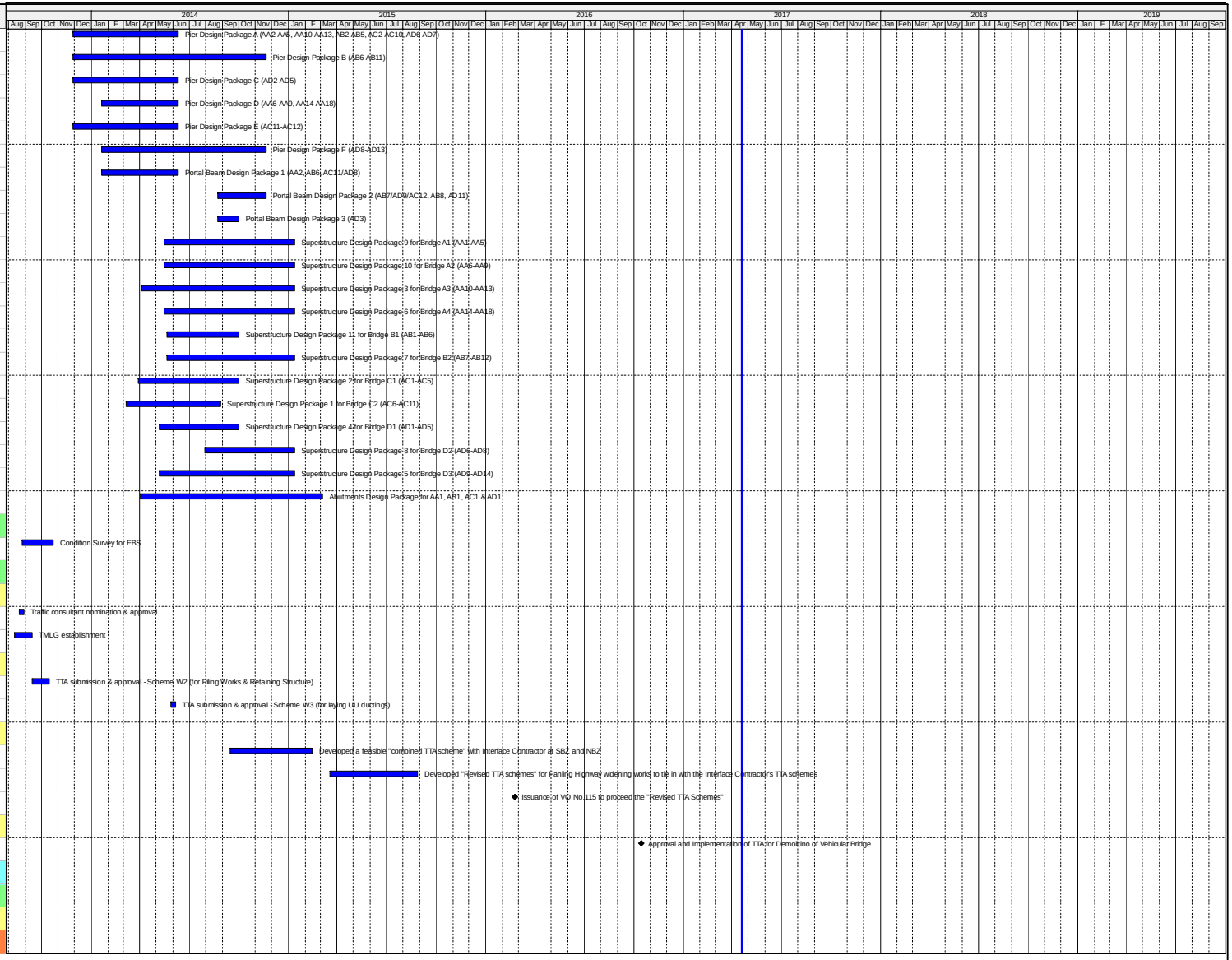
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| PRE-4210 | Pier Design Package A (AA2-AA5, AA10-AA13, AB2-AB5, AC2-AC10, AD6-AD7) | 46 | 0 | 28-Nov-13 A | 10-Jun-14 A |
| PRE-4220 | Pier Design Package B (AB6-AB11) | 43 | 0 | 28-Nov-13 A | 20-Nov-14 A |
| PRE-4230 | Pier Design Package C (AD2-AD5) | 31 | 0 | 28-Nov-13 A | 11-Jun-14 A |
| PRE-4240 | Pier Design Package D (AA6-AA9, AA14-AA18) | 46 | 0 | 20-Jan-14 A | 10-Jun-14 A |
| PRE-4250 | Pier Design Package E (AC11-AC12) | 50 | 0 | 28-Nov-13 A | 11-Jun-14 A |
| PRE-4260 | Pier Design Package F (AD8-AD13) | 50 | 0 | 20-Jan-14 A | 20-Nov-14 A |
| PRE-4270 | Portal Beam Design Package 1 (AA2, AB6, AC11/AD8) | 54 | 0 | 20-Jan-14 A | 11-Jun-14 A |
| PRE-4280 | Portal Beam Design Package 2 (AB7/AD9/AC12, AB8, AD11) | 38 | 0 | 23-Aug-14 A | 20-Nov-14 A |
| PRE-4290 | Portal Beam Design Package 3 (AD3) | 31 | 0 | 23-Aug-14 A | 30-Sep-14 A |
| PRE-4310A | Superstructure Design Package 9 for Bridge A1 (AA1-AA5) | 118 | 0 | 16-May-14 A | 12-Jan-15 A |
| PRE-4310B | Superstructure Design Package 10 for Bridge A2 (AA6-AA9) | 154 | 0 | 16-May-14 A | 12-Jan-15 A |
| PRE-4310C | Superstructure Design Package 3 for Bridge A3 (AA10-AA13) | 158 | 0 | 04-Apr-14 A | 12-Jan-15 A |
| PRE-4310D | Superstructure Design Package 6 for Bridge A4 (AA14-AA18) | 108 | 0 | 16-May-14 A | 12-Jan-15 A |
| PRE-4320A | Superstructure Design Package 11 for Bridge B1 (AB1-AB6) | 73 | 0 | 21-May-14 A | 30-Sep-14 A |
| PRE-4320B | Superstructure Design Package 7 for Bridge B2 (AB7-AB12) | 196 | 0 | 21-May-14 A | 12-Jan-15 A |
| PRE-4330A | Superstructure Design Package 2 for Bridge C1 (AC1-AC5) | 196 | 0 | 28-Mar-14 A | 30-Sep-14 A |
| PRE-4330B | Superstructure Design Package 1 for Bridge C2 (AC6-AC11) | 134 | 0 | 06-Mar-14 A | 27-Aug-14 A |
| PRE-4340A | Superstructure Design Package 4 for Bridge D1 (AD1-AD5) | 110 | 0 | 07-May-14 A | 30-Sep-14 A |
| PRE-4340B | Superstructure Design Package 8 for Bridge D2 (AD6-AD8) | 56 | 0 | 30-Jul-14 A | 12-Jan-15 A |
| PRE-4340C | Superstructure Design Package 5 for Bridge D3 (AD9-AD14) | 196 | 0 | 07-May-14 A | 12-Jan-15 A |
| PRE-4400 | Abutments Design Package for AA1, AB1, AC1 & AD1 | 220 | 0 | 01-Apr-14 A | 04-Mar-15 A |
| ***Condition Survey*** | | 18 | 0 | 26-Aug-13 A | 22-Oct-13 A |
| PRE-5000 | Condition Survey for EBS | 18 | 0 | 26-Aug-13 A | 22-Oct-13 A |
| ***Temporary Traffic Arrangement (TTA) Submission and Approval*** | | 947 | 0 | 12-Aug-13 A | 15-Oct-16 A |
| ***Forming of TMLG*** | | 50 | 0 | 12-Aug-13 A | 13-Sep-13 A |
| PRE-6000 | Traffic consultant nomination & approval | 25 | 0 | 20-Aug-13 A | 29-Aug-13 A |
| PRE-6020 | TMLG establishment | 50 | 0 | 12-Aug-13 A | 13-Sep-13 A |
| ***TTA for Tai Wo Service Road West*** | | 302 | 0 | 13-Sep-13 A | 06-Jun-14 A |
| PRE-6110 | TTA submission & approval - Scheme W2 (for Piling Works & Retaining Structure) | 40 | 0 | 13-Sep-13 A | 15-Oct-13 A |
| PRE-6140 | TTA submission & approval - Scheme W3 (for laying UU ductings) | 40 | 0 | 28-May-14 A | 06-Jun-14 A |
| ***Revised TTA Scheme for Fanling Highway Widening Works*** | | 5 | 0 | 15-Sep-14 A | 23-Feb-16 A |
| PRE-6300 | Developed a feasible "combined TTA scheme" with Interface Contractor at SBZ and NBZ | 0 | 0 | 15-Sep-14 A | 13-Feb-15 A |
| PRE-6310 | Developed "Revised TTA schemes" for Fanling Highway widening works to tie in with the Interface Contractor's TTA schemes | 5 | 0 | 19-Mar-15 A | 28-Aug-15 A |
| PRE-6320 | Issuance of VO No.115 to proceed the "Revised TTA Schemes" | 0 | 0 | | 23-Feb-16 A |
| ***TTA for Demolition of Kiu Tau Vehicular Bridge*** | | 0 | 0 | 15-Oct-16 A | 15-Oct-16 A |
| PRE-6400 | Approval and Implementation of TTA for Demolitino of Vehicular Bridge | 0 | 0 | | 15-Oct-16 A |
| ***Section IA & IB - Fanling Highway Widening (KD-1 & KD-2)*** | | 1421 | 406 | 12-Aug-13 A | 03-Sep-18 |
| ***Fanling Highway South Portion between CH6935 and CH7470*** | | 1254 | 239 | 12-Aug-13 A | 03-Feb-18 |
| ***Fanling Highway Zone 1 between CH6935 and CH7130 (within SBZ2)*** | | 1254 | 239 | 12-Aug-13 A | 03-Feb-18 |
| ***At-Grade Roadworks (195m)*** | | 1254 | 239 | 12-Aug-13 A | 03-Feb-18 |




Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
Milestone
Actual Level of Effort

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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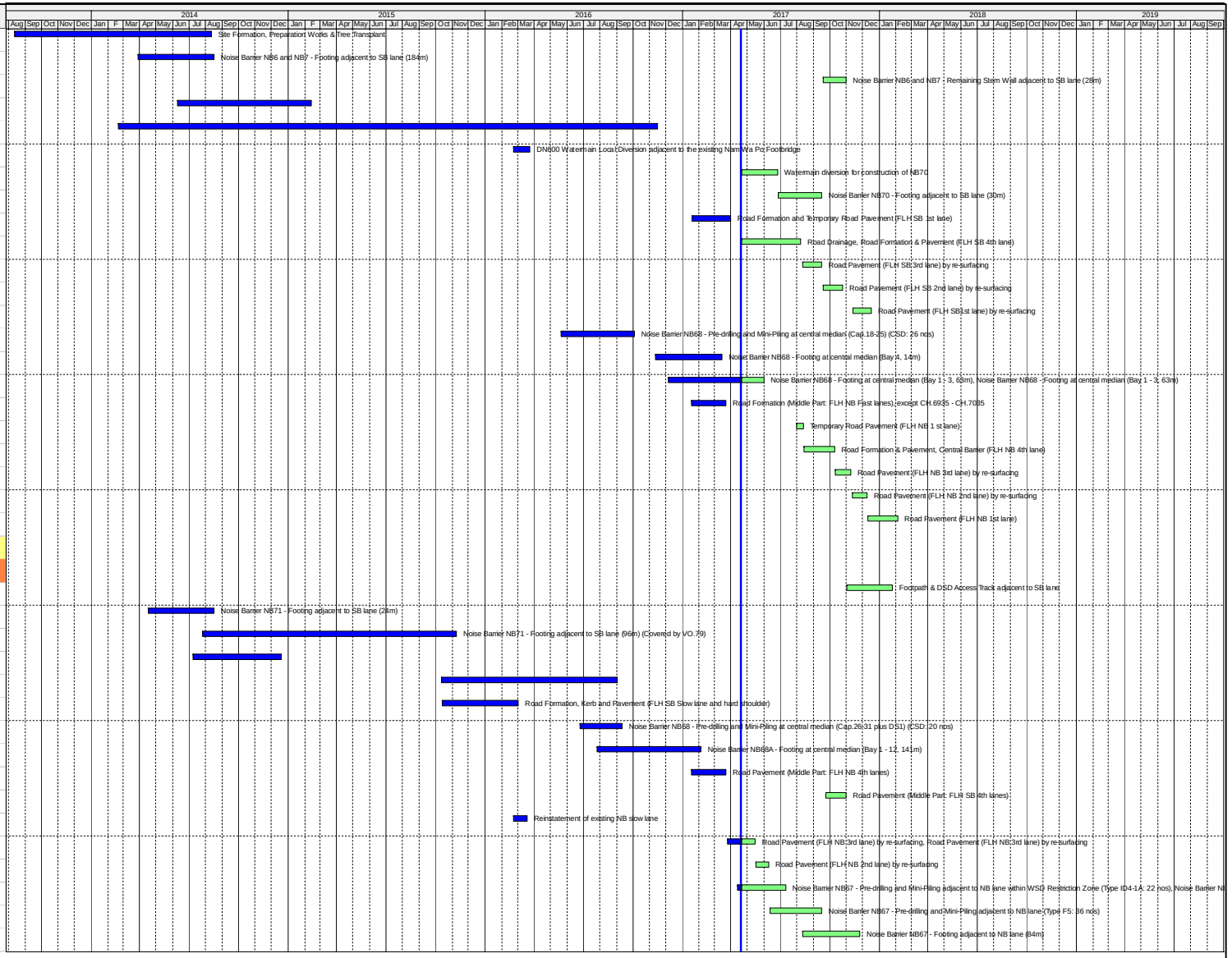
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| FHW-1100 | Site Formation, Preparation Works & Tree Transplant | 65 | 0 | 12-Aug-13 A | 11-Aug-14 A |
| FHW-1110A | Noise Barrier NB6 and NB7 - Footing adjacent to SB lane (184m) | 280 | 0 | 29-Mar-14 A | 16-Aug-14 A |
| FHW-1110B | Noise Barrier NB6 and NB7 - Remaining Stem Wall adjacent to SB lane (28m) | 35 | 35 | 18-Sep-17 | 31-Oct-17 |
| FHW-1120A* | Pipe Laying - DN1200 Watermains (CHC) across Fanling Highway (total 80m for 2 shafts) | 275 | 0 | 09-Jun-14 A | 12-Feb-15 A |
| FHW-1120B* | Pipe Laying - DN1200 Watermains (CHC) along Fanling Highway (80m long, 4m depth) | 182 | 0 | 20-Feb-14 A | 16-Nov-16 A |
| FHW-1130 | DN600 Watermain Local Diversion adjacent to the existing Nam Wa Po Footbridge | 40 | 0 | 22-Feb-16 A | 23-Mar-16 A |
| FHW-1140a | Watermain diversion for construction of NB70 | 55 | 55 | 20-Apr-17 | 26-Jun-17 |
| FHW-1140b | Noise Barrier NB70 - Footing adjacent to SB lane (30m) | 70 | 70 | 27-Jun-17 | 16-Sep-17 |
| FHW-1150 | Road Formation and Temporary Road Pavement (FLH SB 1st lane) | 48 | 0 | 19-Jan-17 A | 01-Apr-17 A |
| FHW-1160 | Road Drainage, Road Formation & Pavement (FLH SB 4th lane) | 90 | 90 | 20-Apr-17 | 07-Aug-17 |
| FHW-1170 | Road Pavement (FLH SB 3rd lane) by re-surfacing | 30 | 30 | 12-Aug-17 | 15-Sep-17 |
| FHW-1180 | Road Pavement (FLH SB 2nd lane) by re-surfacing | 30 | 30 | 18-Sep-17 | 24-Oct-17 |
| FHW-1190 | Road Pavement (FLH SB1st lane) by re-surfacing | 30 | 30 | 13-Nov-17 | 16-Dec-17 |
| FHW-1210 | Noise Barrier NB68 - Pre-drilling and Mini-Piling at central median (Cap.18-25) (CSD: 26 nos) | 80 | 0 | 21-May-16 A | 04-Oct-16 A |
| FHW-1220a | Noise Barrier NB68 - Footing at central median (Bay 4, 14m) | 63 | 0 | 11-Nov-16 A | 15-Mar-17 A |
| FHW-1220b | Noise Barrier NB68 - Footing at central median (Bay 1 - 3, 63m) | 68 | 33 | 05-Dec-16 A | 31-May-17 |
| FHW-1230 | Road Formation (Middle Part: FLH NB Fast lanes), except CH.6935 - CH.7035 | 50 | 0 | 17-Jan-17 A | 23-Mar-17 A |
| FHW-1310 | Temporary Road Pavement (FLH NB 1 st lane) | 12 | 12 | 31-Jul-17 | 12-Aug-17 |
| FHW-1320 | Road Formation & Pavement, Central Barrier (FLH NB 4th lane) | 47 | 47 | 14-Aug-17 | 09-Oct-17 |
| FHW-1330 | Road Pavement (FLH NB 3rd lane) by re-surfacing | 25 | 25 | 11-Oct-17 | 09-Nov-17 |
| FHW-1340 | Road Pavement (FLH NB 2nd lane) by re-surfacing | 25 | 25 | 11-Nov-17 | 09-Dec-17 |
| FHW-1350 | Road Pavement (FLH NB 1st lane) | 45 | 45 | 11-Dec-17 | 03-Feb-18 |
| ***Fanling Highway Zone 2 between CH7130 and CH7290*** | | 1115 | 237 | 17-Apr-14 A | 01-Feb-18 |
| ***At-Grade Roadworks (160m)*** | | 1115 | 237 | 17-Apr-14 A | 01-Feb-18 |
| FHW-200 | Footpath & DSD Access Track adjacent to SB lane | 70 | 70 | 01-Nov-17 | 24-Jan-18 |
| FHW-2110A | Noise Barrier NB71 - Footing adjacent to SB lane (24m) | 70 | 0 | 17-Apr-14 A | 16-Aug-14 A |
| FHW-2110B | Noise Barrier NB71 - Footing adjacent to SB lane (96m) (Covered by VO.79) | 341 | 0 | 26-Jul-14 A | 09-Nov-15 A |
| FHW-2120* | Pipe Laying - Twin DN1400 Watermains (CHE & G) along Fanling Highway (44m long, 6m depth) | 85 | 0 | 09-Jul-14 A | 19-Dec-14 A |
| FHW-2130* | Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) abng Fanling Highway (183m long, 4m depth) | 144 | 0 | 12-Oct-15 A | 02-Sep-16 A |
| FHW-2140 | Road Formation, Kerb and Pavement (FLH SB Slow lane and hard shoulder) | 61 | 0 | 14-Oct-15 A | 02-Mar-16 A |
| FHW-2210 | Noise Barrier NB68 - Pre-drilling and Mini-Piling at central median (Cap.26-31 plus DS1) (CSD: 20 nos) | 80 | 0 | 25-Jun-16 A | 10-Sep-16 A |
| FHW-2220 | Noise Barrier NB68A - Footing at central median (Bay 1 - 12, 141m) | 70 | 0 | 27-Jul-16 A | 04-Feb-17 A |
| FHW-2230 | Road Pavement (Middle Part: FLH NB 4th lanes) | 50 | 0 | 17-Jan-17 A | 23-Mar-17 A |
| FHW-2240 | Road Pavement (Middle Part: FLH SB 4th lanes) | 30 | 30 | 23-Sep-17 | 31-Oct-17 |
| FHW-2300 | Reinstatement of existing NB slow lane | 23 | 0 | 22-Feb-16 A | 19-Mar-16 A |
| FHW-2310 | Road Pavement (FLH NB 3rd lane) by re-surfacing | 32 | 20 | 25-Mar-17 A | 15-May-17 |
| FHW-2320 | Road Pavement (FLH NB 2nd lane) by re-surfacing | 21 | 21 | 17-May-17 | 10-Jun-17 |
| FHW-2330A | Noise Barrier NB67 - Pre-drilling and Mini-Piling adjacent to NB lane within WSD Restriction Zone (Type ID4-1A: 22 nos) | 70 | 67 | 13-Apr-17 A | 11-Jul-17 |
| FHW-2330B | Noise Barrier NB67 - Pre-drilling and Mini-Piling adjacent to NB lane (Type F5: 36 nos) | 82 | 82 | 12-Jun-17 | 15-Sep-17 |
| FHW-2340 | Noise Barrier NB67 - Footing adjacent to NB lane (84m) | 88 | 88 | 12-Aug-17 | 25-Nov-17 |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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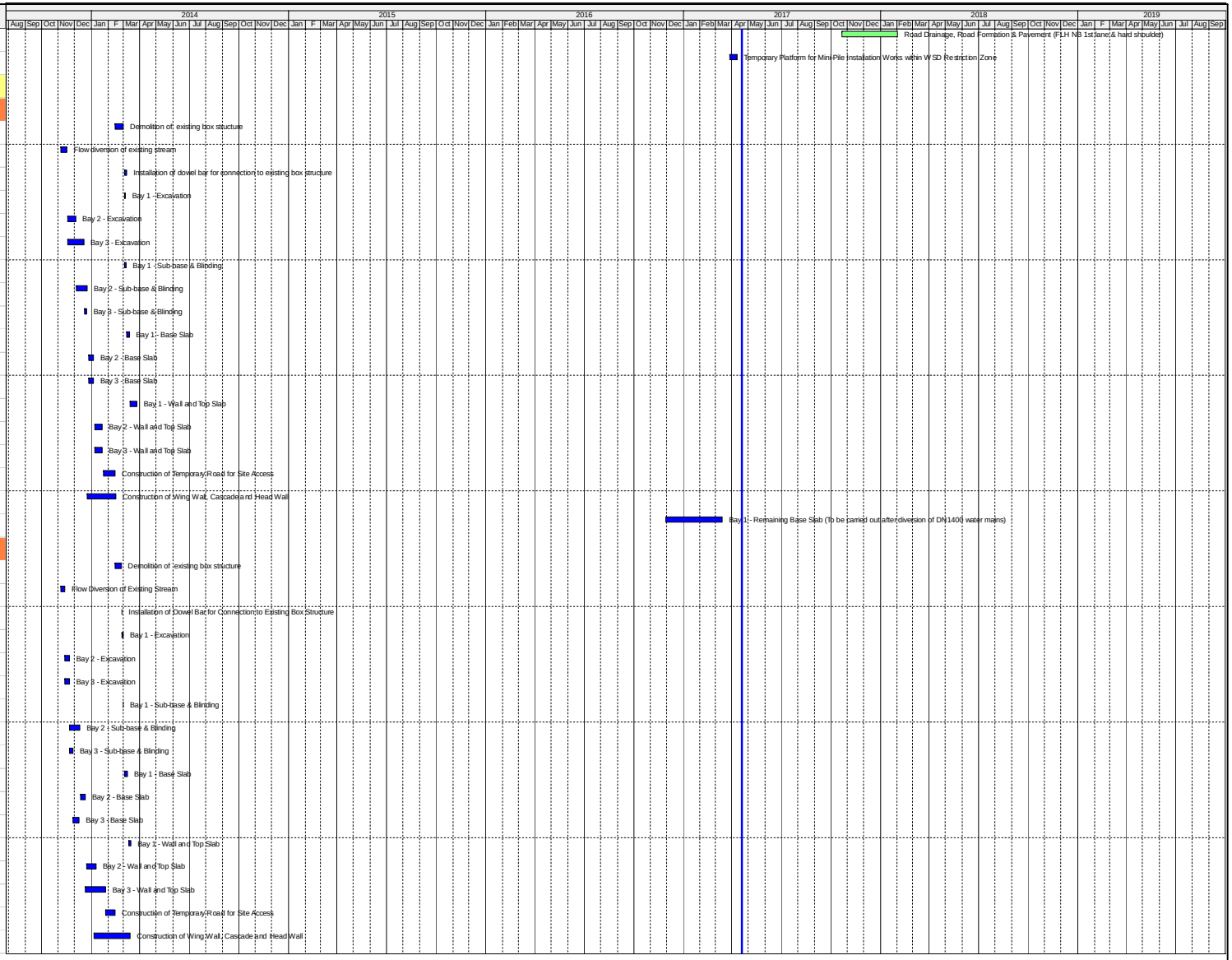
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| FHW-2350 | Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) | 85 | 85 | 21-Oct-17 | 01-Feb-18 |
| FHW-2360 | Temporary Platform for Mini-Pile Installation Works within WSD Restriction Zone | 12 | 0 | 28-Mar-17 A | 11-Apr-17 A |
| ***Fanling Highway Zone 3 between CH7290 and CH7380*** | | 1232 | 237 | 05-Nov-13 A | 01-Feb-18 |
| ***Box Culvert Extension - ID4*** | | 1172 | 0 | 05-Nov-13 A | 14-Mar-17 A |
| ID4-3000 | Demolition of existing box structure | 7 | 0 | 14-Feb-14 A | 01-Mar-14 A |
| ID4-3010 | Flow diversion of existing stream | 4 | 0 | 05-Nov-13 A | 16-Nov-13 A |
| ID4-3020 | Installation of dowel bar for connection to existing box structure | 4 | 0 | 03-Mar-14 A | 07-Mar-14 A |
| ID4-3030A | Bay 1 - Excavation | 4 | 0 | 03-Mar-14 A | 04-Mar-14 A |
| ID4-3030B | Bay 2 - Excavation | 4 | 0 | 18-Nov-13 A | 03-Dec-13 A |
| ID4-3030C | Bay 3 - Excavation | 4 | 0 | 18-Nov-13 A | 18-Dec-13 A |
| ID4-3040A | Bay 1 - Sub-base & Blinding | 3 | 0 | 04-Mar-14 A | 05-Mar-14 A |
| ID4-3040B | Bay 2 - Sub-base & Blinding | 3 | 0 | 04-Dec-13 A | 24-Dec-13 A |
| ID4-3040C | Bay 3 - Sub-base & Blinding | 3 | 0 | 19-Dec-13 A | 23-Dec-13 A |
| ID4-3050A | Bay 1 - Base Slab | 7 | 0 | 07-Mar-14 A | 12-Mar-14 A |
| ID4-3050B | Bay 2 - Base Slab | 7 | 0 | 27-Dec-13 A | 04-Jan-14 A |
| ID4-3050C | Bay 3 - Base Slab | 7 | 0 | 27-Dec-13 A | 04-Jan-14 A |
| ID4-3060A | Bay 1 - Wall and Top Slab | 13 | 0 | 13-Mar-14 A | 26-Mar-14 A |
| ID4-3060B | Bay 2 - Wall and Top Slab | 21 | 0 | 07-Jan-14 A | 21-Jan-14 A |
| ID4-3060C | Bay 3 - Wall and Top Slab | 21 | 0 | 07-Jan-14 A | 21-Jan-14 A |
| ID4-3070 | Construction of Temporary Road for Site Access | 12 | 0 | 24-Jan-14 A | 14-Feb-14 A |
| ID4-3080 | Construction of Wing Wall, Cascade and Head Wall | 35 | 0 | 24-Dec-13 A | 15-Feb-14 A |
| ID4-3090 | Bay 1 - Remaining Base Slab (To be carried out after diversion of DN1400 water mains) | 95 | 0 | 30-Nov-16 A | 14-Mar-17 A |
| ***Box Culvert Extension - ID5*** | | 288 | 0 | 05-Nov-13 A | 15-Mar-14 A |
| ID5-3000 | Demolition of existing box structure | 7 | 0 | 14-Feb-14 A | 25-Feb-14 A |
| ID5-3010 | Flow Diversion of Existing Stream | 4 | 0 | 05-Nov-13 A | 12-Nov-13 A |
| ID5-3020 | Installation of Dowel Bar for Connection to Existing Box Structure | 4 | 0 | 26-Feb-14 A | 26-Feb-14 A |
| ID5-3030A | Bay 1 - Excavation | 4 | 0 | 26-Feb-14 A | 28-Feb-14 A |
| ID5-3030B | Bay 2 - Excavation | 4 | 0 | 13-Nov-13 A | 21-Nov-13 A |
| ID5-3030C | Bay 3 - Excavation | 4 | 0 | 13-Nov-13 A | 21-Nov-13 A |
| ID5-3040A | Bay 1 - Sub-base & Blinding | 3 | 0 | 01-Mar-14 A | 01-Mar-14 A |
| ID5-3040B | Bay 2 - Sub-base & Blinding | 3 | 0 | 22-Nov-13 A | 10-Dec-13 A |
| ID5-3040C | Bay 3 - Sub-base & Blinding | 3 | 0 | 22-Nov-13 A | 27-Nov-13 A |
| ID5-3050A | Bay 1 - Base Slab | 7 | 0 | 03-Mar-14 A | 08-Mar-14 A |
| ID5-3050B | Bay 2 - Base Slab | 7 | 0 | 11-Dec-13 A | 20-Dec-13 A |
| ID5-3050C | Bay 3 - Base Slab | 7 | 0 | 28-Nov-13 A | 09-Dec-13 A |
| ID5-3060A | Bay 1 - Wall and Top Slab | 13 | 0 | 11-Mar-14 A | 15-Mar-14 A |
| ID5-3060B | Bay 2 - Wall and Top Slab | 21 | 0 | 23-Dec-13 A | 09-Jan-14 A |
| ID5-3060C | Bay 3 - Wall and Top Slab | 21 | 0 | 21-Dec-13 A | 27-Jan-14 A |
| ID5-3070 | Construction of Temporary Road for Site Access | 12 | 0 | 27-Jan-14 A | 14-Feb-14 A |
| ID5-3080 | Construction of Wing Wall, Cascade and Head Wall | 45 | 0 | 06-Jan-14 A | 13-Mar-14 A |

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- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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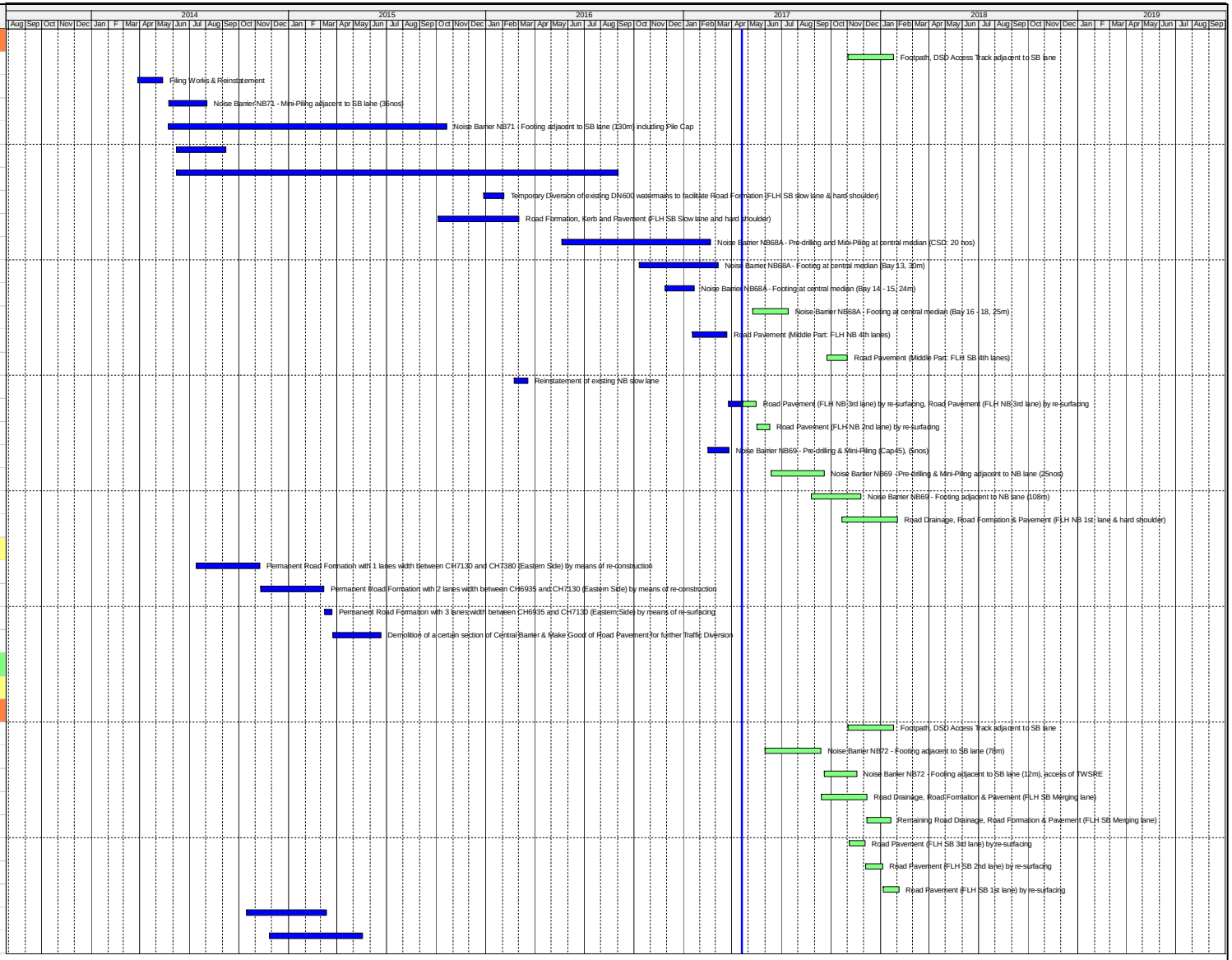
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| | ***At-Grade Roadworks (130m)*** | 1115 | 237 | 27-Mar-14 A | 01-Feb-18 |
| FHW-300 | Footpath, DSD Access Track adjacent to SB lane | 70 | 70 | 01-Nov-17 | 24-Jan-18 |
| FHW-3100 | Filing Works & Reinstatement | 30 | 0 | 27-Mar-14 A | 13-May-14 A |
| FHW-3120 | Noise Barrier NB71 - Mini-Piling adjacent to SB lane (36nos) | 40 | 0 | 24-May-14 A | 02-Aug-14 A |
| FHW-3130 | Noise Barrier NB71 - Footing adjacent to SB lane (130m) including Pile Cap | 324 | 0 | 23-May-14 A | 20-Oct-15 A |
| FHW-3140* | Pipe Laying - Twin DN1400 Watermains (CHE & F) along Fanling Highway (90m long, 3m depth) | 90 | 0 | 07-Jun-14 A | 06-Sep-14 A |
| FHW-3150* | Pipe Laying - DN600, DN1200 Watermains (CHB&CHC) along Fanling Highway (90m long, 3m depth) | 150 | 0 | 07-Jun-14 A | 02-Sep-16 A |
| FHW-3160 | Temporary Diversion of existing DN600 watermains to facilitate Road Formation (FLH SB slow lane & hard shoulder) | 12 | 0 | 28-Dec-15 A | 03-Feb-16 A |
| FHW-3170 | Road Formation, Kerb and Pavement (FLH SB Slow lane and hard shoulder) | 63 | 0 | 05-Oct-15 A | 02-Mar-16 A |
| FHW-3210 | Noise Barrier NB68A - Pre-drilling and Mini-Piling at central median (CSD: 20 nos) | 50 | 0 | 21-May-16 A | 21-Feb-17 A |
| FHW-3220A | Noise Barrier NB68A - Footing at central median (Bay 13, 30m) | 73 | 0 | 11-Oct-16 A | 06-Mar-17 A |
| FHW-3220B | Noise Barrier NB68A - Footing at central median (Bay 14 - 15, 24m) | 32 | 0 | 28-Nov-16 A | 21-Jan-17 A |
| FHW-3220C | Noise Barrier NB68A - Footing at central median (Bay 16 - 18, 25m) | 55 | 55 | 09-May-17 | 13-Jul-17 |
| FHW-3230 | Road Pavement (Middle Part: FLH NB 4th lanes) | 55 | 0 | 17-Jan-17 A | 23-Mar-17 A |
| FHW-3240 | Road Pavement (Middle Part: FLH SB 4th lanes) | 30 | 30 | 23-Sep-17 | 31-Oct-17 |
| FHW-3300 | Reinstatement of existing NB slow lane | 5 | 0 | 22-Feb-16 A | 19-Mar-16 A |
| FHW-3310 | Road Pavement (FLH NB 3rd lane) by re-surfacing | 32 | 20 | 25-Mar-17 A | 15-May-17 |
| FHW-3320 | Road Pavement (FLH NB 2nd lane) by re-surfacing | 21 | 21 | 17-May-17 | 10-Jun-17 |
| FHW-3330a | Noise Barrier NB69 - Pre-drilling & Mini-Piling (Cap45), (5nos) | 35 | 0 | 16-Feb-17 A | 27-Mar-17 A |
| FHW-3330b | Noise Barrier NB69 - Pre-drilling & Mini-Piling adjacent to NB lane (25nos) | 84 | 84 | 12-Jun-17 | 18-Sep-17 |
| FHW-3340 | Noise Barrier NB69 - Footing adjacent to NB lane (108m) | 77 | 77 | 25-Aug-17 | 25-Nov-17 |
| FHW-3350 | Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) | 85 | 85 | 21-Oct-17 | 01-Feb-18 |
| | ***Miscellaneous Works for Facilitating Traffic Diversion of Fanling Highway*** | 297 | 0 | 13-Jul-14 A | 20-Jun-15 A |
| FHW-M-1010 | Permanent Road Formation with 1 lanes width between CH7130 and CH7380 (Eastern Side) by means of re-construction | 62 | 0 | 13-Jul-14 A | 08-Nov-14 A |
| FHW-M-1020 | Permanent Road Formation with 2 lanes width between CH6935 and CH7130 (Eastern Side) by means of re-construction | 45 | 0 | 10-Nov-14 A | 07-Mar-15 A |
| FHW-M-1030 | Permanent Road Formation with 3 lanes width between CH6935 and CH7130 (Eastern Side) by means of re-surfacing | 12 | 0 | 09-Mar-15 A | 22-Mar-15 A |
| FHW-M-1040 | Demolition of a certain section of Central Barrier & Make Good of Road Pavement for further Traffic Diversion | 54 | 0 | 23-Mar-15 A | 20-Jun-15 A |
| | ***Fanling Highway North Portion between CH7470 and CH7925*** | 1407 | 406 | 30-Aug-13 A | 03-Sep-18 |
| | ***Fanling Highway Zone 4 between CH7380 and CH7470*** | 932 | 206 | 15-Oct-14 A | 03-Feb-18 |
| | ***At-Grade Roadworks (90m)*** | 932 | 206 | 15-Oct-14 A | 03-Feb-18 |
| FHW-400 | Footpath, DSD Access Track adjacent to SB lane | 70 | 70 | 01-Nov-17 | 24-Jan-18 |
| FHW-4100A | Noise Barrier NB72 - Footing adjacent to SB lane (78m) | 88 | 88 | 01-Jun-17* | 12-Sep-17 |
| FHW-4100B | Noise Barrier NB72 - Footing adjacent to SB lane (12m), access of TWSRE | 50 | 50 | 18-Sep-17 | 17-Nov-17 |
| FHW-4120A | Road Drainage, Road Formation & Pavement (FLH SB Merging lane) | 70 | 70 | 13-Sep-17 | 06-Dec-17 |
| FHW-4120B | Remaining Road Drainage, Road Formation & Pavement (FLH SB Merging lane) | 35 | 35 | 07-Dec-17 | 19-Jan-18 |
| FHW-4130 | Road Pavement (FLH SB 3rd lane) by re-surfacing | 25 | 25 | 04-Nov-17 | 02-Dec-17 |
| FHW-4140 | Road Pavement (FLH SB 2nd lane) by re-surfacing | 25 | 25 | 04-Dec-17 | 04-Jan-18 |
| FHW-4150 | Road Pavement (FLH SB 1st lane) by re-surfacing | 25 | 25 | 06-Jan-18 | 03-Feb-18 |
| FHW-4160* | Pipe Laying - Twin DN1400 Watermains (CHE & CHG) along Fanling Highway (90m long, 3m depth) | 155 | 0 | 15-Oct-14 A | 12-Mar-15 A |
| FHW-4170* | Pipe Laying - DN600 & DN1200 Watermains (CHB&CHC) along Fanling Highway (90m long, 3m depth) | 60 | 0 | 27-Nov-14 A | 18-May-15 A |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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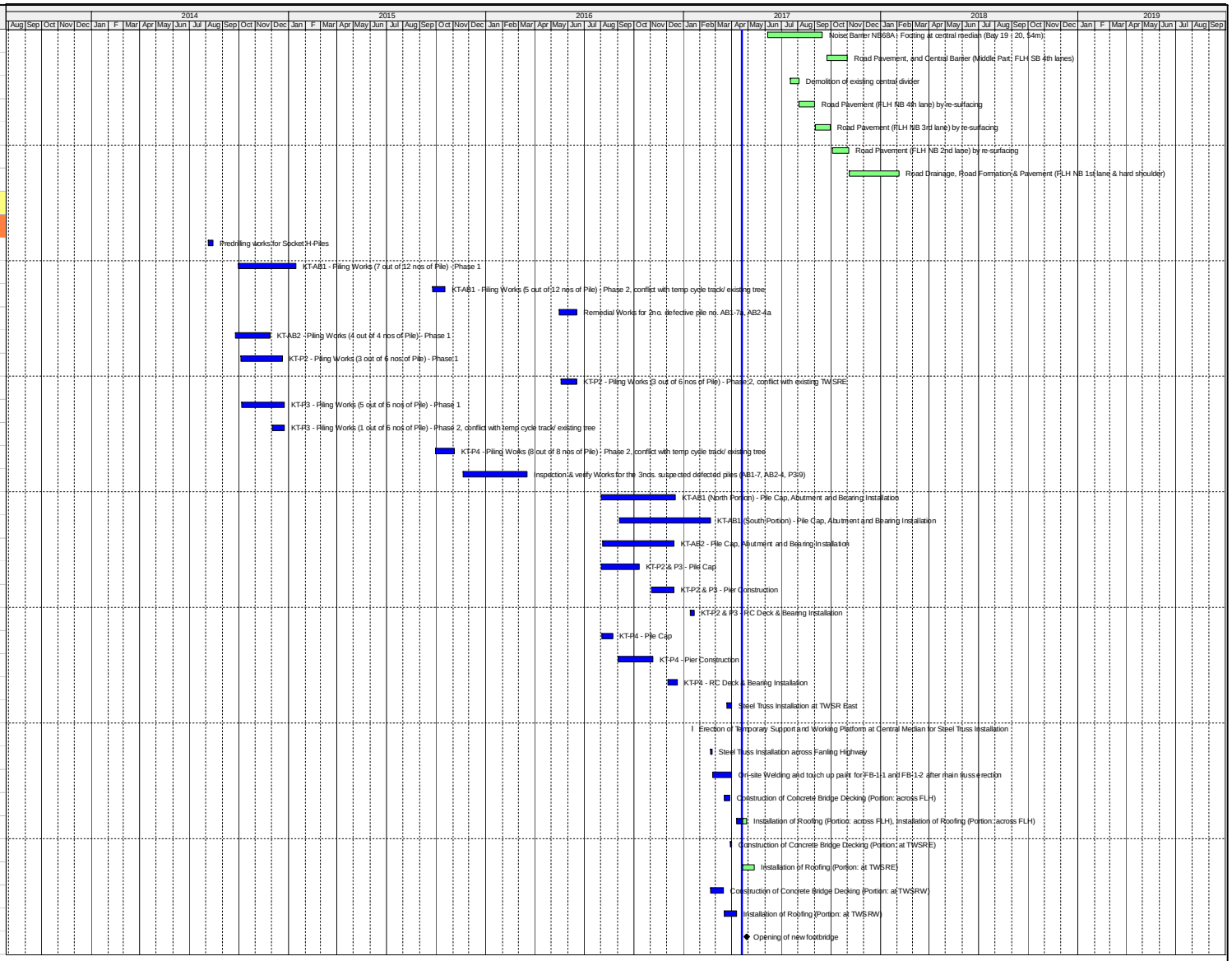
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| FHW-4210 | Noise Barrier NB68A - Footing at central median (Bay 19 - 20, 54m) | 86 | 86 | 06-Jun-17 | 14-Sep-17 |
| FHW-4220 | Road Pavement, and Central Barrier (Middle Part: FLH SB 4th lanes) | 30 | 30 | 23-Sep-17 | 31-Oct-17 |
| FHW-4240 | Demolition of existing central divider | 14 | 14 | 18-Jul-17 | 02-Aug-17 |
| FHW-4250 | Road Pavement (FLH NB 4th lane) by re-surfacing | 25 | 25 | 03-Aug-17 | 31-Aug-17 |
| FHW-4310 | Road Pavement (FLH NB 3rd lane) by re-surfacing | 25 | 25 | 02-Sep-17 | 30-Sep-17 |
| FHW-4320 | Road Pavement (FLH NB 2nd lane) by re-surfacing | 25 | 25 | 03-Oct-17 | 02-Nov-17 |
| FHW-4330 | Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) | 76 | 76 | 04-Nov-17 | 03-Feb-18 |
| ***Fanling Highway Zone 5 between CH7470 and CH7600 (Provision of Kiu Tau Foo*** | | 1103 | 239 | 15-Apr-14 A | 03-Feb-18 |
| ***Kiu Tau Footbridge Reprovision (East)*** | | 969 | 191 | 05-Aug-14 A | 06-Dec-17 |
| FHW-5000 | Predrilling works for Socket H-Piles | 45 | 0 | 05-Aug-14 A | 14-Aug-14 A |
| FHW-5000A1 | KT-AB1 - Piling Works (7 out of 12 nos of Pile) - Phase 1 | 60 | 0 | 29-Sep-14 A | 14-Jan-15 A |
| FHW-5000A2 | KT-AB1 - Piling Works (5 out of 12 nos of Pile) - Phase 2, conflict with temp cycle track/ existing tree | 25 | 0 | 25-Sep-15 A | 17-Oct-15 A |
| FHW-5000A3 | Remedial Works for 2no. defective pile no. AB1-7a, AB2-4a | 12 | 0 | 16-May-16 A | 17-Jun-16 A |
| FHW-5000B | KT-AB2 - Piling Works (4 out of 4 nos of Pile) - Phase 1 | 20 | 0 | 24-Sep-14 A | 27-Nov-14 A |
| FHW-5000C1 | KT-P2 - Piling Works (3 out of 6 nos of Pile) - Phase 1 | 30 | 0 | 04-Oct-14 A | 20-Dec-14 A |
| FHW-5000C2 | KT-P2 - Piling Works (3 out of 6 nos of Pile) - Phase 2, conflict with existing TWSRE | 12 | 0 | 19-May-16 A | 17-Jun-16 A |
| FHW-5000D1 | KT-P3 - Piling Works (5 out of 6 nos of Pile) - Phase 1 | 40 | 0 | 06-Oct-14 A | 24-Dec-14 A |
| FHW-5000D2 | KT-P3 - Piling Works (1 out of 6 nos of Pile) - Phase 2, conflict with temp cycle track/ existing tree | 6 | 0 | 02-Dec-14 A | 24-Dec-14 A |
| FHW-5000E | KT-P4 - Piling Works (8 out of 8 nos of Pile) - Phase 2, conflict with temp cycle track/ existing tree | 40 | 0 | 30-Sep-15 A | 03-Nov-15 A |
| FHW-5010 | Inspection & verify Works for the 3nos. suspected defected piles (AB1-7, AB2-4, P3-9) | 35 | 0 | 20-Nov-15 A | 17-Mar-16 A |
| FHW-5010A1 | KT-AB1 (North Portion) - Pile Cap, Abutment and Bearing Installation | 65 | 0 | 01-Aug-16 A | 17-Dec-16 A |
| FHW-5010A2 | KT-AB1 (South Portion) - Pile Cap, Abutment and Bearing Installation | 44 | 0 | 05-Sep-16 A | 20-Feb-17 A |
| FHW-5010B | KT-AB2 - Pile Cap, Abutment and Bearing Installation | 65 | 0 | 04-Aug-16 A | 14-Dec-16 A |
| FHW-5010C1 | KT-P2 & P3 - Pile Cap | 65 | 0 | 01-Aug-16 A | 11-Oct-16 A |
| FHW-5010C2 | KT-P2 & P3 - Pier Construction | 22 | 0 | 03-Nov-16 A | 15-Dec-16 A |
| FHW-5010C3 | KT-P2 & P3 - RC Deck & Bearing Installation | 30 | 0 | 14-Jan-17 A | 21-Jan-17 A |
| FHW-5010D1 | KT-P4 - Pile Cap | 65 | 0 | 03-Aug-16 A | 23-Aug-16 A |
| FHW-5010D2 | KT-P4 - Pier Construction | 40 | 0 | 03-Sep-16 A | 05-Nov-16 A |
| FHW-5010D3 | KT-P4 - RC Deck & Bearing Installation | 30 | 0 | 03-Dec-16 A | 21-Dec-16 A |
| FHW-5020 | Steel Truss Installation at TWSR East | 3 | 0 | 23-Mar-17 A | 01-Apr-17 A |
| FHW-5030 | Erection of Temporary Support and Working Platform at Central Median for Steel Truss Installation | 6 | 0 | 17-Jan-17 A | 17-Jan-17 A |
| FHW-5040a | Steel Truss Installation across Fanling Highway | 3 | 0 | 20-Feb-17 A | 23-Feb-17 A |
| FHW-5040b | On-site Welding and touch up paint for FB-1-1 and FB-1-2 after main truss erection | 5 | 0 | 24-Feb-17 A | 31-Mar-17 A |
| FHW-5050a1 | Construction of Concrete Bridge Decking (Portion: across FLH) | 10 | 0 | 18-Mar-17 A | 28-Mar-17 A |
| FHW-5050a2 | Installation of Roofing (Portion: across FLH) | 18 | 7 | 10-Apr-17 A | 27-Apr-17 |
| FHW-5050b1 | Construction of Concrete Bridge Decking (Portion: at TWSRE) | 5 | 0 | 29-Mar-17 A | 01-Apr-17 A |
| FHW-5050b2 | Installation of Roofing (Portion: at TWSRE) | 18 | 18 | 20-Apr-17 | 12-May-17 |
| FHW-5050c1 | Construction of Concrete Bridge Decking (Portion: at TWSRW) | 18 | 0 | 21-Feb-17 A | 17-Mar-17 A |
| FHW-5050c2 | Installation of Roofing (Portion: at TWSRW) | 18 | 0 | 18-Mar-17 A | 09-Apr-17 A |
| FHW-5060 | Opening of new footbridge | 0 | 0 | | 28-Apr-17 |

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**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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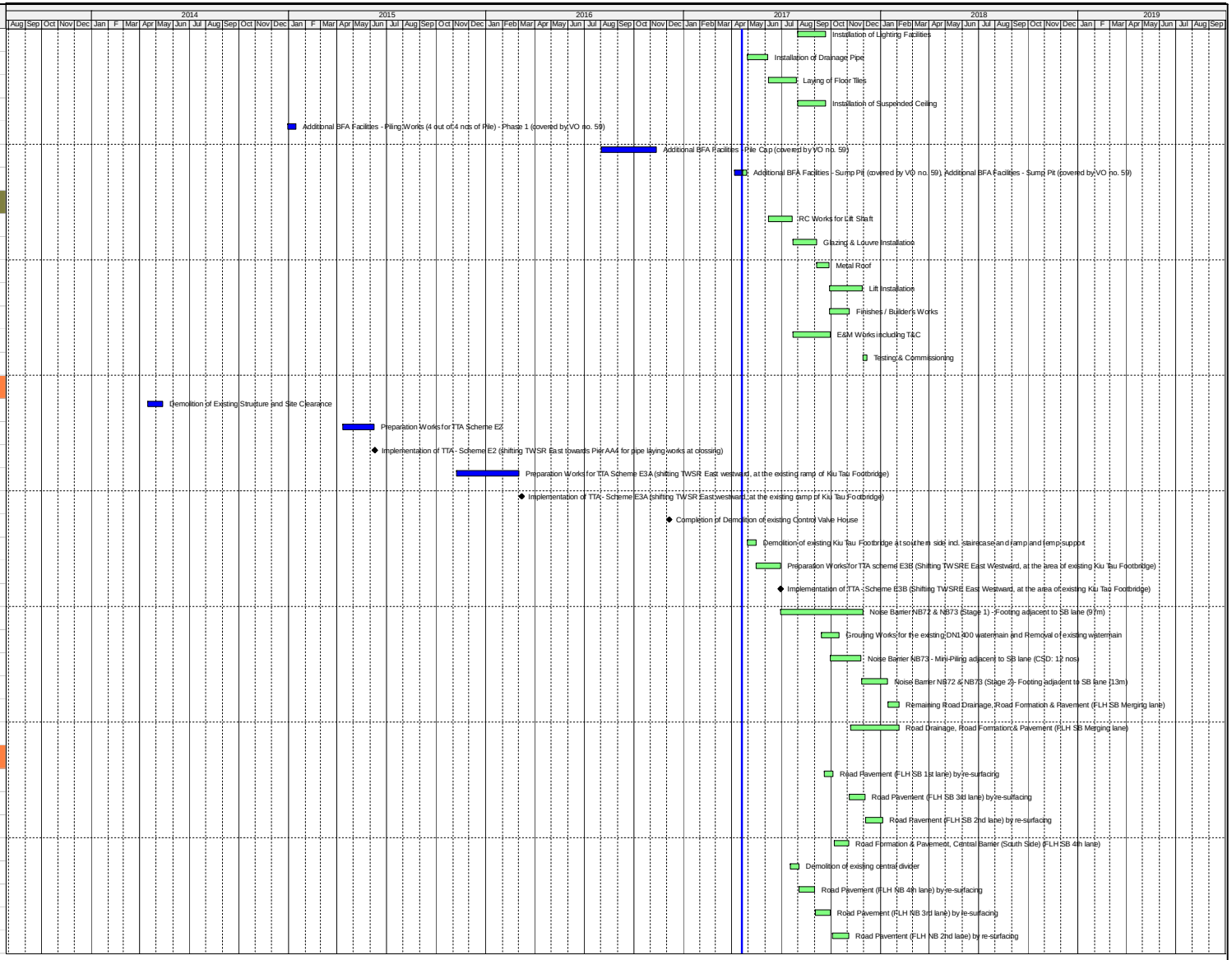
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| FHW-5070a | Installation of Lighting Facilities | 45 | 45 | 31-Jul-17 | 20-Sep-17 |
| FHW-5070b | Installation of Drainage Pipe | 30 | 30 | 29-Apr-17 | 06-Jun-17 |
| FHW-5070c | Laying of Floor Tiles | 45 | 45 | 07-Jun-17 | 29-Jul-17 |
| FHW-5070d | Installation of Suspended Ceiling | 45 | 45 | 31-Jul-17 | 20-Sep-17 |
| FHW-5080 | Additional BFA Facilities - Piling Works (4 out of 4 nos of Pile) - Phase 1 (covered by VO no. 59) | 20 | 0 | 30-Dec-14 A | 14-Jan-15 A |
| FHW-5090a | Additional BFA Facilities - Pile Cap (covered by VO no. 59) | 50 | 0 | 01-Aug-16 A | 12-Nov-16 A |
| FHW-5090b | Additional BFA Facilities - Sump Pit (covered by VO no. 59) | 35 | 8 | 06-Apr-17 A | 28-Apr-17 |
| **Provision of BFA Facilities (Lift)** | | 153 | 153 | 07-Jun-17 | 06-Dec-17 |
| FHW-L-1000 | RC Works for Lift Shaft | 38 | 38 | 07-Jun-17 | 21-Jul-17 |
| FHW-L-1010 | Glazing & Louvre Installation | 38 | 38 | 22-Jul-17 | 04-Sep-17 |
| FHW-L-1020 | Metal Roof | 20 | 20 | 05-Sep-17 | 27-Sep-17 |
| FHW-L-1030 | Lift Installation | 50 | 50 | 28-Sep-17 | 28-Nov-17 |
| FHW-L-1040 | Finishes / Builder's Works | 30 | 30 | 28-Sep-17 | 04-Nov-17 |
| FHW-L-1050 | E&M Works including T&C | 60 | 60 | 22-Jul-17 | 29-Sep-17 |
| FHW-L-1060 | Testing & Commissioning | 7 | 7 | 29-Nov-17 | 06-Dec-17 |
| ***Works at existing TWSRE*** | | 1103 | 231 | 15-Apr-14 A | 03-Feb-18 |
| FHW-5400 | Demolition of Existing Structure and Site Clearance | 45 | 0 | 15-Apr-14 A | 13-May-14 A |
| FHW-5410A | Preparation Works for TTA Scheme E2 | 51 | 0 | 11-Apr-15 A | 08-Jun-15 A |
| FHW-5410B | Implementation of TTA - Scheme E2 (shifting TWSR East towards Pier AA4 for pipe laying works at crossing) | 0 | 0 | 09-Jun-15 A | |
| FHW-5420A | Preparation Works for TTA Scheme E3A (shifting TWSR East westward, at the existing ramp of Kiu Tau Footbridge) | 50 | 0 | 07-Nov-15 A | 02-Mar-16 A |
| FHW-5420B | Implementation of TTA - Scheme E3A (shifting TWSR East westward, at the existing ramp of Kiu Tau Footbridge) | 0 | 0 | 07-Mar-16 A | |
| FHW-5430 | Completion of Demolition of existing Control Valve House | 0 | 0 | | 06-Dec-16 A |
| FHW-5440 | Demolition of existing Kiu Tau Footbridge at southern side incl. staircase and ramp and temp support | 12 | 12 | 29-Apr-17 | 15-May-17 |
| FHW-5460 | Preparation Works for TTA scheme E3B (Shifting TWSRE East Westward, at the area of existing Kiu Tau Footbridge) | 38 | 38 | 16-May-17 | 29-Jun-17 |
| FHW-5470 | Implementation of TTA - Scheme E3B (Shifting TWSRE East Westward, at the area of existing Kiu Tau Footbridge) | 0 | 0 | 30-Jun-17 | |
| FHW-5480 | Noise Barrier NB72 & NB73 (Stage 1) - Footing adjacent to SB lane (97m) | 127 | 127 | 30-Jun-17 | 29-Nov-17 |
| FHW-5480A | Grouting Works for the existing DN1400 watermain and Removal of existing watermain | 26 | 26 | 14-Sep-17 | 16-Oct-17 |
| FHW-5480B | Noise Barrier NB73 - Mini-Piling adjacent to SB lane (CSD: 12 nos) | 46 | 46 | 30-Sep-17 | 25-Nov-17 |
| FHW-5480C | Noise Barrier NB72 & NB73 (Stage 2)- Footing adjacent to SB lane (13m) | 39 | 39 | 27-Nov-17 | 13-Jan-18 |
| FHW-5480D | Remaining Road Drainage, Road Formation & Pavement (FLH SB Merging lane) | 18 | 18 | 15-Jan-18 | 03-Feb-18 |
| FHW-5490 | Road Drainage, Road Formation & Pavement (FLH SB Merging lane) | 75 | 75 | 06-Nov-17 | 03-Feb-18 |
| ***At-Grade Road Works (130m)*** | | 167 | 167 | 18-Jul-17 | 03-Feb-18 |
| FHW-5100 | Road Pavement (FLH SB 1st lane) by re-surfacing | 14 | 14 | 18-Sep-17 | 04-Oct-17 |
| FHW-5110 | Road Pavement (FLH SB 3rd lane) by re-surfacing | 25 | 25 | 04-Nov-17 | 02-Dec-17 |
| FHW-5120 | Road Pavement (FLH SB 2nd lane) by re-surfacing | 25 | 25 | 04-Dec-17 | 04-Jan-18 |
| FHW-5210 | Road Formation & Pavement, Central Barrier (South Side) (FLH SB 4th lane) | 22 | 22 | 07-Oct-17 | 02-Nov-17 |
| FHW-5230 | Demolition of existing central divider | 14 | 14 | 18-Jul-17 | 02-Aug-17 |
| FHW-5240 | Road Pavement (FLH NB 4th lane) by re-surfacing | 25 | 25 | 03-Aug-17 | 31-Aug-17 |
| FHW-5310 | Road Pavement (FLH NB 3rd lane) by re-surfacing | 25 | 25 | 02-Sep-17 | 30-Sep-17 |
| FHW-5320 | Road Pavement (FLH NB 2nd lane) by re-surfacing | 25 | 25 | 03-Oct-17 | 02-Nov-17 |

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**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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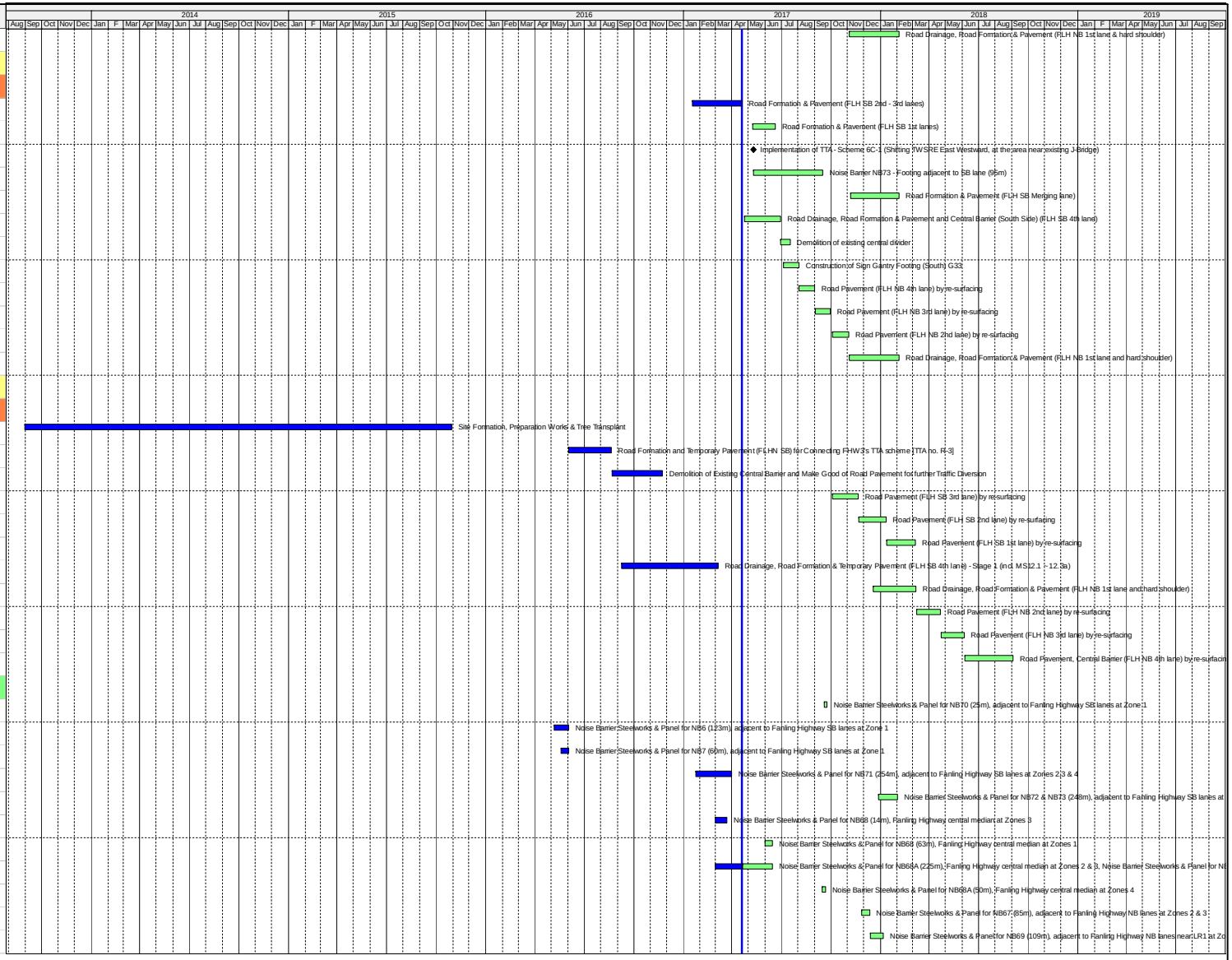
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| FHW-5330 | Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder) | 76 | 76 | 04-Nov-17 | 03-Feb-18 |
| ***Fanling Highway Zone 6 between CH7600 and CH7660 (Existing Vehicular Bridge)*** | | 305 | 236 | 17-Jan-17 A | 03-Feb-18 |
| ***At-Grade Roadworks (60m)*** | | 305 | 236 | 17-Jan-17 A | 03-Feb-18 |
| FHW-6110 | Road Formation & Pavement (FLH SB 2nd - 3rd lanes) | 50 | 0 | 17-Jan-17 A | 19-Apr-17 A |
| FHW-6120 | Road Formation & Pavement (FLH SB 1st lanes) | 35 | 35 | 09-May-17 | 19-Jun-17 |
| FHW-6130 | Implementation of TTA - Scheme 6C-1 (Shifting TWSRE East Westward, at the area near existing J-Bridge) | 0 | 0 | 11-May-17 | |
| FHW-6140 | Noise Barrier NB73 - Footing adjacent to SB lane (95m) | 108 | 108 | 11-May-17 | 15-Sep-17 |
| FHW-6150 | Road Formation & Pavement (FLH SB Merging lane) | 75 | 75 | 06-Nov-17 | 03-Feb-18 |
| FHW-6210 | Road Drainage, Road Formation & Pavement and Central Barrier (South Side) (FLH SB 4th lane) | 55 | 55 | 24-Apr-17 | 29-Jun-17 |
| FHW-6230a | Demolition of existing central divider | 14 | 14 | 30-Jun-17 | 17-Jul-17 |
| FHW-6230b | Construction of Sign Gantry Footing (South) G33 | 25 | 25 | 05-Jul-17 | 02-Aug-17 |
| FHW-6240 | Road Pavement (FLH NB 4th lane) by re-surfacing | 25 | 25 | 03-Aug-17 | 31-Aug-17 |
| FHW-6310 | Road Pavement (FLH NB 3rd lane) by re-surfacing | 25 | 25 | 02-Sep-17 | 30-Sep-17 |
| FHW-6320 | Road Pavement (FLH NB 2nd lane) by re-surfacing | 25 | 25 | 03-Oct-17 | 02-Nov-17 |
| FHW-6330 | Road Drainage, Road Formation & Pavement (FLH NB 1st lane and hard shoulder) | 76 | 76 | 04-Nov-17 | 03-Feb-18 |
| ***Fanling Highway Zone 7 between CH7660 and CH7925*** | | 1407 | 269 | 30-Aug-13 A | 03-Sep-18 |
| ***At-Grade Roadworks (265m)*** | | 1407 | 269 | 30-Aug-13 A | 03-Sep-18 |
| FHW-7100 | Site Formation, Preparation Works & Tree Transplant | 127 | 0 | 30-Aug-13 A | 30-Oct-15 A |
| FHW-7110 | Road Formation and Temporary Pavement (FLHN SB) for Connecting FHW3's TTA scheme [TTA no. R-3] | 60 | 0 | 02-Jun-16 A | 20-Aug-16 A |
| FHW-7120 | Demolition of Existing Central Barrier and Make Good of Road Pavement for further Traffic Diversion | 38 | 0 | 22-Aug-16 A | 23-Nov-16 A |
| FHW-7130 | Road Pavement (FLH SB 3rd lane) by re-surfacing | 40 | 40 | 03-Oct-17 | 20-Nov-17 |
| FHW-7140 | Road Pavement (FLH SB 2nd lane) by re-surfacing | 40 | 40 | 22-Nov-17 | 10-Jan-18 |
| FHW-7150 | Road Pavement (FLH SB 1st lane) by re-surfacing | 40 | 40 | 12-Jan-18 | 06-Mar-18 |
| FHW-7210 | Road Drainage, Road Formation & Temporary Pavement (FLH SB 4th lane) - Stage 1 (incl. MS12.1 ~ 12.3a) | 125 | 0 | 08-Sep-16 A | 06-Mar-17 A |
| FHW-7310 | Road Drainage, Road Formation & Pavement (FLH NB 1st lane and hard shoulder) | 60 | 60 | 18-Dec-17 | 07-Mar-18 |
| FHW-7320 | Road Pavement (FLH NB 2nd lane) by re-surfacing | 35 | 35 | 08-Mar-18 | 21-Apr-18 |
| FHW-7330 | Road Pavement (FLH NB 3rd lane) by re-surfacing | 35 | 35 | 23-Apr-18 | 04-Jun-18 |
| FHW-7340 | Road Pavement, Central Barrier (FLH NB 4th lane) by re-surfacing | 75 | 75 | 06-Jun-18 | 03-Sep-18 |
| ***Remaining Works for Noise Barrier along widened Fanling Highway*** | | 506 | 237 | 07-May-16 A | 01-Feb-18 |
| FHW-NB-110 | Noise Barrier Steelworks & Panel for NB70 (25m), adjacent to Fanling Highway SB lanes at Zone 1 | 6 | 6 | 18-Sep-17 | 23-Sep-17 |
| FHW-NB-120 | Noise Barrier Steelworks & Panel for NB6 (123m), adjacent to Fanling Highway SB lanes at Zone 1 | 21 | 0 | 07-May-16 A | 02-Jun-16 A |
| FHW-NB-130 | Noise Barrier Steelworks & Panel for NB7 (60m), adjacent to Fanling Highway SB lanes at Zone 1 | 11 | 0 | 20-May-16 A | 02-Jun-16 A |
| FHW-NB-140 | Noise Barrier Steelworks & Panel for NB71 (254m), adjacent to Fanling Highway SB lanes at Zones 2,3 & 4 | 40 | 0 | 24-Jan-17 A | 01-Apr-17 A |
| FHW-NB-150 | Noise Barrier Steelworks & Panel for NB72 & NB73 (248m), adjacent to Fanling Highway SB lanes at Zones 4, 5 & 6 | 30 | 30 | 28-Dec-17 | 01-Feb-18 |
| FHW-NB-210 | Noise Barrier Steelworks & Panel for NB68 (14m), Fanling Highway central median at Zones 3 | 7 | 0 | 02-Mar-17 A | 23-Mar-17 A |
| FHW-NB-220 | Noise Barrier Steelworks & Panel for NB68 (63m), Fanling Highway central median at Zones 1 | 13 | 13 | 01-Jun-17 | 15-Jun-17 |
| FHW-NB-230 | Noise Barrier Steelworks & Panel for NB68A (225m), Fanling Highway central median at Zones 2 & 3 | 12 | 46 | 02-Mar-17 A | 15-Jun-17 |
| FHW-NB-240 | Noise Barrier Steelworks & Panel for NB68A (50m), Fanling Highway central median at Zones 4 | 6 | 6 | 15-Sep-17 | 21-Sep-17 |
| FHW-NB-320 | Noise Barrier Steelworks & Panel for NB67 (85m), adjacent to Fanling Highway NB lanes at Zones 2 & 3 | 14 | 14 | 27-Nov-17 | 12-Dec-17 |
| FHW-NB-330 | Noise Barrier Steelworks & Panel for NB69 (109m), adjacent to Fanling Highway NB lanes near LR1 at Zone 3 | 18 | 18 | 13-Dec-17 | 05-Jan-18 |

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- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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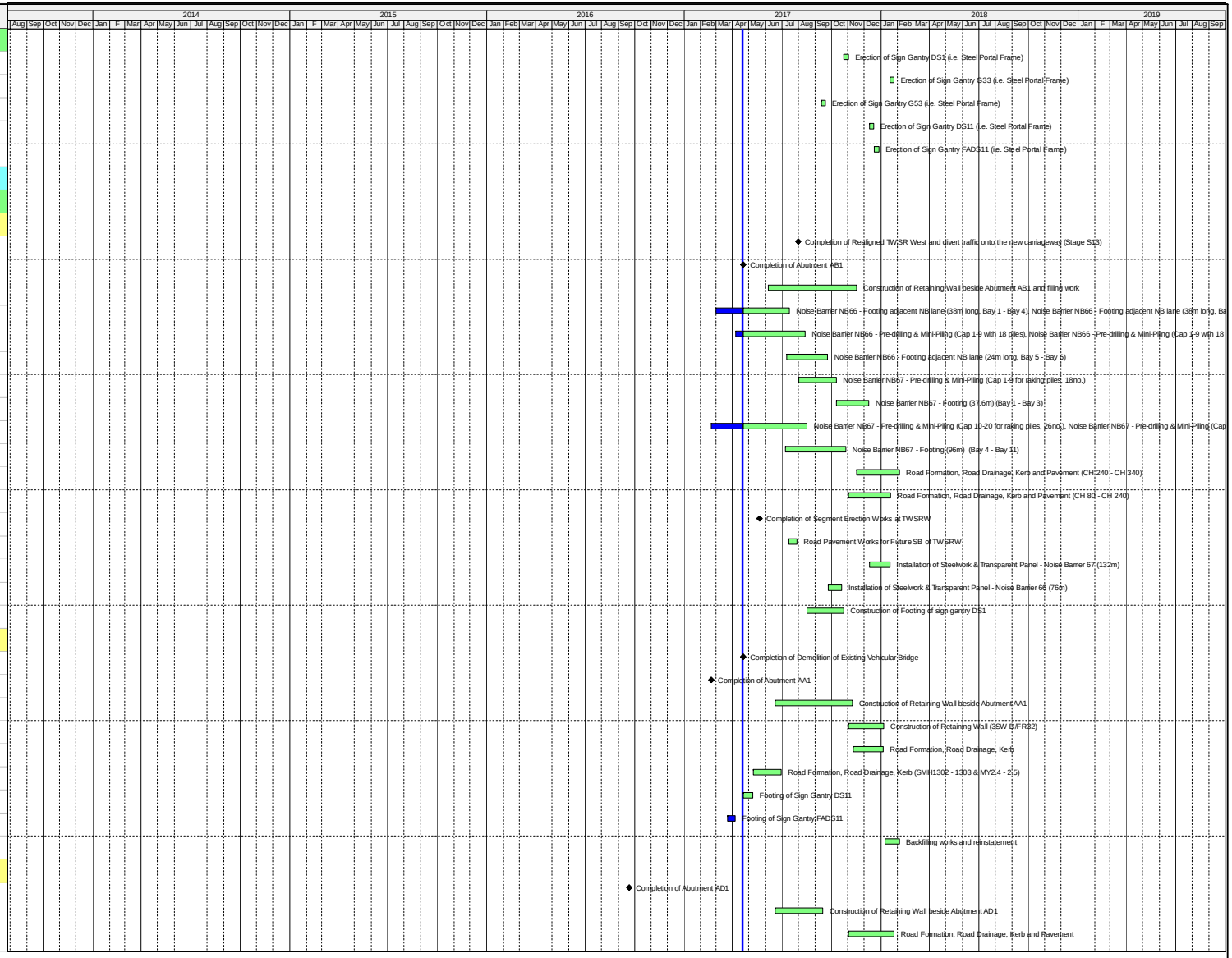
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| ***Erection of Sign Gantry*** | | 110 | 110 | 12-Sep-17 | 24-Jan-18 |
| FHW-SG-1000 | Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) | 7 | 7 | 24-Oct-17 | 01-Nov-17 |
| FHW-SG-1010 | Erection of Sign Gantry G33 (i.e. Steel Portal Frame) | 7 | 7 | 17-Jan-18 | 24-Jan-18 |
| FHW-SG-1020 | Erection of Sign Gantry G53 (i.e. Steel Portal Frame) | 7 | 7 | 12-Sep-17 | 19-Sep-17 |
| FHW-SG-1030 | Erection of Sign Gantry DS11 (i.e. Steel Portal Frame) | 7 | 7 | 11-Dec-17 | 18-Dec-17 |
| FHW-SG-1040 | Erection of Sign Gantry FADS11 (i.e. Steel Portal Frame) | 7 | 7 | 19-Dec-17 | 28-Dec-17 |
| ***Section II - Remainder of the Works (KD-3)*** | | 1330 | 405 | 02-Jan-14 A | 01-Sep-18 |
| ***At Grade Link Road at Fanling Highway Interchange*** | | 460 | 290 | 14-Sep-16 A | 16-Apr-18 |
| ***Link Road 1 (near Abutment AB1)*** | | 278 | 239 | 20-Feb-17 A | 03-Feb-18 |
| FHI-LR1-1000 | Completion of Realigned TWSR West and divert traffic onto the new carriageway (Stage S13) | 0 | 0 | | 31-Jul-17 |
| FHI-LR1-1010 | Completion of Abutment AB1 | 0 | 0 | | 20-Apr-17 |
| FHI-LR1-1020 | Construction of Retaining Wall beside Abutment AB1 and filling work | 137 | 137 | 06-Jun-17 | 16-Nov-17 |
| FHI-LR1-1030 | Noise Barrier NB66 - Footing adjacent NB lane (38m long, Bay 1 - Bay 4) | 90 | 71 | 02-Mar-17 A | 15-Jul-17 |
| FHI-LR1-1040a | Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) | 54 | 95 | 07-Apr-17 A | 12-Aug-17 |
| FHI-LR1-1040a10 | Noise Barrier NB66 - Footing adjacent NB lane (24m long, Bay 5 - Bay 6) | 66 | 66 | 10-Jul-17 | 23-Sep-17 |
| FHI-LR1-1050 | Noise Barrier NB67 - Pre-drilling & Mini-Piling (Cap 1-9 for raking piles, 18no.) | 58 | 58 | 01-Aug-17 | 09-Oct-17 |
| FHI-LR1-1060 | Noise Barrier NB67 - Footing (37.6m) (Bay 1 - Bay 3) | 52 | 52 | 10-Oct-17 | 09-Dec-17 |
| FHI-LR1-1070 | Noise Barrier NB67 - Pre-drilling & Mini-Piling (Cap 10-20 for raking piles, 26no.) | 106 | 98 | 20-Feb-17 A | 16-Aug-17 |
| FHI-LR1-1080 | Noise Barrier NB67 - Footing (96m) (Bay 4 - Bay 11) | 95 | 95 | 07-Jul-17 | 27-Oct-17 |
| FHI-LR1-1110 | Road Formation, Road Drainage, Kerb and Pavement (CH 240 - CH 340) | 65 | 65 | 17-Nov-17 | 03-Feb-18 |
| FHI-LR1-1120 | Road Formation, Road Drainage, Kerb and Pavement (CH 80 - CH 240) | 65 | 65 | 01-Nov-17 | 18-Jan-18 |
| FHI-LR1-1200 | Completion of Segment Erection Works at TWSRW | 0 | 0 | | 20-May-17 |
| FHI-LR1-1210 | Road Pavement Works for Future SB of TWSRW | 14 | 14 | 14-Jul-17 | 29-Jul-17 |
| FHI-LR1-1300 | Installation of Steelwork & Transparent Panel - Noise Barrier 67 (132m) | 30 | 30 | 11-Dec-17 | 17-Jan-18 |
| FHI-LR1-1310 | Installation of Steelwork & Transparent Panel - Noise Barrier 66 (76m) | 20 | 20 | 25-Sep-17 | 19-Oct-17 |
| FHI-LR1-1320 | Construction of Footing of sign gantry DS1 | 56 | 56 | 17-Aug-17 | 23-Oct-17 |
| ***Link Road 2 (near Abutment AA1)*** | | 278 | 239 | 20-Feb-17 A | 03-Feb-18 |
| FHI-LR2-2000 | Completion of Demolition of Existing Vehicular Bridge | 0 | 0 | | 20-Apr-17 |
| FHI-LR2-2010 | Completion of Abutment AA1 | 0 | 0 | | 20-Feb-17 A |
| FHI-LR2-2020 | Construction of Retaining Wall beside Abutment AA1 | 120 | 120 | 19-Jun-17* | 09-Nov-17 |
| FHI-LR2-2030 | Construction of Retaining Wall (3SW-D/FR32) | 55 | 55 | 01-Nov-17* | 06-Jan-18 |
| FHI-LR2-2040a | Road Formation, Road Drainage, Kerb | 45 | 45 | 10-Nov-17 | 04-Jan-18 |
| FHI-LR2-2040b | Road Formation, Road Drainage, Kerb (SMH1302 - 1303 & MY2.4 - 2.5) | 45 | 45 | 09-May-17 | 30-Jun-17 |
| FHI-LR2-2040c | Footing of Sign Gantry DS11 | 14 | 14 | 20-Apr-17 | 08-May-17 |
| FHI-LR2-2040d | Footing of Sign Gantry FADS11 | 14 | 0 | 23-Mar-17 A | 06-Apr-17 A |
| FHI-LR2-2050 | Backfilling works and reinstatement | 24 | 24 | 08-Jan-18 | 03-Feb-18 |
| ***Link Road 3 (near Abutment AD1)*** | | 269 | 182 | 21-Sep-16 A | 24-Jan-18 |
| FHI-LR3-3010 | Completion of Abutment AD1 | 0 | 0 | | 21-Sep-16 A |
| FHI-LR3-3020 | Construction of Retaining Wall beside Abutment AD1 | 75 | 75 | 19-Jun-17* | 14-Sep-17 |
| FHI-LR3-3030 | Road Formation, Road Drainage, Kerb and Pavement | 70 | 70 | 01-Nov-17 | 24-Jan-18 |




Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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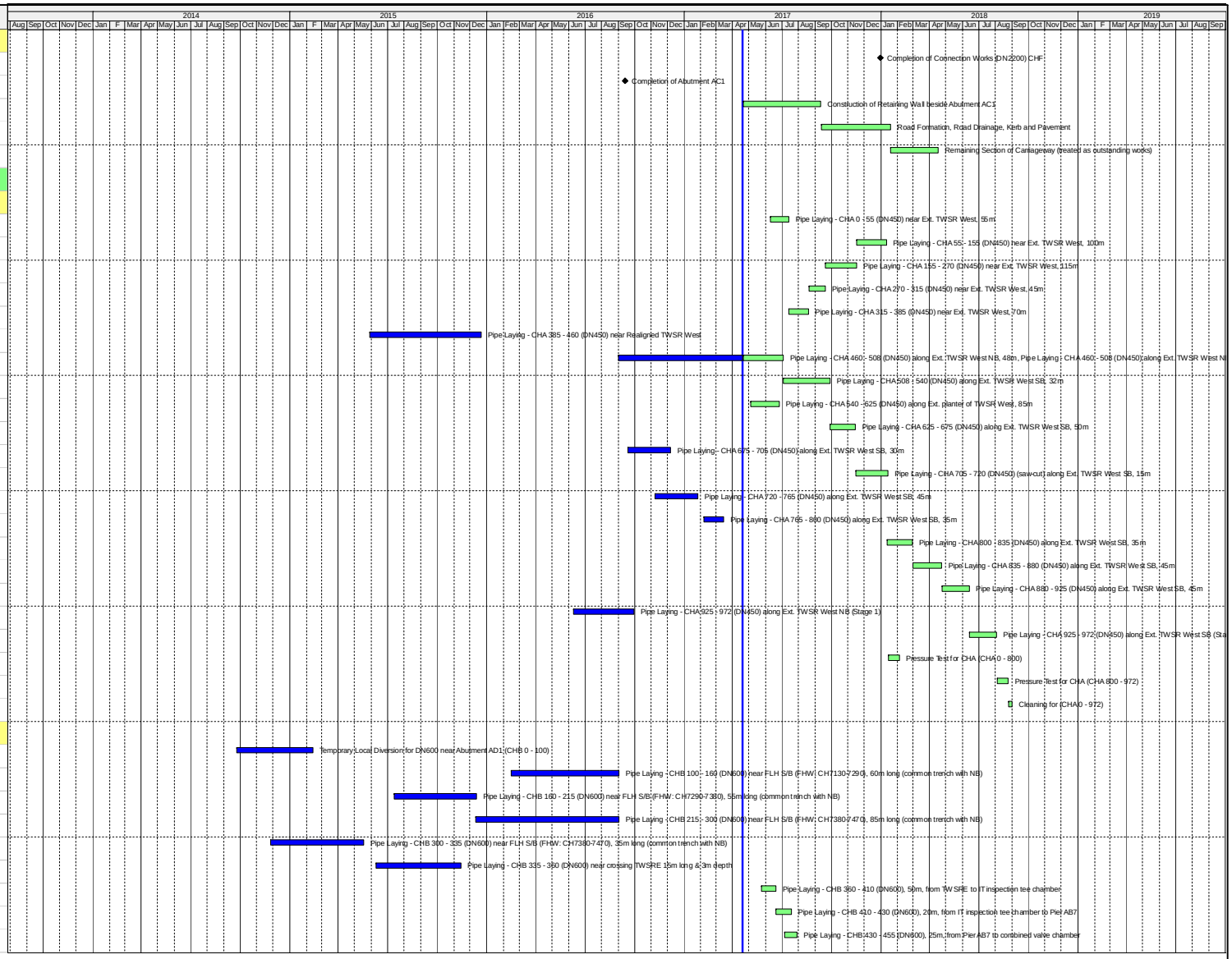
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| ***Link Road 4 (near Abutment AC1)*** | | 460 | 290 | 14-Sep-16 A | 16-Apr-18 |
| FHI-LR4-4000 | Completion of Connection Works (DN2200) CHF | 0 | 0 | | 30-Dec-17 |
| FHI-LR4-4010 | Completion of Abutment AC1 | 0 | 0 | | 14-Sep-16 A |
| FHI-LR4-4020 | Construction of Retaining Wall beside Abutment AC1 | 120 | 120 | 20-Apr-17* | 11-Sep-17 |
| FHI-LR4-4030 | Road Formation, Road Drainage, Kerb and Pavement | 105 | 105 | 12-Sep-17 | 18-Jan-18 |
| FHI-LR4-4040 | Remaining Section of Carriageway (treated as outstanding works) | 65 | 65 | 19-Jan-18 | 16-Apr-18 |
| ***WSD Works*** | | 1330 | 405 | 20-Feb-14 A | 01-Sep-18 |
| ***DN450 Fire Mains (CHA)*** | | 941 | 405 | 29-May-15 A | 01-Sep-18 |
| WA-1010 | Pipe Laying - CHA 0 - 55 (DN450) near Ext. TWSR West, 55m | 28 | 28 | 10-Jun-17 | 13-Jul-17 |
| WA-1020 | Pipe Laying - CHA 55 - 155 (DN450) near Ext. TWSR West, 100m | 45 | 45 | 17-Nov-17 | 11-Jan-18 |
| WA-1110 | Pipe Laying - CHA 155 - 270 (DN450) near Ext. TWSR West, 115m | 47 | 47 | 20-Sep-17 | 16-Nov-17 |
| WA-1120 | Pipe Laying - CHA 270 - 315 (DN450) near Ext. TWSR West, 45m | 26 | 26 | 21-Aug-17 | 19-Sep-17 |
| WA-1130 | Pipe Laying - CHA 315 - 385 (DN450) near Ext. TWSR West, 70m | 32 | 32 | 14-Jul-17* | 19-Aug-17 |
| WA-1140 | Pipe Laying - CHA 385 - 460 (DN450) near Realigned TWSR West | 70 | 0 | 29-May-15 A | 21-Dec-15 A |
| WA-2010 | Pipe Laying - CHA 460 - 508 (DN450) along Ext. TWSR West NB, 48m | 188 | 60 | 01-Sep-16 A | 03-Jul-17 |
| WA-2020 | Pipe Laying - CHA 508 - 540 (DN450) along Ext. TWSR West SB, 32m | 75 | 75 | 04-Jul-17 | 28-Sep-17 |
| WA-2040 | Pipe Laying - CHA 540 - 625 (DN450) along Ext. planter of TWSR West, 85m | 45 | 45 | 04-May-17* | 26-Jun-17 |
| WA-2080 | Pipe Laying - CHA 625 - 675 (DN450) along Ext. TWSR West SB, 50m | 37 | 37 | 29-Sep-17 | 14-Nov-17 |
| WA-3010a | Pipe Laying - CHA 675 - 705 (DN450) along Ext. TWSR West SB, 30m | 66 | 0 | 19-Sep-16 A | 07-Dec-16 A |
| WA-3010b | Pipe Laying - CHA 705 - 720 (DN450) (saw-cut) along Ext. TWSR West SB, 15m | 49 | 49 | 15-Nov-17* | 13-Jan-18 |
| WA-3020 | Pipe Laying - CHA 720 - 765 (DN450) along Ext. TWSR West SB, 45m | 65 | 0 | 08-Nov-16 A | 26-Jan-17 A |
| WA-3030 | Pipe Laying - CHA 765 - 800 (DN450) along Ext. TWSR West SB, 35m | 32 | 0 | 07-Feb-17 A | 15-Mar-17 A |
| WA-3040 | Pipe Laying - CHA 800 - 835 (DN450) along Ext. TWSR West SB, 35m | 35 | 35 | 12-Jan-18 | 28-Feb-18 |
| WA-3050 | Pipe Laying - CHA 835 - 880 (DN450) along Ext. TWSR West SB, 45m | 42 | 42 | 01-Mar-18 | 23-Apr-18 |
| WA-3060 | Pipe Laying - CHA 880 - 925 (DN450) along Ext. TWSR West SB, 45m | 42 | 42 | 24-Apr-18 | 13-Jun-18 |
| WA-3070 | Pipe Laying - CHA 925 - 972 (DN450) along Ext. TWSR West NB (Stage 1) | 94 | 0 | 10-Jun-16 A | 30-Sep-16 A |
| WA-3080 | Pipe Laying - CHA 925 - 972 (DN450) along Ext. TWSR West SB (Stage 2), 47m | 42 | 42 | 14-Jun-18 | 03-Aug-18 |
| WA-4100 | Pressure Test for CHA (CHA 0 - 800) | 18 | 18 | 15-Jan-18 | 03-Feb-18 |
| WA-4200 | Pressure Test for CHA (CHA 800 - 972) | 18 | 18 | 04-Aug-18 | 24-Aug-18 |
| WA-4210 | Cleaning for (CHA 0 - 972) | 7 | 7 | 25-Aug-18 | 01-Sep-18 |
| ***DN600 Water Mains (CHB)*** | | 810 | 89 | 25-Sep-14 A | 07-Sep-17 |
| WB-0100 | Temporary Local Diversion for DN600 near Abutment AD1 (CHB 0 - 100) | 80 | 0 | 25-Sep-14 A | 12-Feb-15 A |
| WB-1000 | Pipe Laying - CHB 100 - 160 (DN600) near FLH S/B (FHW: CH7130-7290), 60m long (common trench with NB) | 60 | 0 | 15-Feb-16 A | 02-Sep-16 A |
| WB-1010 | Pipe Laying - CHB 160 - 215 (DN600) near FLH S/B (FHW: CH7290-7380), 55m long (common trench with NB) | 60 | 0 | 13-Jul-15 A | 12-Dec-15 A |
| WB-1020 | Pipe Laying - CHB 215 - 300 (DN600) near FLH S/B (FHW: CH7380-7470), 85m long (common trench with NB) | 60 | 0 | 12-Dec-15 A | 02-Sep-16 A |
| WB-1020A | Pipe Laying - CHB 300 - 335 (DN600) near FLH S/B (FHW: CH7380-7470), 35m long (common trench with NB) | 60 | 0 | 27-Nov-14 A | 18-May-15 A |
| WB-1030A | Pipe Laying - CHB 335 - 360 (DN600) near crossing TWSRE 15m long & 3m depth | 30 | 0 | 09-Jun-15 A | 13-Nov-15 A |
| WB-1030B | Pipe Laying - CHB 360 - 410 (DN600), 50m, from TWSRE to IT inspection tee chamber | 21 | 21 | 25-May-17 | 19-Jun-17 |
| WB-1030C | Pipe Laying - CHB 410 - 430 (DN600), 20m, from IT inspection tee chamber to Pier AB7 | 25 | 25 | 20-Jun-17 | 19-Jul-17 |
| WB-1040 | Pipe Laying - CHB 430 - 455 (DN600), 25m, from Pier AB7 to combined valve chamber | 20 | 20 | 06-Jul-17 | 28-Jul-17 |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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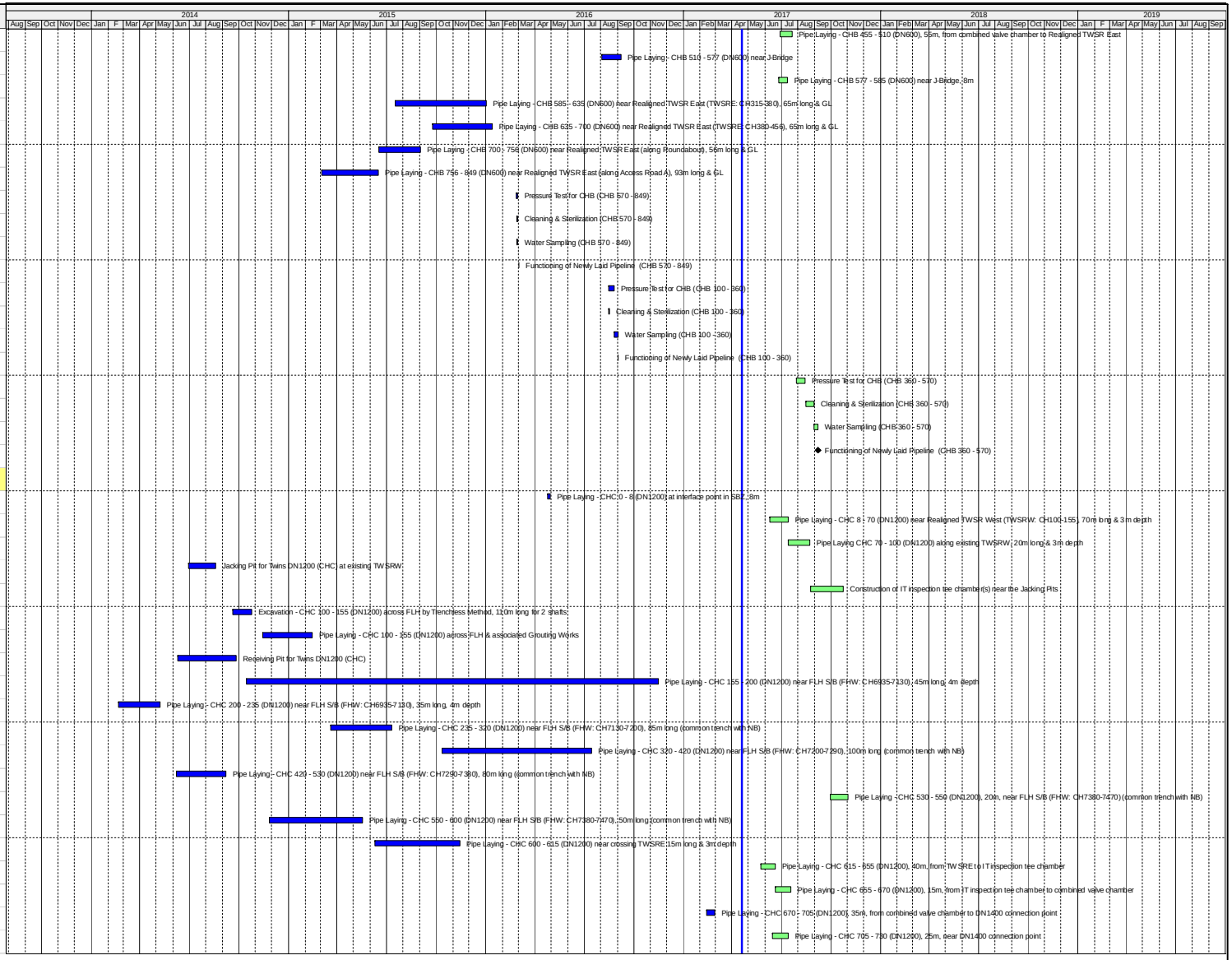
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| WB-1050 | Pipe Laying - CHB 455 - 510 (DN600), 55m, from combined valve chamber to Realigned TWSR East | 20 | 20 | 28-Jun-17 | 21-Jul-17 |
| WB-1060A | Pipe Laying - CHB 510 - 577 (DN600) near J-Bridge | 21 | 0 | 03-Aug-16 A | 08-Sep-16 A |
| WB-1060B | Pipe Laying - CHB 577 - 585 (DN600) near J-Bridge, 8m | 14 | 14 | 26-Jun-17 | 12-Jul-17 |
| WB-1060C | Pipe Laying - CHB 585 - 635 (DN600) near Realigned TWSR East (TWSRE: CH315-380), 65m long & GL | 40 | 0 | 17-Jul-15 A | 02-Jan-16 A |
| WB-1070 | Pipe Laying - CHB 635 - 700 (DN600) near Realigned TWSR East (TWSRE: CH380-456), 65m long & GL | 78 | 0 | 24-Sep-15 A | 13-Jan-16 A |
| WB-1080 | Pipe Laying - CHB 700 - 756 (DN600) near Realigned TWSR East (along Roundabout), 56m long & GL | 66 | 0 | 17-Jun-15 A | 01-Sep-15 A |
| WB-1090 | Pipe Laying - CHB 756 - 849 (DN600) near Realigned TWSR East (along Access Road A), 93m long & GL | 40 | 0 | 03-Mar-15 A | 15-Jun-15 A |
| WB-2000 | Pressure Test for CHB (CHB 570 - 849) | 21 | 0 | 26-Feb-16 A | 28-Feb-16 A |
| WB-2010 | Cleaning & Sterilization (CHB 570 - 849) | 7 | 0 | 28-Feb-16 A | 28-Feb-16 A |
| WB-2020 | Water Sampling (CHB 570 - 849) | 7 | 0 | 28-Feb-16 A | 29-Feb-16 A |
| WB-2030 | Functioning of Newly Laid Pipeline (CHB 570 - 849) | 1 | 0 | 02-Mar-16 A | 02-Mar-16 A |
| WB-3000 | Pressure Test for CHB (CHB 100 - 360) | 5 | 0 | 16-Aug-16 A | 25-Aug-16 A |
| WB-3010 | Cleaning & Sterilization (CHB 100 - 360) | 7 | 0 | 16-Aug-16 A | 16-Aug-16 A |
| WB-3020 | Water Sampling (CHB 100 - 360) | 7 | 0 | 26-Aug-16 A | 02-Sep-16 A |
| WB-3030 | Functioning of Newly Laid Pipeline (CHB 100 - 360) | 1 | 0 | 02-Sep-16 A | 02-Sep-16 A |
| WB-4000 | Pressure Test for CHB (CHB 360 - 570) | 14 | 14 | 29-Jul-17 | 14-Aug-17 |
| WB-4010 | Cleaning & Sterilization (CHB 360 - 570) | 14 | 14 | 15-Aug-17 | 30-Aug-17 |
| WB-4020 | Water Sampling (CHB 360 - 570) | 7 | 7 | 31-Aug-17 | 07-Sep-17 |
| WB-4030 | Functioning of Newly Laid Pipeline (CHB 360 - 570) | 0 | 0 | | 07-Sep-17 |
| ***DN1200 Water Mains (CHC)*** | | 1100 | 147 | 20-Feb-14 A | 17-Nov-17 |
| WC-1000A | Pipe Laying - CHC 0 - 8 (DN1200) at interface point in SBZ, 8m | 5 | 0 | 25-Apr-16 A | 30-Apr-16 A |
| WC-1000B | Pipe Laying - CHC 8 - 70 (DN1200) near Realigned TWSR West (TWSRW: CH100-155), 70m long & 3m depth | 28 | 28 | 10-Jun-17 | 13-Jul-17 |
| WC-1010 | Pipe Laying CHC 70 - 100 (DN1200) along existing TWSRW, 20m long & 3m depth | 35 | 35 | 14-Jul-17 | 23-Aug-17 |
| WC-1020 | Jacking Pit for Twins DN1200 (CHC) at existing TWSRW | 60 | 0 | 30-Jun-14 A | 19-Aug-14 A |
| WC-1030 | Construction of IT inspection tee chamber(s) near the Jacking Pits | 50 | 50 | 24-Aug-17 | 23-Oct-17 |
| WC-1030A | Excavation - CHC 100 - 155 (DN1200) across FLH by Trenchless Method, 110m long for 2 shafts | 169 | 0 | 19-Sep-14 A | 25-Oct-14 A |
| WC-1030B | Pipe Laying - CHC 100 - 155 (DN1200) across FLH & associated Grouting Works | 46 | 0 | 14-Nov-14 A | 14-Feb-15 A |
| WC-1040 | Receiving Pit for Twins DN1200 (CHC) | 50 | 0 | 09-Jun-14 A | 25-Sep-14 A |
| WC-1050A | Pipe Laying - CHC 155 - 200 (DN1200) near FLH S/B (FHW: CH6935-7130), 45m long, 4m depth | 120 | 0 | 15-Oct-14 A | 16-Nov-16 A |
| WC-1050B | Pipe Laying - CHC 200 - 235 (DN1200) near FLH S/B (FHW: CH6935-7130), 35m long, 4m depth | 60 | 0 | 20-Feb-14 A | 07-May-14 A |
| WC-1060A | Pipe Laying - CHC 235 - 320 (DN1200) near FLH S/B (FHW: CH7130-7200), 85m long (common trench with NB) | 85 | 0 | 20-Mar-15 A | 11-Jul-15 A |
| WC-1060B | Pipe Laying - CHC 320 - 420 (DN1200) near FLH S/B (FHW: CH7200-7290), 100m long (common trench with NB) | 95 | 0 | 12-Oct-15 A | 15-Jul-16 A |
| WC-1070A | Pipe Laying - CHC 420 - 530 (DN1200) near FLH S/B (FHW: CH7290-7380), 80m long (common trench with NB) | 77 | 0 | 07-Jun-14 A | 06-Sep-14 A |
| WC-1070B | Pipe Laying - CHC 530 - 550 (DN1200), 20m, near FLH S/B (FHW: CH7380-7470) (common trench with NB) | 25 | 25 | 30-Sep-17 | 01-Nov-17 |
| WC-1080 | Pipe Laying - CHC 550 - 600 (DN1200) near FLH S/B (FHW: CH7380-7470), 50m long (common trench with NB) | 85 | 0 | 27-Nov-14 A | 18-May-15 A |
| WC-1090A | Pipe Laying - CHC 600 - 615 (DN1200) near crossing TWSRE 15m long & 3m depth | 30 | 0 | 09-Jun-15 A | 13-Nov-15 A |
| WC-1090B | Pipe Laying - CHC 615 - 655 (DN1200), 40m, from TWSRE to IT inspection tee chamber | 21 | 21 | 25-May-17 | 19-Jun-17 |
| WC-1090C | Pipe Laying - CHC 655 - 670 (DN1200), 15m, from IT inspection tee chamber to combined valve chamber | 25 | 25 | 20-Jun-17 | 19-Jul-17 |
| WC-1090D | Pipe Laying - CHC 670 - 705 (DN1200), 35m, from combined valve chamber to DN1400 connection point | 24 | 0 | 13-Feb-17 A | 28-Feb-17 A |
| WC-1090E | Pipe Laying - CHC 705 - 730 (DN1200), 25m, near DN1400 connection point | 25 | 25 | 15-Jun-17 | 14-Jul-17 |

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- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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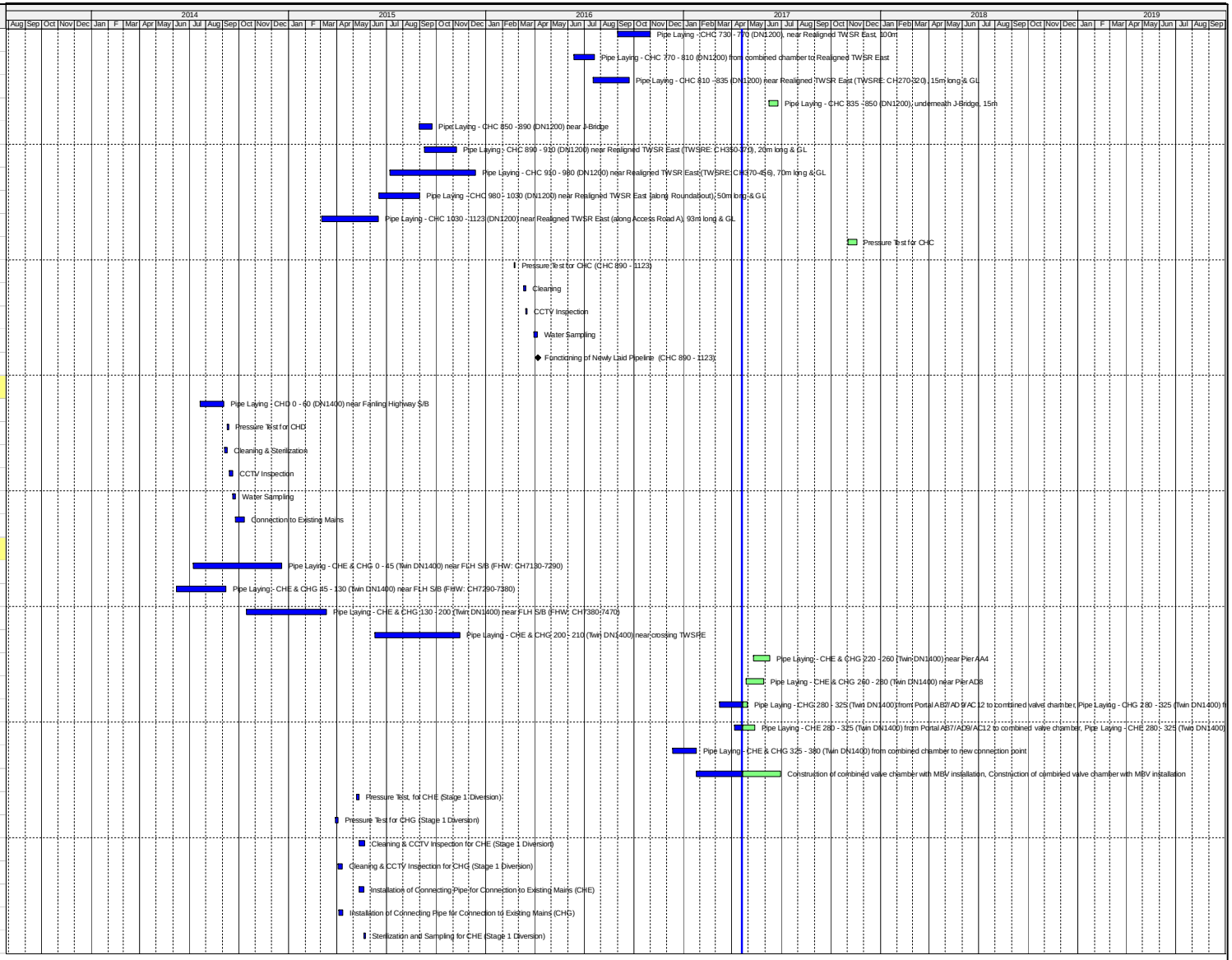
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| WC-1090F | Pipe Laying - CHC 730 - 770 (DN1200), near Realigned TWSR East, 100m | 35 | 0 | 01-Sep-16 A | 31-Oct-16 A |
| WC-1090G | Pipe Laying - CHC 770 - 810 (DN1200) from combined chamber to Realigned TWSR East | 30 | 0 | 13-Jun-16 A | 21-Jul-16 A |
| WC-1120A | Pipe Laying - CHC 810 - 835 (DN1200) near Realigned TWSR East (TWSRE: CH270-320), 15m long & GL | 25 | 0 | 18-Jul-16 A | 22-Sep-16 A |
| WC-1120B | Pipe Laying - CHC 835 - 850 (DN1200), underneath J-Bridge, 15m | 14 | 14 | 09-Jun-17 | 24-Jun-17 |
| WC-1120C | Pipe Laying - CHC 850 - 890 (DN1200) near J-Bridge | 21 | 0 | 31-Aug-15 A | 24-Sep-15 A |
| WC-1120D | Pipe Laying - CHC 890 - 910 (DN1200) near Realigned TWSR East (TWSRE: CH350-370), 20m long & GL | 50 | 0 | 10-Sep-15 A | 07-Nov-15 A |
| WC-1130 | Pipe Laying - CHC 910 - 980 (DN1200) near Realigned TWSR East (TWSRE: CH370-456), 70m long & GL | 95 | 0 | 07-Jul-15 A | 12-Dec-15 A |
| WC-1140 | Pipe Laying - CHC 980 - 1030 (DN1200) near Realigned TWSR East (along Roundabout), 50m long & GL | 62 | 0 | 17-Jun-15 A | 31-Aug-15 A |
| WC-1150 | Pipe Laying - CHC 1030 - 1123 (DN1200) near Realigned TWSR East (along Access Road A), 93m long & GL | 83 | 0 | 03-Mar-15 A | 15-Jun-15 A |
| WC-2000 | Pressure Test for CHC | 14 | 14 | 02-Nov-17 | 17-Nov-17 |
| WC-3000 | Pressure Test for CHC (CHC 890 - 1123) | 5 | 0 | 22-Feb-16 A | 24-Feb-16 A |
| WC-3010 | Cleaning | 5 | 0 | 11-Mar-16 A | 14-Mar-16 A |
| WC-3020 | CCTV Inspection | 5 | 0 | 15-Mar-16 A | 17-Mar-16 A |
| WC-3030 | Water Sampling | 5 | 0 | 30-Mar-16 A | 05-Apr-16 A |
| WC-3040 | Functioning of Newly Laid Pipeline (CHC 890 - 1123) | 0 | 0 | | 06-Apr-16 A |
| ***DN1400 Water Mains (CHD)*** | | 124 | 0 | 21-Jul-14 A | 11-Oct-14 A |
| WD-1000 | Pipe Laying - CHD 0 - 60 (DN1400) near Fanling Highway S/B | 59 | 0 | 21-Jul-14 A | 03-Sep-14 A |
| WD-2000 | Pressure Test for CHD | 3 | 0 | 10-Sep-14 A | 12-Sep-14 A |
| WD-2010 | Cleaning & Sterilization | 3 | 0 | 04-Sep-14 A | 09-Sep-14 A |
| WD-2020 | CCTV Inspection | 5 | 0 | 13-Sep-14 A | 19-Sep-14 A |
| WD-2030 | Water Sampling | 3 | 0 | 20-Sep-14 A | 24-Sep-14 A |
| WD-2040 | Connection to Existing Mains | 14 | 0 | 25-Sep-14 A | 11-Oct-14 A |
| ***Twin DN1400 Water Mains (CHE & CHG)*** | | 934 | 115 | 07-Jun-14 A | 05-Sep-17 |
| WE-1000 | Pipe Laying - CHE & CHG 0 - 45 (Twin DN1400) near FLH S/B (FHW: CH7130-7290) | 85 | 0 | 09-Jul-14 A | 19-Dec-14 A |
| WE-1010 | Pipe Laying - CHE & CHG 45 - 130 (Twin DN1400) near FLH S/B (FHW: CH7290-7380) | 90 | 0 | 07-Jun-14 A | 06-Sep-14 A |
| WE-1020 | Pipe Laying - CHE & CHG 130 - 200 (Twin DN1400) near FLH S/B (FHW: CH7380-7470) | 155 | 0 | 15-Oct-14 A | 12-Mar-15 A |
| WE-1030 | Pipe Laying - CHE & CHG 200 - 210 (Twin DN1400) near crossing TWSRE | 30 | 0 | 09-Jun-15 A | 13-Nov-15 A |
| WE-1040 | Pipe Laying - CHE & CHG 220 - 260 (Twin DN1400) near Pier AA4 | 26 | 26 | 11-May-17 | 10-Jun-17 |
| WE-1050 | Pipe Laying - CHE & CHG 260 - 280 (Twin DN1400) near Pier AD8 | 26 | 26 | 27-Apr-17 | 29-May-17 |
| WE-1060a | Pipe Laying - CHG 280 - 325 (Twin DN1400) from Portal AB7/AD9/AC12 to combined valve chamber | 33 | 9 | 09-Mar-17 A | 29-Apr-17 |
| WE-1060b | Pipe Laying - CHE 280 - 325 (Twin DN1400) from Portal AB7/AD9/AC12 to combined valve chamber | 38 | 19 | 06-Apr-17 A | 13-May-17 |
| WE-1070 | Pipe Laying - CHE & CHG 325 - 380 (Twin DN1400) from combined chamber to new connection point | 131 | 0 | 12-Dec-16 A | 25-Jan-17 A |
| WE-1080 | Construction of combined valve chamber with MBV installation | 109 | 59 | 25-Jan-17 A | 30-Jun-17 |
| WE-2000A | Pressure Test, for CHE (Stage 1 Diversion) | 5 | 0 | 06-May-15 A | 11-May-15 A |
| WE-2000B | Pressure Test for CHG (Stage 1 Diversion) | 5 | 0 | 28-Mar-15 A | 02-Apr-15 A |
| WE-2010A | Cleaning & CCTV Inspection for CHE (Stage 1 Diversion) | 10 | 0 | 12-May-15 A | 21-May-15 A |
| WE-2010B | Cleaning & CCTV Inspection for CHG (Stage 1 Diversion) | 10 | 0 | 03-Apr-15 A | 10-Apr-15 A |
| WE-2020A | Installation of Connecting Pipe for Connection to Existing Mains (CHE) | 10 | 0 | 12-May-15 A | 20-May-15 A |
| WE-2020B | Installation of Connecting Pipe for Connection to Existing Mains (CHG) | 10 | 0 | 04-Apr-15 A | 11-Apr-15 A |
| WE-2030A | Sterilization and Sampling for CHE (Stage 1 Diversion) | 3 | 0 | 21-May-15 A | 23-May-15 A |




Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
Milestone
Actual Level of Effort

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CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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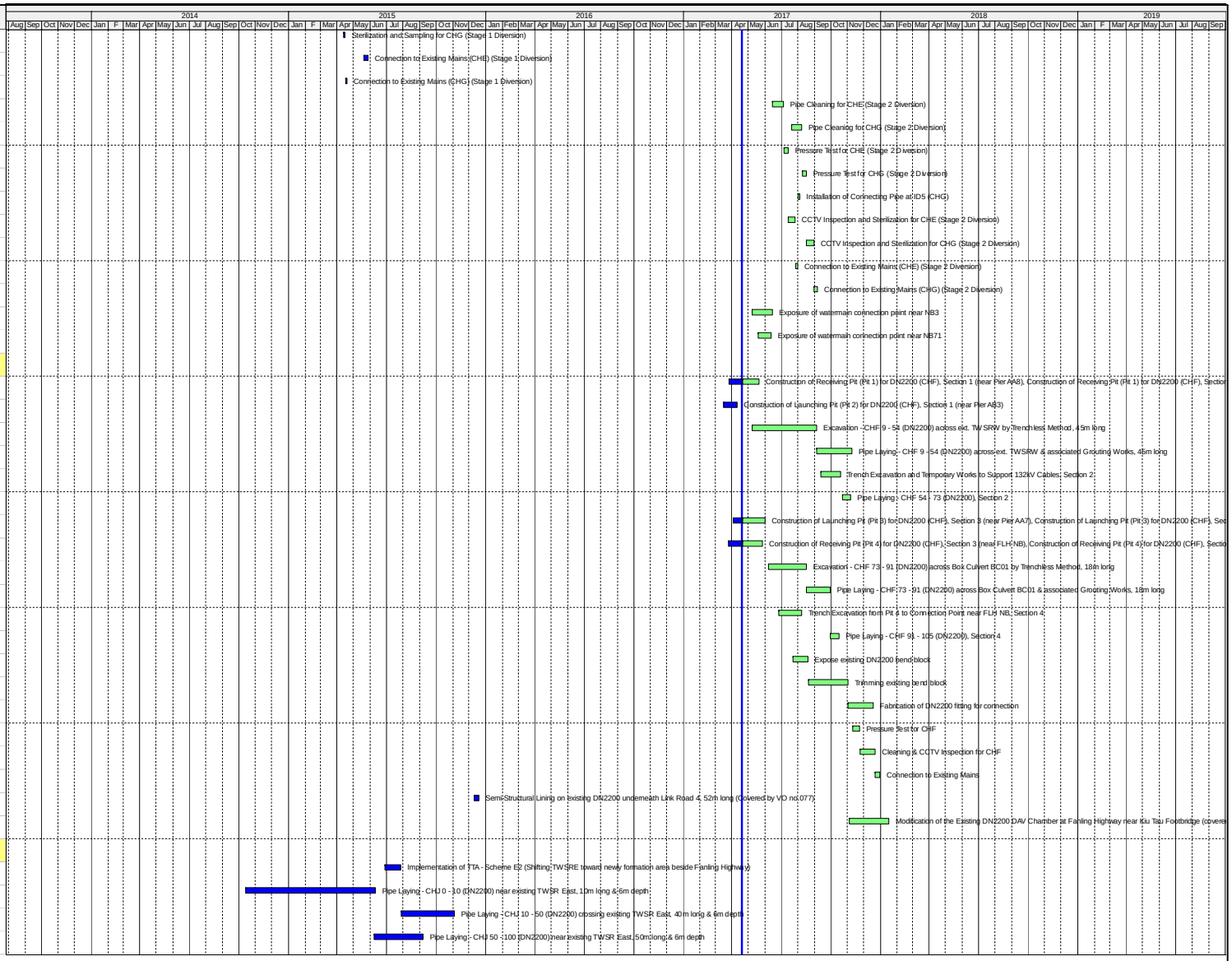
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| WE-2030B | Sterilization and Sampling for CHG (Stage 1 Diversion) | 3 | 0 | 13-Apr-15 A | 15-Apr-15 A |
| WE-2050A | Connection to Existing Mains (CHE) (Stage 1 Diversion) | 6 | 0 | 21-May-15 A | 27-May-15 A |
| WE-2050B | Connection to Existing Mains (CHG) (Stage 1 Diversion) | 6 | 0 | 16-Apr-15 A | 18-Apr-15 A |
| WE-3010A | Pipe Cleaning for CHE (Stage 2 Diversion) | 17 | 17 | 15-Jun-17 | 05-Jul-17 |
| WE-3010B | Pipe Cleaning for CHG (Stage 2 Diversion) | 17 | 17 | 20-Jul-17 | 08-Aug-17 |
| WE-3020A | Pressure Test for CHE (Stage 2 Diversion) | 7 | 7 | 06-Jul-17 | 13-Jul-17 |
| WE-3020B | Pressure Test for CHG (Stage 2 Diversion) | 7 | 7 | 09-Aug-17 | 16-Aug-17 |
| WE-3030A | Installation of Connecting Pipe at ID5 (CHG) | 4 | 4 | 01-Aug-17 | 04-Aug-17 |
| WE-3040A | CCTV Inspection and Sterilization for CHE (Stage 2 Diversion) | 11 | 11 | 14-Jul-17 | 26-Jul-17 |
| WE-3040B | CCTV Inspection and Sterilization for CHG (Stage 2 Diversion) | 12 | 12 | 17-Aug-17 | 30-Aug-17 |
| WE-3050A | Connection to Existing Mains (CHE) (Stage 2 Diversion) | 4 | 4 | 27-Jul-17 | 31-Jul-17 |
| WE-3050B | Connection to Existing Mains (CHG) (Stage 2 Diversion) | 5 | 5 | 31-Aug-17 | 05-Sep-17 |
| WE-4010 | Exposure of watermain connection point near NB3 | 32 | 32 | 08-May-17* | 14-Jun-17 |
| WE-4020 | Exposure of watermain connection point near NB71 | 20 | 20 | 19-May-17 | 12-Jun-17 |
| ***DN2200 Water Mains (CHF)*** | | 607 | 223 | 10-Dec-15 A | 16-Jan-18 |
| WF-1000A | Construction of Receiving Pit (Pit 1) for DN2200 (CHF), Section 1 (near Pier AA8) | 21 | 25 | 27-Mar-17 A | 20-May-17 |
| WF-1000B | Construction of Launching Pit (Pit 2) for DN2200 (CHF), Section 1 (near Pier AB3) | 33 | 0 | 17-Mar-17 A | 11-Apr-17 A |
| WF-1010 | Excavation - CHF 9 - 54 (DN2200) across ext. TW SRW by Trenchless Method, 45m long | 101 | 101 | 08-May-17* | 04-Sep-17 |
| WF-1020 | Pipe Laying - CHF 9 - 54 (DN2200) across ext. TWSRW & associated Grouting Works, 45m long | 54 | 54 | 05-Sep-17 | 09-Nov-17 |
| WF-1030 | Trench Excavation and Temporary Works to Support 132kV Cables, Section 2 | 30 | 30 | 12-Sep-17 | 18-Oct-17 |
| WF-1040 | Pipe Laying - CHF 54 - 73 (DN2200), Section 2 | 12 | 12 | 23-Oct-17 | 06-Nov-17 |
| WF-1050 A | Construction of Launching Pit (Pit 3) for DN2200 (CHF), Section 3 (near Pier AA7) | 33 | 33 | 03-Apr-17 A | 31-May-17 |
| WF-1050 B | Construction of Receiving Pit (Pit 4) for DN2200 (CHF), Section 3 (near FLH NB) | 30 | 30 | 25-Mar-17 A | 26-May-17 |
| WF-1060 | Excavation - CHF 73 - 91 (DN2200) across Box Culvert BC01 by Trenchless Method, 18m long | 60 | 60 | 07-Jun-17 | 16-Aug-17 |
| WF-1070 | Pipe Laying - CHF 73 - 91 (DN2200) across Box Culvert BC01 & associated Grouting Works, 18m long | 38 | 38 | 17-Aug-17 | 29-Sep-17 |
| WF-1080 | Trench Excavation from Pit 4 to Connection Point near FLH NB, Section 4 | 36 | 36 | 26-Jun-17 | 07-Aug-17 |
| WF-1090 | Pipe Laying - CHF 91 - 105 (DN2200), Section 4 | 12 | 12 | 30-Sep-17 | 16-Oct-17 |
| WF-1100 | Expose existing DN2200 bend block | 25 | 25 | 22-Jul-17 | 19-Aug-17 |
| WF-1110 | Trimming existing bend block | 60 | 60 | 21-Aug-17 | 01-Nov-17 |
| WF-1120 | Fabrication of DN2200 fitting for connection | 40 | 40 | 02-Nov-17 | 18-Dec-17 |
| WF-2000 | Pressure Test for CHF | 12 | 12 | 10-Nov-17 | 23-Nov-17 |
| WF-2010 | Cleaning & CCTV Inspection for CHF | 24 | 24 | 24-Nov-17 | 21-Dec-17 |
| WF-2030 | Connection to Existing Mains | 6 | 6 | 22-Dec-17* | 30-Dec-17* |
| WF-3000 | Semi-Structural Lining on existing DN2200 underneath Link Road 4, 52m long (Covered by VO no.077) | 25 | 0 | 10-Dec-15 A | 19-Dec-15 A |
| WF-4000 | Modification of the Existing DN2200 DAV Chamber at Fanling Highway near Kiu Tau Footbridge (covered by VO no.50) | 60 | 60 | 04-Nov-17 | 16-Jan-18 |
| ***DN2300 Water Mains and Leakage Collection System (CHJ & CHKA/CHK)*** | | 431 | 0 | 20-Jun-14 A | 24-Dec-15 A |
| WJ-1000 | Implementation of TTA - Scheme E2 (Shifting TWSRE toward newly formation area beside Fanling Highway) | 17 | 0 | 29-Jun-15 A | 27-Jul-15 A |
| WJ-1010A | Pipe Laying - CHJ 0 - 10 (DN2200) near existing TWSR East, 10m long & 6m depth | 90 | 0 | 13-Oct-14 A | 10-Jun-15 A |
| WJ-1010B | Pipe Laying - CHJ 10 - 50 (DN2200) crossing existing TWSR East, 40m long & 6m depth | 78 | 0 | 28-Jul-15 A | 03-Nov-15 A |
| WJ-1010C | Pipe Laying - CHJ 50 - 100 (DN2200) near existing TWSR East, 50m long & 6m depth | 75 | 0 | 08-Jun-15 A | 07-Sep-15 A |




Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
Milestone
Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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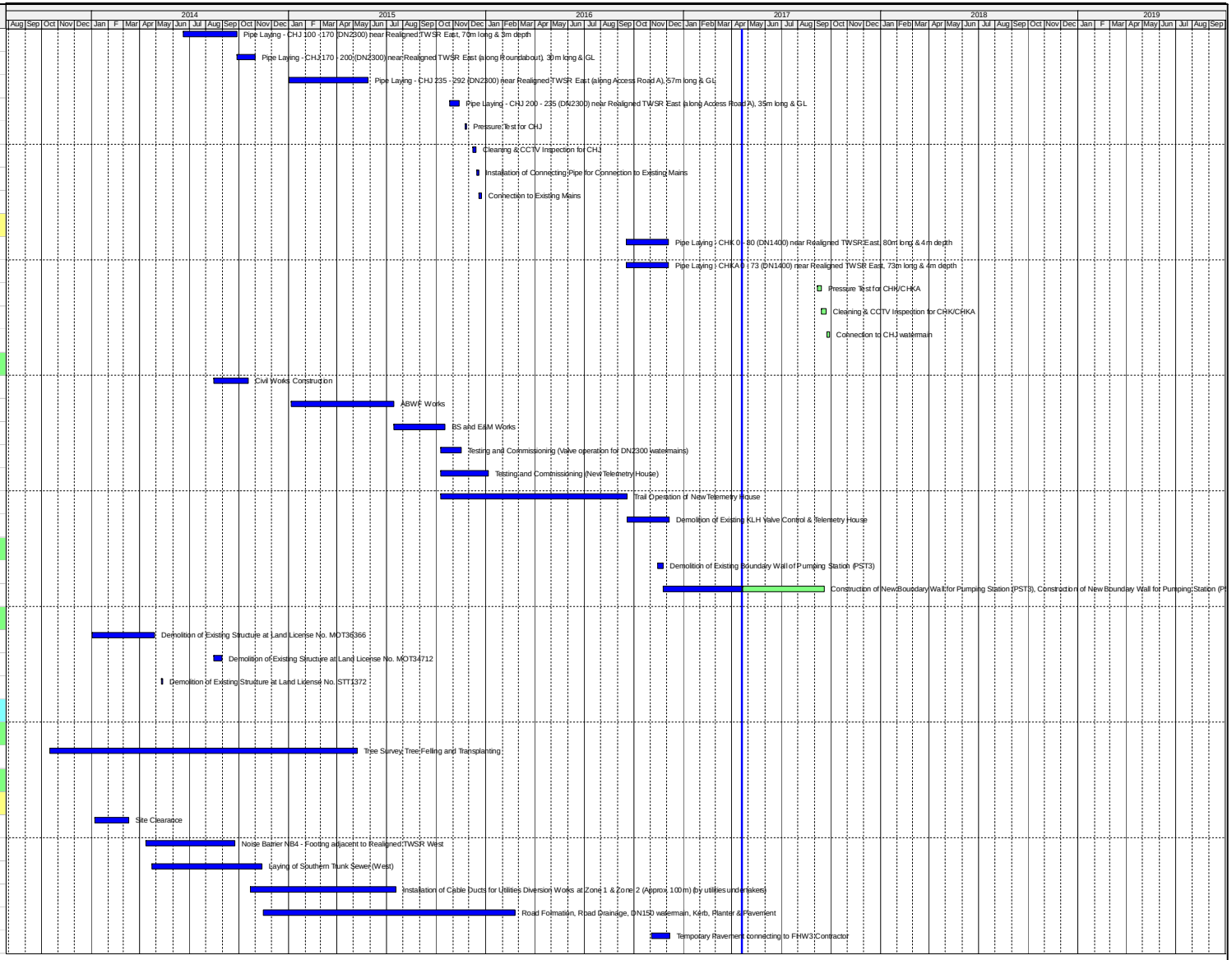
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| WJ-1030 | Pipe Laying - CHJ 100 - 170 (DN2300) near Realigned TWSR East, 70m long & 3m depth | 75 | 0 | 20-Jun-14 A | 27-Sep-14 A |
| WJ-1040 | Pipe Laying - CHJ 170 - 200 (DN2300) near Realigned TWSR East (along Roundabout), 30m long & GL | 55 | 0 | 27-Sep-14 A | 31-Oct-14 A |
| WJ-1050A | Pipe Laying - CHJ 235 - 292 (DN2300) near Realigned TWSR East (along Access Road A), 57m long & GL | 68 | 0 | 02-Jan-15 A | 28-May-15 A |
| WJ-1050B | Pipe Laying - CHJ 200 - 235 (DN2300) near Realigned TWSR East (along Access Road A), 35m long & GL | 14 | 0 | 26-Oct-15 A | 12-Nov-15 A |
| WJ-2000 | Pressure Test for CHJ | 7 | 0 | 24-Nov-15 A | 26-Nov-15 A |
| WJ-2010 | Cleaning & CCTV Inspection for CHJ | 7 | 0 | 08-Dec-15 A | 14-Dec-15 A |
| WJ-2020 | Installation of Connecting Pipe for Connection to Existing Mains | 13 | 0 | 15-Dec-15 A | 19-Dec-15 A |
| WJ-2030 | Connection to Existing Mains | 7 | 0 | 19-Dec-15 A | 24-Dec-15 A |
| ***DN1400 Water Mains (CHK & CHKA)*** | | 570 | 20 | 17-Sep-16 A | 28-Sep-17 |
| WK-1010 | Pipe Laying - CHK 0 - 80 (DN1400) near Realigned TWSR East, 80m long & 4m depth | 55 | 0 | 17-Sep-16 A | 05-Dec-16 A |
| WK-1020 | Pipe Laying - CHKA 0 - 73 (DN1400) near Realigned TWSR East, 73m long & 4m depth | 90 | 0 | 17-Sep-16 A | 05-Dec-16 A |
| WK-2010 | Pressure Test for CHK/CHKA | 7 | 7 | 06-Sep-17 | 13-Sep-17 |
| WK-2020 | Cleaning & CCTV Inspection for CHK/CHKA | 8 | 8 | 14-Sep-17 | 22-Sep-17 |
| WK-2030 | Connection to CHJ watermain | 5 | 5 | 23-Sep-17 | 28-Sep-17 |
| ***Kau Lung Hang Valve Control & Telemetry House Reprovision*** | | 690 | 0 | 15-Aug-14 A | 06-Dec-16 A |
| VCTH-1000 | Civil Works Construction | 75 | 0 | 15-Aug-14 A | 18-Oct-14 A |
| VCTH-1010 | ABWF Works | 70 | 0 | 06-Jan-15 A | 14-Jul-15 A |
| VCTH-1020 | BS and E&M Works | 30 | 0 | 15-Jul-15 A | 17-Oct-15 A |
| VCTH-1030 | Testing and Commissioning (Valve operation for DN2300 watermains) | 30 | 0 | 10-Oct-15 A | 16-Nov-15 A |
| VCTH-1040 | Testing and Commissioning (New Telemetry House) | 60 | 0 | 10-Oct-15 A | 06-Jan-16 A |
| VCTH-1050 | Trail Operation of New Telemetry House | 90 | 0 | 10-Oct-15 A | 18-Sep-16 A |
| VCTH-1060 | Demolition of Existing KLH Valve Control & Telemetry House | 75 | 0 | 19-Sep-16 A | 06-Dec-16 A |
| ***Existing Nam Wa Po Trunk Sewage Pumping Station (PST3)*** | | 130 | 126 | 15-Nov-16 A | 18-Sep-17 |
| PS-1000 | Demolition of Existing Boundary Wall of Pumping Station (PST3) | 50 | 0 | 15-Nov-16 A | 24-Nov-16 A |
| PS-1010 | Construction of New Boundary Wall for Pumping Station (PST3) | 80 | 126 | 25-Nov-16 A | 18-Sep-17 |
| ***Demolition of Existing Structures*** | | 97 | 0 | 02-Jan-14 A | 30-Aug-14 A |
| DE-1000 | Demolition of Existing Structure at Land License No. MOT36366 | 20 | 0 | 02-Jan-14 A | 28-Apr-14 A |
| DE-1010 | Demolition of Existing Structure at Land License No. MOT34712 | 20 | 0 | 15-Aug-14 A | 30-Aug-14 A |
| DE-1020 | Demolition of Existing Structure at Land License No. STT1372 | 3 | 0 | 10-May-14 A | 13-May-14 A |
| ***Stage 1A - Realignment of Tai Wo Service Road West (KD-7)*** | | 1564 | 542 | 15-Oct-13 A | 22-Feb-19 |
| ***Preliminary Works*** | | 81 | 0 | 16-Oct-13 A | 08-May-15 A |
| TWSRW-1100 | Tree Survey, Tree Felling and Transplanting | 81 | 0 | 16-Oct-13 A | 08-May-15 A |
| ***TWSRW Zone 1 betweeen CH100 and CH155*** | | 872 | 0 | 07-Jan-14 A | 20-Feb-17 A |
| ***At-Grade Roadworks*** | | 872 | 0 | 07-Jan-14 A | 20-Feb-17 A |
| TWSRW-1110 | Site Clearance | 35 | 0 | 07-Jan-14 A | 11-Mar-14 A |
| TWSRW-1120 | Noise Barrier NB4 - Footing adjacent to Realigned TWSR West | 85 | 0 | 12-Apr-14 A | 23-Sep-14 A |
| TWSRW-1130 | Laying of Southern Trunk Sewer (West) | 95 | 0 | 23-Apr-14 A | 12-Nov-14 A |
| TWSRW-1140 | Installation of Cable Ducts for Utilities Diversion Works at Zone 1 & Zone 2 (Approx. 100m) (by utilities undertakers) | 167 | 0 | 22-Oct-14 A | 18-Jul-15 A |
| TWSRW-1150 | Road Formation, Road Drainage, DN150 watermain, Kerb, Planter & Pavement | 286 | 0 | 15-Nov-14 A | 23-Feb-16 A |
| TWSRW-1160 | Temporary Pavement connecting to FHW3 Contractor | 28 | 0 | 03-Nov-16 A | 07-Dec-16 A |

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CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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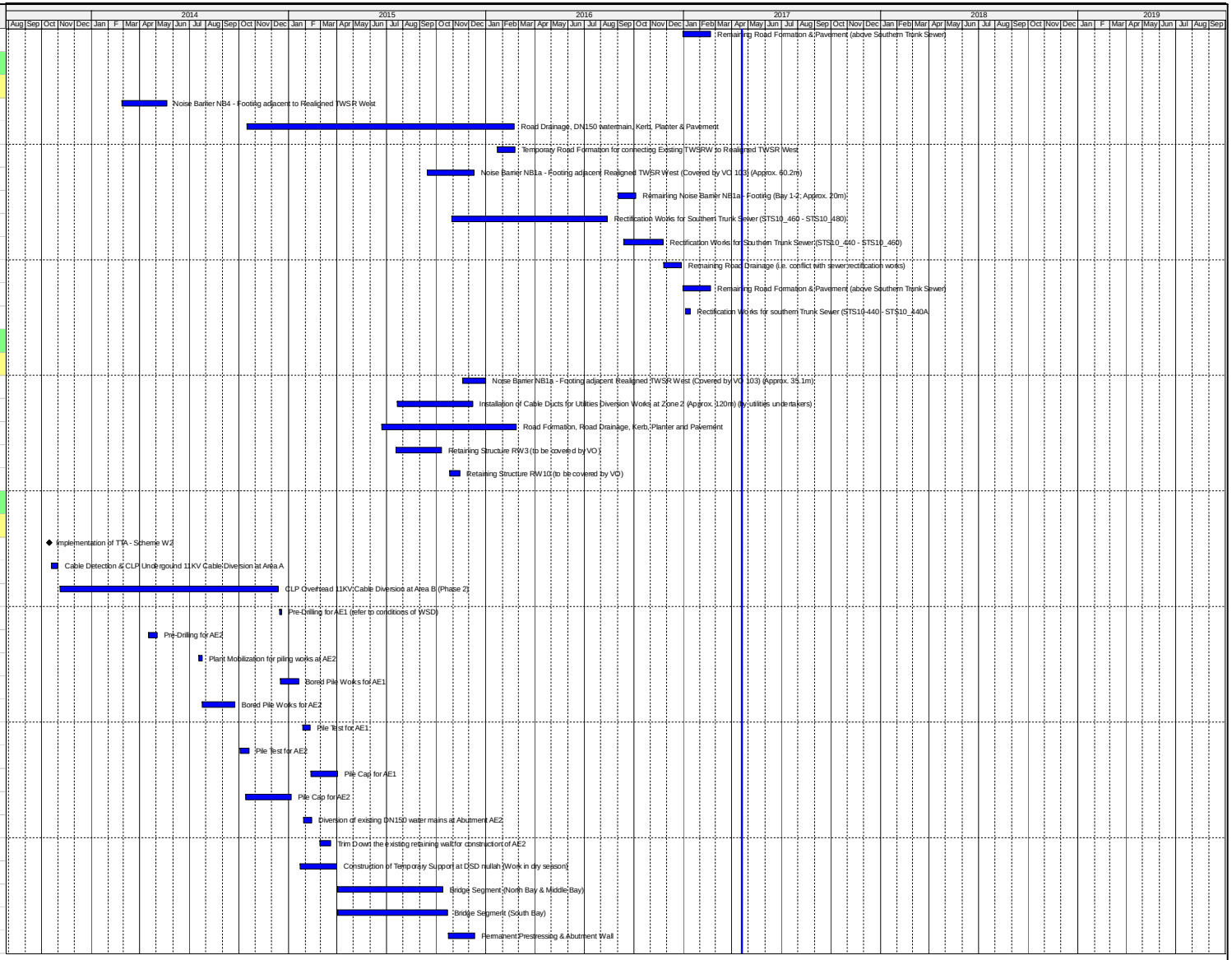
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| TWSRW-1170 | Remaining Road Formation & Pavement (above Southern Trunk Sewer) | 30 | 0 | 31-Dec-16 A | 20-Feb-17 A |
| ***TWSRW Zone 2 between CH155 and CH280*** | | 865 | 0 | 26-Feb-14 A | 20-Feb-17 A |
| ***At-Grade Roadworks*** | | 865 | 0 | 26-Feb-14 A | 20-Feb-17 A |
| TWSRW-2110 | Noise Barrier NB4 - Footing adjacent to Realigned TWSR West | 85 | 0 | 26-Feb-14 A | 20-May-14 A |
| TWSRW-2120A | Road Drainage, DN150 watermain, Kerb, Planter & Pavement | 165 | 0 | 16-Oct-14 A | 22-Feb-16 A |
| TWSRW-2120B | Temporary Road Formation for connecting Existing TWSRW to Realigned TWSR West | 18 | 0 | 22-Jan-16 A | 24-Feb-16 A |
| TWSRW-2130A | Noise Barrier NB1a - Footing adjacent Realigned TWSR West (Covered by VO 103) (Approx. 60.2m) | 85 | 0 | 14-Sep-15 A | 10-Dec-15 A |
| TWSRW-2130B | Remaining Noise Barrier NB1a - Footing (Bay 1-2; Approx. 20m) | 50 | 0 | 02-Sep-16 A | 05-Oct-16 A |
| TWSRW-2140 | Rectification Works for Southern Trunk Sewer (STS10_460 - STS10_480) | 120 | 0 | 30-Oct-15 A | 13-Aug-16 A |
| TWSRW-2150 | Rectification Works for Southern Trunk Sewer (STS10_440 - STS10_460) | 58 | 0 | 12-Sep-16 A | 25-Nov-16 A |
| TWSRW-2160A | Remaining Road Drainage (i.e. conflict with sewer rectification works) | 25 | 0 | 26-Nov-16 A | 29-Dec-16 A |
| TWSRW-2160B | Remaining Road Formation & Pavement (above Southern Trunk Sewer) | 30 | 0 | 31-Dec-16 A | 20-Feb-17 A |
| TWSRW-2170 | Rectification Works for southern Trunk Sewer (STS10-440 - STS10_440A | 5 | 0 | 05-Jan-17 A | 14-Jan-17 A |
| ***TWSRW Zone 3 between CH280 and CH315*** | | 181 | 0 | 22-Jun-15 A | 26-Feb-16 A |
| ***At-Grade Roadworks*** | | 181 | 0 | 22-Jun-15 A | 26-Feb-16 A |
| TWSRW-3100 | Noise Barrier NB1a - Footing adjacent Realigned TWSR West (Covered by VO 103) (Approx. 35.1m) | 26 | 0 | 19-Nov-15 A | 31-Dec-15 A |
| TWSRW-3110 | Installation of Cable Ducts for Utilities Diversion Works at Zone 2 (Approx. 120m) (by utilities undertakers) | 111 | 0 | 21-Jul-15 A | 07-Dec-15 A |
| TWSRW-3120 | Road Formation, Road Drainage, Kerb, Planter and Pavement | 181 | 0 | 22-Jun-15 A | 26-Feb-16 A |
| TWSRW-3130 | Retaining Structure RW3 (to be covered by VO) | 85 | 0 | 18-Jul-15 A | 10-Oct-15 A |
| TWSRW-3140 | Retaining Structure RW10 (to be covered by VO) | 24 | 0 | 26-Oct-15 A | 14-Nov-15 A |
| ***TWSRW Zone 4 between CH315 and CH376*** | | 1024 | 27 | 15-Oct-13 A | 23-May-17 |
| ***Construction of Bridge E*** | | 1024 | 27 | 15-Oct-13 A | 23-May-17 |
| TWSRW-4000 | Implementation of TTA - Scheme W2 | 0 | 0 | 15-Oct-13 A | |
| TWSRW-4000A | Cable Detection & CLP Underground 11KV Cable Diversion at Area A | 10 | 0 | 19-Oct-13 A | 31-Oct-13 A |
| TWSRW-4000B | CLP Overhead 11KV Cable Diversion at Area B (Phase 2) | 140 | 0 | 04-Nov-13 A | 12-Dec-14 A |
| TWSRW-4010A | Pre-Drilling for AE1 (refer to conditions of WSD) | 15 | 0 | 15-Dec-14 A | 19-Dec-14 A |
| TWSRW-4010B | Pre-Drilling for AE2 | 12 | 0 | 17-Apr-14 A | 02-May-14 A |
| TWSRW-4020A | Plant Mobilization for piling works at AE2 | 2 | 0 | 19-Jul-14 A | 24-Jul-14 A |
| TWSRW-4030A | Bored Pile Works for AE1 | 63 | 0 | 17-Dec-14 A | 19-Jan-15 A |
| TWSRW-4030B | Bored Pile Works for AE2 | 60 | 0 | 25-Jul-14 A | 23-Sep-14 A |
| TWSRW-4040A | Pile Test for AE1 | 7 | 0 | 27-Jan-15 A | 10-Feb-15 A |
| TWSRW-4040B | Pile Test for AE2 | 7 | 0 | 03-Oct-14 A | 20-Oct-14 A |
| TWSRW-4050A | Pile Cap for AE1 | 55 | 0 | 11-Feb-15 A | 01-Apr-15 A |
| TWSRW-4050B | Pile Cap for AE2 | 55 | 0 | 13-Oct-14 A | 06-Jan-15 A |
| TWSRW-4050C | Diversion of existing DN150 water mains at Abutment AE2 | 5 | 0 | 29-Jan-15 A | 12-Feb-15 A |
| TWSRW-4050D | Trim Down the existing retaining wall for construction of AE2 | 29 | 0 | 28-Feb-15 A | 19-Mar-15 A |
| TWSRW-4060 | Construction of Temporary Support at DSD nullah (Work in dry season) | 55 | 0 | 22-Jan-15 A | 31-Mar-15 A |
| TWSRW-4070 | Bridge Segment (North Bay & Middle Bay) | 80 | 0 | 01-Apr-15 A | 13-Oct-15 A |
| TWSRW-4080 | Bridge Segment (South Bay) | 80 | 0 | 01-Apr-15 A | 22-Oct-15 A |
| TWSRW-4090 | Permanent Prestressing & Abutment Wall | 28 | 0 | 23-Oct-15 A | 11-Dec-15 A |

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- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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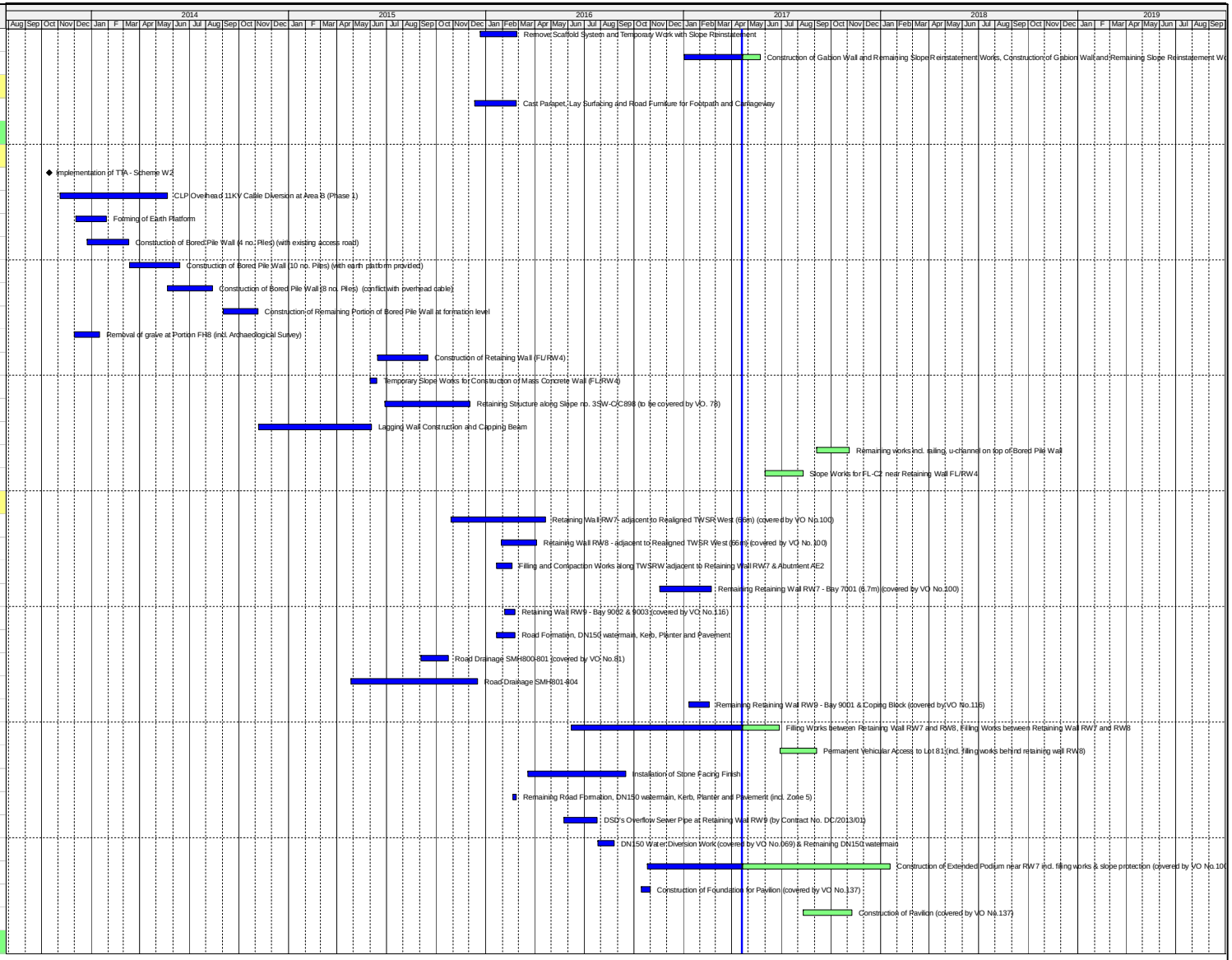
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| TWSRW-4100A | Remove Scaffold System and Temporary Work with Slope Reinstatement | 75 | 0 | 21-Dec-15 A | 27-Feb-16 A |
| TWSRW-4100C | Construction of Gabion Wall and Remaining Slope Reinstatement Works | 68 | 27 | 03-Jan-17 A | 23-May-17 |
| ***At-Grade Roadworks*** | | 35 | 0 | 12-Dec-15 A | 26-Feb-16 A |
| TWSRW-4200 | Cast Parapet, Lay Surfacing and Road Furniture for Footpath and Carriageway | 35 | 0 | 12-Dec-15 A | 26-Feb-16 A |
| ***TWSRW Zone 5 between CH376 and CH520*** | | 1190 | 225 | 15-Oct-13 A | 18-Jan-18 |
| ***Construction of Retaining Structures*** | | 1186 | 131 | 15-Oct-13 A | 04-Nov-17 |
| TWSRW-5000 | Implementation of TTA - Scheme W2 | 0 | 0 | 15-Oct-13 A | |
| TWSRW-5030 | CLP Overhead 11KV Cable Diversion at Area B (Phase 1) | 140 | 0 | 04-Nov-13 A | 21-May-14 A |
| TWSRW-5040 | Forming of Earth Platform | 40 | 0 | 03-Dec-13 A | 28-Jan-14 A |
| TWSRW-5050A | Construction of Bored Pile Wall (4 no. Piles) (with existing access road) | 48 | 0 | 24-Dec-13 A | 11-Mar-14 A |
| TWSRW-5050B | Construction of Bored Pile Wall (10 no. Piles) (with earth platform provided) | 80 | 0 | 12-Mar-14 A | 13-Jun-14 A |
| TWSRW-5050C | Construction of Bored Pile Wall (8 no. Piles) (conflict with overhead cable) | 94 | 0 | 22-May-14 A | 13-Aug-14 A |
| TWSRW-5050D | Construction of Remaining Portion of Bored Pile Wall at formation level | 85 | 0 | 02-Sep-14 A | 05-Nov-14 A |
| TWSRW-5060 | Removal of grave at Portion FH8 (incl. Archaeological Survey) | 25 | 0 | 30-Nov-13 A | 16-Jan-14 A |
| TWSRW-5070 | Construction of Retaining Wall (FL/RW4) | 70 | 0 | 15-Jun-15 A | 15-Sep-15 A |
| TWSRW-5070a | Temporary Slope Works for Construction of Mass Concrete Wall (FL/RW4) | 14 | 0 | 01-Jun-15 A | 13-Jun-15 A |
| TWSRW-5080 | Retaining Structure along Slope no. 3SW-C/C898 (to be covered by VO. 78) | 50 | 0 | 29-Jun-15 A | 03-Dec-15 A |
| TWSRW-5090 | Lagging Wall Construction and Capping Beam | 160 | 0 | 06-Nov-14 A | 03-Jun-15 A |
| TWSRW-5120 | Remaining works incl. railing, u-channel on top of Bored Pile Wall | 50 | 50 | 05-Sep-17 | 04-Nov-17 |
| TWSRW-5150 | Slope Works for FL-C2 near Retaining Wall FL/RW4 | 60 | 60 | 01-Jun-17 | 10-Aug-17 |
| ***At-Grade Roadworks*** | | 670 | 225 | 27-Apr-15 A | 18-Jan-18 |
| TWSRW-5100 | Retaining Wall RW7- adjacent to Realigned TWSR West (66m) (covered by VO No.100) | 70 | 0 | 29-Oct-15 A | 20-Apr-16 A |
| TWSRW-5100A | Retaining Wall RW8 - adjacent to Realigned TWSR West (66m) (covered by VO No.100) | 50 | 0 | 29-Jan-16 A | 04-Apr-16 A |
| TWSRW-5100B | Filling and Compaction Works along TWSRW adjacent to Retaining Wall RW7 & Abutment AE2 | 12 | 0 | 21-Jan-16 A | 19-Feb-16 A |
| TWSRW-5100C | Remaining Retaining Wall RW7 - Bay 7001 (6.7m) (covered by VO No.100) | 30 | 0 | 18-Nov-16 A | 22-Feb-17 A |
| TWSRW-5110 | Retaining Wall RW9 - Bay 9002 & 9003 (covered by VO No.116) | 45 | 0 | 05-Feb-16 A | 24-Feb-16 A |
| TWSRW-5110A | Road Formation, DN150 watermain, Kerb, Planter and Pavement | 19 | 0 | 21-Jan-16 A | 23-Feb-16 A |
| TWSRW-5110B | Road Drainage SMH800-801 (covered by VO No.81) | 36 | 0 | 03-Sep-15 A | 23-Oct-15 A |
| TWSRW-5110C | Road Drainage SMH801-804 | 80 | 0 | 27-Apr-15 A | 16-Dec-15 A |
| TWSRW-5110D | Remaining Retaining Wall RW9 - Bay 9001 & Coping Block (covered by VO No.116) | 55 | 0 | 11-Jan-17 A | 18-Feb-17 A |
| TWSRW-5120A | Filling Works between Retaining Wall RW7 and RW8 | 192 | 56 | 07-Jun-16 A | 27-Jun-17 |
| TWSRW-5120B | Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8) | 58 | 58 | 28-Jun-17 | 04-Sep-17 |
| TWSRW-5130 | Installation of Stone Facing Finish | 75 | 0 | 19-Mar-16 A | 15-Sep-16 A |
| TWSRW-5140 | Remaining Road Formation, DN150 watermain, Kerb, Planter and Pavement (incl. Zone 5) | 24 | 0 | 20-Feb-16 A | 26-Feb-16 A |
| TWSRW-5150A | DSD's Overflow Sewer Pipe at Retaining Wall RW9 (by Contract No. DC/2013/01) | 26 | 0 | 25-May-16 A | 25-Jul-16 A |
| TWSRW-5150B | DN150 Water Diversion Work (covered by VO No.069) & Remaining DN150 watermain | 26 | 0 | 26-Jul-16 A | 25-Aug-16 A |
| TWSRW-5160 | Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100) | 85 | 225 | 27-Oct-16 A | 18-Jan-18 |
| TWSRW-5170a | Construction of Foundation for Pavilion (covered by VO No.137) | 5 | 0 | 15-Oct-16 A | 31-Oct-16 A |
| TWSRW-5170b | Construction of Pavilion (covered by VO No.137) | 75 | 75 | 11-Aug-17 | 09-Nov-17 |
| ***TWSRW Zone 6 between CH520 and CH530*** | | 1160 | 45 | 07-Jan-14 A | 06-Mar-18 |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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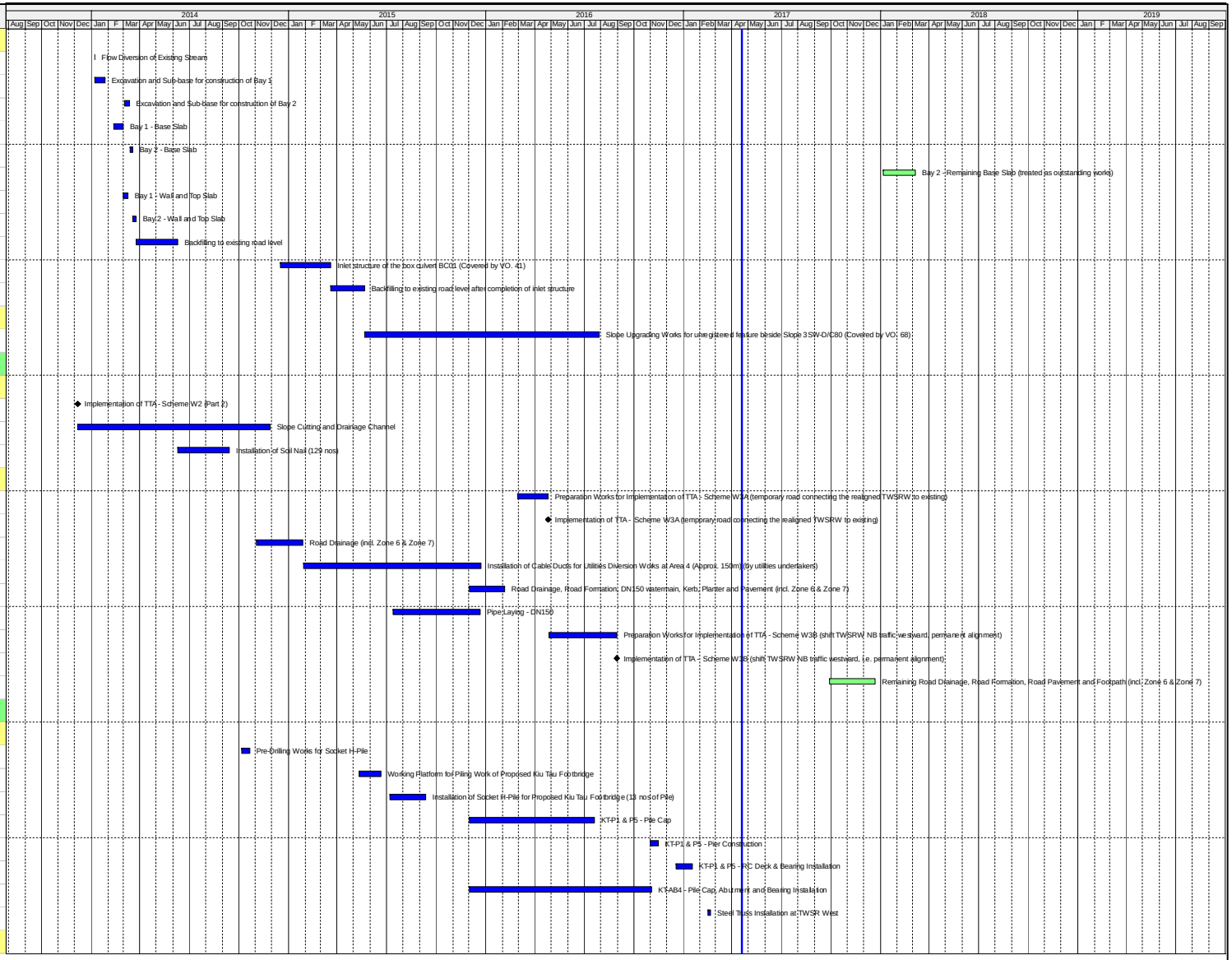
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| **Box Culvert Extension - BC01** | | 1160 | 45 | 07-Jan-14 A | 06-Mar-18 |
| TWSRW-6000 | Flow Diversion of Existing Stream | 4 | 0 | 07-Jan-14 A | 07-Jan-14 A |
| TWSRW-6010A | Excavation and Sub-base for construction of Bay 1 | 5 | 0 | 07-Jan-14 A | 25-Jan-14 A |
| TWSRW-6010B | Excavation and Sub-base for construction of Bay 2 | 18 | 0 | 04-Mar-14 A | 12-Mar-14 A |
| TWSRW-6020 | Bay 1 - Base Slab | 14 | 0 | 11-Feb-14 A | 28-Feb-14 A |
| TWSRW-6030 | Bay 2 - Base Slab | 14 | 0 | 13-Mar-14 A | 18-Mar-14 A |
| TWSRW-6030B | Bay 2 - Remaining Base Slab (treated as outstanding works) | 45 | 45 | 06-Jan-18* | 06-Mar-18* |
| TWSRW-6040 | Bay 1 - Wall and Top Slab | 18 | 0 | 01-Mar-14 A | 10-Mar-14 A |
| TWSRW-6050 | Bay 2 - Wall and Top Slab | 11 | 0 | 19-Mar-14 A | 25-Mar-14 A |
| TWSRW-6060 | Backfilling to existing road level | 55 | 0 | 25-Mar-14 A | 09-Jun-14 A |
| TWSRW-6070 | Inlet structure of the box culvert BC01 (Covered by VO. 41) | 70 | 0 | 17-Dec-14 A | 19-Mar-15 A |
| TWSRW-6080 | Backfilling to existing road level after completion of inlet structure | 72 | 0 | 20-Mar-15 A | 21-May-15 A |
| **At-Grade Roadworks** | | 90 | 0 | 22-May-15 A | 28-Jul-16 A |
| TWSRW-6110 | Slope Upgrading Works for unregistered feature beside Slope 3SW-D/C80 (Covered by VO. 68) | 90 | 0 | 22-May-15 A | 28-Jul-16 A |
| **TWSRW Zone 7 betweeen CH530 and CH640** | | 1130 | 70 | 06-Dec-13 A | 22-Dec-17 |
| **Construction of Retaining Structures** | | 235 | 0 | 06-Dec-13 A | 27-Nov-14 A |
| TWSRW-7000 | Implementation of TTA - Scheme W2 (Part 2) | 0 | 0 | 06-Dec-13 A | |
| TWSRW-7010 | Slope Cutting and Drainage Channel | 235 | 0 | 06-Dec-13 A | 27-Nov-14 A |
| TWSRW-7020 | Installation of Soil Nail (129 nos) | 40 | 0 | 10-Jun-14 A | 13-Sep-14 A |
| **At-Grade Roadworks** | | 833 | 70 | 03-Nov-14 A | 22-Dec-17 |
| TWSRW-7100 | Preparation Works for Implementation of TTA - Scheme W3A (temporary road connecting the realigned TWSRW to existing) | 45 | 0 | 29-Feb-16 A | 25-Apr-16 A |
| TWSRW-7110 | Implementation of TTA - Scheme W3A (temporary road connecting the realigned TWSRW to existing) | 0 | 0 | 26-Apr-16 A | |
| TWSRW-7130 | Road Drainage (incl. Zone 6 & Zone 7) | 80 | 0 | 03-Nov-14 A | 27-Jan-15 A |
| TWSRW-7140 | Installation of Cable Ducts for Utilities Diversion Works at Area 4 (Approx. 150m) (by utilities undertakers) | 233 | 0 | 28-Jan-15 A | 23-Dec-15 A |
| TWSRW-7150 | Road Drainage, Road Formation, DN150 watermain, Kerb, Planter and Pavement (incl. Zone 6 & Zone 7) | 49 | 0 | 01-Dec-15 A | 04-Feb-16 A |
| TWSRW-7160 | Pipe Laying - DN150 | 70 | 0 | 13-Jul-15 A | 21-Dec-15 A |
| TWSRW-7170 | Preparation Works for Implementation of TTA - Scheme W3B (shift TWSRW NB traffic westward, permanent alignment) | 90 | 0 | 27-Apr-16 A | 30-Aug-16 A |
| TWSRW-7180 | Implementation of TTA - Scheme W3B (shift TWSRW NB traffic westward, i.e. permanent alignment) | 0 | 0 | 31-Aug-16 A | |
| TWSRW-7190 | Remaining Road Drainage, Road Formation, Road Pavement and Footpath (incl. Zone 6 & Zone 7) | 70 | 70 | 29-Sep-17 | 22-Dec-17 |
| **TWSRW Zone 8 betweeen CH640 and CH695** | | 800 | 103 | 06-Oct-14 A | 02-Feb-18 |
| **Kiu Tau Footbridge Reprovision (West)** | | 527 | 0 | 06-Oct-14 A | 20-Feb-17 A |
| TWSRW-8000 | Pre-Drilling Works for Socket H-Pile | 7 | 0 | 06-Oct-14 A | 21-Oct-14 A |
| TWSRW-8010A | Working Platform for Piling Work of Proposed Kiu Tau Footbridge | 24 | 0 | 11-May-15 A | 20-Jun-15 A |
| TWSRW-8010B | Installation of Socket H-Pile for Proposed Kiu Tau Footbridge (13 nos of Pile) | 75 | 0 | 07-Jul-15 A | 11-Sep-15 A |
| TWSRW-8020A | KT-P1 & P5 - Pile Cap | 85 | 0 | 02-Dec-15 A | 20-Jul-16 A |
| TWSRW-8020A10 | KT-P1 & P5 - Pier Construction | 28 | 0 | 01-Nov-16 A | 16-Nov-16 A |
| TWSRW-8020A20 | KT-P1 & P5 - RC Deck & Bearing Installation | 30 | 0 | 19-Dec-16 A | 18-Jan-17 A |
| TWSRW-8030 | KT-AB4 - Pile Cap, Abutment and Bearing Installation | 36 | 0 | 02-Dec-15 A | 03-Nov-16 A |
| TWSRW-8040 | Steel Truss Installation at TWSR West | 4 | 0 | 16-Feb-17 A | 20-Feb-17 A |
| **At-Grade Roadworks** | | 598 | 103 | 21-Dec-15 A | 02-Feb-18 |

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**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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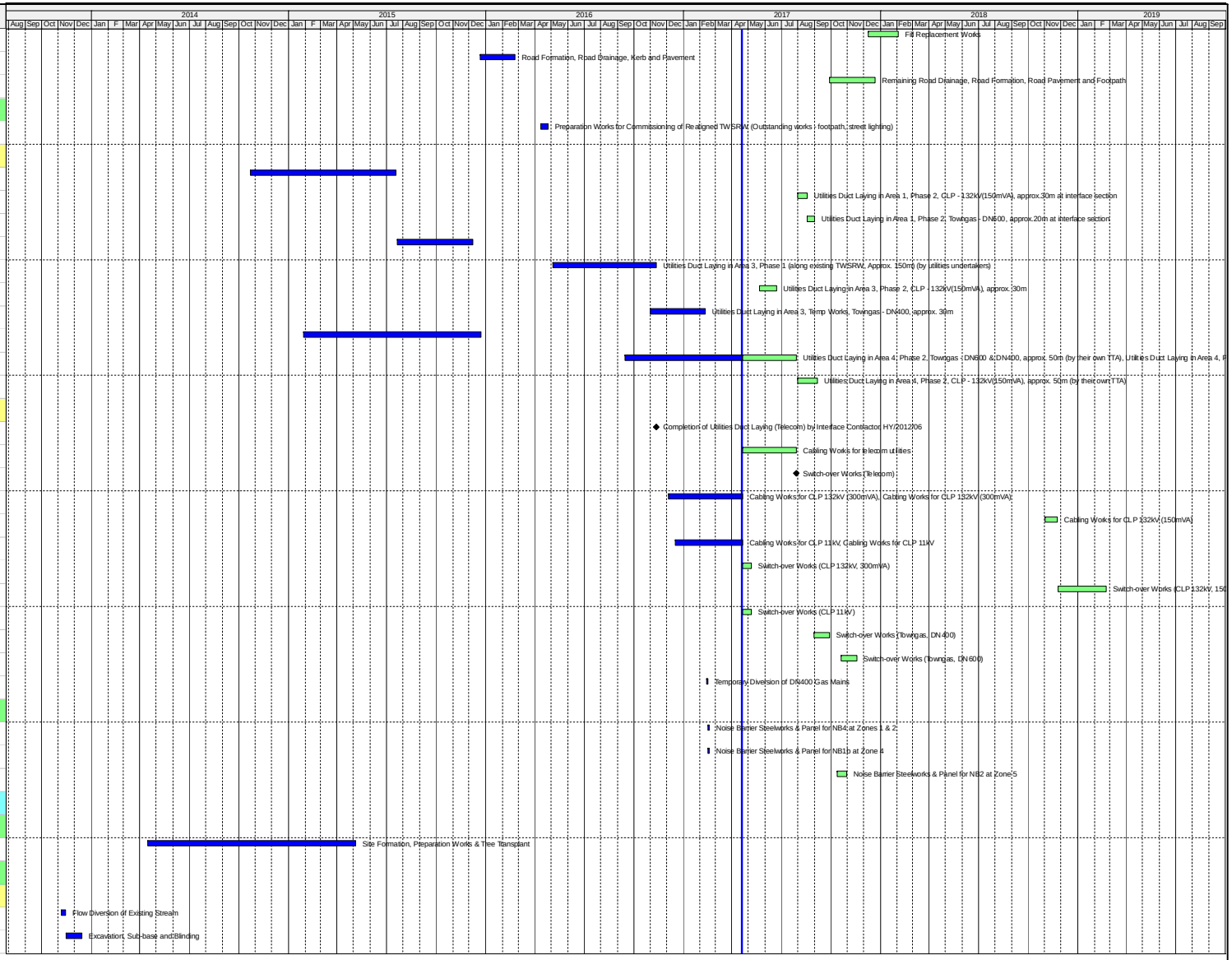
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| TWSRW-8100 | Fill Replacement Works | 45 | 45 | 09-Dec-17 | 02-Feb-18 |
| TWSRW-8120A | Road Formation, Road Drainage, Kerb and Pavement | 22 | 0 | 21-Dec-15 A | 23-Feb-16 A |
| TWSRW-8120B | Remaining Road Drainage, Road Formation, Road Pavement and Footpath | 70 | 70 | 29-Sep-17 | 22-Dec-17 |
| ***Remainder of the Works*** | | 1190 | 542 | 22-Oct-14 A | 22-Feb-19 |
| TWSRW-9010 | Preparation Works for Commissioning of Realigned TWSRW (Outstanding works - footpath, street lighting) | 12 | 0 | 11-Apr-16 A | 25-Apr-16 A |
| ***Utilities Laying Works*** | | 764 | 116 | 22-Oct-14 A | 06-Sep-17 |
| UU-1010* | Utilities Duct Laying in Area 1, Phase 1 (along Re-aligned TWSRW CH100 - CH280) | 167 | 0 | 22-Oct-14 A | 18-Jul-15 A |
| UU-1010A | Utilities Duct Laying in Area 1, Phase 2, CLP - 132kV(150mVA), approx.30m at interface section | 16 | 16 | 31-Jul-17 | 17-Aug-17 |
| UU-1010B | Utilities Duct Laying in Area 1, Phase 2, Towngas - DN600, approx.20m at interface section | 13 | 13 | 18-Aug-17 | 01-Sep-17 |
| UU-1020* | Utilities Duct Laying in Area 2 (along Re-aligned TWSRW CH 280 - CH315) | 111 | 0 | 21-Jul-15 A | 07-Dec-15 A |
| UU-1030 | Utilities Duct Laying in Area 3, Phase 1 (along existing TWSRW, Approx. 150m) (by utilities undertakers) | 105 | 0 | 04-May-16 A | 12-Nov-16 A |
| UU-1030A | Utilities Duct Laying in Area 3, Phase 2, CLP - 132kV(150mVA), approx. 30m | 27 | 27 | 22-May-17 | 22-Jun-17 |
| UU-1030B | Utilities Duct Laying in Area 3, Temp Works, Towngas - DN400, approx. 30m | 25 | 0 | 01-Nov-16 A | 10-Feb-17 A |
| UU-1040* | Utilities Duct Laying in Area 4, Phase 1 (along Re-aligned TWSRW CH530 - CH640) | 233 | 0 | 28-Jan-15 A | 23-Dec-15 A |
| UU-1040A | Utilities Duct Laying in Area 4, Phase 2, Towngas - DN600 & DN400, approx. 50m (by their own TTA) | 121 | 83 | 15-Sep-16 A | 29-Jul-17 |
| UU-1040B | Utilities Duct Laying in Area 4, Phase 2, CLP - 132kV(150mVA), approx. 50m (by their own TTA) | 33 | 33 | 31-Jul-17 | 06-Sep-17 |
| ***Switch-Over of Existing Utilitiess*** | | 658 | 542 | 12-Nov-16 A | 22-Feb-19 |
| UU-SO-1000 | Completion of Utilities Duct Laying (Telecom) by Interface Contractor, HY/2012/06 | 0 | 0 | | 12-Nov-16 A |
| UU-SO-1010 | Cabling Works for telecom utilities | 101 | 101 | 20-Apr-17* | 29-Jul-17 |
| UU-SO-1500 | Switch-over Works (Telecom) | 0 | 0 | | 29-Jul-17 |
| UU-SO-2000 | Cabling Works for CLP 132kV (300mVA) | 21 | 1 | 05-Dec-16 A | 20-Apr-17 |
| UU-SO-2010 | Cabling Works for CLP 132kV (150mVA) | 21 | 21 | 01-Nov-18* | 24-Nov-18 |
| UU-SO-2020 | Cabling Works for CLP 11kV | 21 | 1 | 17-Dec-16 A | 20-Apr-17 |
| UU-SO-2500 | Switch-over Works (CLP 132kV, 300mVA) | 16 | 16 | 21-Apr-17* | 06-May-17 |
| UU-SO-2510 | Switch-over Works (CLP 132kV, 150mVA) | 90 | 90 | 25-Nov-18* | 22-Feb-19 |
| UU-SO-2520 | Switch-over Works (CLP 11kV) | 16 | 16 | 21-Apr-17* | 06-May-17 |
| UU-SO-3500 | Switch-over Works (Towngas, DN400) | 30 | 30 | 30-Aug-17* | 28-Sep-17 |
| UU-SO-3510 | Switch-over Works (Towngas, DN600) | 30 | 30 | 20-Oct-17 | 18-Nov-17* |
| UU-SO-3520 | Temporary Diversion of DN400 Gas Mains | 0 | 0 | 13-Feb-17 A | 16-Feb-17 A |
| ***Remaining Works for Noise Barrier along realigned TWSR West*** | | 198 | 15 | 15-Feb-17 A | 30-Oct-17 |
| TWSRW-NB-110 | Noise Barrier Steelworks & Panel for NB4 at Zones 1 & 2 | 4 | 0 | 15-Feb-17 A | 18-Feb-17 A |
| TWSRW-NB-130 | Noise Barrier Steelworks & Panel for NB1b at Zone 4 | 4 | 0 | 15-Feb-17 A | 18-Feb-17 A |
| TWSRW-NB-140 | Noise Barrier Steelworks & Panel for NB2 at Zone 5 | 15 | 15 | 12-Oct-17 | 30-Oct-17 |
| ***Stage N4A & N4B - Realignment of Tai Wo Service Road East (KD-13 & KD-14)*** | | 1141 | 135 | 07-Nov-13 A | 28-Sep-17 |
| ***Preliminary Works*** | | 65 | 0 | 15-Apr-14 A | 05-May-15 A |
| TWSRE-4000 | Site Formation, Preparation Works & Tree Transplant | 65 | 0 | 15-Apr-14 A | 05-May-15 A |
| ***TWSRE Zone 1 between CH100 and CH270*** | | 1141 | 125 | 07-Nov-13 A | 16-Sep-17 |
| ***Box Culvert Extension - BC02*** | | 111 | 0 | 07-Nov-13 A | 29-Jan-14 A |
| TWSRE-1000 | Flow Diversion of Existing Stream | 7 | 0 | 07-Nov-13 A | 14-Nov-13 A |
| TWSRE-1010 | Excavation, Sub-base and Blinding | 40 | 0 | 15-Nov-13 A | 14-Dec-13 A |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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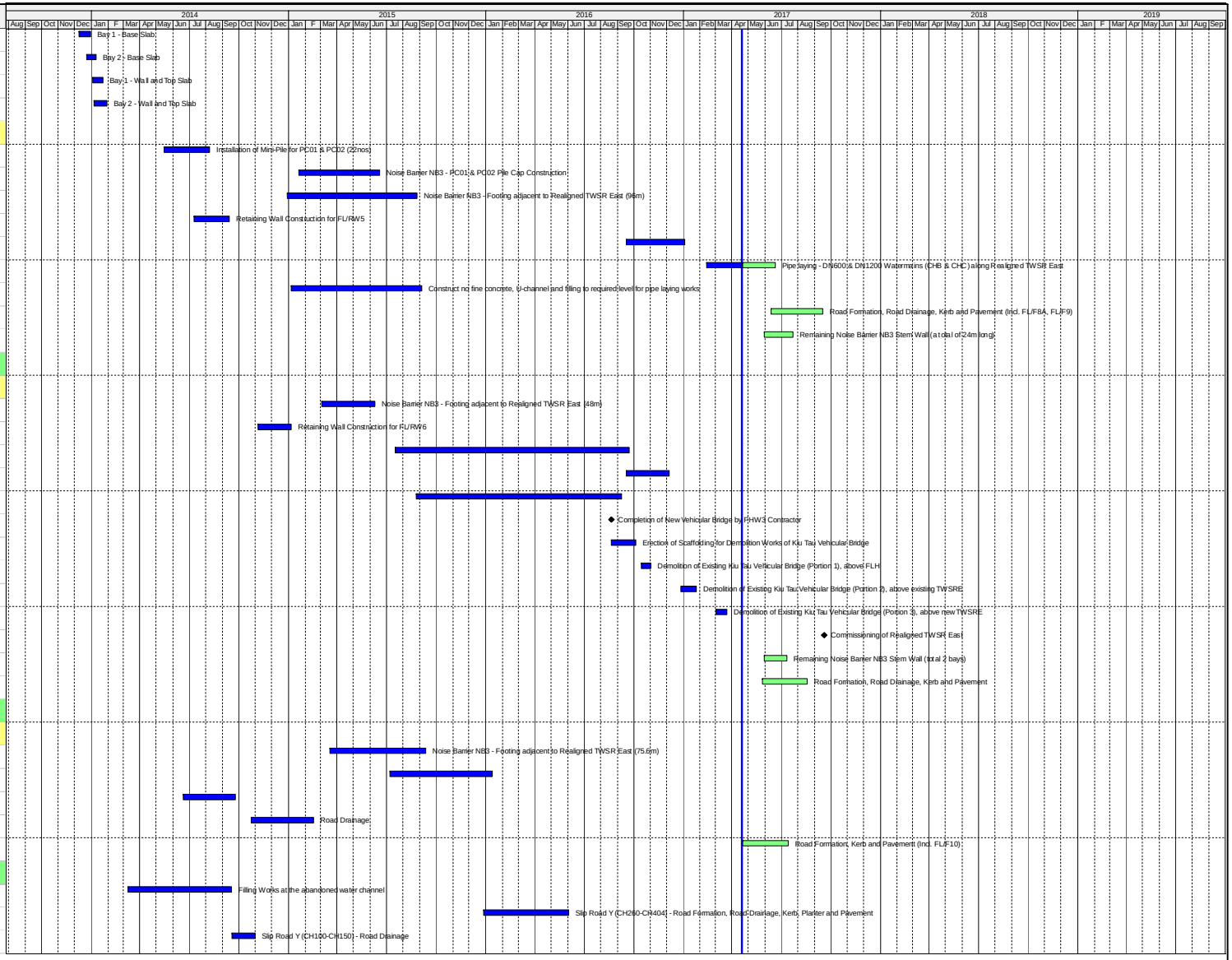
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| TWSRE-1020 | Bay 1 - Base Slab | 21 | 0 | 09-Dec-13 A | 30-Dec-13 A |
| TWSRE-1030 | Bay 2 - Base Slab | 21 | 0 | 23-Dec-13 A | 09-Jan-14 A |
| TWSRE-1040 | Bay 1 - Wall and Top Slab | 35 | 0 | 03-Jan-14 A | 22-Jan-14 A |
| TWSRE-1050 | Bay 2 - Wall and Top Slab | 35 | 0 | 06-Jan-14 A | 29-Jan-14 A |
| ***At-Grade Roadworks*** | | 1001 | 125 | 16-May-14 A | 16-Sep-17 |
| TWSRE-1100 | Installation of Mini-Pile for PC01 & PC02 (22nos) | 66 | 0 | 16-May-14 A | 07-Aug-14 A |
| TWSRE-1110 | Noise Barrier NB3 - PC01 & PC02 Pile Cap Construction | 55 | 0 | 19-Jan-15 A | 18-Jun-15 A |
| TWSRE-1120 | Noise Barrier NB3 - Footing adjacent to Realigned TWSR East (96m) | 110 | 0 | 29-Dec-14 A | 26-Aug-15 A |
| TWSRE-1130 | Retaining Wall Construction for FL/RW5 | 45 | 0 | 10-Jul-14 A | 13-Sep-14 A |
| TWSRE-1140A* | Pipe laying - DN1400 Watermains (CHKA) along Realigned TWSR East | 90 | 0 | 17-Sep-16 A | 03-Jan-17 A |
| TWSRE-1140B* | Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Realigned TWSR East | 145 | 49 | 13-Feb-17 A | 19-Jun-17 |
| TWSRE-1150 | Construct no fine concrete, U-channel and filling to required level for pipe laying works | 30 | 0 | 06-Jan-15 A | 04-Sep-15 A |
| TWSRE-1160 | Road Formation, Road Drainage, Kerb and Pavement (Incl. FL/F8A, FL/F9) | 83 | 83 | 12-Jun-17 | 16-Sep-17 |
| TWSRE-1170 | Remaining Noise Barrier NB3 Stem Wall (a total of 24m long) | 45 | 45 | 31-May-17* | 22-Jul-17 |
| ***TWSRE Zone 2 between CH270 and CH380*** | | 818 | 95 | 05-Nov-14 A | 18-Sep-17 |
| ***At-Grade Roadworks*** | | 818 | 95 | 05-Nov-14 A | 18-Sep-17 |
| TWSRE-2010 | Noise Barrier NB3 - Footing adjacent to Realigned TWSR East (48m) | 110 | 0 | 03-Mar-15 A | 09-Jun-15 A |
| TWSRE-2020 | Retaining Wall Construction for FL/RW6 | 45 | 0 | 05-Nov-14 A | 05-Jan-15 A |
| TWSRE-2030A* | Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Realigned TWSR East | 25 | 0 | 17-Jul-15 A | 22-Sep-16 A |
| TWSRE-2030B* | Pipe laying - DN1400 Watermains (CHK) along Realigned TWSR East | 55 | 0 | 17-Sep-16 A | 05-Dec-16 A |
| TWSRE-2030B*10 | Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Realigned TWSR East, conflicted with J-bridge | 21 | 0 | 25-Aug-15 A | 08-Sep-16 A |
| TWSRE-2040 | Completion of New Vehicular Bridge by FHW3 Contractor | 0 | 0 | | 20-Aug-16 A |
| TWSRE-2050 | Erection of Scaffolding for Demolition Works of Kiu Tau Vehicular Bridge | 60 | 0 | 20-Aug-16 A | 05-Oct-16 A |
| TWSRE-2060A | Demolition of Existing Kiu Tau Vehicular Bridge (Portion 1), above FLH | 25 | 0 | 15-Oct-16 A | 01-Nov-16 A |
| TWSRE-2060B | Demolition of Existing Kiu Tau Vehicular Bridge (Portion 2), above existing TWSRE | 35 | 0 | 27-Dec-16 A | 25-Jan-17 A |
| TWSRE-2060C | Demolition of Existing Kiu Tau Vehicular Bridge (Portion 3), above new TWSRE | 27 | 0 | 02-Mar-17 A | 22-Mar-17 A |
| TWSRE-2070 | Commissioning of Realigned TWSR East | 0 | 0 | 18-Sep-17 | |
| TWSRE-2080 | Remaining Noise Barrier NB3 Stem Wall (total 2 bays) | 35 | 35 | 31-May-17* | 11-Jul-17 |
| TWSRE-2090 | Road Formation, Road Drainage, Kerb and Pavement | 70 | 70 | 27-May-17 | 18-Aug-17 |
| ***TWSRE Zone 3 between CH380 and CH456*** | | 763 | 70 | 20-Jun-14 A | 14-Jul-17 |
| ***At-Grade Roadworks*** | | 763 | 70 | 20-Jun-14 A | 14-Jul-17 |
| TWSRE-3010 | Noise Barrier NB3 - Footing adjacent to Realigned TWSR East (75.6m) | 85 | 0 | 19-Mar-15 A | 12-Sep-15 A |
| TWSRE-3020A* | Pipe Laying - DN600 & DN1200 Watermains (CHB & CHC) abng Realigned TWSR East | 78 | 0 | 07-Jul-15 A | 13-Jan-16 A |
| TWSRE-3020B* | Pipe laying - DN2300 Watermains (CHJ) along Realigned TWSR East | 75 | 0 | 20-Jun-14 A | 24-Sep-14 A |
| TWSRE-3030 | Road Drainage | 55 | 0 | 24-Oct-14 A | 16-Feb-15 A |
| TWSRE-3040 | Road Formation, Kerb and Pavement (Incl. FL/F10) | 70 | 70 | 20-Apr-17 | 14-Jul-17 |
| ***Roundabout A, Slip Road and Access Road*** | | 919 | 0 | 10-Mar-14 A | 31-Mar-17 A |
| TWSRE-4010 | Filling Works at the abandoned water channel | 115 | 0 | 10-Mar-14 A | 17-Sep-14 A |
| TWSRE-4020 | Slip Road Y (CH260-CH404) - Road Formation, Road Drainage, Kerb, Planter and Pavement | 108 | 0 | 28-Dec-15 A | 02-Jun-16 A |
| TWSRE-4030A | Slip Road Y (CH100-CH150) - Road Drainage | 35 | 0 | 18-Sep-14 A | 31-Oct-14 A |

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- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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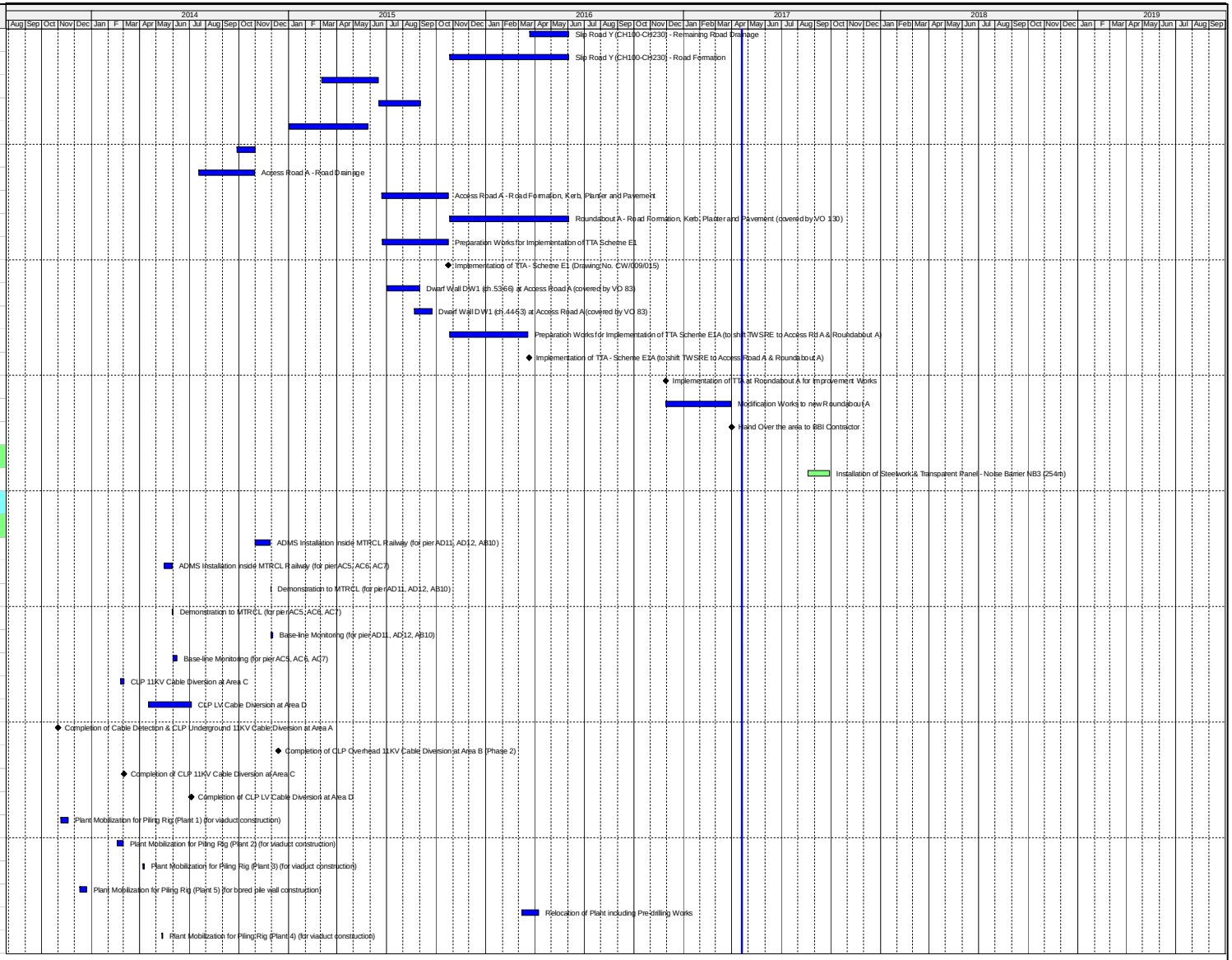
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| TWSRE-4030B | Slip Road Y (CH100-CH230) - Remaining Road Drainage | 31 | 0 | 22-Mar-16 A | 02-Jun-16 A |
| TWSRE-4030C | Slip Road Y (CH100-CH230) - Road Formation | 26 | 0 | 26-Oct-15 A | 02-Jun-16 A |
| TWSRE-4040A* | Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Access Road A | 58 | 0 | 03-Mar-15 A | 15-Jun-15 A |
| TWSRE-4040B* | Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Roundabout A | 66 | 0 | 17-Jun-15 A | 01-Sep-15 A |
| TWSRE-4050A* | Pipe laying - DN2300 Watermains (CHJ) along Access Road A | 68 | 0 | 02-Jan-15 A | 28-May-15 A |
| TWSRE-4050B* | Pipe laying - DN2300 Watermains (CHJ) along Roundabout A | 27 | 0 | 27-Sep-14 A | 31-Oct-14 A |
| TWSRE-4060A | Access Road A - Road Drainage | 327 | 0 | 18-Jul-14 A | 30-Oct-14 A |
| TWSRE-4060B | Access Road A - Road Formation, Kerb, Planter and Pavement | 44 | 0 | 22-Jun-15 A | 23-Oct-15 A |
| TWSRE-4070 | Roundabout A - Road Formation, Kerb, Planter and Pavement (covered by VO 130) | 90 | 0 | 26-Oct-15 A | 02-Jun-16 A |
| TWSRE-4080 | Preparation Works for Implementation of TTA Scheme E1 | 42 | 0 | 24-Jun-15 A | 23-Oct-15 A |
| TWSRE-4090 | Implementation of TTA - Scheme E1 (Drawing No. CW/009/015) | 0 | 0 | 24-Oct-15 A | |
| TWSRE-4100A | Dwarf Wall DW1 (ch.53-66) at Access Road A (covered by VO 83) | 40 | 0 | 02-Jul-15 A | 31-Aug-15 A |
| TWSRE-4100B | Dwarf Wall DW1 (ch.44-53) at Access Road A (covered by VO 83) | 40 | 0 | 22-Aug-15 A | 23-Sep-15 A |
| TWSRE-4110 | Preparation Works for Implementation of TTA Scheme E1A (to shift TWSRE to Access Rd A & Roundabout A) | 30 | 0 | 26-Oct-15 A | 19-Mar-16 A |
| TWSRE-4120 | Implementation of TTA - Scheme E1A (to shift TWSRE to Access Road A & Roundabout A) | 0 | 0 | 21-Mar-16 A | |
| TWSRE-5000 | Implementation of TTA at Roundabout A for Improvement Works | 0 | 0 | 29-Nov-16 A | |
| TWSRE-5010 | Modification Works to new Roundabout A | 90 | 0 | 29-Nov-16 A | 30-Mar-17 A |
| TWSRE-5020 | Hand Over the area to BBI Contractor | 0 | 0 | | 31-Mar-17 A |
| ***Remaining Works for Noise Barrier along realigned TWSR East*** | | 35 | 35 | 19-Aug-17 | 28-Sep-17 |
| TWSRE-NB-120 | Installation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m) | 35 | 35 | 19-Aug-17* | 28-Sep-17 |
| ***Stage 1C - Viaduct Structure & TCSS Civil Provisions (KD-9)*** | | 1337 | 324 | 31-Oct-13 A | 28-May-18 |
| ***Preliminaries*** | | 877 | 0 | 31-Oct-13 A | 20-Sep-16 A |
| B-1000A | ADMS Installation inside MTRCL Railway (for pier AD11, AD12, AB10) | 14 | 0 | 31-Oct-14 A | 28-Nov-14 A |
| B-1000B | ADMS Installation inside MTRCL Railway (for pier AC5, AC6, AC7) | 3 | 0 | 15-May-14 A | 30-May-14 A |
| B-1010A | Demonstration to MTRCL (for pier AD11, AD12, AB10) | 1 | 0 | 29-Nov-14 A | 29-Nov-14 A |
| B-1010B | Demonstration to MTRCL (for pier AC5, AC6, AC7) | 1 | 0 | 31-May-14 A | 31-May-14 A |
| B-1020A | Base-line Monitoring (for pier AD11, AD12, AB10) | 10 | 0 | 29-Nov-14 A | 03-Dec-14 A |
| B-1020B | Base-line Monitoring (for pier AC5, AC6, AC7) | 7 | 0 | 01-Jun-14 A | 08-Jun-14 A |
| B-2000 | CLP 11KV Cable Diversion at Area C | 12 | 0 | 24-Feb-14 A | 02-Mar-14 A |
| B-2010 | CLP LV Cable Diversion at Area D | 12 | 0 | 16-Apr-14 A | 05-Jul-14 A |
| B-2020 | Completion of Cable Detection & CLP Underground 11KV Cable Diversion at Area A | 0 | 0 | | 31-Oct-13 A |
| B-2030 | Completion of CLP Overhead 11KV Cable Diversion at Area B (Phase 2) | 0 | 0 | | 12-Dec-14 A |
| B-2040 | Completion of CLP 11KV Cable Diversion at Area C | 0 | 0 | | 02-Mar-14 A |
| B-2050 | Completion of CLP LV Cable Diversion at Area D | 0 | 0 | | 05-Jul-14 A |
| B-3000 | Plant Mobilization for Piling Rig (Plant 1) (for viaduct construction) | 13 | 0 | 05-Nov-13 A | 19-Nov-13 A |
| B-3010 | Plant Mobilization for Piling Rig (Plant 2) (for viaduct construction) | 25 | 0 | 17-Feb-14 A | 28-Feb-14 A |
| B-3020 | Plant Mobilization for Piling Rig (Plant 3) (for viaduct construction) | 7 | 0 | 07-Apr-14 A | 09-Apr-14 A |
| B-3040 | Plant Mobilization for Piling Rig (Plant 5) (for bored pile wall construction) | 25 | 0 | 10-Dec-13 A | 23-Dec-13 A |
| B-3050 | Relocation of Plant including Pre-drilling Works | 15 | 0 | 08-Mar-16 A | 07-Apr-16 A |
| B-3060 | Plant Mobilization for Piling Rig (Plant 4) (for viaduct construction) | 7 | 0 | 12-May-14 A | 13-May-14 A |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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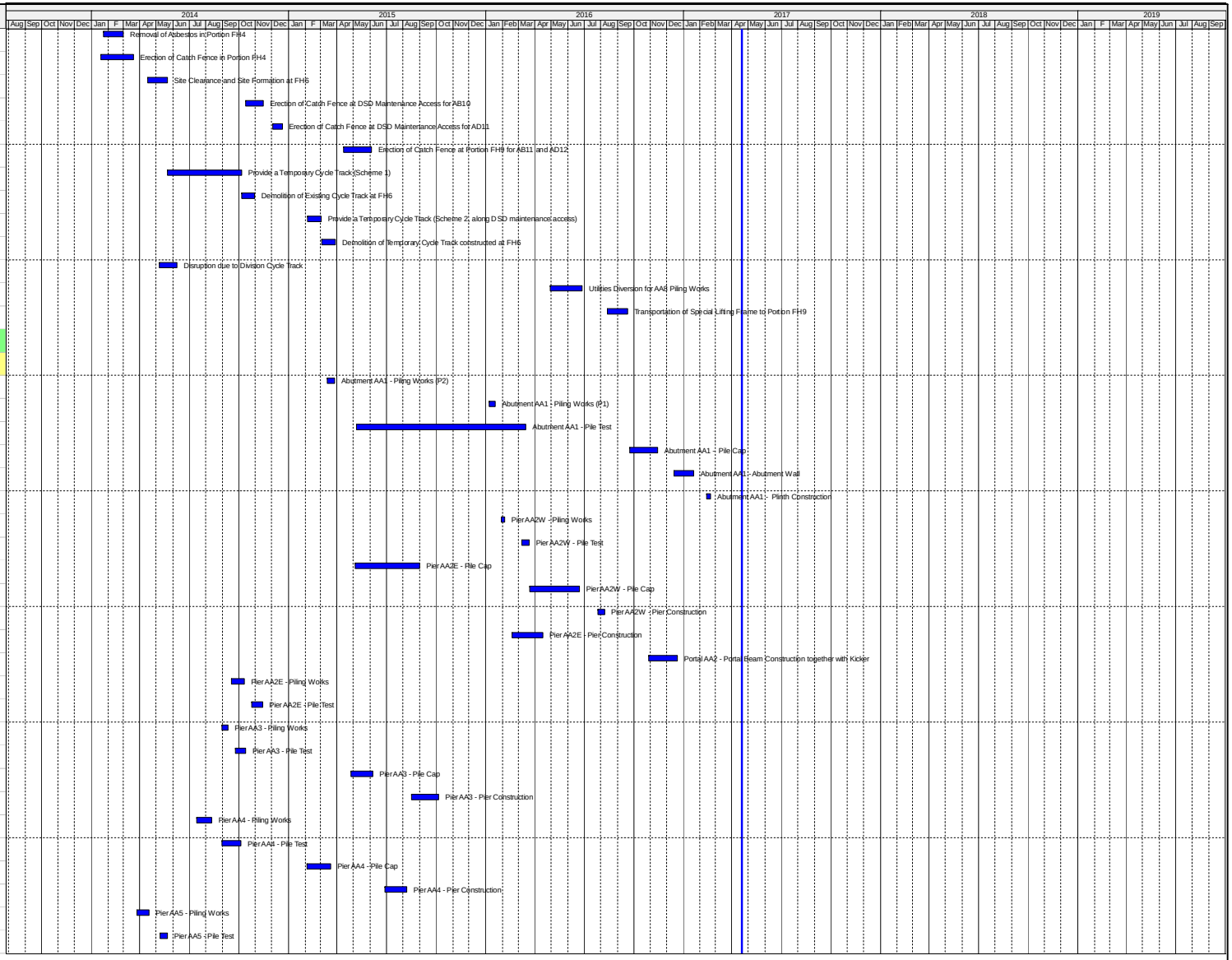
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| B-4000 | Removal of Asbestos in Portion FH4 | 30 | 0 | 24-Jan-14 A | 28-Feb-14 A |
| B-4010 | Erection of Catch Fence in Portion FH4 | 50 | 0 | 18-Jan-14 A | 19-Mar-14 A |
| B-4020 | Site Clearance and Site Formation at FH6 | 35 | 0 | 15-Apr-14 A | 21-May-14 A |
| B-4030 | Erection of Catch Fence at DSD Maintenance Access for AB10 | 25 | 0 | 13-Oct-14 A | 15-Nov-14 A |
| B-4040 | Erection of Catch Fence at DSD Maintenance Access for AD11 | 25 | 0 | 03-Dec-14 A | 20-Dec-14 A |
| B-4050 | Erection of Catch Fence at Portion FH9 for AB11 and AD12 | 45 | 0 | 13-Apr-15 A | 03-Jun-15 A |
| B-5000 | Provide a Temporary Cycle Track (Scheme 1) | 27 | 0 | 22-May-14 A | 05-Oct-14 A |
| B-5000a | Demolition of Existing Cycle Track at FH6 | 20 | 0 | 06-Oct-14 A | 29-Oct-14 A |
| B-5010 | Provide a Temporary Cycle Track (Scheme 2, along DSD maintenance access) | 28 | 0 | 05-Feb-15 A | 02-Mar-15 A |
| B-5020 | Demolition of Temporary Cycle Track constructed at FH6 | 27 | 0 | 03-Mar-15 A | 28-Mar-15 A |
| B-5030 | Disruption due to Division Cycle Track | 27 | 0 | 07-May-14 A | 08-Jun-14 A |
| B-5040 | Utilities Diversion for AA8 Piling Works | 60 | 0 | 29-Apr-16 A | 27-Jun-16 A |
| B-6000 | Transportation of Special Lifting Frame to Portion FH9 | 32 | 0 | 13-Aug-16 A | 20-Sep-16 A |
| ***Foundation & Pier Construction*** | | 1035 | 18 | 20-Nov-13 A | 12-May-17 |
| ***Bridge A*** | | 892 | 0 | 04-Dec-13 A | 20-Feb-17 A |
| BA-01-1000a | Abutment AA1 - Piling Works (P2) | 12 | 0 | 14-Mar-15 A | 27-Mar-15 A |
| BA-01-1000b | Abutment AA1 - Piling Works (P1) | 11 | 0 | 07-Jan-16 A | 18-Jan-16 A |
| BA-01-1010 | Abutment AA1 - Pile Test | 14 | 0 | 06-May-15 A | 14-Mar-16 A |
| BA-01-1020 | Abutment AA1 - Pile Cap | 35 | 0 | 24-Sep-16 A | 14-Nov-16 A |
| BA-01-1020B | Abutment AA1 - Abutment Wall | 28 | 0 | 14-Dec-16 A | 19-Jan-17 A |
| BA-01-1020C | Abutment AA1 - Plinth Construction | 6 | 0 | 13-Feb-17 A | 20-Feb-17 A |
| BA-02-1000 | Pier AA2W - Piling Works | 12 | 0 | 29-Jan-16 A | 04-Feb-16 A |
| BA-02-1010 | Pier AA2W - Pile Test | 14 | 0 | 07-Mar-16 A | 21-Mar-16 A |
| BA-02-1020A | Pier AA2E - Pile Cap | 30 | 0 | 04-May-15 A | 31-Aug-15 A |
| BA-02-1020B | Pier AA2W - Pile Cap | 30 | 0 | 22-Mar-16 A | 22-Jun-16 A |
| BA-02-1030 | Pier AA2W - Pier Construction | 21 | 0 | 26-Jul-16 A | 08-Aug-16 A |
| BA-02-1040 | Pier AA2E - Pier Construction | 21 | 0 | 19-Feb-16 A | 15-Apr-16 A |
| BA-02-1050 | Portal AA2 - Portal Beam Construction together with Kicker | 72 | 0 | 29-Oct-16 A | 20-Dec-16 A |
| BA-02-2000 | Pier AA2E - Piling Works | 12 | 0 | 17-Sep-14 A | 10-Oct-14 A |
| BA-02-2010 | Pier AA2E - Pile Test | 7 | 0 | 25-Oct-14 A | 14-Nov-14 A |
| BA-03-1000 | Pier AA3 - Piling Works | 12 | 0 | 30-Aug-14 A | 10-Sep-14 A |
| BA-03-1010 | Pier AA3 - Pile Test | 7 | 0 | 25-Sep-14 A | 13-Oct-14 A |
| BA-03-1020 | Pier AA3 - Pile Cap | 30 | 0 | 27-Apr-15 A | 06-Jun-15 A |
| BA-03-1030 | Pier AA3 - Pier Construction | 35 | 0 | 17-Aug-15 A | 05-Oct-15 A |
| BA-04-1000 | Pier AA4 - Piling Works | 12 | 0 | 15-Jul-14 A | 11-Aug-14 A |
| BA-04-1010 | Pier AA4 - Pile Test | 7 | 0 | 30-Aug-14 A | 04-Oct-14 A |
| BA-04-1020 | Pier AA4 - Pile Cap | 30 | 0 | 04-Feb-15 A | 19-Mar-15 A |
| BA-04-1030 | Pier AA4 - Pier Construction | 14 | 0 | 29-Jun-15 A | 07-Aug-15 A |
| BA-05-1000 | Pier AA5 - Piling Works | 12 | 0 | 26-Mar-14 A | 17-Apr-14 A |
| BA-05-1010 | Pier AA5 - Pile Test | 7 | 0 | 08-May-14 A | 22-May-14 A |

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- Remaining Work
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- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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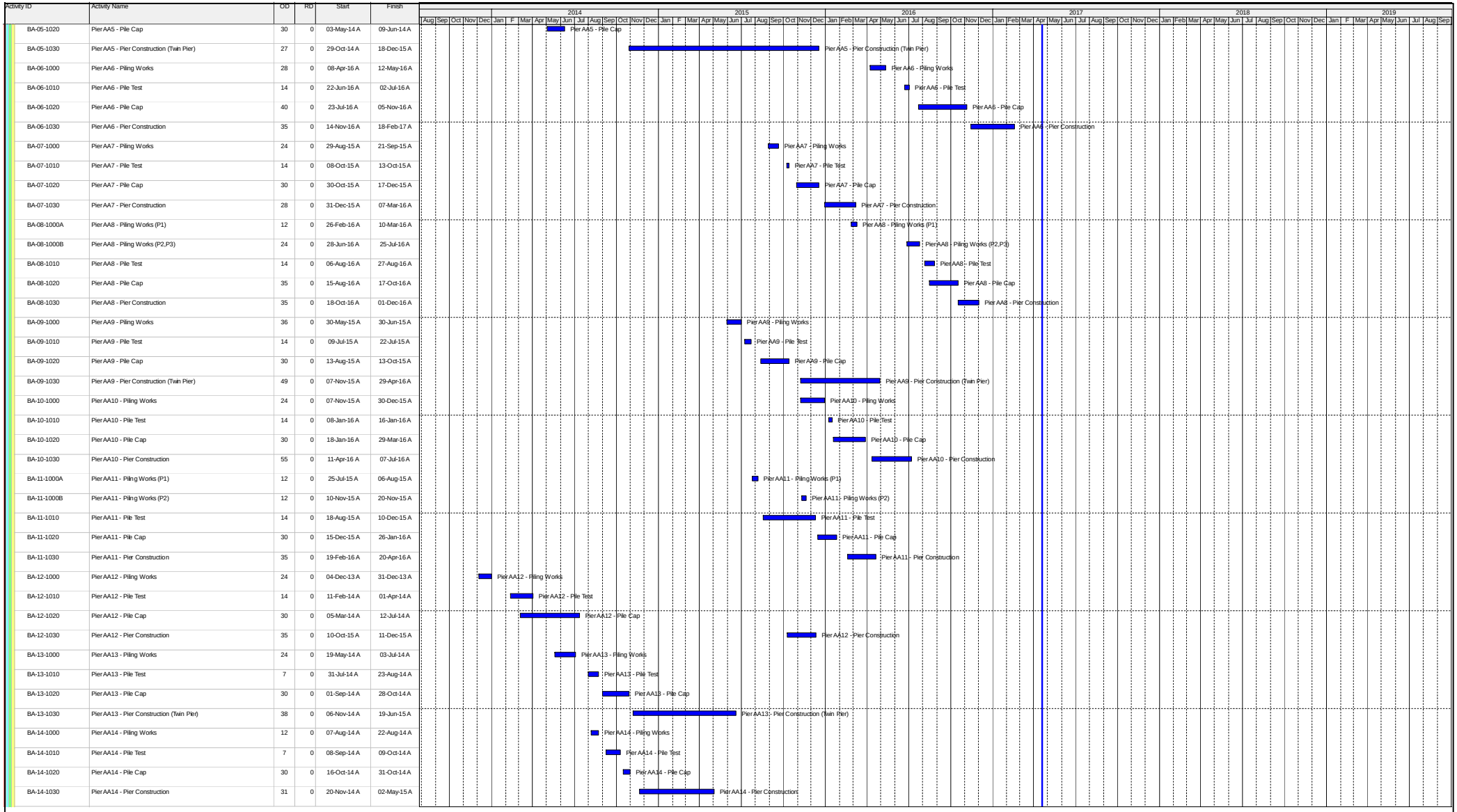

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| BA-05-1020 | Pier AA5 - Pile Cap | 30 | 0 | 03-May-14 A | 09-Jun-14 A |
| BA-05-1030 | Pier AA5 - Pier Construction (Twin Pier) | 27 | 0 | 29-Oct-14 A | 18-Dec-15 A |
| BA-06-1000 | Pier AA6 - Piling Works | 28 | 0 | 08-Apr-16 A | 12-May-16 A |
| BA-06-1010 | Pier AA6 - Pile Test | 14 | 0 | 22-Jun-16 A | 02-Jul-16 A |
| BA-06-1020 | Pier AA6 - Pile Cap | 40 | 0 | 23-Jul-16 A | 05-Nov-16 A |
| BA-06-1030 | Pier AA6 - Pier Construction | 35 | 0 | 14-Nov-16 A | 18-Feb-17 A |
| BA-07-1000 | Pier AA7 - Piling Works | 24 | 0 | 29-Aug-15 A | 21-Sep-15 A |
| BA-07-1010 | Pier AA7 - Pile Test | 14 | 0 | 08-Oct-15 A | 13-Oct-15 A |
| BA-07-1020 | Pier AA7 - Pile Cap | 30 | 0 | 30-Oct-15 A | 17-Dec-15 A |
| BA-07-1030 | Pier AA7 - Pier Construction | 28 | 0 | 31-Dec-15 A | 07-Mar-16 A |
| BA-08-1000A | Pier AA8 - Piling Works (P1) | 12 | 0 | 26-Feb-16 A | 10-Mar-16 A |
| BA-08-1000B | Pier AA8 - Piling Works (P2,P3) | 24 | 0 | 28-Jun-16 A | 25-Jul-16 A |
| BA-08-1010 | Pier AA8 - Pile Test | 14 | 0 | 06-Aug-16 A | 27-Aug-16 A |
| BA-08-1020 | Pier AA8 - Pile Cap | 35 | 0 | 15-Aug-16 A | 17-Oct-16 A |
| BA-08-1030 | Pier AA8 - Pier Construction | 35 | 0 | 18-Oct-16 A | 01-Dec-16 A |
| BA-09-1000 | Pier AA9 - Piling Works | 36 | 0 | 30-May-15 A | 30-Jun-15 A |
| BA-09-1010 | Pier AA9 - Pile Test | 14 | 0 | 09-Jul-15 A | 22-Jul-15 A |
| BA-09-1020 | Pier AA9 - Pile Cap | 30 | 0 | 13-Aug-15 A | 13-Oct-15 A |
| BA-09-1030 | Pier AA9 - Pier Construction (Twin Pier) | 49 | 0 | 07-Nov-15 A | 29-Apr-16 A |
| BA-10-1000 | Pier AA10 - Piling Works | 24 | 0 | 07-Nov-15 A | 30-Dec-15 A |
| BA-10-1010 | Pier AA10 - Pile Test | 14 | 0 | 08-Jan-16 A | 16-Jan-16 A |
| BA-10-1020 | Pier AA10 - Pile Cap | 30 | 0 | 18-Jan-16 A | 29-Mar-16 A |
| BA-10-1030 | Pier AA10 - Pier Construction | 55 | 0 | 11-Apr-16 A | 07-Jul-16 A |
| BA-11-1000A | Pier AA11 - Piling Works (P1) | 12 | 0 | 25-Jul-15 A | 06-Aug-15 A |
| BA-11-1000B | Pier AA11 - Piling Works (P2) | 12 | 0 | 10-Nov-15 A | 20-Nov-15 A |
| BA-11-1010 | Pier AA11 - Pile Test | 14 | 0 | 18-Aug-15 A | 10-Dec-15 A |
| BA-11-1020 | Pier AA11 - Pile Cap | 30 | 0 | 15-Dec-15 A | 26-Jan-16 A |
| BA-11-1030 | Pier AA11 - Pier Construction | 35 | 0 | 19-Feb-16 A | 20-Apr-16 A |
| BA-12-1000 | Pier AA12 - Piling Works | 24 | 0 | 04-Dec-13 A | 31-Dec-13 A |
| BA-12-1010 | Pier AA12 - Pile Test | 14 | 0 | 11-Feb-14 A | 01-Apr-14 A |
| BA-12-1020 | Pier AA12 - Pile Cap | 30 | 0 | 05-Mar-14 A | 12-Jul-14 A |
| BA-12-1030 | Pier AA12 - Pier Construction | 35 | 0 | 10-Oct-15 A | 11-Dec-15 A |
| BA-13-1000 | Pier AA13 - Piling Works | 24 | 0 | 19-May-14 A | 03-Jul-14 A |
| BA-13-1010 | Pier AA13 - Pile Test | 7 | 0 | 31-Jul-14 A | 23-Aug-14 A |
| BA-13-1020 | Pier AA13 - Pile Cap | 30 | 0 | 01-Sep-14 A | 28-Oct-14 A |
| BA-13-1030 | Pier AA13 - Pier Construction (Twin Pier) | 38 | 0 | 06-Nov-14 A | 19-Jun-15 A |
| BA-14-1000 | Pier AA14 - Piling Works | 12 | 0 | 07-Aug-14 A | 22-Aug-14 A |
| BA-14-1010 | Pier AA14 - Pile Test | 7 | 0 | 08-Sep-14 A | 09-Oct-14 A |
| BA-14-1020 | Pier AA14 - Pile Cap | 30 | 0 | 16-Oct-14 A | 31-Oct-14 A |
| BA-14-1030 | Pier AA14 - Pier Construction | 31 | 0 | 20-Nov-14 A | 02-May-15 A |



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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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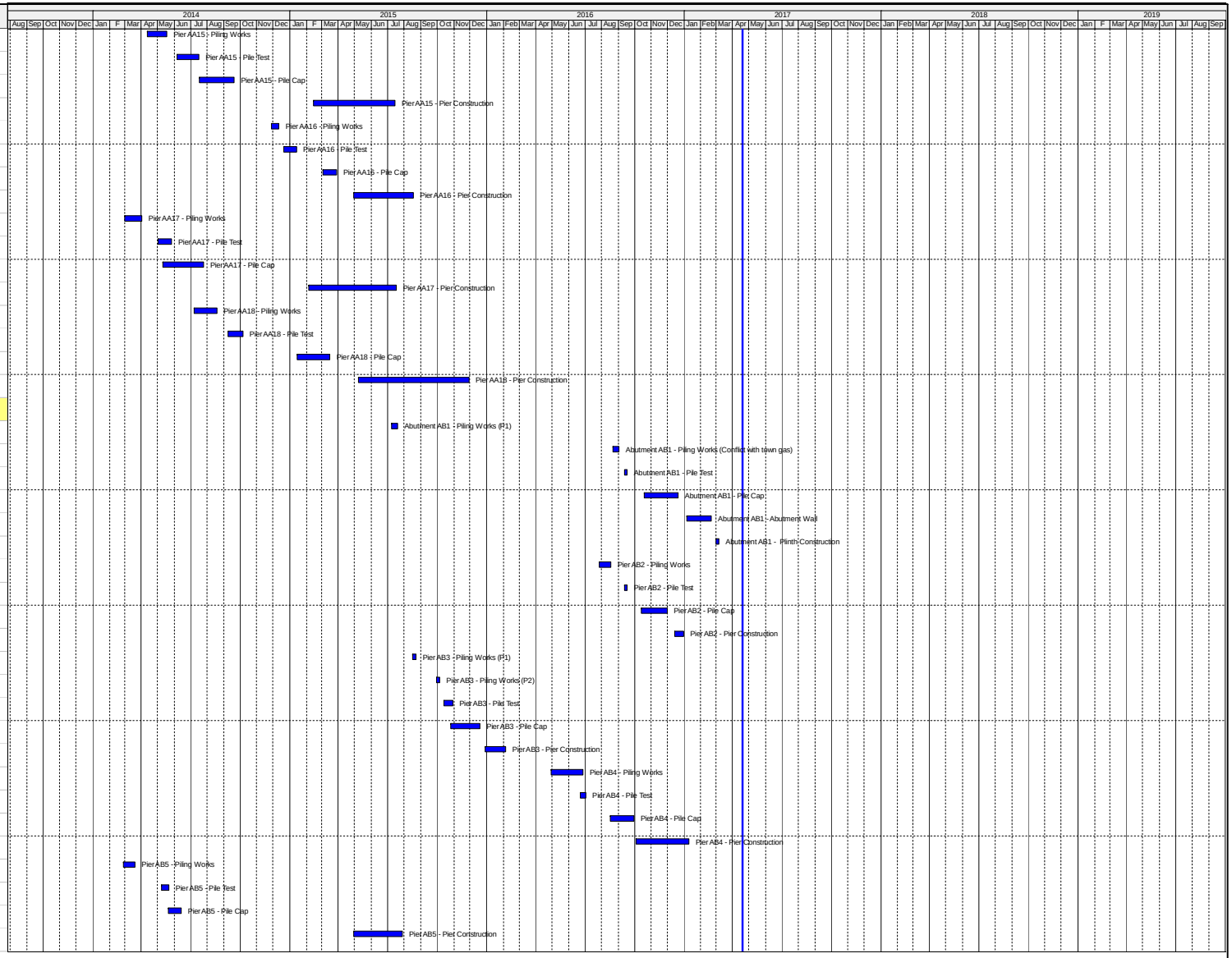
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| BA-15-1000 | Pier AA15 - Piling Works | 24 | 0 | 12-Apr-14 A | 17-May-14 A |
| BA-15-1010 | Pier AA15 - Pile Test | 7 | 0 | 06-Jun-14 A | 16-Jul-14 A |
| BA-15-1020 | Pier AA15 - Pile Cap | 30 | 0 | 17-Jul-14 A | 19-Sep-14 A |
| BA-15-1030 | Pier AA15 - Pier Construction | 31 | 0 | 14-Feb-15 A | 15-Jul-15 A |
| BA-16-1000 | Pier AA16 - Piling Works | 12 | 0 | 28-Nov-14 A | 11-Dec-14 A |
| BA-16-1010 | Pier AA16 - Pile Test | 7 | 0 | 20-Dec-14 A | 13-Jan-15 A |
| BA-16-1020 | Pier AA16 - Pile Cap | 30 | 0 | 03-Mar-15 A | 28-Mar-15 A |
| BA-16-1030 | Pier AA16 - Pier Construction | 35 | 0 | 29-Apr-15 A | 17-Aug-15 A |
| BA-17-1000 | Pier AA17 - Piling Works | 24 | 0 | 01-Mar-14 A | 01-Apr-14 A |
| BA-17-1010 | Pier AA17 - Pile Test | 7 | 0 | 01-May-14 A | 26-May-14 A |
| BA-17-1020 | Pier AA17 - Pile Cap | 30 | 0 | 10-May-14 A | 24-Jul-14 A |
| BA-17-1030 | Pier AA17 - Pier Construction | 24 | 0 | 05-Feb-15 A | 17-Jul-15 A |
| BA-18-1000 | Pier AA18 - Piling Works | 12 | 0 | 07-Jul-14 A | 19-Aug-14 A |
| BA-18-1010 | Pier AA18 - Pile Test | 7 | 0 | 08-Sep-14 A | 06-Oct-14 A |
| BA-18-1020 | Pier AA18 - Pile Cap | 30 | 0 | 15-Jan-15 A | 16-Mar-15 A |
| BA-18-1030 | Pier AA18 - Pier Construction | 56 | 0 | 08-May-15 A | 28-Nov-15 A |
| ***Bridge B*** | | 900 | 0 | 26-Feb-14 A | 06-Mar-17 A |
| BB-01-1000A | Abutment AB1 - Piling Works (P1) | 18 | 0 | 09-Jul-15 A | 20-Jul-15 A |
| BB-01-1000B | Abutment AB1 - Piling Works (Conflict with town gas) | 12 | 0 | 22-Aug-16 A | 02-Sep-16 A |
| BB-01-1010 | Abutment AB1 - Pile Test | 14 | 0 | 12-Sep-16 A | 17-Sep-16 A |
| BB-01-1020 | Abutment AB1 - Pile Cap | 16 | 0 | 19-Oct-16 A | 20-Dec-16 A |
| BB-01-1020B | Abutment AB1 - Abutment Wall | 28 | 0 | 06-Jan-17 A | 20-Feb-17 A |
| BB-01-1020C | Abutment AB1 - Plinth Construction | 6 | 0 | 01-Mar-17 A | 06-Mar-17 A |
| BB-02-1000 | Pier AB2 - Piling Works | 12 | 0 | 27-Jul-16 A | 18-Aug-16 A |
| BB-02-1010 | Pier AB2 - Pile Test | 14 | 0 | 12-Sep-16 A | 17-Sep-16 A |
| BB-02-1020 | Pier AB2 - Pile Cap | 35 | 0 | 13-Oct-16 A | 30-Nov-16 A |
| BB-02-1030 | Pier AB2 - Pier Construction | 7 | 0 | 14-Dec-16 A | 30-Dec-16 A |
| BB-03-1000A | Pier AB3 - Piling Works (P1) | 12 | 0 | 17-Aug-15 A | 22-Aug-15 A |
| BB-03-1000B | Pier AB3 - Piling Works (P2) | 12 | 0 | 29-Sep-15 A | 05-Oct-15 A |
| BB-03-1010 | Pier AB3 - Pile Test | 14 | 0 | 13-Oct-15 A | 29-Oct-15 A |
| BB-03-1020 | Pier AB3 - Pile Cap | 30 | 0 | 26-Oct-15 A | 19-Dec-15 A |
| BB-03-1030 | Pier AB3 - Pier Construction | 21 | 0 | 29-Dec-15 A | 05-Feb-16 A |
| BB-04-1000 | Pier AB4 - Piling Works | 28 | 0 | 29-Apr-16 A | 27-Jun-16 A |
| BB-04-1010 | Pier AB4 - Pile Test | 14 | 0 | 22-Jun-16 A | 02-Jul-16 A |
| BB-04-1020 | Pier AB4 - Pile Cap | 35 | 0 | 17-Aug-16 A | 30-Sep-16 A |
| BB-04-1030 | Pier AB4 - Pier Construction | 35 | 0 | 03-Oct-16 A | 10-Jan-17 A |
| BB-05-1000 | Pier AB5 - Piling Works | 12 | 0 | 26-Feb-14 A | 19-Mar-14 A |
| BB-05-1010 | Pier AB5 - Pile Test | 7 | 0 | 08-May-14 A | 22-May-14 A |
| BB-05-1020 | Pier AB5 - Pile Cap | 30 | 0 | 21-May-14 A | 13-Jun-14 A |
| BB-05-1030 | Pier AB5 - Pier Construction | 35 | 0 | 29-Apr-15 A | 28-Jul-15 A |




俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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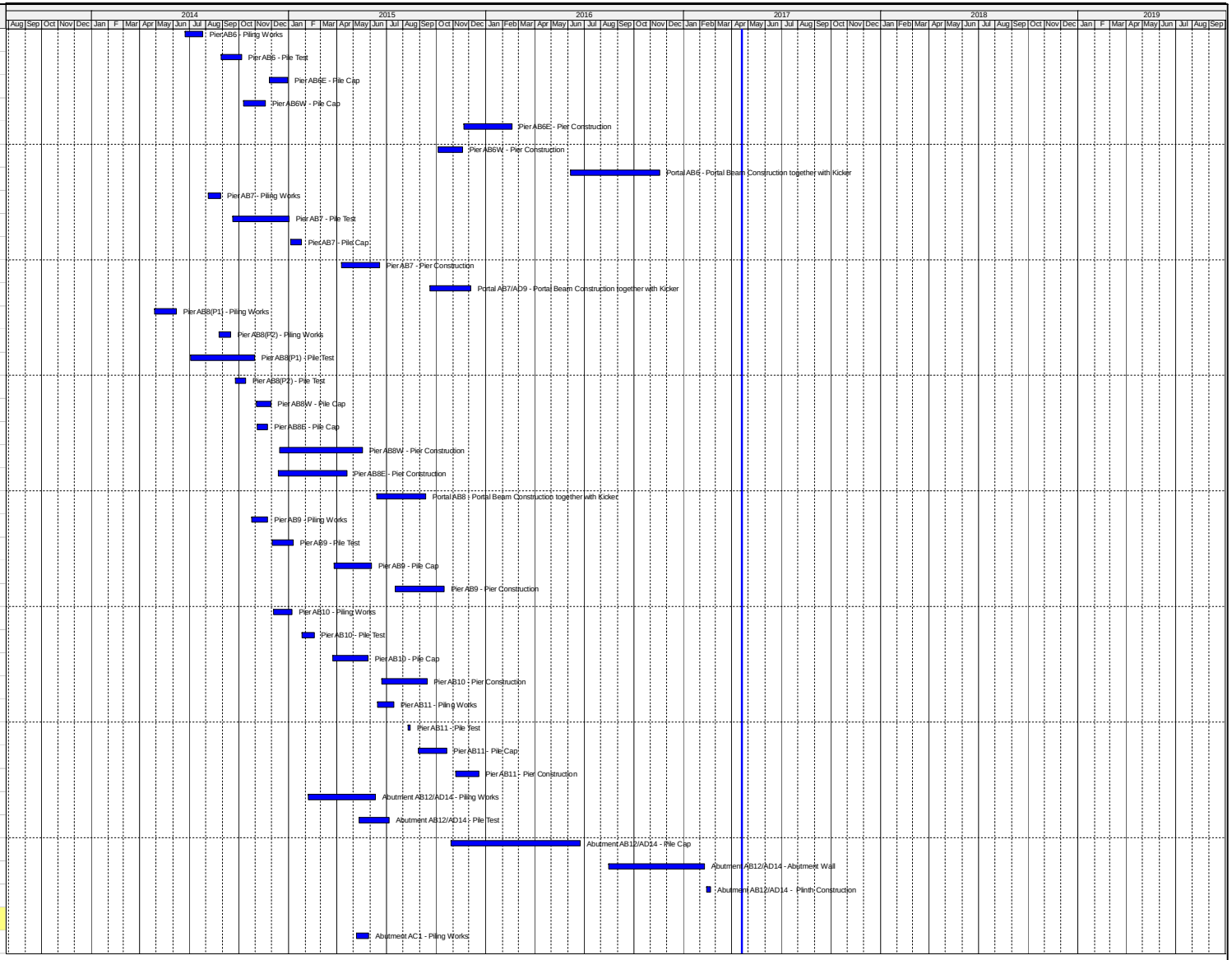
| | | | |

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| BB-06-1000 | Pier AB6 - Piling Works | 24 | 0 | 23-Jun-14 A | 26-Jul-14 A |
| BB-06-1010 | Pier AB6 - Pile Test | 7 | 0 | 29-Aug-14 A | 06-Oct-14 A |
| BB-06-1020A | Pier AB6E - Pile Cap | 30 | 0 | 26-Nov-14 A | 30-Dec-14 A |
| BB-06-1020B | Pier AB6W - Pile Cap | 30 | 0 | 10-Oct-14 A | 19-Nov-14 A |
| BB-06-1030 | Pier AB6E - Pier Construction | 48 | 0 | 21-Nov-15 A | 19-Feb-16 A |
| BB-06-1040 | Pier AB6W - Pier Construction | 48 | 0 | 05-Oct-15 A | 18-Nov-15 A |
| BB-06-1050 | Portal AB6 - Portal Beam Construction together with Kicker | 100 | 0 | 06-Jun-16 A | 18-Nov-16 A |
| BB-07-1000 | Pier AB7 - Piling Works | 12 | 0 | 05-Aug-14 A | 27-Aug-14 A |
| BB-07-1010 | Pier AB7 - Pile Test | 12 | 0 | 19-Sep-14 A | 02-Jan-15 A |
| BB-07-1020 | Pier AB7 - Pile Cap | 30 | 0 | 05-Jan-15 A | 24-Jan-15 A |
| BB-07-1030 | Pier AB7 - Pier Construction | 32 | 0 | 09-Apr-15 A | 18-Jun-15 A |
| BB-07-1040 | Portal AB7/AD9 - Portal Beam Construction together with Kicker | 62 | 0 | 19-Sep-15 A | 04-Dec-15 A |
| BB-08-1000A | Pier AB8(P1) - Piling Works | 12 | 0 | 28-Apr-14 A | 07-Jun-14 A |
| BB-08-1000B | Pier AB8(P2) - Piling Works | 12 | 0 | 25-Aug-14 A | 15-Sep-14 A |
| BB-08-1010A | Pier AB8(P1) - Pile Test | 7 | 0 | 04-Jul-14 A | 29-Oct-14 A |
| BB-08-1010B | Pier AB8(P2) - Pile Test | 7 | 0 | 25-Sep-14 A | 13-Oct-14 A |
| BB-08-1020A | Pier AB8W - Pile Cap | 30 | 0 | 03-Nov-14 A | 29-Nov-14 A |
| BB-08-1020B | Pier AB8E - Pile Cap | 30 | 0 | 04-Nov-14 A | 22-Nov-14 A |
| BB-08-1030 | Pier AB8W - Pier Construction | 24 | 0 | 15-Dec-14 A | 18-May-15 A |
| BB-08-1040 | Pier AB8E - Pier Construction | 24 | 0 | 13-Dec-14 A | 18-Apr-15 A |
| BB-08-1050 | Portal AB8 - Portal Beam Construction together with Kicker | 75 | 0 | 13-Jun-15 A | 11-Sep-15 A |
| BB-09-1000 | Pier AB9 - Piling Works | 24 | 0 | 25-Oct-14 A | 22-Nov-14 A |
| BB-09-1010 | Pier AB9 - Pile Test | 7 | 0 | 01-Dec-14 A | 09-Jan-15 A |
| BB-09-1020 | Pier AB9 - Pile Cap | 48 | 0 | 26-Mar-15 A | 03-Jun-15 A |
| BB-09-1030 | Pier AB9 - Pier Construction | 24 | 0 | 17-Jul-15 A | 16-Oct-15 A |
| BB-10-1000 | Pier AB10 - Piling Works | 24 | 0 | 04-Dec-14 A | 07-Jan-15 A |
| BB-10-1010 | Pier AB10 - Pile Test | 7 | 0 | 26-Jan-15 A | 17-Feb-15 A |
| BB-10-1020 | Pier AB10 - Pile Cap | 60 | 0 | 23-Mar-15 A | 27-May-15 A |
| BB-10-1030 | Pier AB10 - Pier Construction | 25 | 0 | 22-Jun-15 A | 14-Sep-15 A |
| BB-11-1000 | Pier AB11 - Piling Works | 24 | 0 | 15-Jun-15 A | 15-Jul-15 A |
| BB-11-1010 | Pier AB11 - Pile Test | 14 | 0 | 10-Aug-15 A | 14-Aug-15 A |
| BB-11-1020 | Pier AB11 - Pile Cap | 30 | 0 | 29-Aug-15 A | 20-Oct-15 A |
| BB-11-1030 | Pier AB11 - Pier Construction | 45 | 0 | 06-Nov-15 A | 19-Dec-15 A |
| BB-12-1000A | Abutment AB12/AD14 - Piling Works | 70 | 0 | 06-Feb-15 A | 10-Jun-15 A |
| BB-12-1010 | Abutment AB12/AD14 - Pile Test | 14 | 0 | 12-May-15 A | 06-Jul-15 A |
| BB-12-1020A | Abutment AB12/AD14 - Pile Cap | 65 | 0 | 28-Oct-15 A | 23-Jun-16 A |
| BB-12-1020B | Abutment AB12/AD14 - Abutment Wall | 120 | 0 | 15-Aug-16 A | 09-Feb-17 A |
| BB-12-1020C | Abutment AB12/AD14 - Plinth Construction | 14 | 0 | 13-Feb-17 A | 20-Feb-17 A |
| ***Bridge C*** | | 852 | 0 | 20-Nov-13 A | 14-Sep-16 A |
| BC-01-1000 | Abutment AC1 - Piling Works | 36 | 0 | 06-May-15 A | 29-May-15 A |




Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
Milestone
Actual Level of Effort

俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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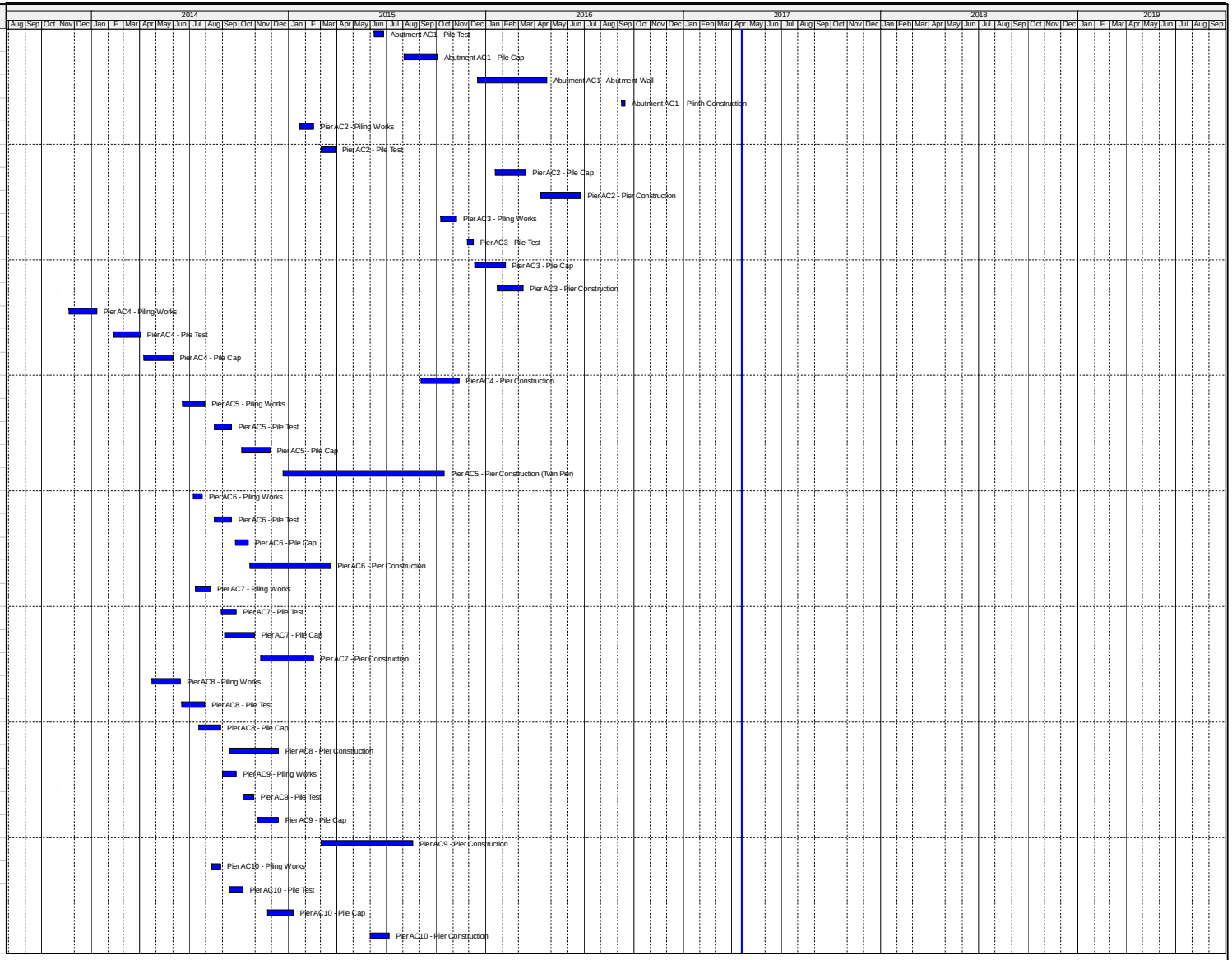
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| BC-01-1010 | Abutment AC1 - Pile Test | 14 | 0 | 08-Jun-15 A | 25-Jun-15 A |
| BC-01-1020A | Abutment AC1 - Pile Cap | 49 | 0 | 03-Aug-15 A | 03-Oct-15 A |
| BC-01-1020B | Abutment AC1 - Abutment Wall | 80 | 0 | 16-Dec-15 A | 23-Apr-16 A |
| BC-01-1020C | Abutment AC1 - Plinth Construction | 5 | 0 | 09-Sep-16 A | 14-Sep-16 A |
| BC-02-1000 | Pier AC2 - Piling Works | 24 | 0 | 21-Jan-15 A | 16-Feb-15 A |
| BC-02-1010 | Pier AC2 - Pile Test | 7 | 0 | 02-Mar-15 A | 28-Mar-15 A |
| BC-02-1020 | Pier AC2 - Pile Cap | 30 | 0 | 18-Jan-16 A | 14-Mar-16 A |
| BC-02-1030 | Pier AC2 - Pier Construction | 28 | 0 | 12-Apr-16 A | 24-Jun-16 A |
| BC-03-1000 | Pier AC3 - Piling Works | 24 | 0 | 09-Oct-15 A | 07-Nov-15 A |
| BC-03-1010 | Pier AC3 - Pile Test | 14 | 0 | 28-Nov-15 A | 09-Dec-15 A |
| BC-03-1020 | Pier AC3 - Pile Cap | 30 | 0 | 11-Dec-15 A | 06-Feb-16 A |
| BC-03-1030 | Pier AC3 - Pier Construction | 28 | 0 | 22-Jan-16 A | 09-Mar-16 A |
| BC-04-1000 | Pier AC4 - Piling Works | 24 | 0 | 20-Nov-13 A | 11-Jan-14 A |
| BC-04-1010 | Pier AC4 - Pile Test | 14 | 0 | 11-Feb-14 A | 01-Apr-14 A |
| BC-04-1020 | Pier AC4 - Pile Cap | 30 | 0 | 08-Apr-14 A | 31-May-14 A |
| BC-04-1030 | Pier AC4 - Pier Construction | 35 | 0 | 03-Sep-15 A | 12-Nov-15 A |
| BC-05-1000 | Pier AC5 - Piling Works | 24 | 0 | 19-Jun-14 A | 29-Jul-14 A |
| BC-05-1010 | Pier AC5 - Pile Test | 7 | 0 | 16-Aug-14 A | 17-Sep-14 A |
| BC-05-1020 | Pier AC5 - Pile Cap | 30 | 0 | 06-Oct-14 A | 27-Nov-14 A |
| BC-05-1030 | Pier AC5 - Pier Construction (Twin Pier) | 38 | 0 | 22-Dec-14 A | 15-Oct-15 A |
| BC-06-1000 | Pier AC6 - Piling Works | 12 | 0 | 09-Jul-14 A | 25-Jul-14 A |
| BC-06-1010 | Pier AC6 - Pile Test | 7 | 0 | 16-Aug-14 A | 17-Sep-14 A |
| BC-06-1020 | Pier AC6 - Pile Cap | 30 | 0 | 25-Sep-14 A | 18-Oct-14 A |
| BC-06-1030 | Pier AC6 - Pier Construction | 24 | 0 | 21-Oct-14 A | 20-Mar-15 A |
| BC-07-1000 | Pier AC7 - Piling Works | 24 | 0 | 12-Jul-14 A | 09-Aug-14 A |
| BC-07-1010 | Pier AC7 - Pile Test | 7 | 0 | 29-Aug-14 A | 26-Sep-14 A |
| BC-07-1020 | Pier AC7 - Pile Cap | 30 | 0 | 05-Sep-14 A | 30-Oct-14 A |
| BC-07-1030 | Pier AC7 - Pier Construction | 24 | 0 | 10-Nov-14 A | 16-Feb-15 A |
| BC-08-1000 | Pier AC8 - Piling Works | 24 | 0 | 23-Apr-14 A | 14-Jun-14 A |
| BC-08-1010 | Pier AC8 - Pile Test | 7 | 0 | 17-Jun-14 A | 30-Jul-14 A |
| BC-08-1020 | Pier AC8 - Pile Cap | 30 | 0 | 18-Jul-14 A | 28-Aug-14 A |
| BC-08-1030 | Pier AC8 - Pier Construction | 24 | 0 | 13-Sep-14 A | 13-Dec-14 A |
| BC-09-1000 | Pier AC9 - Piling Works | 24 | 0 | 01-Sep-14 A | 25-Sep-14 A |
| BC-09-1010 | Pier AC9 - Pile Test | 7 | 0 | 08-Oct-14 A | 28-Oct-14 A |
| BC-09-1020 | Pier AC9 - Pile Cap | 30 | 0 | 05-Nov-14 A | 12-Dec-14 A |
| BC-09-1030 | Pier AC9 - Pier Construction | 28 | 0 | 02-Mar-15 A | 19-Aug-15 A |
| BC-10-1000 | Pier AC10 - Piling Works | 12 | 0 | 11-Aug-14 A | 28-Aug-14 A |
| BC-10-1010 | Pier AC10 - Pile Test | 7 | 0 | 13-Sep-14 A | 08-Oct-14 A |
| BC-10-1020 | Pier AC10 - Pile Cap | 30 | 0 | 23-Nov-14 A | 09-Jan-15 A |
| BC-10-1030 | Pier AC10 - Pier Construction | 21 | 0 | 01-Jun-15 A | 06-Jul-15 A |




俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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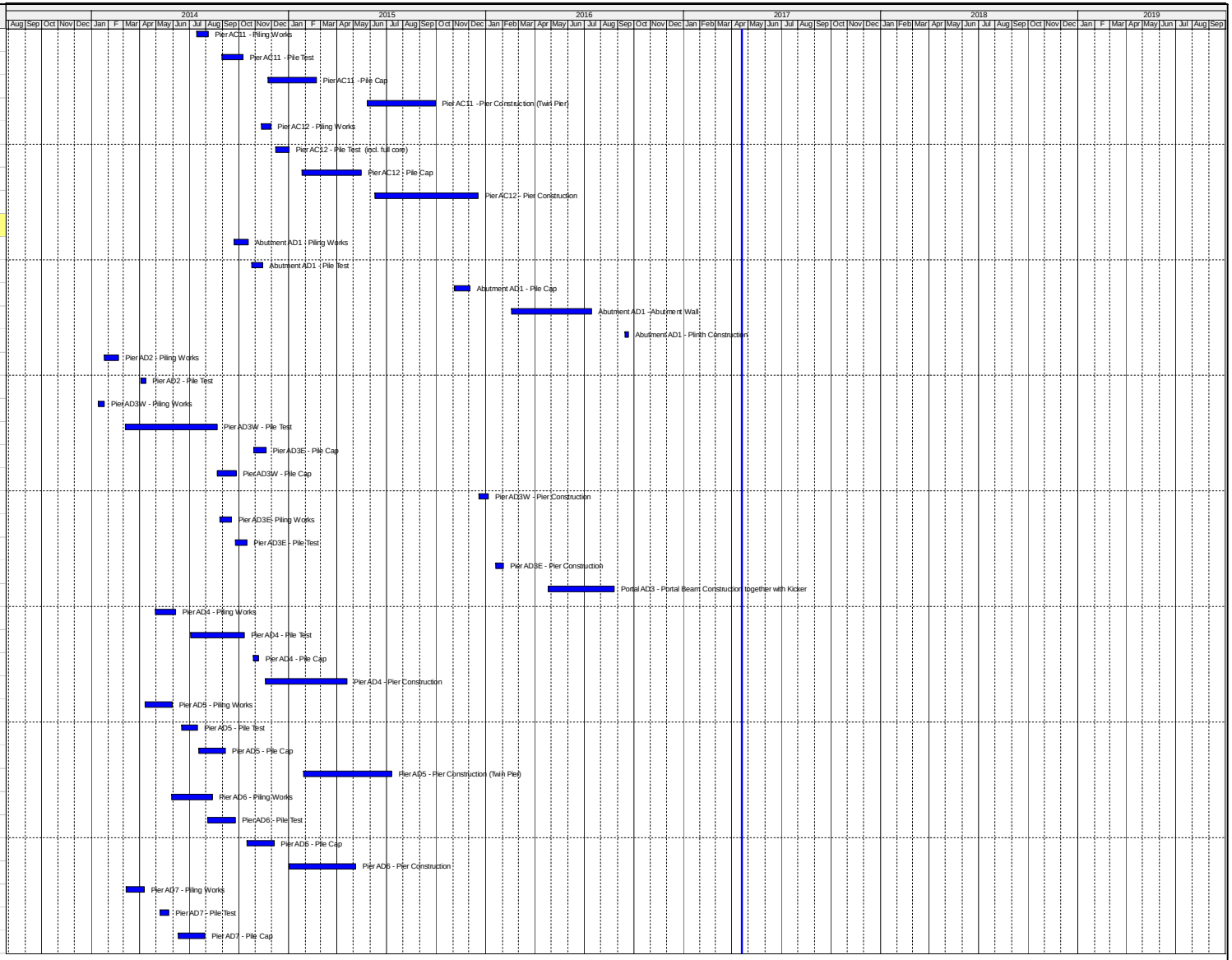
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| BC-11-1000 | Pier AC11 - Piling Works | 12 | 0 | 15-Jul-14 A | 05-Aug-14 A |
| BC-11-1010 | Pier AC11 - Pile Test | 7 | 0 | 30-Aug-14 A | 08-Oct-14 A |
| BC-11-1020 | Pier AC11 - Pile Cap | 30 | 0 | 24-Nov-14 A | 21-Feb-15 A |
| BC-11-1030 | Pier AC11 - Pier Construction (Twin Pier) | 55 | 0 | 27-May-15 A | 29-Sep-15 A |
| BC-12-1000 | Pier AC12 - Piling Works | 12 | 0 | 12-Nov-14 A | 29-Nov-14 A |
| BC-12-1010 | Pier AC12 - Pile Test (incl. full core) | 21 | 0 | 08-Dec-14 A | 02-Jan-15 A |
| BC-12-1020 | Pier AC12 - Pile Cap | 30 | 0 | 26-Jan-15 A | 15-May-15 A |
| BC-12-1030 | Pier AC12 - Pier Construction | 28 | 0 | 10-Jun-15 A | 18-Dec-15 A |
| ***Bridge D*** | | 951 | 18 | 13-Jan-14 A | 12-May-17 |
| BD-01-1000 | Abutment AD1 - Piling Works | 24 | 0 | 22-Sep-14 A | 18-Oct-14 A |
| BD-01-1010 | Abutment AD1 - Pile Test | 7 | 0 | 25-Oct-14 A | 13-Nov-14 A |
| BD-01-1020A | Abutment AD1 - Pile Cap | 30 | 0 | 04-Nov-15 A | 03-Dec-15 A |
| BD-01-1020B | Abutment AD1 - Abutment Wall | 80 | 0 | 18-Feb-16 A | 15-Jul-16 A |
| BD-01-1020C | Abutment AD1 - Plinth Construction | 5 | 0 | 15-Sep-16 A | 21-Sep-16 A |
| BD-02-1000 | Pier AD2 - Piling Works | 12 | 0 | 25-Jan-14 A | 20-Feb-14 A |
| BD-02-1010 | Pier AD2 - Pile Test | 14 | 0 | 03-Apr-14 A | 11-Apr-14 A |
| BD-03-1000 | Pier AD3W - Piling Works | 12 | 0 | 13-Jan-14 A | 24-Jan-14 A |
| BD-03-1010 | Pier AD3W - Pile Test | 14 | 0 | 05-Mar-14 A | 21-Aug-14 A |
| BD-03-1020A | Pier AD3E - Pile Cap | 30 | 0 | 28-Oct-14 A | 20-Nov-14 A |
| BD-03-1020B | Pier AD3W - Pile Cap | 30 | 0 | 22-Aug-14 A | 25-Sep-14 A |
| BD-03-1030 | Pier AD3W - Pier Construction | 28 | 0 | 19-Dec-15 A | 06-Jan-16 A |
| BD-03-2000 | Pier AD3E- Piling Works | 12 | 0 | 27-Aug-14 A | 17-Sep-14 A |
| BD-03-2010 | Pier AD3E - Pile Test | 7 | 0 | 25-Sep-14 A | 15-Oct-14 A |
| BD-03-2030 | Pier AD3E - Pier Construction | 28 | 0 | 19-Jan-16 A | 02-Feb-16 A |
| BD-03-2040 | Portal AD3 - Portal Beam Construction together with Kicker | 60 | 0 | 25-Apr-16 A | 25-Aug-16 A |
| BD-04-1000 | Pier AD4 - Piling Works | 12 | 0 | 29-Apr-14 A | 05-Jun-14 A |
| BD-04-1010 | Pier AD4 - Pile Test | 7 | 0 | 04-Jul-14 A | 11-Oct-14 A |
| BD-04-1020 | Pier AD4 - Pile Cap | 30 | 0 | 27-Oct-14 A | 06-Nov-14 A |
| BD-04-1030 | Pier AD4 - Pier Construction | 24 | 0 | 19-Nov-14 A | 18-Apr-15 A |
| BD-05-1000 | Pier AD5 - Piling Works | 24 | 0 | 10-Apr-14 A | 30-May-14 A |
| BD-05-1010 | Pier AD5 - Pile Test | 7 | 0 | 17-Jun-14 A | 16-Jul-14 A |
| BD-05-1020 | Pier AD5 - Pile Cap | 30 | 0 | 18-Jul-14 A | 05-Sep-14 A |
| BD-05-1030 | Pier AD5 - Pier Construction (Twin Pier) | 37 | 0 | 29-Jan-15 A | 11-Jul-15 A |
| BD-06-1000 | Pier AD6 - Piling Works | 24 | 0 | 29-May-14 A | 13-Aug-14 A |
| BD-06-1010 | Pier AD6 - Pile Test | 7 | 0 | 04-Aug-14 A | 24-Sep-14 A |
| BD-06-1020 | Pier AD6 - Pile Cap | 30 | 0 | 16-Oct-14 A | 05-Dec-14 A |
| BD-06-1030 | Pier AD6 - Pier Construction | 24 | 0 | 02-Jan-15 A | 05-May-15 A |
| BD-07-1000 | Pier AD7 - Piling Works | 24 | 0 | 06-Mar-14 A | 08-Apr-14 A |
| BD-07-1010 | Pier AD7 - Pile Test | 7 | 0 | 08-May-14 A | 24-May-14 A |
| BD-07-1020 | Pier AD7 - Pile Cap | 30 | 0 | 11-Jun-14 A | 30-Jul-14 A |




俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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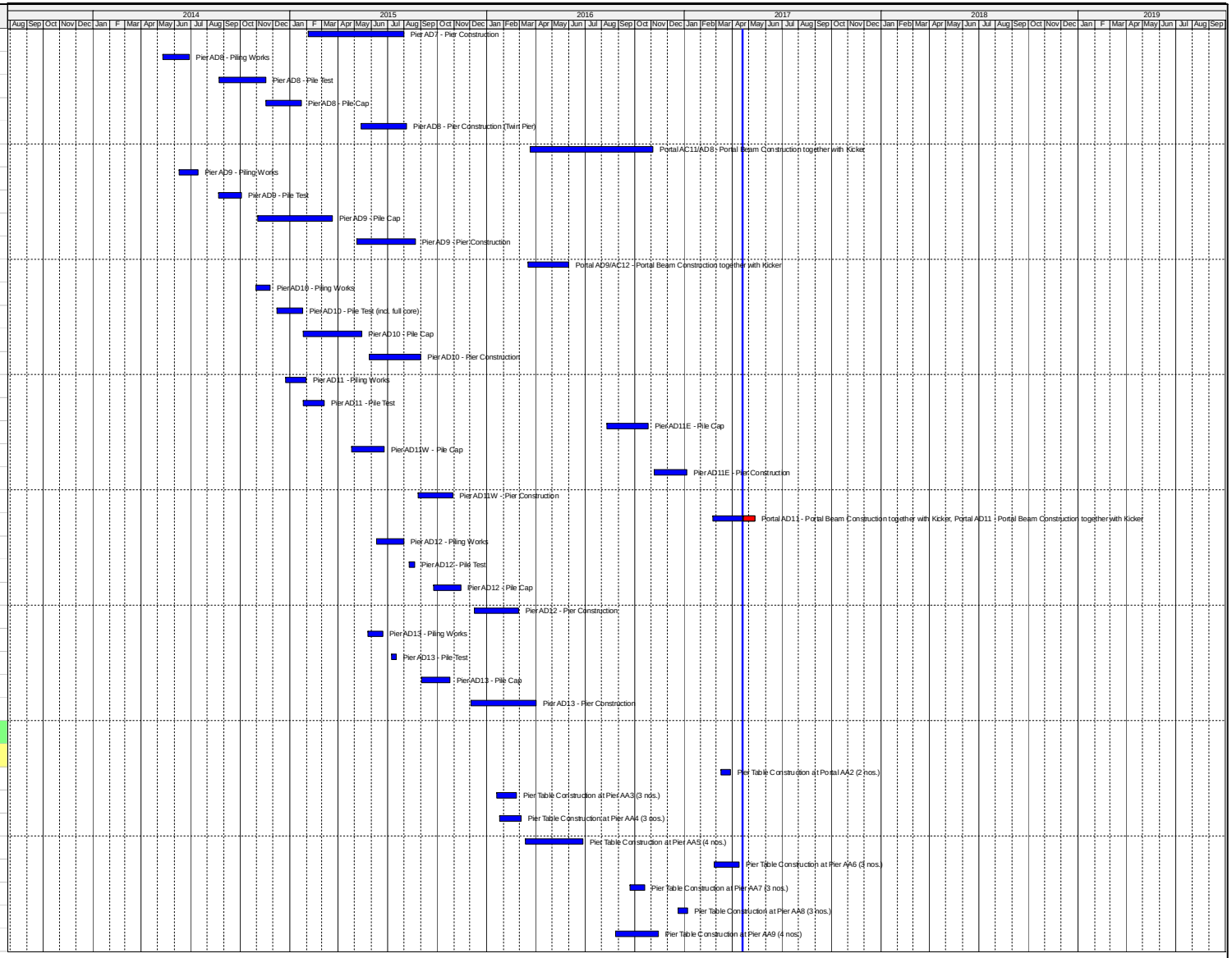
| | | | |
| | | | |
| | | | |

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| BD-07-1030 | Pier AD7 - Pier Construction | 32 | 0 | 04-Feb-15 A | 31-Jul-15 A |
| BD-08-1000 | Pier AD8 - Piling Works | 12 | 0 | 10-May-14 A | 28-Jun-14 A |
| BD-08-1010 | Pier AD8 - Pile Test | 7 | 0 | 23-Aug-14 A | 17-Nov-14 A |
| BD-08-1020 | Pier AD8 - Pile Cap | 30 | 0 | 18-Nov-14 A | 22-Jan-15 A |
| BD-08-1030 | Pier AD8 - Pier Construction (Twin Pier) | 55 | 0 | 13-May-15 A | 05-Aug-15 A |
| BD-08-1040 | Portal AC11/AD8 - Portal Beam Construction together with Kicker | 85 | 0 | 21-Mar-16 A | 04-Nov-16 A |
| BD-09-1000 | Pier AD9 - Piling Works | 24 | 0 | 09-Jun-14 A | 14-Jul-14 A |
| BD-09-1010 | Pier AD9 - Pile Test | 7 | 0 | 21-Aug-14 A | 03-Oct-14 A |
| BD-09-1020 | Pier AD9 - Pile Cap | 30 | 0 | 03-Nov-14 A | 21-Mar-15 A |
| BD-09-1030 | Pier AD9 - Pier Construction | 49 | 0 | 05-May-15 A | 21-Aug-15 A |
| BD-09-1040 | Portal AD9/AC12 - Portal Beam Construction together with Kicker | 55 | 0 | 17-Mar-16 A | 31-May-16 A |
| BD-10-1000 | Pier AD10 - Piling Works | 24 | 0 | 30-Oct-14 A | 25-Nov-14 A |
| BD-10-1010 | Pier AD10 - Pile Test (incl. full core) | 21 | 0 | 08-Dec-14 A | 24-Jan-15 A |
| BD-10-1020 | Pier AD10 - Pile Cap | 30 | 0 | 26-Jan-15 A | 14-May-15 A |
| BD-10-1030 | Pier AD10 - Pier Construction | 24 | 0 | 28-May-15 A | 31-Aug-15 A |
| BD-11-1000 | Pier AD11 - Piling Works | 36 | 0 | 24-Dec-14 A | 31-Jan-15 A |
| BD-11-1010 | Pier AD11 - Pile Test | 7 | 0 | 26-Jan-15 A | 06-Mar-15 A |
| BD-11-1020A | Pier AD11E - Pile Cap | 35 | 0 | 11-Aug-16 A | 26-Oct-16 A |
| BD-11-1020B | Pier AD11W - Pile Cap | 30 | 0 | 25-Apr-15 A | 24-Jun-15 A |
| BD-11-1030 | Pier AD11E - Pier Construction | 35 | 0 | 07-Nov-16 A | 05-Jan-17 A |
| BD-11-1040 | Pier AD11W - Pier Construction | 84 | 0 | 26-Aug-15 A | 29-Oct-15 A |
| BD-11-1050 | Portal AD11 - Portal Beam Construction together with Kicker | 65 | 18 | 23-Feb-17 A | 12-May-17 |
| BD-12-1000 | Pier AD12 - Piling Works | 24 | 0 | 11-Jun-15 A | 31-Jul-15 A |
| BD-12-1010 | Pier AD12 - Pile Test | 14 | 0 | 10-Aug-15 A | 20-Aug-15 A |
| BD-12-1020 | Pier AD12 - Pile Cap | 30 | 0 | 24-Sep-15 A | 13-Nov-15 A |
| BD-12-1030 | Pier AD12 - Pier Construction | 45 | 0 | 09-Dec-15 A | 29-Feb-16 A |
| BD-13-1000 | Pier AD13 - Piling Works | 12 | 0 | 26-May-15 A | 22-Jun-15 A |
| BD-13-1010 | Pier AD13 - Pile Test | 14 | 0 | 08-Jul-15 A | 17-Jul-15 A |
| BD-13-1020 | Pier AD13 - Pile Cap | 30 | 0 | 02-Sep-15 A | 24-Oct-15 A |
| BD-13-1030 | Pier AD13 - Pier Construction | 45 | 0 | 03-Dec-15 A | 01-Apr-16 A |
| ***Pier Table Construction*** | | 688 | 60 | 26-Jan-15 A | 03-Jul-17 |
| ***Bridge A*** | | 553 | 0 | 19-May-15 A | 13-Apr-17 A |
| PA-1020 | Pier Table Construction at Portal AA2 (2 nos.) | 15 | 0 | 10-Mar-17 A | 27-Mar-17 A |
| PA-1030 | Pier Table Construction at Pier AA3 (3 nos.) | 30 | 0 | 19-Jan-16 A | 25-Feb-16 A |
| PA-1040 | Pier Table Construction at Pier AA4 (3 nos.) | 35 | 0 | 25-Jan-16 A | 05-Mar-16 A |
| PA-1050 | Pier Table Construction at Pier AA5 (4 nos.) | 40 | 0 | 12-Mar-16 A | 27-Jun-16 A |
| PA-1060 | Pier Table Construction at Pier AA6 (3 nos.) | 25 | 0 | 25-Feb-17 A | 13-Apr-17 A |
| PA-1070 | Pier Table Construction at Pier AA7 (3 nos.) | 29 | 0 | 22-Sep-16 A | 20-Oct-16 A |
| PA-1080 | Pier Table Construction at Pier AA8 (3 nos.) | 30 | 0 | 20-Dec-16 A | 07-Jan-17 A |
| PA-1090 | Pier Table Construction at Pier AA9 (4 nos.) | 50 | 0 | 27-Aug-16 A | 14-Nov-16 A |

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- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

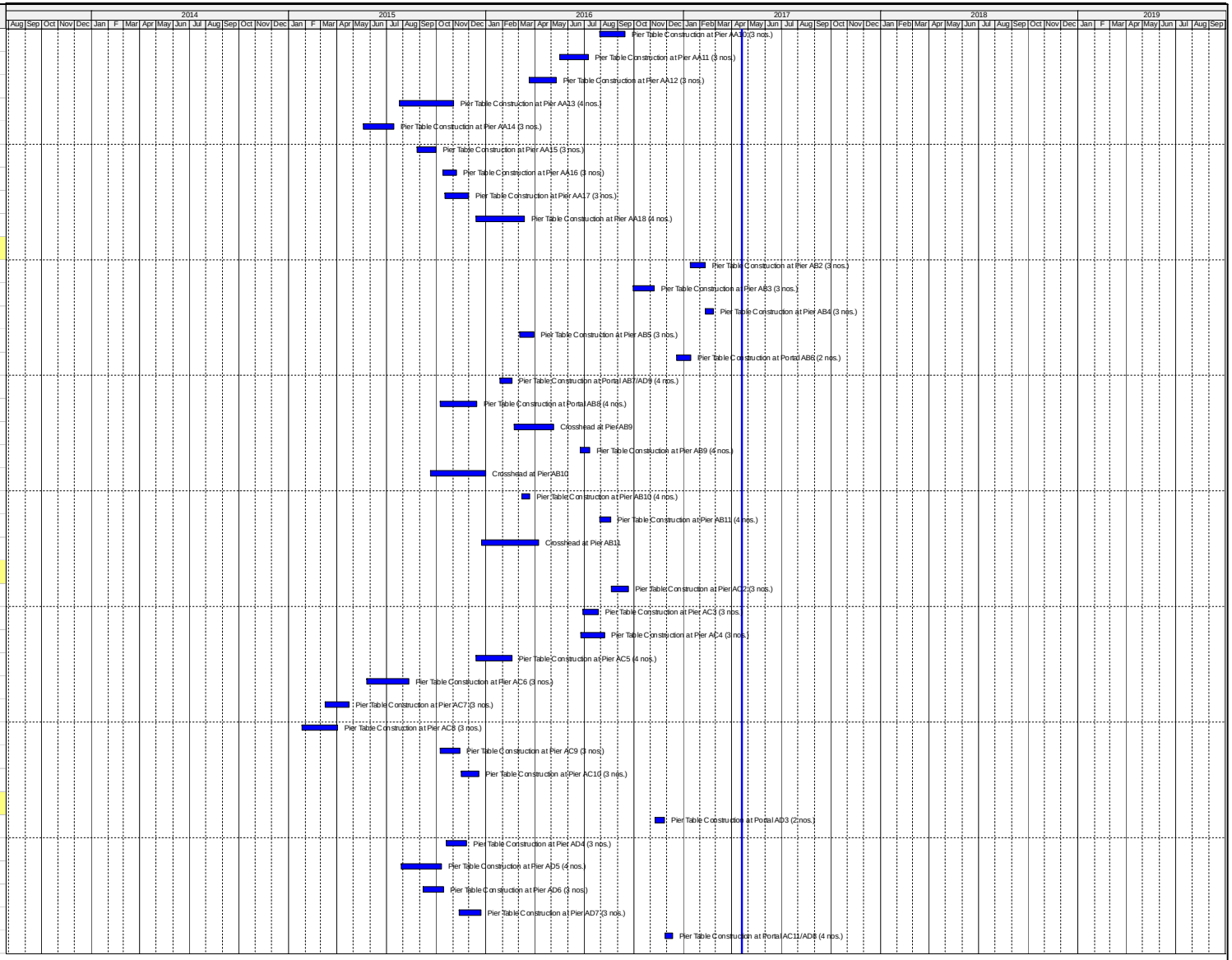
## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| PA-1100 | Pier Table Construction at Pier AA10 (3 nos.) | 35 | 0 | 30-Jul-16 A | 14-Sep-16 A |
| PA-1110 | Pier Table Construction at Pier AA11 (3 nos.) | 35 | 0 | 17-May-16 A | 09-Jul-16 A |
| PA-1120 | Pier Table Construction at Pier AA12 (3 nos.) | 35 | 0 | 21-Mar-16 A | 10-May-16 A |
| PA-1130 | Pier Table Construction at Pier AA13 (4 nos.) | 45 | 0 | 25-Jul-15 A | 02-Nov-15 A |
| PA-1140 | Pier Table Construction at Pier AA14 (3 nos.) | 40 | 0 | 19-May-15 A | 14-Jul-15 A |
| PA-1150 | Pier Table Construction at Pier AA15 (3 nos.) | 30 | 0 | 27-Aug-15 A | 30-Sep-15 A |
| PA-1160 | Pier Table Construction at Pier AA16 (3 nos.) | 25 | 0 | 13-Oct-15 A | 07-Nov-15 A |
| PA-1170 | Pier Table Construction at Pier AA17 (3 nos.) | 40 | 0 | 17-Oct-15 A | 30-Nov-15 A |
| PA-1180 | Pier Table Construction at Pier AA18 (4 nos.) | 50 | 0 | 14-Dec-15 A | 12-Mar-16 A |
| ***Bridge B*** | | 405 | 0 | 21-Sep-15 A | 25-Feb-17 A |
| PB-1020 | Pier Table Construction at Pier AB2 (3 nos.) | 30 | 0 | 13-Jan-17 A | 10-Feb-17 A |
| PB-1030 | Pier Table Construction at Pier AB3 (3 nos.) | 35 | 0 | 30-Sep-16 A | 07-Nov-16 A |
| PB-1040 | Pier Table Construction at Pier AB4 (3 nos.) | 25 | 0 | 10-Feb-17 A | 25-Feb-17 A |
| PB-1050 | Pier Table Construction at Pier AB5 (3 nos.) | 30 | 0 | 04-Mar-16 A | 30-Mar-16 A |
| PB-1060 | Pier Table Construction at Portal AB6 (2 nos.) | 15 | 0 | 19-Dec-16 A | 14-Jan-17 A |
| PB-1070 | Pier Table Construction at Portal AB7/AD9 (4 nos.) | 15 | 0 | 27-Jan-16 A | 19-Feb-16 A |
| PB-1080 | Pier Table Construction at Portal AB8 (4 nos.) | 15 | 0 | 08-Oct-15 A | 15-Dec-15 A |
| PB-1090A | Crosshead at Pier AB9 | 85 | 0 | 23-Feb-16 A | 05-May-16 A |
| PB-1090B | Pier Table Construction at Pier AB9 (4 nos.) | 15 | 0 | 24-Jun-16 A | 11-Jul-16 A |
| PB-1100A | Crosshead at Pier AB10 | 90 | 0 | 21-Sep-15 A | 31-Dec-15 A |
| PB-1100B | Pier Table Construction at Pier AB10 (4 nos.) | 15 | 0 | 07-Mar-16 A | 22-Mar-16 A |
| PB-1110 A | Pier Table Construction at Pier AB11 (4 nos.) | 15 | 0 | 30-Jul-16 A | 19-Aug-16 A |
| PB-1110 B | Crosshead at Pier AB11 | 85 | 0 | 24-Dec-15 A | 08-Apr-16 A |
| ***Bridge C*** | | 478 | 0 | 26-Jan-15 A | 21-Sep-16 A |
| PC-1020 | Pier Table Construction at Pier AC2 (3 nos.) | 35 | 0 | 20-Aug-16 A | 21-Sep-16 A |
| PC-1030 | Pier Table Construction at Pier AC3 (3 nos.) | 35 | 0 | 29-Jun-16 A | 27-Jul-16 A |
| PC-1040 | Pier Table Construction at Pier AC4 (3 nos.) | 35 | 0 | 25-Jun-16 A | 08-Aug-16 A |
| PC-1050 | Pier Table Construction at Pier AC5 (4 nos.) | 50 | 0 | 14-Dec-15 A | 19-Feb-16 A |
| PC-1060 | Pier Table Construction at Pier AC6 (3 nos.) | 50 | 0 | 26-May-15 A | 11-Aug-15 A |
| PC-1070 | Pier Table Construction at Pier AC7 (3 nos.) | 35 | 0 | 10-Mar-15 A | 23-Apr-15 A |
| PC-1080 | Pier Table Construction at Pier AC8 (3 nos.) | 40 | 0 | 26-Jan-15 A | 01-Apr-15 A |
| PC-1090 | Pier Table Construction at Pier AC9 (3 nos.) | 30 | 0 | 08-Oct-15 A | 13-Nov-15 A |
| PC-1100 | Pier Table Construction at Pier AC10 (3 nos.) | 30 | 0 | 17-Nov-15 A | 19-Dec-15 A |
| ***Bridge D*** | | 560 | 60 | 28-Jul-15 A | 03-Jul-17 |
| PD-1030 | Pier Table Construction at Portal AD3 (2 nos.) | 15 | 0 | 09-Nov-16 A | 26-Nov-16 A |
| PD-1040 | Pier Table Construction at Pier AD4 (3 nos.) | 30 | 0 | 20-Oct-15 A | 26-Nov-15 A |
| PD-1050 | Pier Table Construction at Pier AD5 (4 nos.) | 45 | 0 | 28-Jul-15 A | 10-Oct-15 A |
| PD-1060 | Pier Table Construction at Pier AD6 (3 nos.) | 30 | 0 | 07-Sep-15 A | 14-Oct-15 A |
| PD-1070 | Pier Table Construction at Pier AD7 (3 nos.) | 35 | 0 | 12-Nov-15 A | 22-Dec-15 A |
| PD-1080 | Pier Table Construction at Portal AC11/AD8 (4 nos.) | 12 | 0 | 28-Nov-16 A | 12-Dec-16 A |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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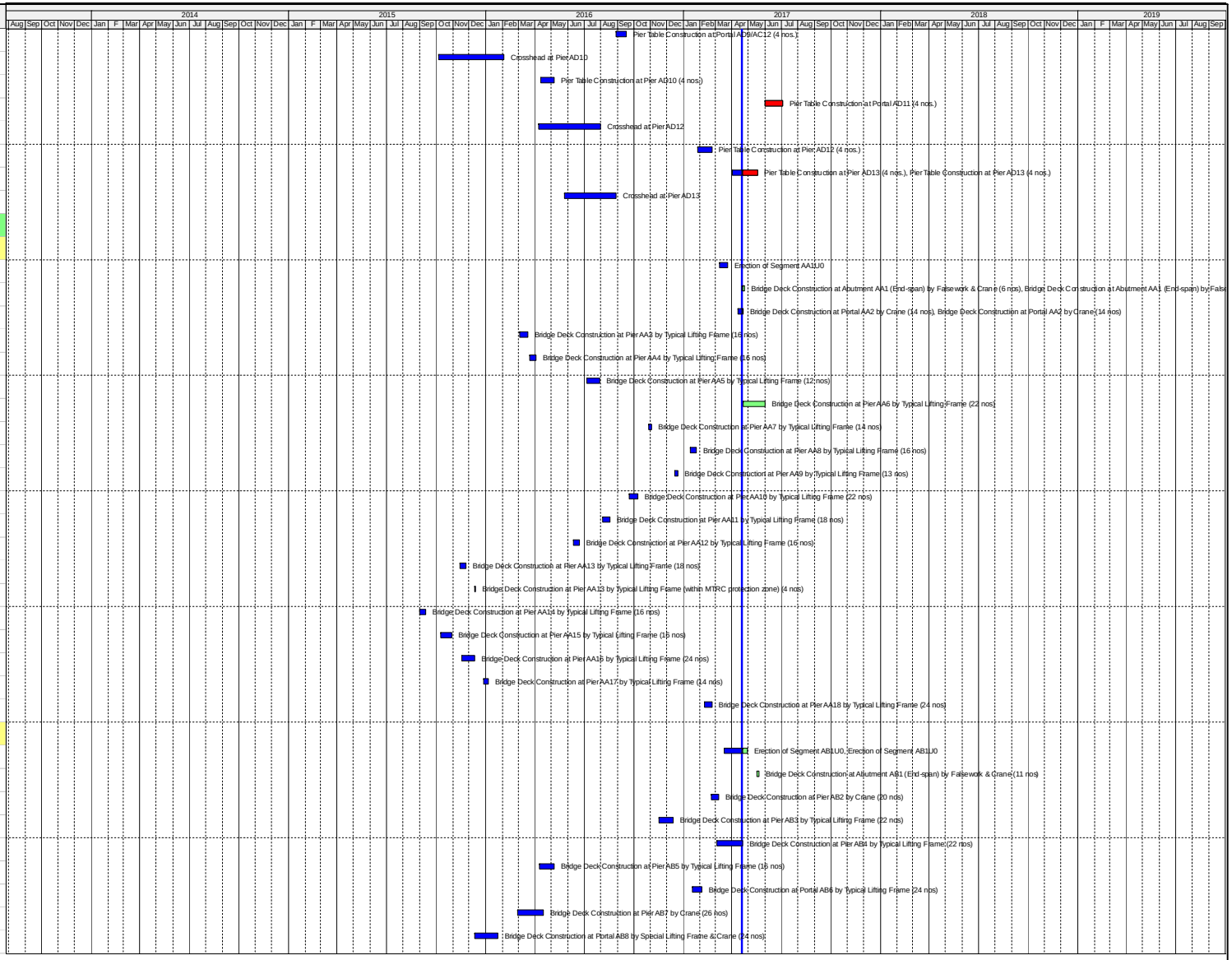
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| PD-1090 | Pier Table Construction at Portal AD9/AC12 (4 nos.) | 15 | 0 | 29-Aug-16 A | 17-Sep-16 A |
| PD-1100A | Crosshead at Pier AD10 | 90 | 0 | 06-Oct-15 A | 03-Feb-16 A |
| PD-1100B | Pier Table Construction at Pier AD10 (4 nos.) | 15 | 0 | 11-Apr-16 A | 07-May-16 A |
| PD-1110 | Pier Table Construction at Portal AD11 (4 nos.) | 27 | 27 | 01-Jun-17 | 03-Jul-17 |
| PD-1120A | Crosshead at Pier AD12 | 90 | 0 | 08-Apr-16 A | 31-Jul-16 A |
| PD-1120B | Pier Table Construction at Pier AD12 (4 nos.) | 15 | 0 | 27-Jan-17 A | 23-Feb-17 A |
| PD-1130 | Pier Table Construction at Pier AD13 (4 nos.) | 15 | 23 | 01-Apr-17 A | 18-May-17 |
| PD-1130B | Crosshead at Pier AD13 | 85 | 0 | 26-May-16 A | 29-Aug-16 A |
| ***Viaduct Bridge Segement Erection*** | | 793 | 243 | 11-May-15 A | 08-Feb-18 |
| ***Bridge A*** | | 459 | 34 | 31-Aug-15 A | 01-Jun-17 |
| EA-1010A | Erection of Segment AA1U0 | 20 | 0 | 08-Mar-17 A | 24-Mar-17 A |
| EA-1010B | Bridge Deck Construction at Abutment AA1 (End-span) by Falsework & Crane (6 nos) | 6 | 4 | 19-Apr-17 A | 24-Apr-17 |
| EA-1020 | Bridge Deck Construction at Portal AA2 by Crane (14 nos) | 8 | 2 | 12-Apr-17 A | 21-Apr-17 |
| EA-1030 | Bridge Deck Construction at Pier AA3 by Typical Lifting Frame (16 nos) | 13 | 0 | 04-Mar-16 A | 18-Mar-16 A |
| EA-1040 | Bridge Deck Construction at Pier AA4 by Typical Lifting Frame (16 nos) | 8 | 0 | 22-Mar-16 A | 02-Apr-16 A |
| EA-1050 | Bridge Deck Construction at Pier AA5 by Typical Lifting Frame (12 nos) | 22 | 0 | 06-Jul-16 A | 30-Jul-16 A |
| EA-1060 | Bridge Deck Construction at Pier AA6 by Typical Lifting Frame (22 nos) | 32 | 32 | 22-Apr-17 | 01-Jun-17 |
| EA-1070 | Bridge Deck Construction at Pier AA7 by Typical Lifting Frame (14 nos) | 15 | 0 | 29-Oct-16 A | 02-Nov-16 A |
| EA-1080 | Bridge Deck Construction at Pier AA8 by Typical Lifting Frame (16 nos) | 8 | 0 | 13-Jan-17 A | 25-Jan-17 A |
| EA-1090 | Bridge Deck Construction at Pier AA9 by Typical Lifting Frame (13 nos) | 8 | 0 | 15-Dec-16 A | 21-Dec-16 A |
| EA-1100 | Bridge Deck Construction at Pier AA10 by Typical Lifting Frame (22 nos) | 14 | 0 | 22-Sep-16 A | 08-Oct-16 A |
| EA-1110 | Bridge Deck Construction at Pier AA11 by Typical Lifting Frame (18 nos) | 13 | 0 | 04-Aug-16 A | 18-Aug-16 A |
| EA-1120 | Bridge Deck Construction at Pier AA12 by Typical Lifting Frame (16 nos) | 10 | 0 | 11-Jun-16 A | 22-Jun-16 A |
| EA-1130A | Bridge Deck Construction at Pier AA13 by Typical Lifting Frame (18 nos) | 10 | 0 | 14-Nov-15 A | 25-Nov-15 A |
| EA-1130B | Bridge Deck Construction at Pier AA13 by Typical Lifting Frame (within MTRC protection zone) (4 nos) | 2 | 0 | 11-Dec-15 A | 12-Dec-15 A |
| EA-1140 | Bridge Deck Construction at Pier AA14 by Typical Lifting Frame (16 nos) | 11 | 0 | 31-Aug-15 A | 11-Sep-15 A |
| EA-1150 | Bridge Deck Construction at Pier AA15 by Typical Lifting Frame (16 nos) | 18 | 0 | 09-Oct-15 A | 30-Oct-15 A |
| EA-1160 | Bridge Deck Construction at Pier AA16 by Typical Lifting Frame (24 nos) | 21 | 0 | 18-Nov-15 A | 11-Dec-15 A |
| EA-1170 | Bridge Deck Construction at Pier AA17 by Typical Lifting Frame (14 nos) | 7 | 0 | 28-Dec-15 A | 05-Jan-16 A |
| EA-1180 | Bridge Deck Construction at Pier AA18 by Typical Lifting Frame (24 nos) | 9 | 0 | 09-Feb-17 A | 22-Feb-17 A |
| ***Bridge B*** | | 407 | 47 | 11-Dec-15 A | 16-Jun-17 |
| EB-1010A | Erection of Segment AB1U0 | 25 | 9 | 18-Mar-17 A | 29-Apr-17 |
| EB-1010B | Bridge Deck Construction at Abutment AB1 (End-span) by Falsework & Crane (11 nos) | 4 | 4 | 17-May-17* | 20-May-17 |
| EB-1020 | Bridge Deck Construction at Pier AB2 by Crane (20 nos) | 12 | 0 | 22-Feb-17 A | 07-Mar-17 A |
| EB-1030 | Bridge Deck Construction at Pier AB3 by Typical Lifting Frame (22 nos) | 23 | 0 | 17-Nov-16 A | 13-Dec-16 A |
| EB-1040 | Bridge Deck Construction at Pier AB4 by Typical Lifting Frame (22 nos) | 33 | 0 | 03-Mar-17 A | 20-Apr-17 A |
| EB-1050 | Bridge Deck Construction at Pier AB5 by Typical Lifting Frame (16 nos) | 24 | 0 | 09-Apr-16 A | 07-May-16 A |
| EB-1060 | Bridge Deck Construction at Portal AB6 by Typical Lifting Frame (24 nos) | 6 | 0 | 17-Jan-17 A | 04-Feb-17 A |
| EB-1070 | Bridge Deck Construction at Pier AB7 by Crane (26 nos) | 38 | 0 | 29-Feb-16 A | 16-Apr-16 A |
| EB-1080 | Bridge Deck Construction at Portal AB8 by Special Lifting Frame & Crane (24 nos) | 35 | 0 | 11-Dec-15 A | 23-Jan-16 A |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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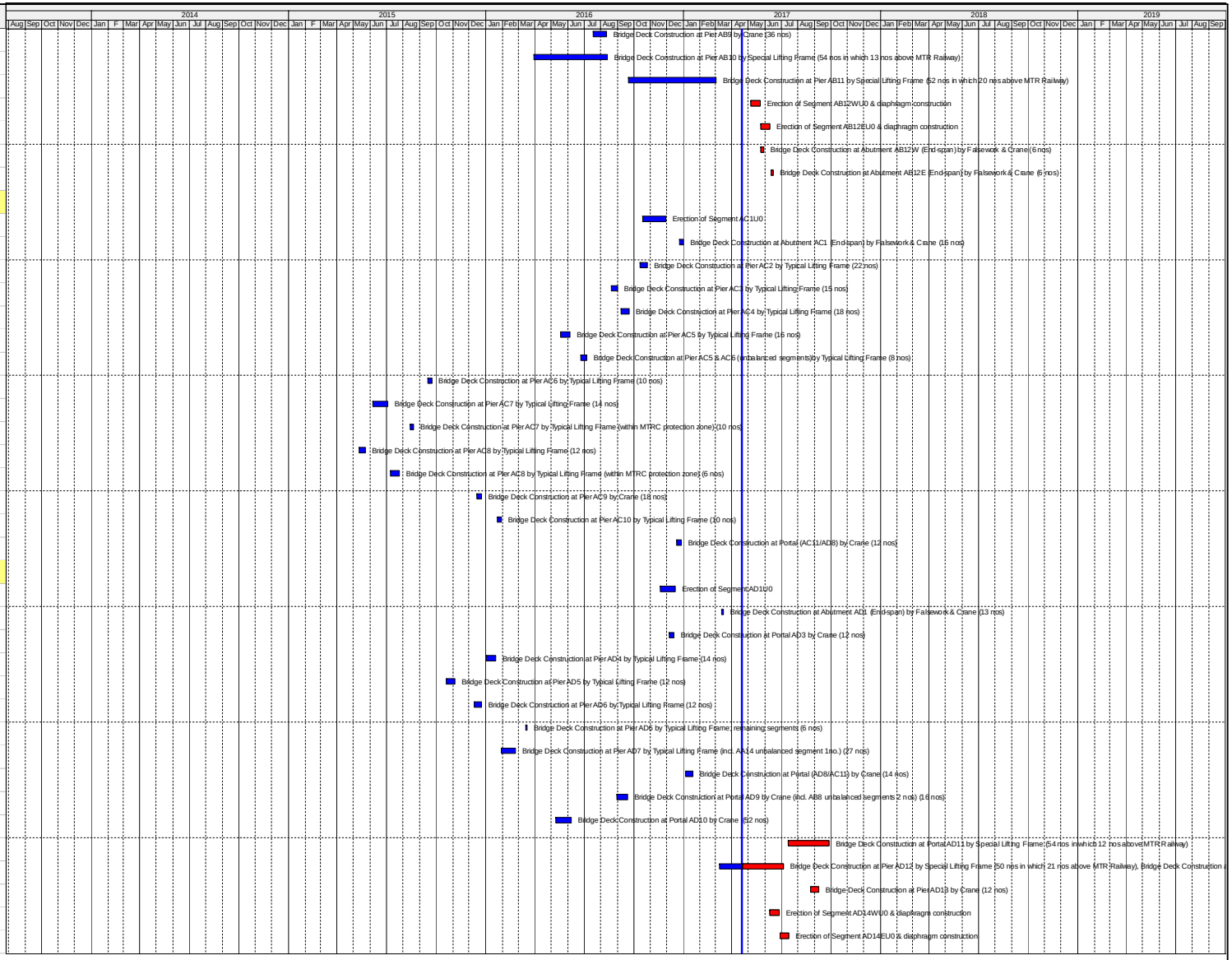
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| EB-1090 | Bridge Deck Construction at Pier AB9 by Crane (36 nos) | 22 | 0 | 18-Jul-16 A | 11-Aug-16 A |
| EB-1100 | Bridge Deck Construction at Pier AB10 by Special Lifting Frame (54 nos in which 13 nos above MTR Railway) | 112 | 0 | 30-Mar-16 A | 12-Aug-16 A |
| EB-1110 | Bridge Deck Construction at Pier AB11 by Special Lifting Frame (52 nos in which 20 nos above MTR Railway) | 107 | 0 | 21-Sep-16 A | 02-Mar-17 A |
| EB-1120A | Erection of Segment AB12WU0 & diaphragm construction | 15 | 15 | 06-May-17 | 23-May-17 |
| EB-1120B | Erection of Segment AB12EU0 & diaphragm construction | 14 | 14 | 24-May-17 | 09-Jun-17 |
| EB-1120C | Bridge Deck Construction at Abutment AB12W (End-span) by Falsework & Crane (6 nos) | 5 | 5 | 24-May-17 | 29-May-17 |
| EB-1120D | Bridge Deck Construction at Abutment AB12E (End-span) by Falsework & Crane (6 nos) | 5 | 5 | 12-Jun-17 | 16-Jun-17 |
| ***Bridge C*** | | 492 | 0 | 11-May-15 A | 31-Dec-16 A |
| EC-1010A | Erection of Segment AC1U0 | 27 | 0 | 17-Oct-16 A | 29-Nov-16 A |
| EC-1010C | Bridge Deck Construction at Abutment AC1 (End-span) by Falsework & Crane (16 nos) | 8 | 0 | 24-Dec-16 A | 31-Dec-16 A |
| EC-1020 | Bridge Deck Construction at Pier AC2 by Typical Lifting Frame (22 nos) | 13 | 0 | 12-Oct-16 A | 26-Oct-16 A |
| EC-1030 | Bridge Deck Construction at Pier AC3 by Typical Lifting Frame (15 nos) | 10 | 0 | 20-Aug-16 A | 31-Aug-16 A |
| EC-1040 | Bridge Deck Construction at Pier AC4 by Typical Lifting Frame (18 nos) | 15 | 0 | 07-Sep-16 A | 22-Sep-16 A |
| EC-1050A | Bridge Deck Construction at Pier AC5 by Typical Lifting Frame (16 nos) | 16 | 0 | 18-May-16 A | 04-Jun-16 A |
| EC-1050B | Bridge Deck Construction at Pier AC5 & AC6 (unbalanced segments)by Typical Lifting Frame (8 nos) | 9 | 0 | 25-Jun-16 A | 06-Jul-16 A |
| EC-1060 | Bridge Deck Construction at Pier AC6 by Typical Lifting Frame (10 nos) | 7 | 0 | 16-Sep-15 A | 23-Sep-15 A |
| EC-1070A | Bridge Deck Construction at Pier AC7 by Typical Lifting Frame (14 nos) | 22 | 0 | 06-Jun-15 A | 03-Jul-15 A |
| EC-1070B | Bridge Deck Construction at Pier AC7 by Typical Lifting Frame (within MTRC protection zone) (10 nos) | 6 | 0 | 14-Aug-15 A | 20-Aug-15 A |
| EC-1080A | Bridge Deck Construction at Pier AC8 by Typical Lifting Frame (12 nos) | 11 | 0 | 11-May-15 A | 22-May-15 A |
| EC-1080B | Bridge Deck Construction at Pier AC8 by Typical Lifting Frame (within MTRC protection zone) (6 nos) | 16 | 0 | 08-Jul-15 A | 25-Jul-15 A |
| EC-1090 | Bridge Deck Construction at Pier AC9 by Crane (18 nos) | 9 | 0 | 15-Dec-15 A | 24-Dec-15 A |
| EC-1100 | Bridge Deck Construction at Pier AC10 by Typical Lifting Frame (10 nos) | 7 | 0 | 22-Jan-16 A | 29-Jan-16 A |
| EC-1110 | Bridge Deck Construction at Portal (AC11/AD8) by Crane (12 nos) | 7 | 0 | 19-Dec-16 A | 28-Dec-16 A |
| ***Bridge D*** | | 598 | 169 | 20-Oct-15 A | 10-Nov-17 |
| ED-1010A | Erection of Segment AD1U0 | 27 | 0 | 19-Nov-16 A | 16-Dec-16 A |
| ED-1010B | Bridge Deck Construction at Abutment AD1 (End-span) by Falsework & Crane (13 nos) | 12 | 0 | 13-Mar-17 A | 16-Mar-17 A |
| ED-1030 | Bridge Deck Construction at Portal AD3 by Crane (12 nos) | 6 | 0 | 05-Dec-16 A | 14-Dec-16 A |
| ED-1040 | Bridge Deck Construction at Pier AD4 by Typical Lifting Frame (14 nos) | 15 | 0 | 02-Jan-16 A | 19-Jan-16 A |
| ED-1050 | Bridge Deck Construction at Pier AD5 by Typical Lifting Frame (12 nos) | 14 | 0 | 20-Oct-15 A | 05-Nov-15 A |
| ED-1060A | Bridge Deck Construction at Pier AD6 by Typical Lifting Frame (12 nos) | 13 | 0 | 10-Dec-15 A | 24-Dec-15 A |
| ED-1060B | Bridge Deck Construction at Pier AD6 by Typical Lifting Frame; remaining segments (6 nos) | 3 | 0 | 15-Mar-16 A | 17-Mar-16 A |
| ED-1070 | Bridge Deck Construction at Pier AD7 by Typical Lifting Frame (incl. AA14 unbalanced segment 1no.) (27 nos) | 18 | 0 | 29-Jan-16 A | 25-Feb-16 A |
| ED-1080 | Bridge Deck Construction at Portal (AD8/AC11) by Crane (14 nos) | 8 | 0 | 05-Jan-17 A | 18-Jan-17 A |
| ED-1090 | Bridge Deck Construction at Portal AD9 by Crane (incl. AB8 unbalanced segments 2 nos) (16 nos) | 29 | 0 | 31-Aug-16 A | 19-Sep-16 A |
| ED-1100 | Bridge Deck Construction at Portal AD10 by Crane (52 nos) | 25 | 0 | 09-May-16 A | 07-Jun-16 A |
| ED-1110 | Bridge Deck Construction at Portal AD11 by Special Lifting Frame (54 nos in which 12 nos above MTR Railway) | 65 | 65 | 14-Jul-17 | 27-Sep-17 |
| ED-1120 | Bridge Deck Construction at Pier AD12 by Special Lifting Frame (50 nos in which 21 nos above MTR Railway) | 79 | 62 | 09-Mar-17 A | 05-Jul-17 |
| ED-1130 | Bridge Deck Construction at Pier AD13 by Crane (12 nos) | 14 | 14 | 24-Aug-17 | 08-Sep-17 |
| ED-1140A | Erection of Segment AD14WU0 & diaphragm construction | 15 | 15 | 10-Jun-17 | 27-Jun-17 |
| ED-1140B | Erection of Segment AD14EU0 & diaphragm construction | 15 | 15 | 28-Jun-17 | 15-Jul-17 |

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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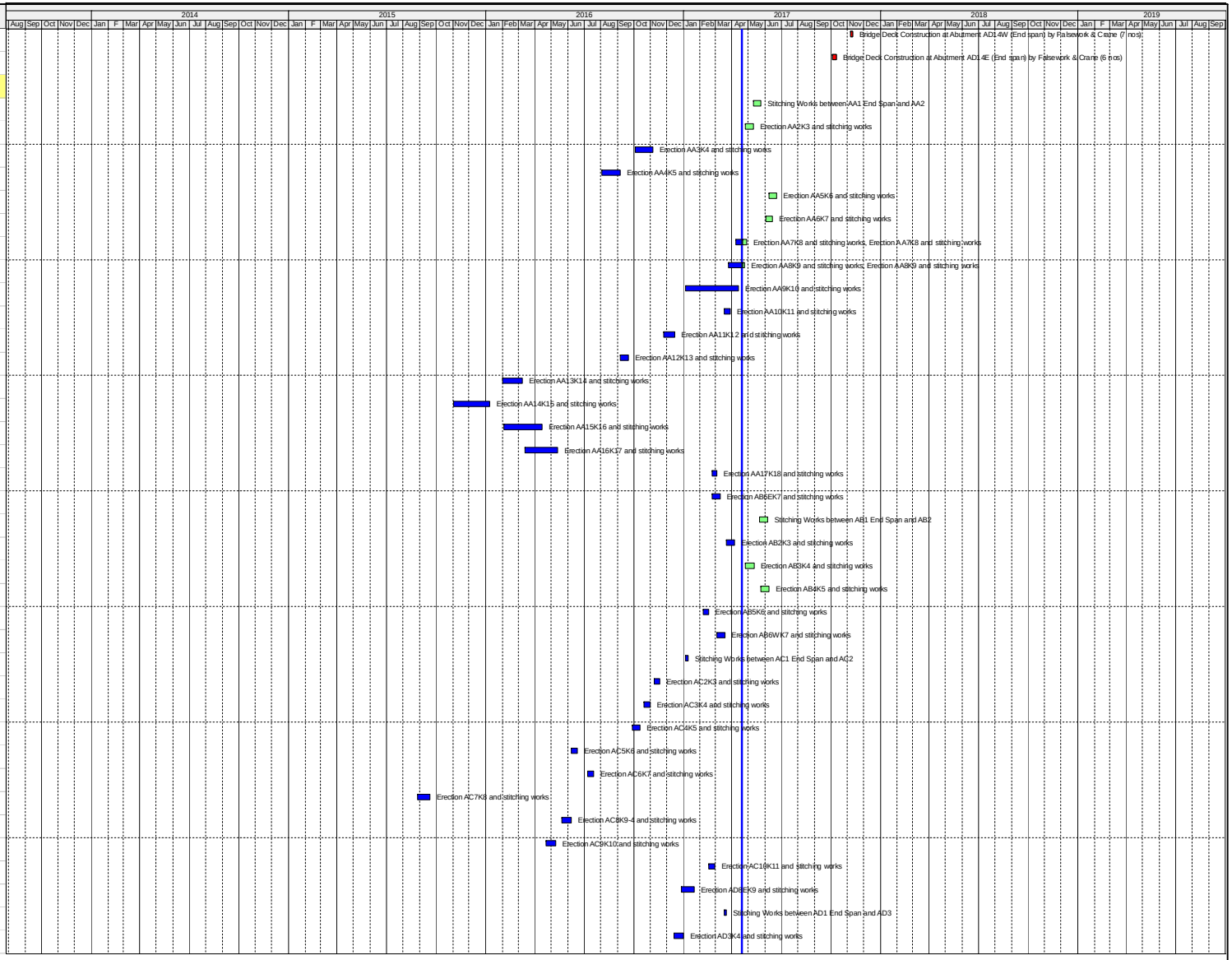
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| ED-1140C | Bridge Deck Construction at Abutment AD14W (End span) by Falsework & Crane (7 nos) | 5 | 5 | 06-Nov-17 | 10-Nov-17 |
| ED-1140C10 | Bridge Deck Construction at Abutment AD14E (End span) by Falsework & Crane (6 nos) | 6 | 6 | 04-Oct-17 | 11-Oct-17 |
| ***Key Segment Erection and Stitch Casting (Wide-box Section)*** | | 118 | 52 | 28-Aug-15 A | 22-Jun-17 |
| KS-A-1010 | Stitching Works between AA1 End Span and AA2 | 12 | 12 | 11-May-17 | 24-May-17 |
| KS-A-1020 | Erection AA2K3 and stitching works | 12 | 12 | 25-Apr-17 | 10-May-17 |
| KS-A-1030 | Erection AA3K4 and stitching works | 14 | 0 | 03-Oct-16 A | 05-Nov-16 A |
| KS-A-1040 | Erection AA4K5 and stitching works | 14 | 0 | 03-Aug-16 A | 05-Sep-16 A |
| KS-A-1050 | Erection AA5K6 and stitching works | 12 | 12 | 09-Jun-17 | 22-Jun-17 |
| KS-A-1060 | Erection AA6K7 and stitching works | 12 | 12 | 02-Jun-17 | 15-Jun-17 |
| KS-A-1070 | Erection AA7K8 and stitching works | 12 | 7 | 08-Apr-17 A | 27-Apr-17 |
| KS-A-1080 | Erection AA8K9 and stitching works | 12 | 4 | 25-Mar-17 A | 24-Apr-17 |
| KS-A-1090 | Erection AA9K10 and stitching works | 12 | 0 | 05-Jan-17 A | 12-Apr-17 A |
| KS-A-1100 | Erection AA10K11 and stitching works | 12 | 0 | 17-Mar-17 A | 29-Mar-17 A |
| KS-A-1110 | Erection AA11K12 and stitching works | 14 | 0 | 26-Nov-16 A | 15-Dec-16 A |
| KS-A-1120 | Erection AA12K13 and stitching works | 14 | 0 | 06-Sep-16 A | 21-Sep-16 A |
| KS-A-1130 | Erection AA13K14 and stitching works | 14 | 0 | 01-Feb-16 A | 08-Mar-16 A |
| KS-A-1140 | Erection AA14K15 and stitching works | 14 | 0 | 02-Nov-15 A | 08-Jan-16 A |
| KS-A-1150 | Erection AA15K16 and stitching works | 14 | 0 | 04-Feb-16 A | 14-Apr-16 A |
| KS-A-1160 | Erection AA16K17 and stitching works | 14 | 0 | 14-Mar-16 A | 13-May-16 A |
| KS-A-1170 | Erection AA17K18 and stitching works | 12 | 0 | 23-Feb-17 A | 03-Mar-17 A |
| KS-A-1180 | Erection AB6EK7 and stitching works | 12 | 0 | 23-Feb-17 A | 09-Mar-17 A |
| KS-B-1010 | Stitching Works between AB1 End Span and AB2 | 12 | 12 | 22-May-17 | 05-Jun-17 |
| KS-B-1020 | Erection AB2K3 and stitching works | 12 | 0 | 21-Mar-17 A | 05-Apr-17 A |
| KS-B-1030 | Erection AB3K4 and stitching works | 12 | 12 | 26-Apr-17* | 11-May-17 |
| KS-B-1040 | Erection AB4K5 and stitching works | 12 | 12 | 25-May-17 | 08-Jun-17 |
| KS-B-1050 | Erection AB5K6 and stitching works | 14 | 0 | 06-Feb-17 A | 16-Feb-17 A |
| KS-B-1060A | Erection AB6WK7 and stitching works | 12 | 0 | 03-Mar-17 A | 18-Mar-17 A |
| KS-C-1010 | Stitching Works between AC1 End Span and AC2 | 14 | 0 | 05-Jan-17 A | 10-Jan-17 A |
| KS-C-1020 | Erection AC2K3 and stitching works | 14 | 0 | 08-Nov-16 A | 17-Nov-16 A |
| KS-C-1030 | Erection AC3K4 and stitching works | 14 | 0 | 20-Oct-16 A | 31-Oct-16 A |
| KS-C-1040 | Erection AC4K5 and stitching works | 14 | 0 | 29-Sep-16 A | 12-Oct-16 A |
| KS-C-1050 | Erection AC5K6 and stitching works | 14 | 0 | 07-Jun-16 A | 18-Jun-16 A |
| KS-C-1060 | Erection AC6K7 and stitching works | 14 | 0 | 07-Jul-16 A | 18-Jul-16 A |
| KS-C-1070 | Erection AC7K8 and stitching works | 14 | 0 | 28-Aug-15 A | 19-Sep-15 A |
| KS-C-1080 | Erection AC8K9-4 and stitching works | 14 | 0 | 21-May-16 A | 07-Jun-16 A |
| KS-C-1090 | Erection AC9K10 and stitching works | 14 | 0 | 22-Apr-16 A | 09-May-16 A |
| KS-C-1100 | Erection AC10K11 and stitching works | 14 | 0 | 17-Feb-17 A | 27-Feb-17 A |
| KS-C-1110 | Erection AD8EK9 and stitching works | 14 | 0 | 28-Dec-16 A | 21-Jan-17 A |
| KS-D-1010 | Stitching Works between AD1 End Span and AD3 | 12 | 0 | 17-Mar-17 A | 21-Mar-17 A |
| KS-D-1030 | Erection AD3K4 and stitching works | 14 | 0 | 14-Dec-16 A | 31-Dec-16 A |

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- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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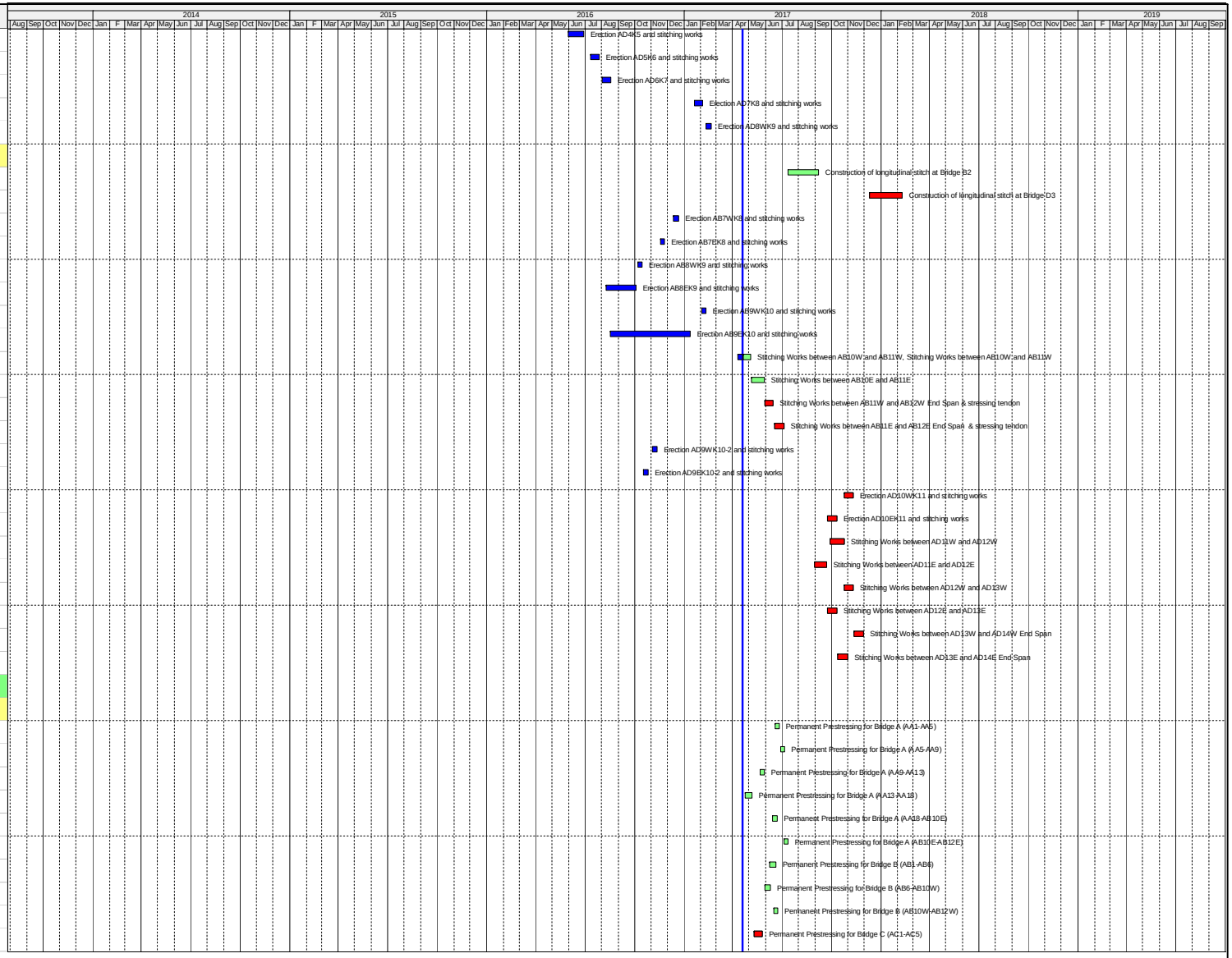
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| KS-D-1040 | Erection AD4K5 and stitching works | 14 | 0 | 31-May-16 A | 28-Jun-16 A |
| KS-D-1050 | Erection AD5K6 and stitching works | 14 | 0 | 11-Jul-16 A | 27-Jul-16 A |
| KS-D-1060 | Erection AD6K7 and stitching works | 14 | 0 | 01-Aug-16 A | 18-Aug-16 A |
| KS-D-1070 | Erection AD7K8 and stitching works | 14 | 0 | 20-Jan-17 A | 04-Feb-17 A |
| KS-D-1080 | Erection AD8WK9 and stitching works | 14 | 0 | 10-Feb-17 A | 20-Feb-17 A |
| ***Key Segment Erection and Stitch Casting (Narrow-box Section)*** | | 298 | 243 | 09-Aug-16 A | 08-Feb-18 |
| KD-B-2000 | Construction of longitudinal stitch at Bridge B2 | 49 | 49 | 13-Jul-17 | 07-Sep-17 |
| KD-D-2000 | Construction of longitudinal stitch at Bridge D3 | 49 | 49 | 11-Dec-17 | 08-Feb-18 |
| KS-B-1070A | Erection AB7WK8 and stitching works | 12 | 0 | 12-Dec-16 A | 21-Dec-16 A |
| KS-B-1070B | Erection AB7EK8 and stitching works | 12 | 0 | 18-Nov-16 A | 25-Nov-16 A |
| KS-B-1080A | Erection AB8WK9 and stitching works | 12 | 0 | 07-Oct-16 A | 15-Oct-16 A |
| KS-B-1080B | Erection AB8EK9 and stitching works | 12 | 0 | 09-Aug-16 A | 03-Oct-16 A |
| KS-B-1090A | Erection AB9WK10 and stitching works | 12 | 0 | 02-Feb-17 A | 10-Feb-17 A |
| KS-B-1090B | Erection AB9EK10 and stitching works | 12 | 0 | 17-Aug-16 A | 12-Jan-17 A |
| KS-B-1100A | Stitching Works between AB10W and AB11W | 25 | 11 | 10-Apr-17 A | 04-May-17 |
| KS-B-1100B | Stitching Works between AB10E and AB11E | 21 | 21 | 05-May-17 | 29-May-17 |
| KS-B-1110A | Stitching Works between AB11W and AB12W End Span & stressing tendon | 14 | 14 | 31-May-17 | 15-Jun-17 |
| KS-B-1110B | Stitching Works between AB11E and AB12E End Span & stressing tendon | 14 | 14 | 17-Jun-17 | 04-Jul-17 |
| KS-D-1090A | Erection AD9WK10-2 and stitching works | 12 | 0 | 03-Nov-16 A | 11-Nov-16 A |
| KS-D-1090B | Erection AD9EK10-2 and stitching works | 12 | 0 | 18-Oct-16 A | 26-Oct-16 A |
| KS-D-1100A | Erection AD10WK11 and stitching works | 14 | 14 | 25-Oct-17 | 10-Nov-17 |
| KS-D-1100B | Erection AD10EK11 and stitching works | 14 | 14 | 23-Sep-17 | 11-Oct-17 |
| KS-D-1110A | Stitching Works between AD11W and AD12W | 21 | 21 | 28-Sep-17 | 24-Oct-17 |
| KS-D-1110B | Stitching Works between AD11E and AD12E | 21 | 21 | 30-Aug-17 | 22-Sep-17 |
| KS-D-1120A | Stitching Works between AD12W and AD13W | 14 | 14 | 25-Oct-17 | 10-Nov-17 |
| KS-D-1120B | Stitching Works between AD12E and AD13E | 14 | 14 | 23-Sep-17 | 11-Oct-17 |
| KS-D-1130A | Stitching Works between AD13W and AD14W End Span | 16 | 16 | 11-Nov-17 | 29-Nov-17 |
| KS-D-1130B | Stitching Works between AD13E and AD14E End Span | 16 | 16 | 12-Oct-17 | 31-Oct-17 |
| ***Major Works on Deck Surfaces*** | | 363 | 324 | 12-Dec-16 A | 28-May-18 |
| ***Permanent External Tendon Stressing Works*** | | 233 | 191 | 12-Dec-16 A | 09-Dec-17 |
| PP-A-1010 | Permanent Prestressing for Bridge A (AA1-AA5) | 7 | 7 | 19-Jun-17 | 26-Jun-17 |
| PP-A-1020 | Permanent Prestressing for Bridge A (AA5-AA9) | 7 | 7 | 28-Jun-17 | 06-Jul-17 |
| PP-A-1030 | Permanent Prestressing for Bridge A (AA9-AA13) | 7 | 7 | 22-May-17 | 29-May-17 |
| PP-A-1040 | Permanent Prestressing for Bridge A (AA13-AA18) | 10 | 10 | 24-Apr-17* | 06-May-17 |
| PP-A-1050 | Permanent Prestressing for Bridge A (AA18-AB10E) | 9 | 9 | 13-Jun-17 | 22-Jun-17 |
| PP-A-1060 | Permanent Prestressing for Bridge A (AB10E-AB12E) | 7 | 7 | 05-Jul-17 | 12-Jul-17 |
| PP-B-1010 | Permanent Prestressing for Bridge B (AB1-AB6) | 9 | 9 | 09-Jun-17* | 19-Jun-17 |
| PP-B-1020 | Permanent Prestressing for Bridge B (AB6-AB10W) | 9 | 9 | 31-May-17 | 09-Jun-17 |
| PP-B-1030 | Permanent Prestressing for Bridge B (AB10W-AB12W) | 7 | 7 | 16-Jun-17 | 23-Jun-17 |
| PP-C-1010 | Permanent Prestressing for Bridge C (AC1-AC5) | 14 | 14 | 10-May-17* | 25-May-17 |




Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
Milestone
Actual Level of Effort

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CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
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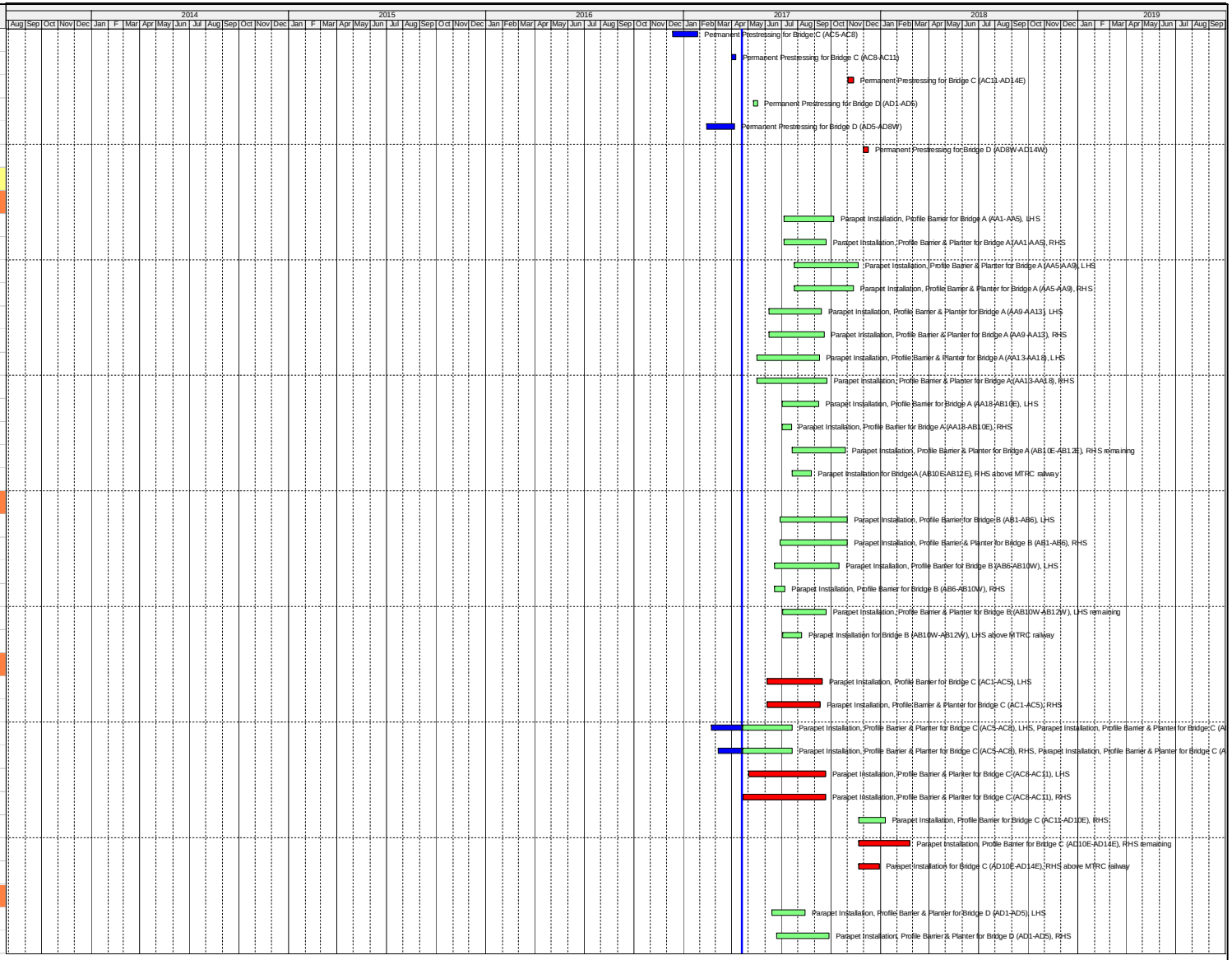
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| PP-C-1020 | Permanent Prestressing for Bridge C (AC5-AC8) | 30 | 0 | 12-Dec-16 A | 27-Jan-17 A |
| PP-C-1030 | Permanent Prestressing for Bridge C (AC8-AC11) | 17 | 0 | 31-Mar-17 A | 08-Apr-17 A |
| PP-C-1040 | Permanent Prestressing for Bridge C (AC11-AD14E) | 10 | 10 | 01-Nov-17 | 11-Nov-17 |
| PP-D-1010 | Permanent Prestressing for Bridge D (AD1-AD5) | 7 | 7 | 11-May-17 | 18-May-17 |
| PP-D-1020 | Permanent Prestressing for Bridge D (AD5-AD8W) | 21 | 0 | 13-Feb-17 A | 06-Apr-17 A |
| PP-D-1030 | Permanent Prestressing for Bridge D (AD8W-AD14W) | 9 | 9 | 30-Nov-17 | 09-Dec-17 |
| ***Parapet Installation*** | | 274 | 274 | 22-Feb-17 A | 23-Mar-18 |
| ***Bridge A*** | | 156 | 156 | 17-May-17 | 20-Nov-17 |
| PI-A-1010L | Parapet Installation, Profile Barrier for Bridge A (AA1-AA5), LHS | 78 | 78 | 06-Jul-17 | 06-Oct-17 |
| PI-A-1010R | Parapet Installation, Profile Barrier & Planter for Bridge A (AA1-AA5), RHS | 68 | 68 | 06-Jul-17 | 22-Sep-17 |
| PI-A-1020L | Parapet Installation, Profile Barrier & Planter for Bridge A (AA5-AA9), LHS | 99 | 99 | 25-Jul-17 | 20-Nov-17 |
| PI-A-1020R | Parapet Installation, Profile Barrier & Planter for Bridge A (AA5-AA9), RHS | 92 | 92 | 25-Jul-17 | 11-Nov-17 |
| PI-A-1030L | Parapet Installation, Profile Barrier & Planter for Bridge A (AA9-AA13), LHS | 83 | 83 | 08-Jun-17 | 13-Sep-17 |
| PI-A-1030R | Parapet Installation, Profile Barrier & Planter for Bridge A (AA9-AA13), RHS | 87 | 87 | 08-Jun-17 | 18-Sep-17 |
| PI-A-1040L | Parapet Installation, Profile Barrier & Planter for Bridge A (AA13-AA18), LHS | 98 | 98 | 17-May-17 | 09-Sep-17 |
| PI-A-1040R | Parapet Installation, Profile Barrier & Planter for Bridge A (AA13-AA18), RHS | 110 | 110 | 17-May-17 | 23-Sep-17 |
| PI-A-1050L | Parapet Installation, Profile Barrier for Bridge A (AA18-AB10E), LHS | 59 | 59 | 03-Jul-17 | 08-Sep-17 |
| PI-A-1050R | Parapet Installation, Profile Barrier for Bridge A (AA18-AB10E), RHS | 16 | 16 | 03-Jul-17 | 20-Jul-17 |
| PI-A-1060R | Parapet Installation, Profile Barrier & Planter for Bridge A (AB10E-AB12E), RHS remaining | 83 | 83 | 21-Jul-17 | 27-Oct-17 |
| PI-A-1060RM | Parapet Installation for Bridge A (AB10E-AB12E), RHS above MTRC railway | 31 | 31 | 21-Jul-17 | 25-Aug-17 |
| ***Bridge B*** | | 112 | 112 | 19-Jun-17 | 31-Oct-17 |
| PI-B-1010L | Parapet Installation, Profile Barrier for Bridge B (AB1-AB6), LHS | 103 | 103 | 29-Jun-17 | 31-Oct-17 |
| PI-B-1010R | Parapet Installation, Profile Barrier & Planter for Bridge B (AB1-AB6), RHS | 103 | 103 | 29-Jun-17 | 31-Oct-17 |
| PI-B-1020L | Parapet Installation, Profile Barrier for Bridge B (AB6-AB10W), LHS | 100 | 100 | 19-Jun-17 | 16-Oct-17 |
| PI-B-1020R | Parapet Installation, Profile Barrier for Bridge B (AB6-AB10W), RHS | 16 | 16 | 19-Jun-17 | 07-Jul-17 |
| PI-B-1030L | Parapet Installation, Profile Barrier & Planter for Bridge B (AB10W-AB12W), LHS remaining | 70 | 70 | 04-Jul-17 | 22-Sep-17 |
| PI-B-1030LM | Parapet Installation for Bridge B (AB10W-AB12W), LHS above MTRC railway | 31 | 31 | 04-Jul-17 | 08-Aug-17 |
| ***Bridge C*** | | 251 | 251 | 22-Feb-17 A | 24-Feb-18 |
| PI-C-1010L | Parapet Installation, Profile Barrier for Bridge C (AC1-AC5), LHS | 87 | 87 | 05-Jun-17 | 14-Sep-17 |
| PI-C-1010R | Parapet Installation, Profile Barrier & Planter for Bridge C (AC1-AC5), RHS | 84 | 84 | 05-Jun-17 | 11-Sep-17 |
| PI-C-1020L | Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), LHS | 121 | 76 | 22-Feb-17 A | 21-Jul-17 |
| PI-C-1020R | Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), RHS | 110 | 76 | 07-Mar-17 A | 21-Jul-17 |
| PI-C-1030L | Parapet Installation, Profile Barrier & Planter for Bridge C (AC8-AC11), LHS | 119 | 119 | 02-May-17 | 20-Sep-17 |
| PI-C-1030R | Parapet Installation, Profile Barrier & Planter for Bridge C (AC8-AC11), RHS | 126 | 126 | 22-Apr-17 | 20-Sep-17 |
| PI-C-1040R | Parapet Installation, Profile Barrier for Bridge C (AC11-AD10E), RHS | 40 | 40 | 21-Nov-17 | 09-Jan-18 |
| PI-C-1050R | Parapet Installation, Profile Barrier for Bridge C (AD10E-AD14E), RHS remaining | 74 | 74 | 21-Nov-17 | 24-Feb-18 |
| PI-C-1050RM | Parapet Installation for Bridge C (AD10E-AD14E), RHS above MTRC railway | 32 | 32 | 21-Nov-17 | 29-Dec-17 |
| ***Bridge D*** | | 260 | 260 | 09-May-17 | 23-Mar-18 |
| PI-D-1010L | Parapet Installation, Profile Barrier & Planter for Bridge D (AD1-AD5), LHS | 52 | 52 | 14-Jun-17 | 14-Aug-17 |
| PI-D-1010R | Parapet Installation, Profile Barrier & Planter for Bridge D (AD1-AD5), RHS | 83 | 83 | 22-Jun-17 | 27-Sep-17 |

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CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

Actual Work
Remaining Work
Summary Bar
Critical Remaining Work
Milestone
Actual Level of Effort

**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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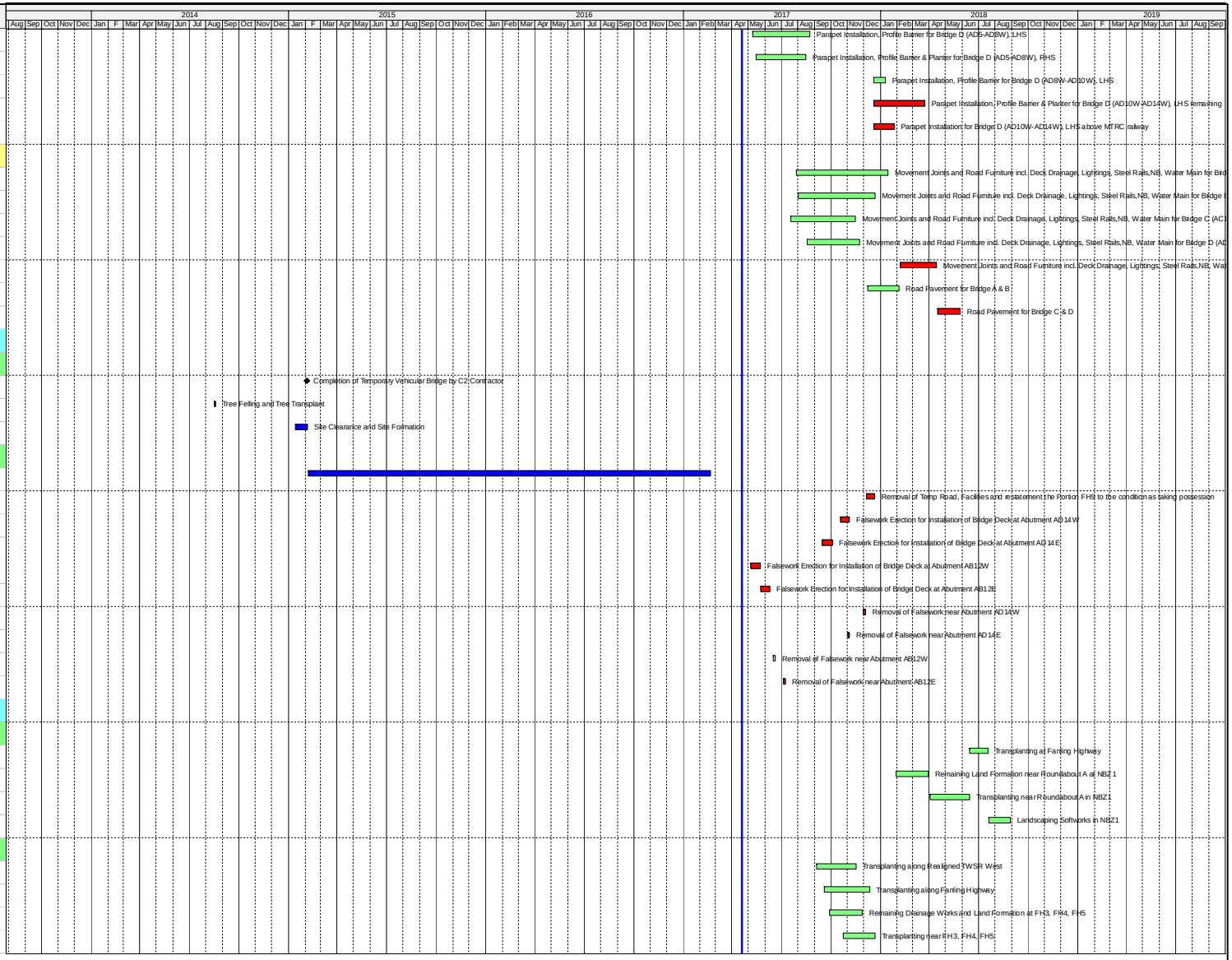
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| PI-D-1020L | Parapet Installation, Profile Barrier for Bridge D (AD5-AD8W), LHS | 90 | 90 | 09-May-17 | 23-Aug-17 |
| PI-D-1020R | Parapet Installation, Profile Barrier & Planter for Bridge D (AD5-AD8W), RHS | 78 | 78 | 15-May-17 | 15-Aug-17 |
| PI-D-1030L | Parapet Installation, Profile Barrier for Bridge D (AD8W-AD10W), LHS | 16 | 16 | 19-Dec-17 | 09-Jan-18 |
| PI-D-1040L | Parapet Installation, Profile Barrier & Planter for Bridge D (AD10W-AD14W), LHS remaining | 73 | 73 | 19-Dec-17 | 23-Mar-18 |
| PI-D-1040LM | Parapet Installation for Bridge D (AD10W-AD14W), LHS above MTRC railway | 31 | 31 | 19-Dec-17 | 26-Jan-18 |
| ***Roadworks, Road Facilities and Miscellaneous inside Viaduct Internal Voids*** | | 251 | 251 | 19-Jul-17 | 28-May-18 |
| RS-1000 | Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge A (AA1 to AB12) | 140 | 140 | 29-Jul-17 | 15-Jan-18 |
| RS-1010 | Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge B (AB1 to AB12) | 120 | 120 | 02-Aug-17 | 22-Dec-17 |
| RS-1020 | Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge C (AC1 to AD10) | 100 | 100 | 19-Jul-17 | 15-Nov-17 |
| RS-1030 | Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge D (AD1 to AD8) | 80 | 80 | 18-Aug-17 | 22-Nov-17 |
| RS-1040 | Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge D (AD8 to AD14 | 49 | 49 | 06-Feb-18 | 14-Apr-18 |
| RS-1050 | Road Pavement for Bridge A & B | 47 | 47 | 08-Dec-17 | 03-Feb-18 |
| RS-1060 | Road Pavement for Bridge C & D | 35 | 35 | 16-Apr-18 | 28-May-18 |
| ***Section VI - Works in Portion FH9 (KD-6A)*** | | 872 | 191 | 16-Aug-14 A | 20-Dec-17 |
| ***Preliminary Preparation Works*** | | 62 | 0 | 16-Aug-14 A | 04-Feb-15 A |
| S6-1000 | Completion of Temporary Vehicular Bridge by C2 Contractor | 0 | 0 | | 03-Feb-15 A |
| S6-1010 | Tree Felling and Tree Transplant | 7 | 0 | 16-Aug-14 A | 19-Aug-14 A |
| S6-1020 | Site Clearance and Site Formation | 21 | 0 | 13-Jan-15 A | 04-Feb-15 A |
| ***Major Works*** | | 831 | 191 | 06-Feb-15 A | 20-Dec-17 |
| S6-2000* | Construction of Abutment AB12/AD14 (including Piling, Pile Cap & Abutment construction) | 276 | 0 | 06-Feb-15 A | 20-Feb-17 A |
| S6-3000 | Removal of Temp Road, Facilities and reestatement the Portion FH9 to the condition as taking possession | 14 | 14 | 05-Dec-17 | 20-Dec-17 |
| S6-4000 | Falsework Erection for Installation of Bridge Deck at Abutment AD14W | 15 | 15 | 18-Oct-17* | 04-Nov-17 |
| S6-4010 | Falsework Erection for Installation of Bridge Deck at Abutment AD14E | 15 | 15 | 15-Sep-17* | 03-Oct-17 |
| S6-4020 | Falsework Erection for Installation of Bridge Deck at Abutment AB12W | 15 | 15 | 06-May-17 | 23-May-17 |
| S6-4030 | Falsework Erection for Installation of Bridge Deck at Abutment AB12E | 15 | 15 | 24-May-17 | 10-Jun-17 |
| S6-5000 | Removal of Falsework near Abutment AD14W | 4 | 4 | 30-Nov-17 | 04-Dec-17 |
| S6-5010 | Removal of Falsework near Abutment AD14E | 4 | 4 | 01-Nov-17 | 04-Nov-17 |
| S6-5020 | Removal of Falsework near Abutment AB12W | 4 | 4 | 16-Jun-17 | 20-Jun-17 |
| S6-5030 | Removal of Falsework near Abutment AB12E | 4 | 4 | 05-Jul-17 | 08-Jul-17 |
| ***Landscaping & Establishment Works (KD-4, 4A, 5, 5A, 6)*** | | 581 | 581 | 05-Sep-17 | 29-Aug-19 |
| ***Secton IIIA - Landscaping Softworks in NBZ1*** | | 168 | 168 | 30-Jan-18 | 29-Aug-18 |
| S3A-1000 | Transplanting at Fanling Highway | 28 | 28 | 15-Jun-18 | 19-Jul-18 |
| S3A-1010 | Remaining Land Formation near Roundabout A at NBZ1 | 45 | 45 | 30-Jan-18 | 29-Mar-18 |
| S3A-1030 | Transplanting near Roundabout A in NBZ1 | 60 | 60 | 03-Apr-18 | 14-Jun-18 |
| S3A-1040 | Landscaping Softworks in NBZ1 | 35 | 35 | 20-Jul-18 | 29-Aug-18 |
| ***Secton III - Remainder of Landscaping Softworks Not Included in Secton IIIA*** | | 120 | 120 | 05-Sep-17 | 29-Jan-18 |
| S3-1000 | Transplanting along Realigned TWSR West | 60 | 60 | 05-Sep-17 | 16-Nov-17 |
| S3-1010 | Transplanting along Fanling Highway | 70 | 70 | 18-Sep-17 | 11-Dec-17 |
| S3-1020 | Remaining Drainage Works and Land Formation at FH3, FH4, FH5 | 50 | 50 | 28-Sep-17 | 28-Nov-17 |
| S3-1030 | Transplanting near FH3, FH4, FH5 | 50 | 50 | 24-Oct-17 | 21-Dec-17 |

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CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

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# CEDD Contract No. CV/2012/09

## Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

## Updated Master Works Programme (Revision UMP05B)

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
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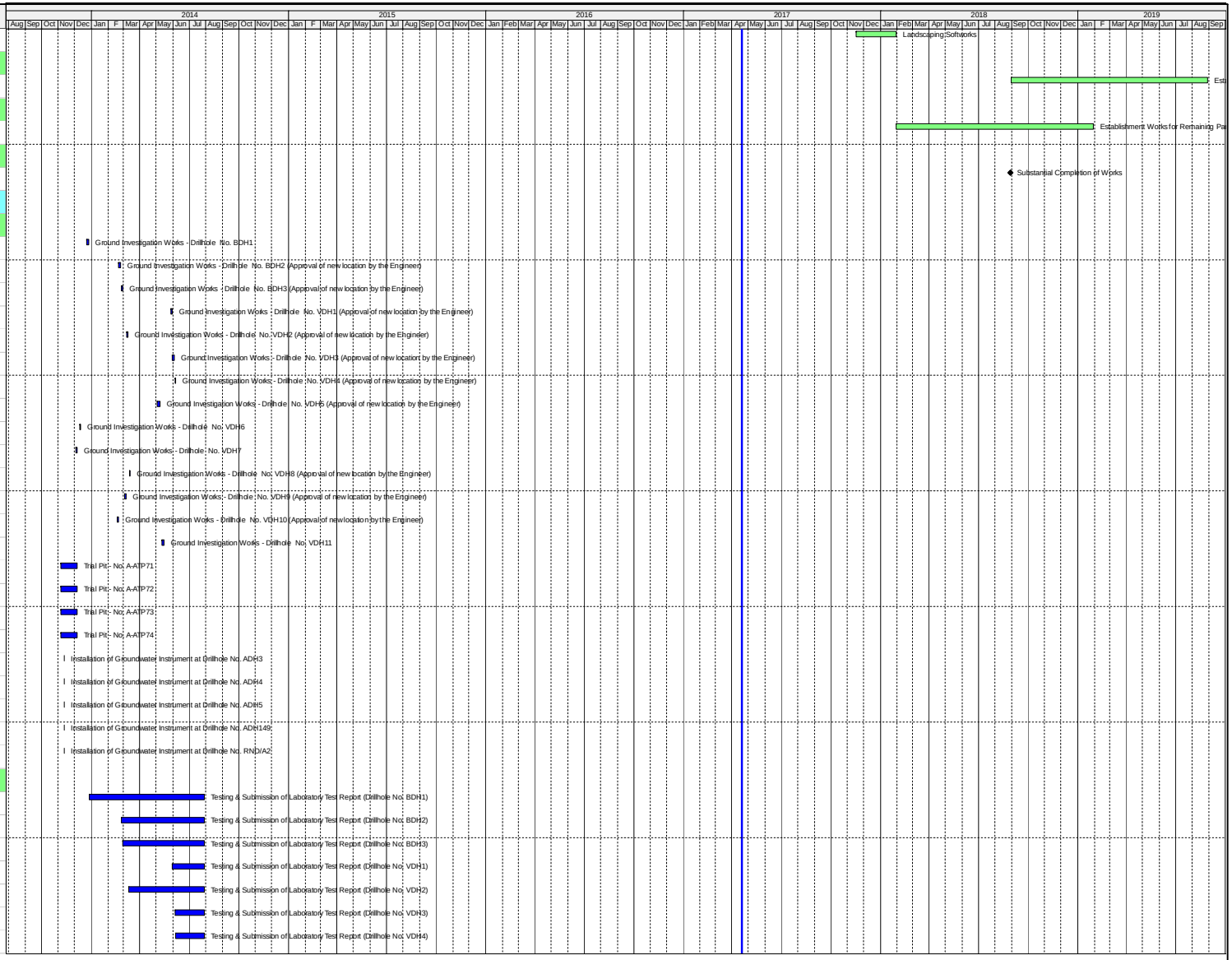
| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| S3-1040 | Landscaping Softworks | 60 | 60 | 17-Nov-17 | 29-Jan-18 |
| ***Establishment Works for Landscape Softworks under Section IIIA*** | | 365 | 365 | 30-Aug-18 | 29-Aug-19 |
| S4A-1000 | Establishment Works at NBZ1 | 365 | 365 | 30-Aug-18 | 29-Aug-19 |
| ***Establishment Works for Landscape Softworks under Section III*** | | 365 | 365 | 30-Jan-18 | 29-Jan-19 |
| S4-1000 | Establishment Works for Remaining Part of Site | 365 | 365 | 30-Jan-18 | 29-Jan-19 |
| ***Preservation and Protection of Trees*** | | 0 | 0 | 29-Aug-18 | 29-Aug-18 |
| S5-1000 | Substantial Completion of Works | 0 | 0 | | 29-Aug-18 |
| ***Section VII - All Geotechnical Fieldworks & All Associated Laboratory Tests (*** | | 208 | 0 | 05-Nov-13 A | 28-Jul-14 A |
| ***Installation of Geotechnical Instruments / Ground Investigation*** | | 167 | 0 | 05-Nov-13 A | 05-Jun-14 A |
| S7-1000 | Ground Investigation Works - Drillhole No. BDH1 | 15 | 0 | 23-Dec-13 A | 27-Dec-13 A |
| S7-1010 | Ground Investigation Works - Drillhole No. BDH2 (Approval of new location by the Engineer) | 15 | 0 | 20-Feb-14 A | 24-Feb-14 A |
| S7-1020 | Ground Investigation Works - Drillhole No. BDH3 (Approval of new location by the Engineer) | 15 | 0 | 25-Feb-14 A | 27-Feb-14 A |
| S7-1030 | Ground Investigation Works - Drillhole No. VDH1 (Approval of new location by the Engineer) | 7 | 0 | 28-May-14 A | 30-May-14 A |
| S7-1040 | Ground Investigation Works - Drillhole No. VDH2 (Approval of new location by the Engineer) | 15 | 0 | 07-Mar-14 A | 10-Mar-14 A |
| S7-1050 | Ground Investigation Works - Drillhole No. VDH3 (Approval of new location by the Engineer) | 7 | 0 | 30-May-14 A | 03-Jun-14 A |
| S7-1060 | Ground Investigation Works - Drillhole No. VDH4 (Approval of new location by the Engineer) | 7 | 0 | 04-Jun-14 A | 05-Jun-14 A |
| S7-1070 | Ground Investigation Works - Drillhole No. VDH5 (Approval of new location by the Engineer) | 15 | 0 | 03-May-14 A | 07-May-14 A |
| S7-1080 | Ground Investigation Works - Drillhole No. VDH6 | 15 | 0 | 10-Dec-13 A | 11-Dec-13 A |
| S7-1090 | Ground Investigation Works - Drillhole No. VDH7 | 15 | 0 | 03-Dec-13 A | 05-Dec-13 A |
| S7-1100 | Ground Investigation Works - Drillhole No. VDH8 (Approval of new location by the Engineer) | 15 | 0 | 12-Mar-14 A | 13-Mar-14 A |
| S7-1110 | Ground Investigation Works - Drillhole No. VDH9 (Approval of new location by the Engineer) | 15 | 0 | 04-Mar-14 A | 06-Mar-14 A |
| S7-1120 | Ground Investigation Works - Drillhole No. VDH10 (Approval of new location by the Engineer) | 15 | 0 | 18-Feb-14 A | 20-Feb-14 A |
| S7-1130 | Ground Investigation Works - Drillhole No. VDH11 | 4 | 0 | 12-May-14 A | 15-May-14 A |
| S7-2000 | Trial Pit - No. A-ATP71 | 7 | 0 | 05-Nov-13 A | 05-Dec-13 A |
| S7-2010 | Trial Pit - No. A-ATP72 | 7 | 0 | 05-Nov-13 A | 05-Dec-13 A |
| S7-2020 | Trial Pit - No. A-ATP73 | 7 | 0 | 05-Nov-13 A | 05-Dec-13 A |
| S7-2030 | Trial Pit - No. A-ATP74 | 7 | 0 | 05-Nov-13 A | 05-Dec-13 A |
| S7-3000 | Installation of Groundwater Instrument at Drillhole No. ADH3 | 12 | 0 | 11-Nov-13 A | 11-Nov-13 A |
| S7-3010 | Installation of Groundwater Instrument at Drillhole No. ADH4 | 12 | 0 | 11-Nov-13 A | 11-Nov-13 A |
| S7-3020 | Installation of Groundwater Instrument at Drillhole No. ADH5 | 12 | 0 | 11-Nov-13 A | 11-Nov-13 A |
| S7-3040 | Installation of Groundwater Instrument at Drillhole No. ADH149 | 12 | 0 | 11-Nov-13 A | 11-Nov-13 A |
| S7-3050 | Installation of Groundwater Instrument at Drillhole No. RND/A2 | 12 | 0 | 11-Nov-13 A | 11-Nov-13 A |
| ***Submission of Laboratory Tests*** | | 129 | 0 | 06-Dec-13 A | 28-Jul-14 A |
| S7-5000 | Testing & Submission of Laboratory Test Report (Drillhole No. BDH1) | 35 | 0 | 28-Dec-13 A | 28-Jul-14 A |
| S7-5010 | Testing & Submission of Laboratory Test Report (Drillhole No. BDH2) | 35 | 0 | 25-Feb-14 A | 28-Jul-14 A |
| S7-5020 | Testing & Submission of Laboratory Test Report (Drillhole No. BDH3) | 35 | 0 | 28-Feb-14 A | 28-Jul-14 A |
| S7-5030 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH1) | 35 | 0 | 31-May-14 A | 28-Jul-14 A |
| S7-5040 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH2) | 35 | 0 | 11-Mar-14 A | 28-Jul-14 A |
| S7-5050 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH3) | 35 | 0 | 04-Jun-14 A | 28-Jul-14 A |
| S7-5060 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH4) | 35 | 0 | 06-Jun-14 A | 28-Jul-14 A |




俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

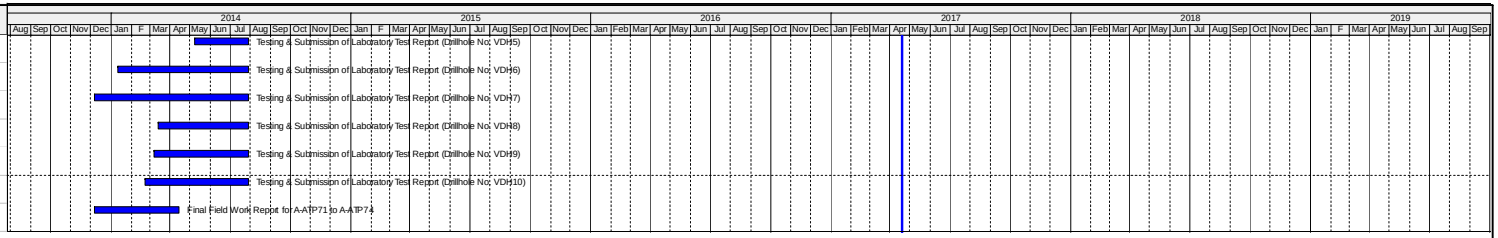
**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Activity ID | Activity Name | OD | RD | Start | Finish |
|---|---|---|---|---|---|
| S7-5070 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH5) | 35 | 0 | 08-May-14 A | 28-Jul-14 A |
| S7-5080 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH6) | 35 | 0 | 11-Jan-14 A | 28-Jul-14 A |
| S7-5090 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH7) | 35 | 0 | 06-Dec-13 A | 28-Jul-14 A |
| S7-5100 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH8) | 35 | 0 | 14-Mar-14 A | 28-Jul-14 A |
| S7-5110 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH9) | 35 | 0 | 07-Mar-14 A | 28-Jul-14 A |
| S7-5120 | Testing & Submission of Laboratory Test Report (Drillhole No. VDH10) | 35 | 0 | 21-Feb-14 A | 28-Jul-14 A |
| S7-5130 | Final Field Work Repot for A-ATP71 to A-ATP74 | 90 | 0 | 06-Dec-13 A | 14-Apr-14 A |




俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

**CEDD Contract No. CV/2012/09**

**Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3**

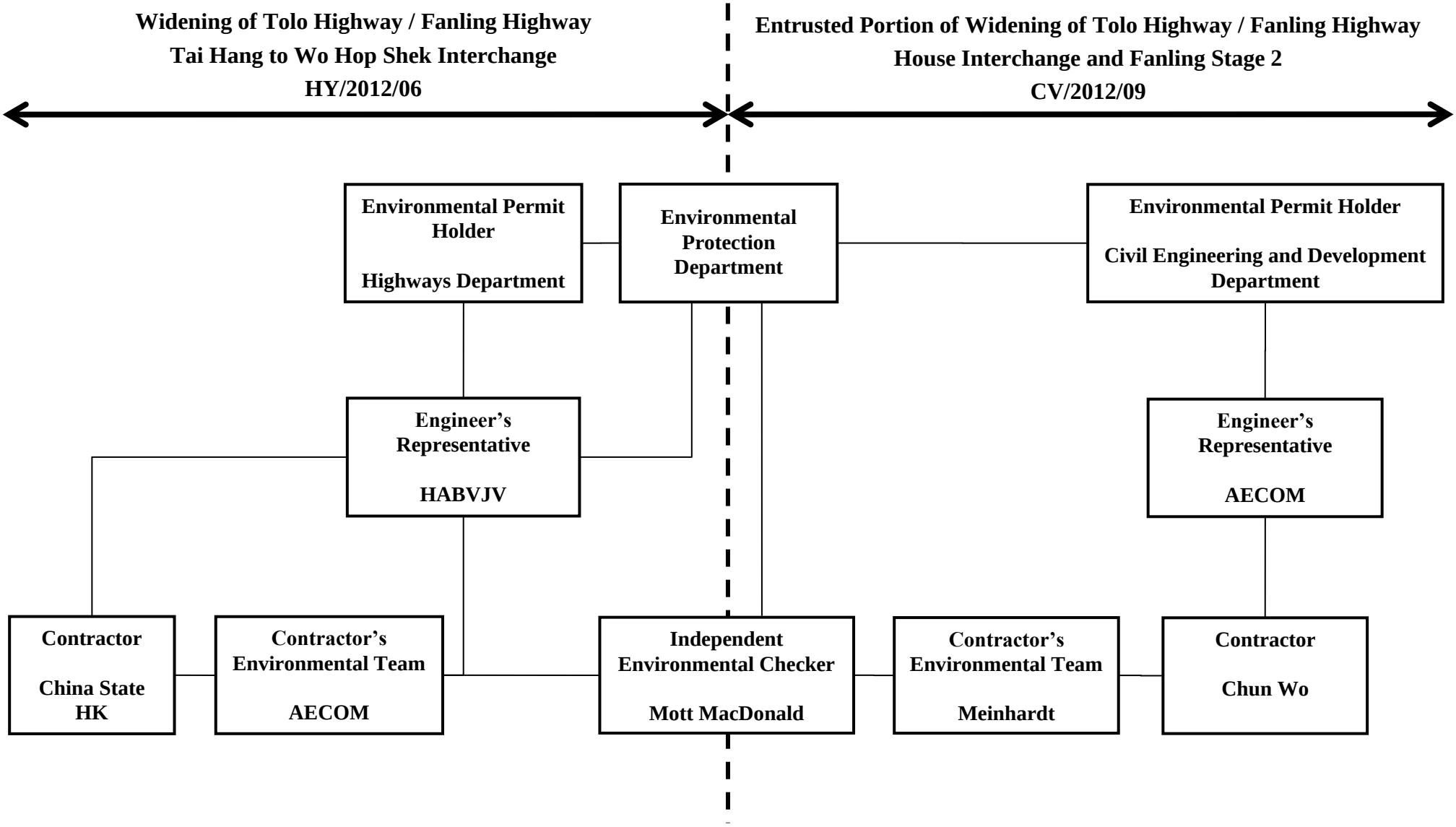
**Updated Master Works Programme (Revision UMP05B)**

**Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17**



| Date | Revision | Checked | Approved |
|---|---|---|---|
| 07-Mar-17 | Draft | Sam Lam | David Tung |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

# Appendix B
# Project Organization Structure


Widening of Tolo Highway / Fanling Highway
Tai Hang to Wo Hop Shek Interchange
HY/2012/06
Entrusted Portion of Widening of Tolo Highway / Fanling Highway
House Interchange and Fanling Stage 2
CV/2012/09
Environmental Permit Holder
Highways Department
Environmental Protection Department
Environmental Permit Holder
Civil Engineering and Development Department
Engineer's Representative
HABVJV
Engineer's Representative
AECOM
Contractor
China State HK
Contractor's Environmental Team
AECOM
Independent Environmental Checker
Mott MacDonald
Contractor's Environmental Team
Meinhardt
Contractor
Chun Wo

# Appendix C
# Summary of Event and Action Plan

**Event and Action Plan for Air Quality**

| Event | Action | | | |
|---|---|---|---|---|
| | **ET Leader** | **IEC** | **ER** | **Contractor** |
| Action level being exceeded by one sampling day | 1. Identify source;<br>2. Inform IEC and ER;<br>3. Repeat measurement to confirm finding;<br>4. Increase monitoring frequency to daily. | 1. Check monitoring data submitted by ET;<br>2. Check Contractor's working method. | 1. Notify Contractor. | 1. Rectify any unacceptable practice;<br>2. Amend working methods if appropriate. |
| Action level being exceeded by two or more consecutive sampling days | 1. Identify source;<br>2. Inform IEC and ER;<br>3. Repeat measurements to confirm findings;<br>4. Increase monitoring frequency to daily;<br>5. Discuss with IEC and Contractor on remedial actions required;<br>6. If exceedance continues, arrange meeting with IEC and ER;<br>7. If exceedance stops, cease additional monitoring. | 1. Check monitoring data submitted by ET;<br>2. Check Contractor's working method;<br>3. Discuss with ET and Contractor on possible remedial measures;<br>4. Advise the ER on the effectiveness of the proposed remedial measures;<br>5. Supervise Implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing;<br>2. Notify Contractor;<br>3. Ensure remedial measures properly implemented. | 1. Submit proposals for remedial actions to IEC within 3 working days of notification;<br>2. Implement the agreed proposals;<br>3. Amend proposal if appropriate. |

| Event | Action | | | |
|---|---|---|---|---|
| | **ET Leader** | **IEC** | **ER** | **Contractor** |
| Limit level being exceeded by one sampling day | 1. Identify source;<br>2. Inform IEC, ER, Contractor and EPD;<br>3. Repeat measurement to confirm finding;<br>4. Increase monitoring frequency to daily;<br>5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. | 1. Check monitoring data submitted by ET;<br>2. Check Contractor's working method;<br>3. Discuss with ET and Contractor on possible remedial measures;<br>4. Advise ER on the effectiveness of the proposed remedial measures;<br>5. Supervise implementation of remedial measures. | 1. Confirm receipt of notification of exceedance in writing;<br>2. Notify Contractor;<br>3. Ensure remedial measures properly implemented. | 1. Take immediate action to avoid further exceedance;<br>2. Submit proposals for remedial actions to IEC within 3 working days of notification;<br>3. Implement the agreed proposals;<br>4. Amend proposal if appropriate. |
| Limit level being exceeded by two or more consecutive sampling days | 1. Notify IEC, ER, Contractor, and EPD;<br>2. Identify source;<br>3. Repeat measurement to confirm findings;<br>4. Increase frequency to daily;<br>5. Analyse Contractor's working procedures to determine possible mitigation to be;<br>6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;<br>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;<br>8. If exceedance stops, cease additional monitoring. | 1. Discus amongst ER, ET, and Contractor on the potential remedial actions;<br>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly;<br>3. Supervise the implementation of remedial measures. | 1. Confirm receipt of notification of exceedance in writing;<br>2. Notify Contractor;<br>3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;<br>4. Ensure remedial measures properly implemented;<br>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | 1. Take immediate action to avoid further exceedance;<br>2. Submit proposals for remedial actions to IEC within 3 working days of notification;<br>3. Implement the agreed proposals;<br>4. Resubmit proposals if problem still not under control;<br>5. Stop the relevant portion of works as determined by ER until the exceedance is abated. |

**Event and Action Plan for Noise Quality**

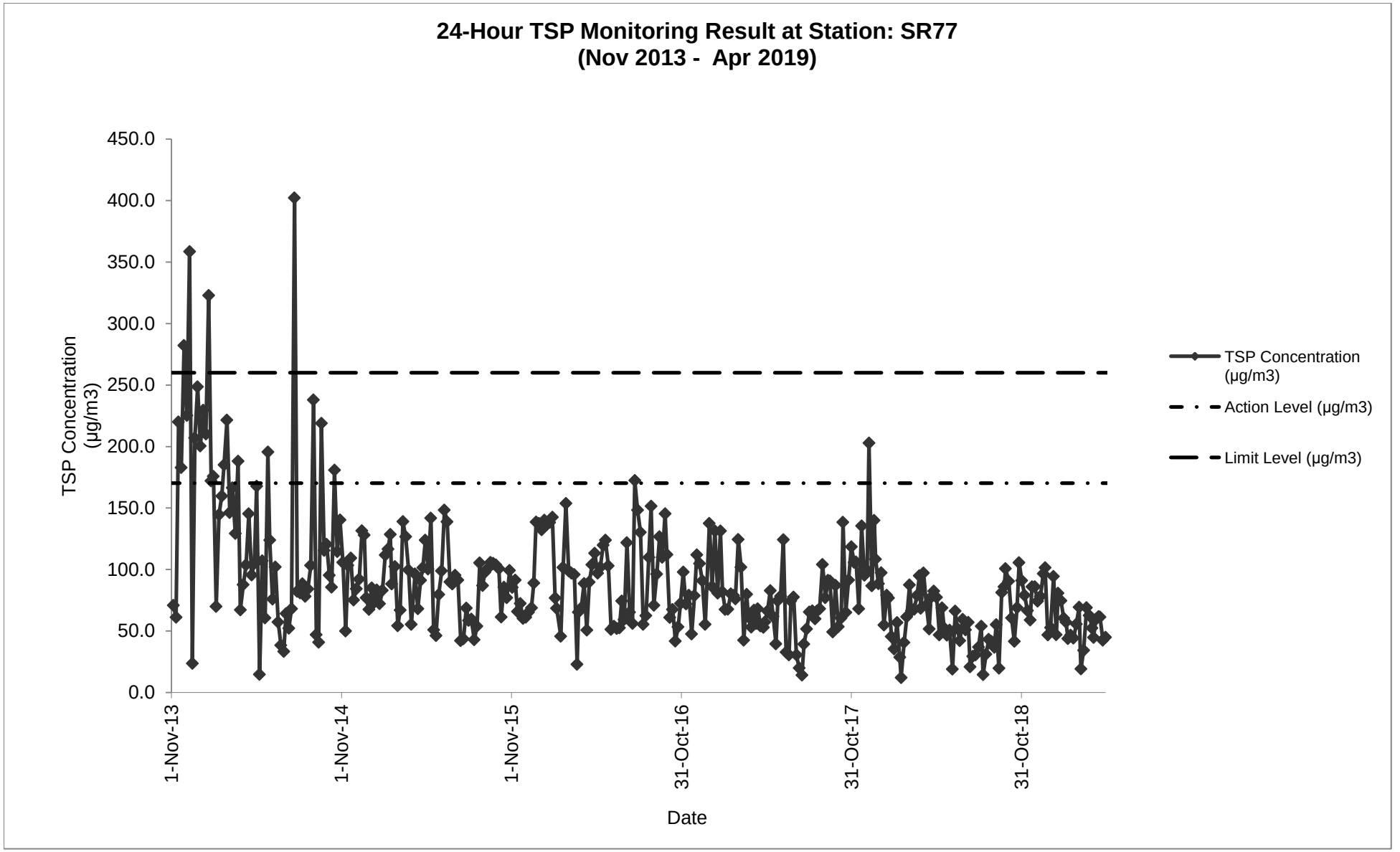
| Event | Action | | | |
|---|---|---|---|---|
| | **ET Leader** | **IEC** | **ER** | **Contractor** |
| Action Level | 1. Notify IEC and the Contractor.<br>2. Carry out investigation.<br>3. Report the results of investigation to IEC and the Contractor.<br>4. Discuss with the Contractor and formulate remedial measures.<br>5. Increase monitoring frequency to check mitigation effectiveness. | 1. Review with analysed results submitted by ET.<br>2. Review the proposed remedial measures by the Contractor and advise ER accordingly.<br>3. Supervise the implement of remedial measures. | 1. Confirm receipt of notification of failure in writing.<br>2. Notify the Contractor.<br>3. Require the Contractor to propose remedial measures for the analysed noise problem.<br>4. Ensure remedial measures are properly implemented. | 1. Submit noise mitigation proposals to IEC.<br>2. Implement noise mitigation proposals. |
| Limit Level | 1. Notify IEC, ER, EPD and the Contractor.<br>2. Identify the source.<br>3. Repeat measurement to confirm findings.<br>4. Increase monitoring frequency.<br>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.<br>6. Inform IEC, ER, and EPD the causes & actions taken for the exceedances.<br>7. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results.<br>8. If exceedance stops, cease additional monitoring. | 1. Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions.<br>2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly.<br>3. Supervise the implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing.<br>2. Notify the Contractor.<br>3. Require the Contractor to propose remedial measures for the analysed noise problem.<br>4. Ensure remedial measures are properly implemented.<br>5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. | 1. Take immediate action to avoid further exceedance.<br>2. Submit proposals for remedial actions to IEC within 3 working days of notification.<br>3. Implement the agreed proposals.<br>4. Resubmit proposals if problem still not under control.<br>5. Stop the relevant activity of works as determined by the ER until the exceedance is abated. |

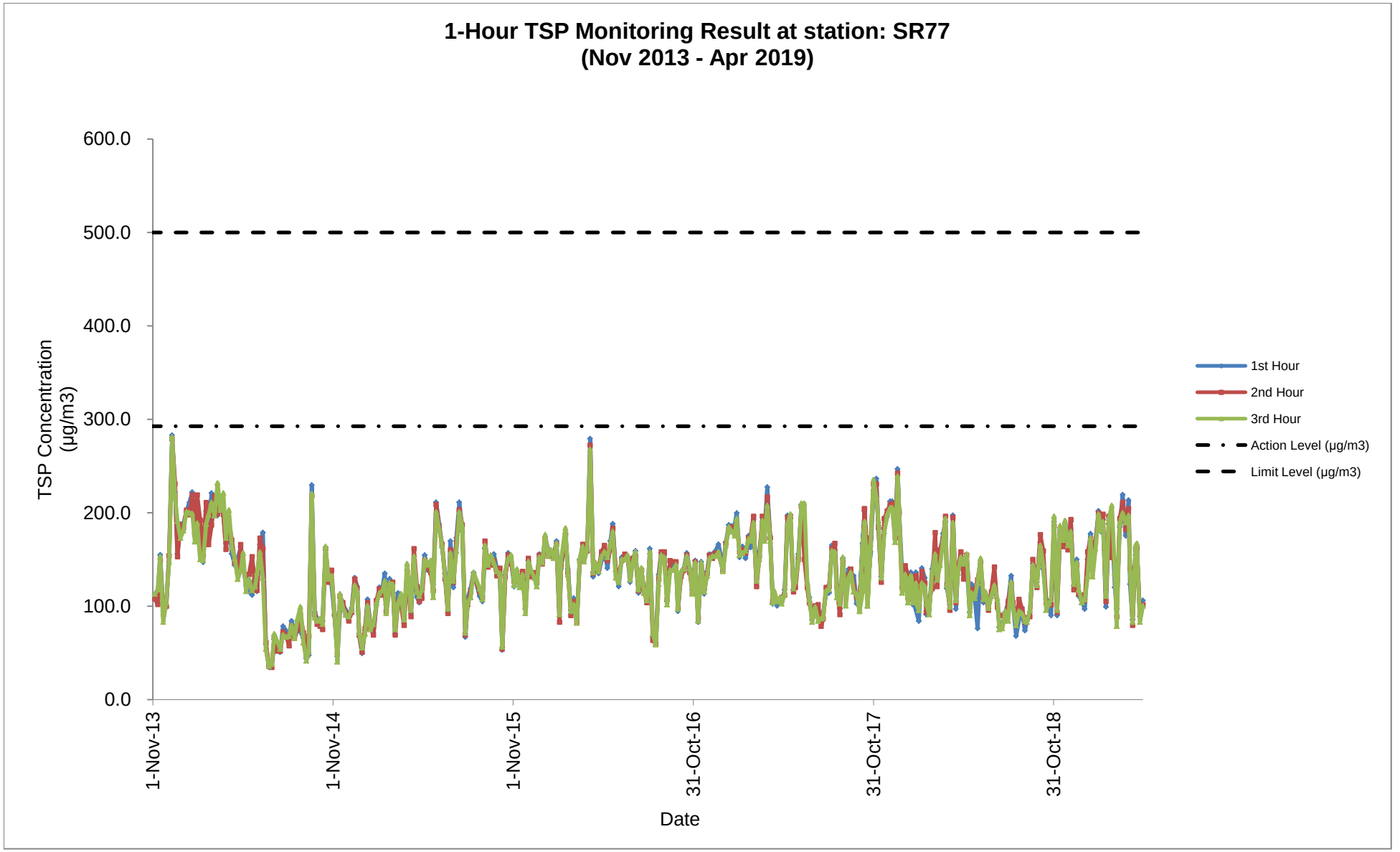
**Event and Action Plan for Water Quality**

| Event | Action | | | |
|---|---|---|---|---|
| | **ET Leader** | **IEC** | **ER** | **Contractor** |
| Action level being exceeded by one sampling day | 1. Repeat in-situ measurement on next day of exceedance to confirm findings;<br>2. Identify source(s) of impact;<br>3. Inform IEC, Contractor & ER;<br>4. Check monitoring data, all plant, equipment & contractor's working methods; | 1. Check monitoring data submitted by ET & Contractor's working methods; | 1. Confirm receipt of notification of failure in writing; Notify, Contractor | 1. Inform the ER & confirm notification of the non-compliance in writing;<br>2. Rectify unacceptable practice;<br>3. Amend working methods if appropriate. |
| Action level being exceeded by two or more consecutive sampling days | 1. Repeat measurement on next day of exceedance to confirm findings;<br>2. Identify source(s) of impact;<br>3. Inform IEC, Contractor, ER & EPD;<br>4. Check monitoring data, all plant, equipment & Contractor's working methods;<br>5. Discuss mitigation measures with IEC, ER & Contractor;<br>6. Ensure mitigation measures are implemented;<br>7. Increase monitoring to daily until no exceedance of Action level. | 1. Checking monitoring data submitted by ET & Contractor's working method;<br>2. Discuss with ET & Contractor on possible remedial actions;<br>3. Review the proposed mitigation measures submitted by Contractor & advise the ER accordingly;<br>4. Supervise the implementation of mitigation measures. | 1. Discuss with IEC on the proposed mitigation measures;<br>2. Ensure mitigation measures properly implemented;<br>3. Assess the effectiveness of the implemented mitigation measures. | 1. Inform the Engineer & confirm notification of the non-compliance in writing;<br>2. Rectify unacceptable practice;<br>3. Check all plant & equipment & consider changes of working methods;<br>4. Submit proposal of mitigation measures to ER within 3 working days of notification & discuss with ET, IEC & ER;<br>5. Implement the agreed mitigation measures. |

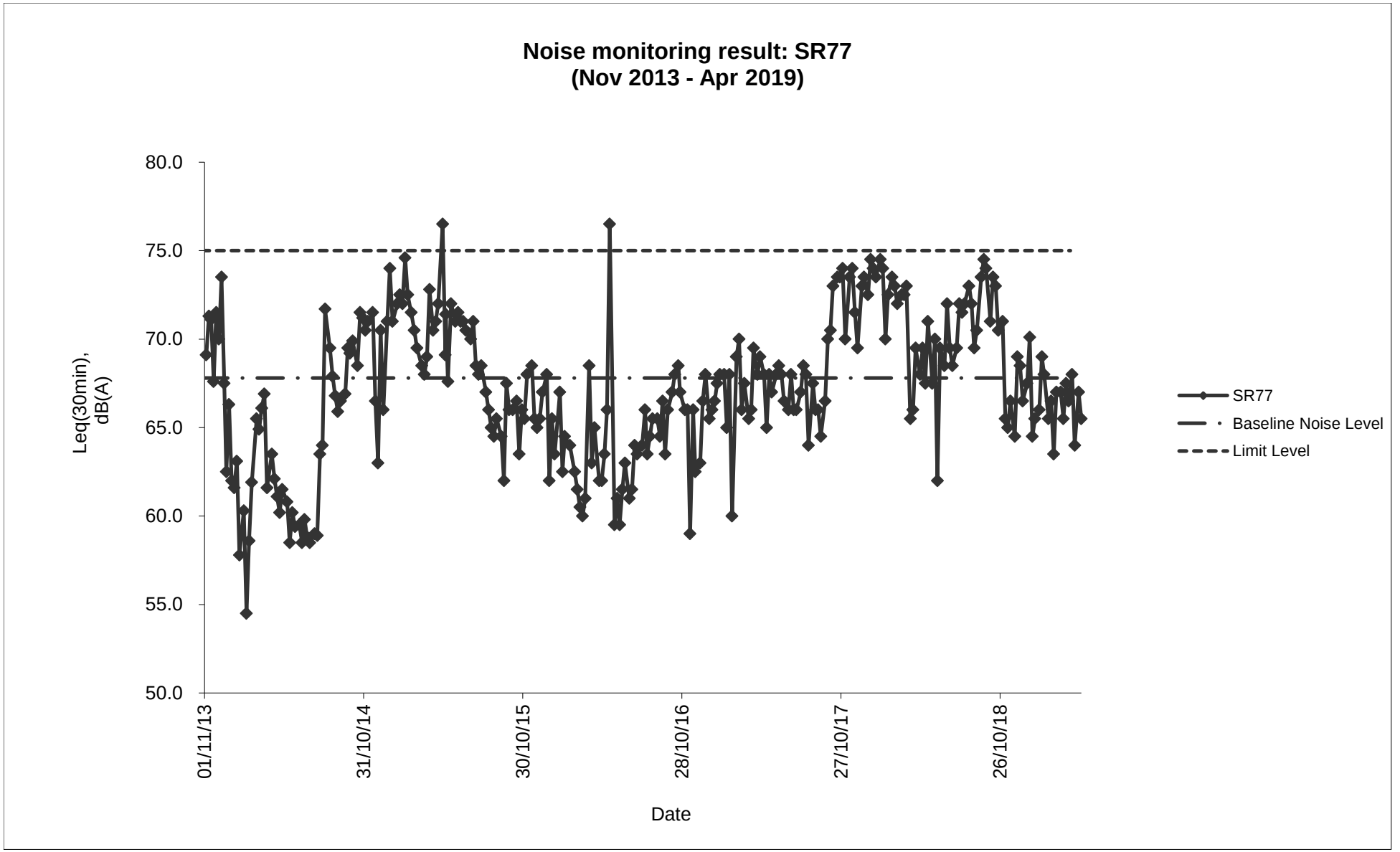
| Event | Action | | | |
|---|---|---|---|---|
| | **ET Leader** | **IEC** | **ER** | **Contractor** |
| Limit level being exceeded by one sampling day | 1. Repeat measurement on next day of exceedance to confirm findings;<br>2. Identify source(s) of impact;<br>3. Inform IEC, contractor, ER & EPD;<br>4. Check monitoring data, all plant, equipment & contractor's working methods;<br>5. Discuss mitigation measures with IEC, Contractor & ER. | 1. Checking monitoring data submitted by ET & Contractor's working method;<br>2. Discuss with ET & Contractor on the possible mitigation measures;<br>3. Review the proposed mitigation measures submitted by Contractor & advise the ER accordingly. | 1. Confirm receipt of notification of failure in writing;<br>2. Discuss with IEC, ET & Contractor on the proposed mitigation measures;<br>3. Request Contractor to review the working methods. | 1. Inform the ER & confirm notification of the non-compliance in writing;<br>2. Rectify unacceptable practice;<br>3. Check all plant & equipment & consider changes of working methods;<br>4. Submit proposal of mitigation measures to ER within 3 working days of notification & discuss with ET, IEC & ER. |
| Limit level being exceeded by two or more consecutive sampling days | 1. Repeat measurement on the next day of exceedance to confirm findings;<br>2. Identify source(s) of impact;<br>3. Inform IEC, Contractor, ER & EPD;<br>4. Check monitoring data, all plant, equipment & Contractor's working methods;<br>5. Discuss mitigation measures within IEC, Contractor & ER;<br>6. Ensure mitigation measures are implemented;<br>7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. | 1. Checking monitoring data submitted by ET & Contractor's working method;<br>2. Discuss with ET & Contractor on potential remedial actions;<br>3. Review Contractor's mitigation measures whenever necessary to assure their effectiveness & advise the ER accordingly;<br>4. Supervise the implementation of mitigation measures. | 1. Discuss with IEC, ET & Contractor on the proposed mitigation measures;<br>2. Request Contractor to critically review the working methods;<br>3. Make agreement on the mitigation measures to be implemented;<br>4. Ensure mitigation measures are properly implemented;<br>5. Consider & instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. | 1. Take immediate action to avoid further exceedance;<br>2. Submit proposal of mitigation measures to ER within 3 working days of notification & discuss with ET, IEC & ER;<br>3. Implement the agreed mitigation measures;<br>4. Resubmit proposals of mitigation measures if problem still not under control;<br>5. As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level. |

# Appendix D
# Air Quality Monitoring Results and their Graphical Presentation


24-Hour TSP Monitoring Result at Station: SR77
(Nov 2013 - Apr 2019)
TSP Concentration (µg/m3)
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
1-Nov-13
1-Nov-14
1-Nov-15
31-Oct-16
31-Oct-17
31-Oct-18
Date
TSP Concentration (µg/m3)
Action Level (µg/m3)
Limit Level (µg/m3)

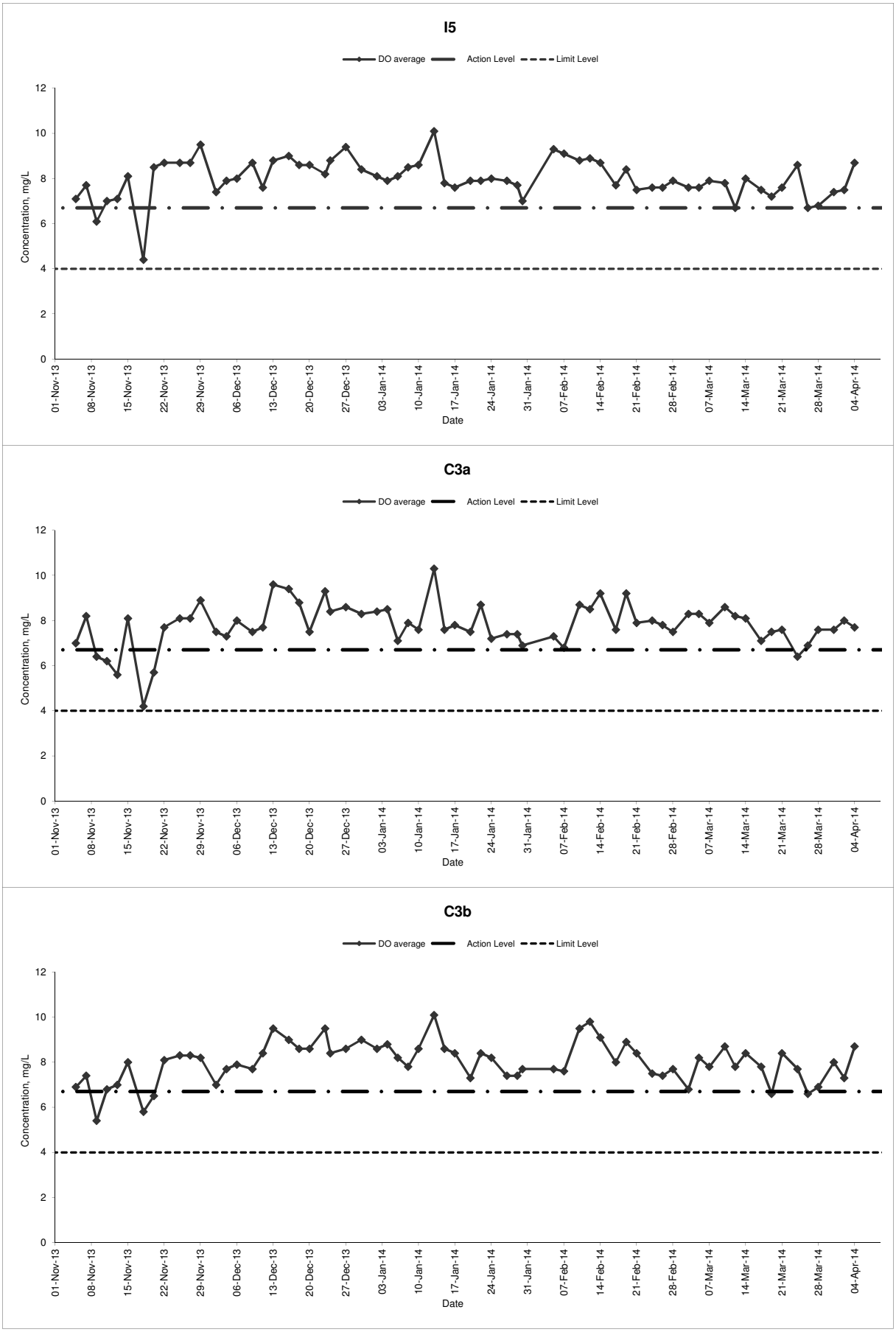

1-Hour TSP Monitoring Result at station: SR77
(Nov 2013 - Apr 2019)
600.0
500.0
400.0
300.0
200.0
100.0
0.0
TSP Concentration (µg/m3)
1-Nov-13
1-Nov-14
1-Nov-15
31-Oct-16
31-Oct-17
31-Oct-18
Date
1st Hour
2nd Hour
3rd Hour
Action Level (µg/m3)
Limit Level (µg/m3)

# Appendix E
# Noise Monitoring Results and their Graphical Presentation

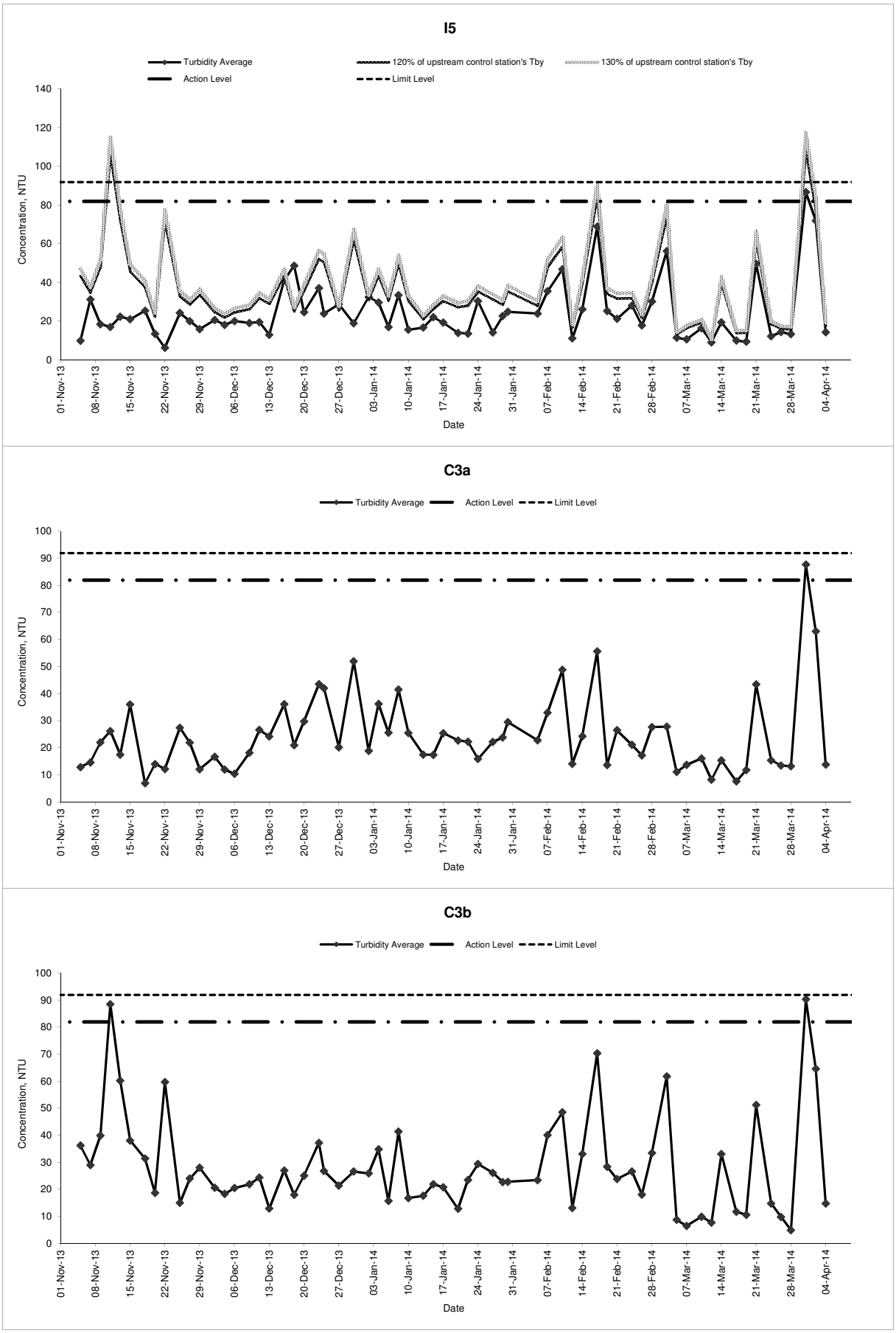

Noise monitoring result: SR77
(Nov 2013 - Apr 2019)
80.0
75.0
70.0
65.0
60.0
55.0
50.0
Leq(30min), dB(A)
01/11/13
31/10/14
30/10/15
28/10/16
27/10/17
26/10/18
Date
SR77
Baseline Noise Level
Limit Level

# Appendix F
# Water Monitoring Results and their Graphical Presentation

## Dissolved Oxygen (November 2013 - April 2014)

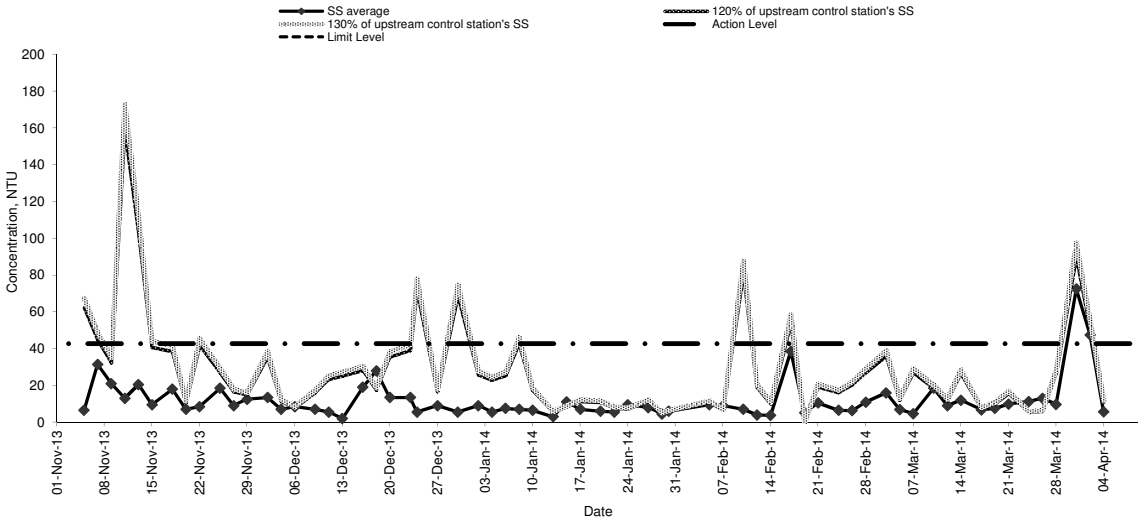


## Turbidity (November 2013 - April 2014)

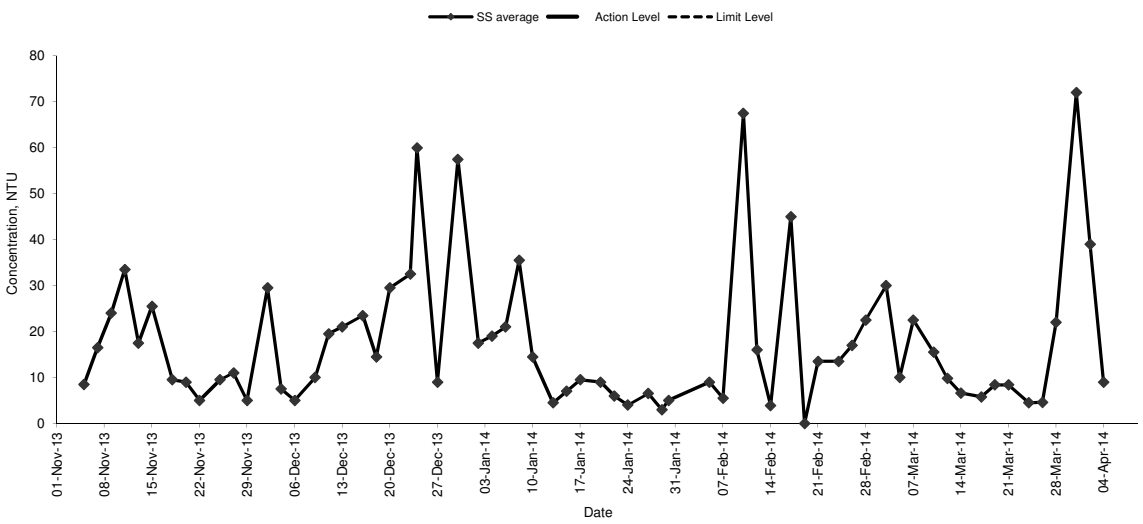


## Suspended Solid (November 2013 - April 2014)

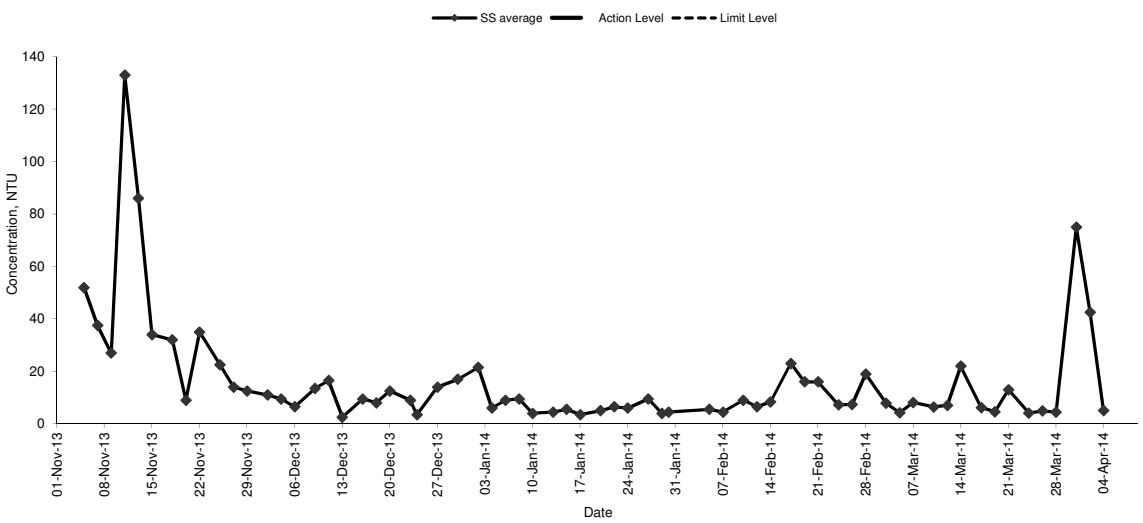
### I5



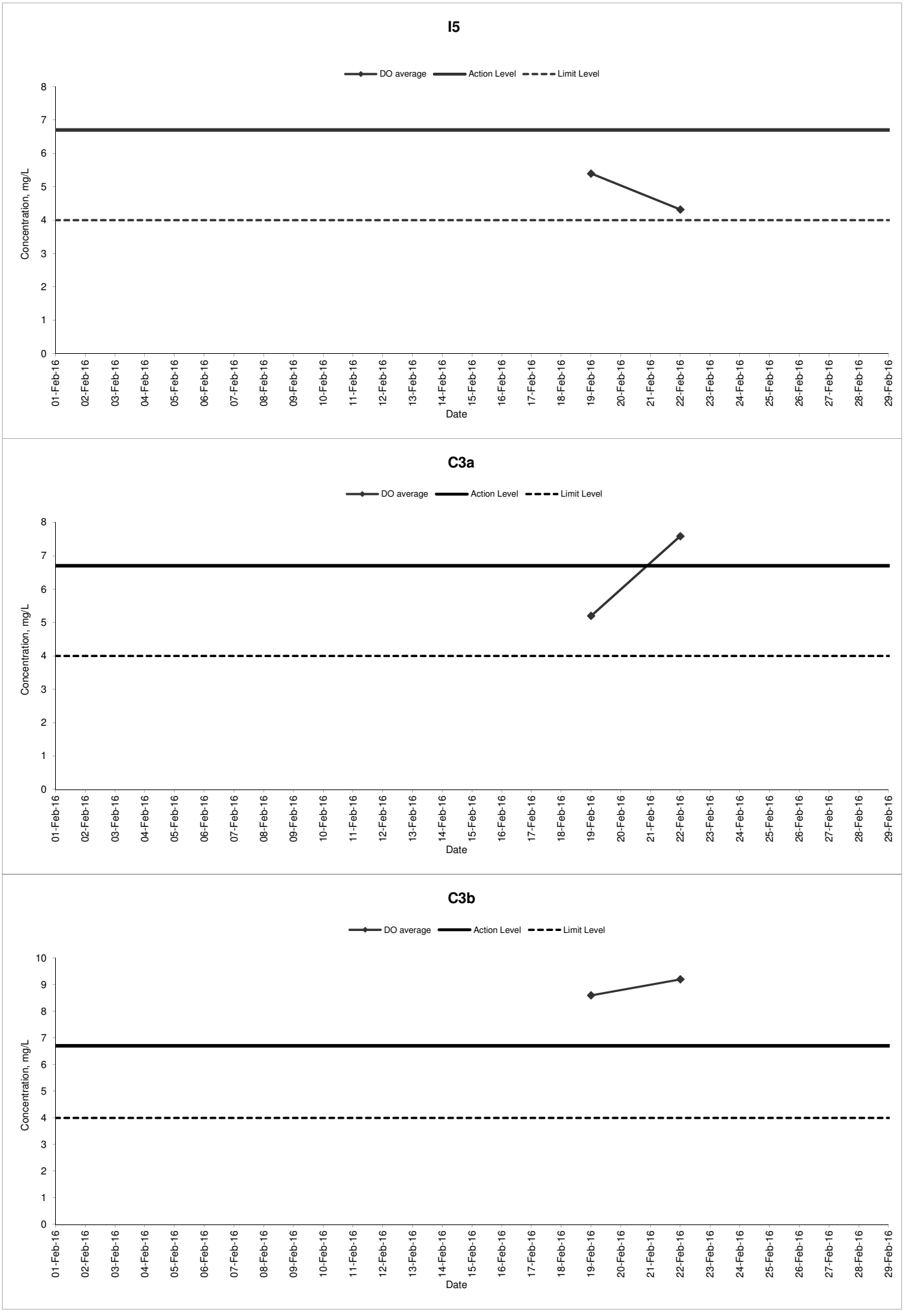

### C3a




### C3b

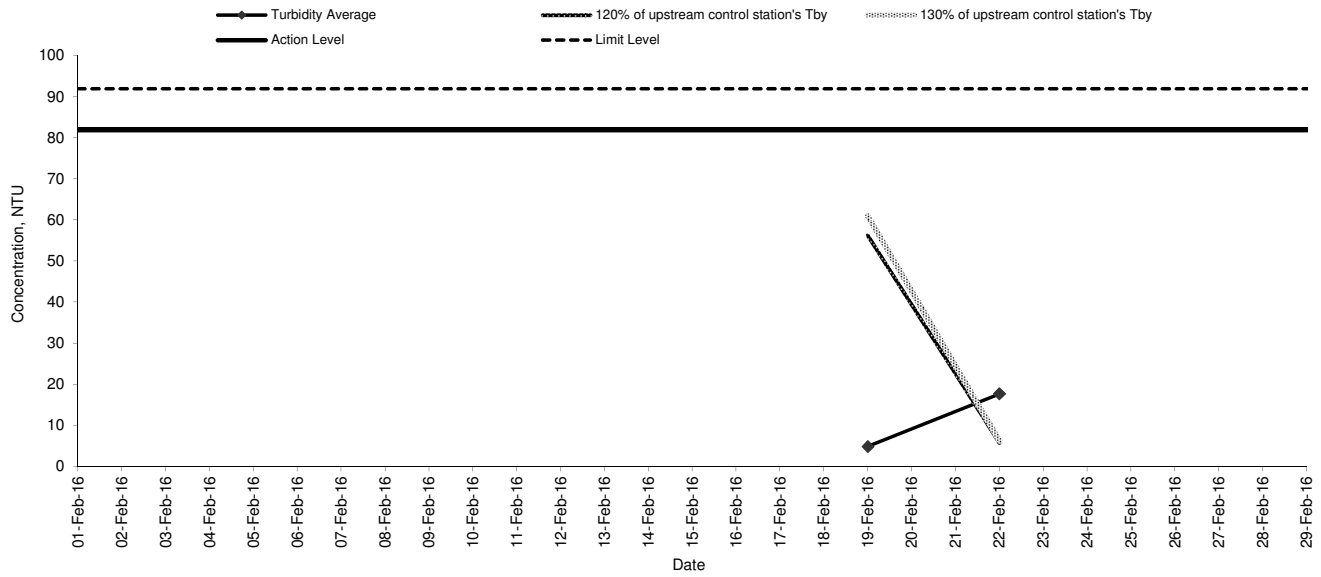


# Dissolved Oxygen

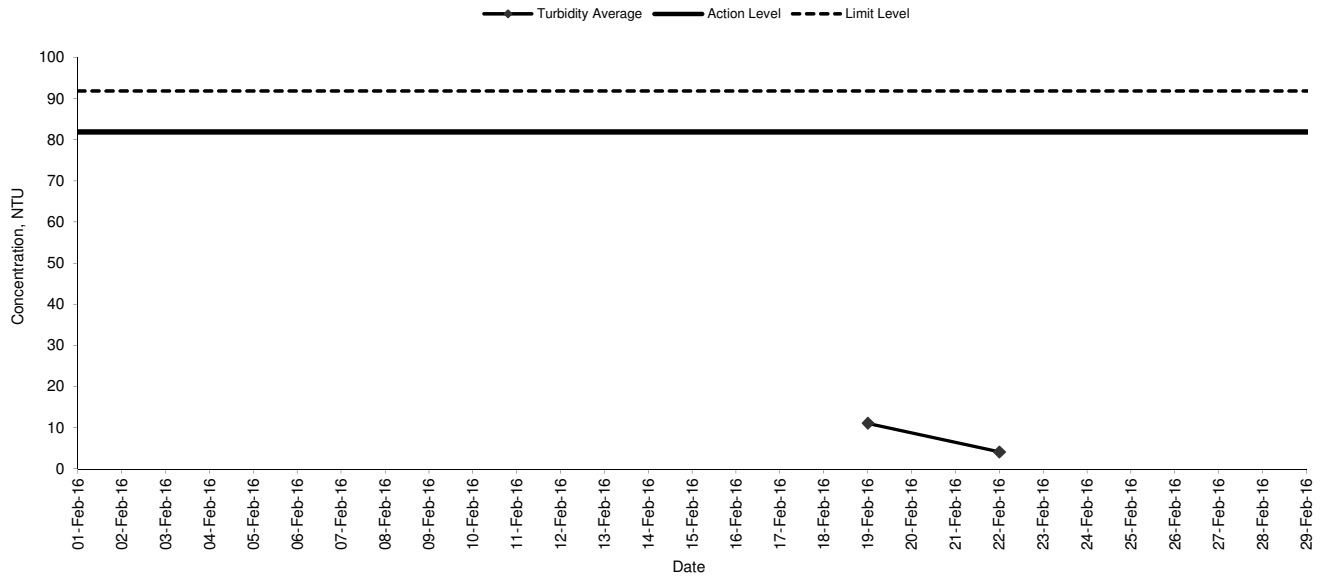


# Turbidity

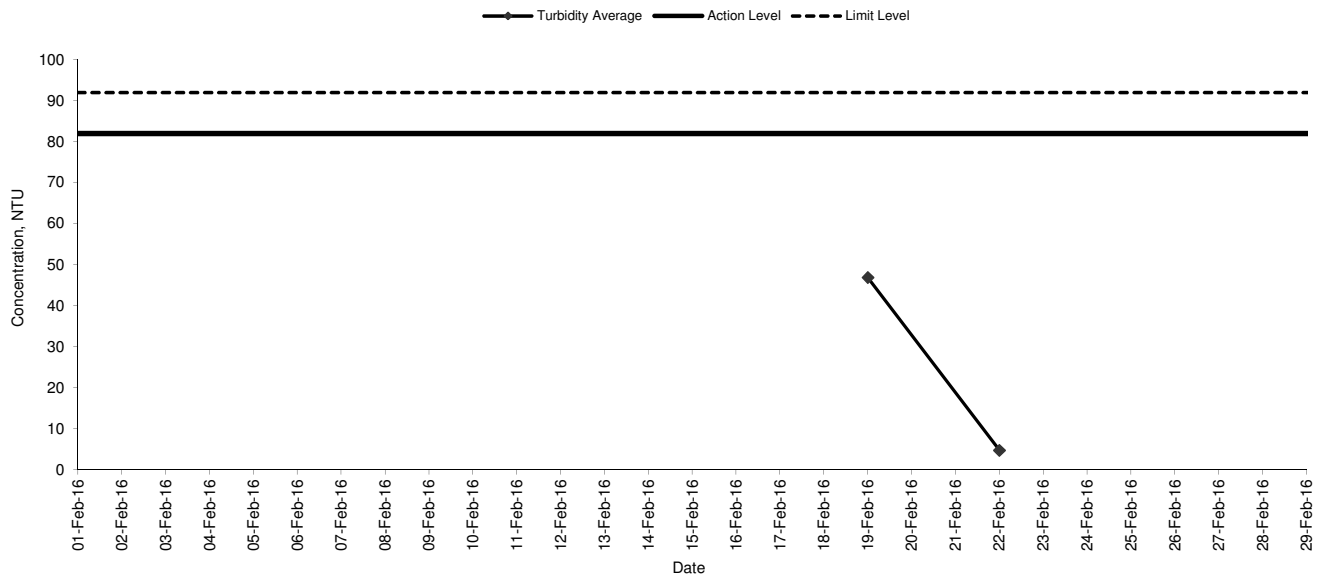
## I5




## C3a

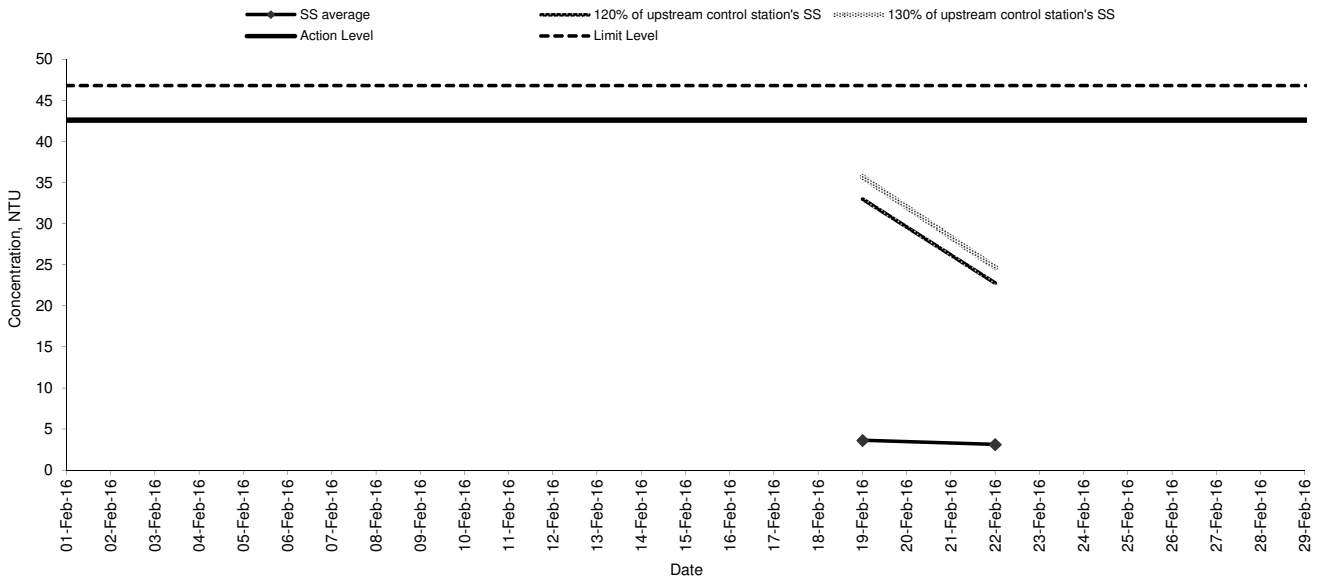



## C3b

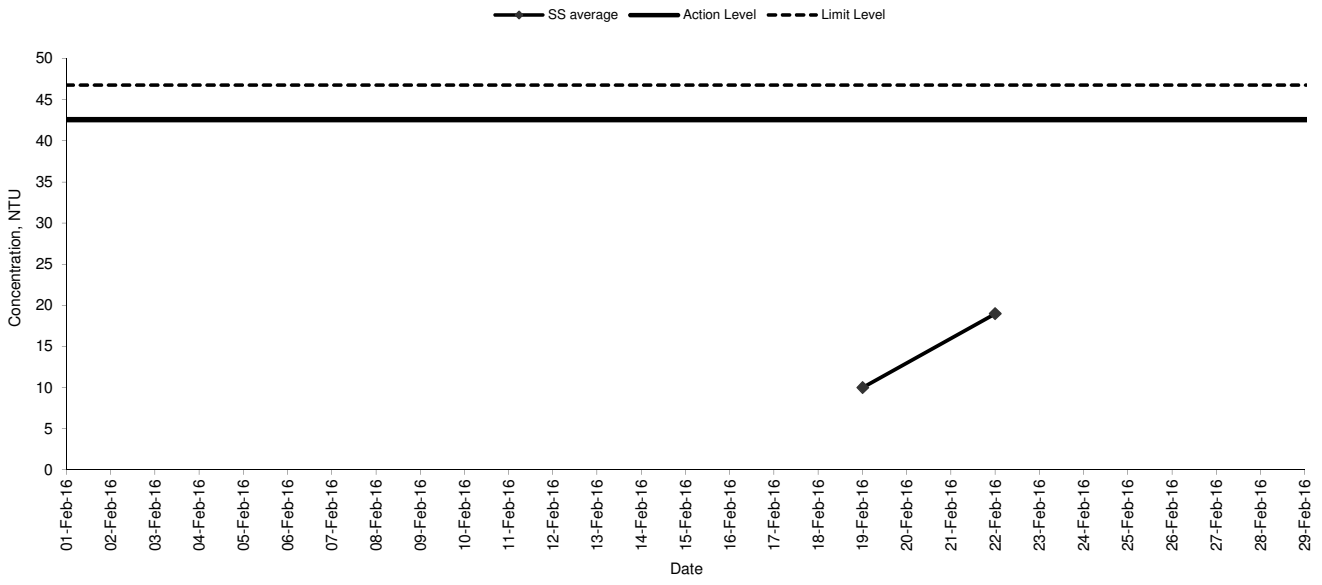


# Suspended Solid

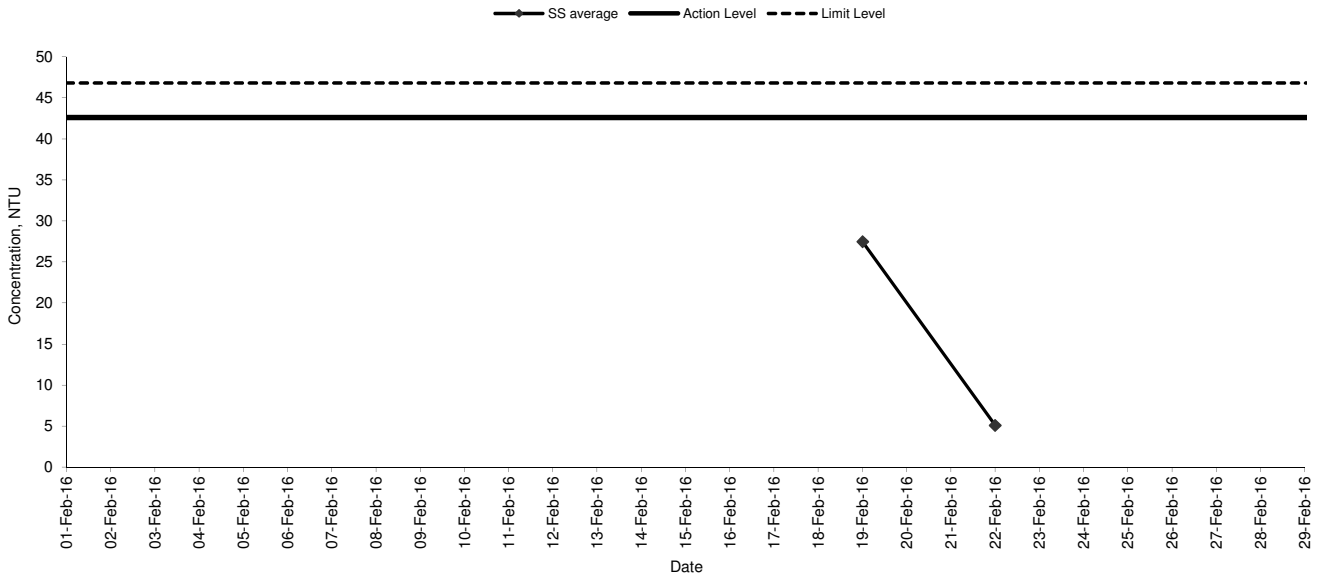
## I5



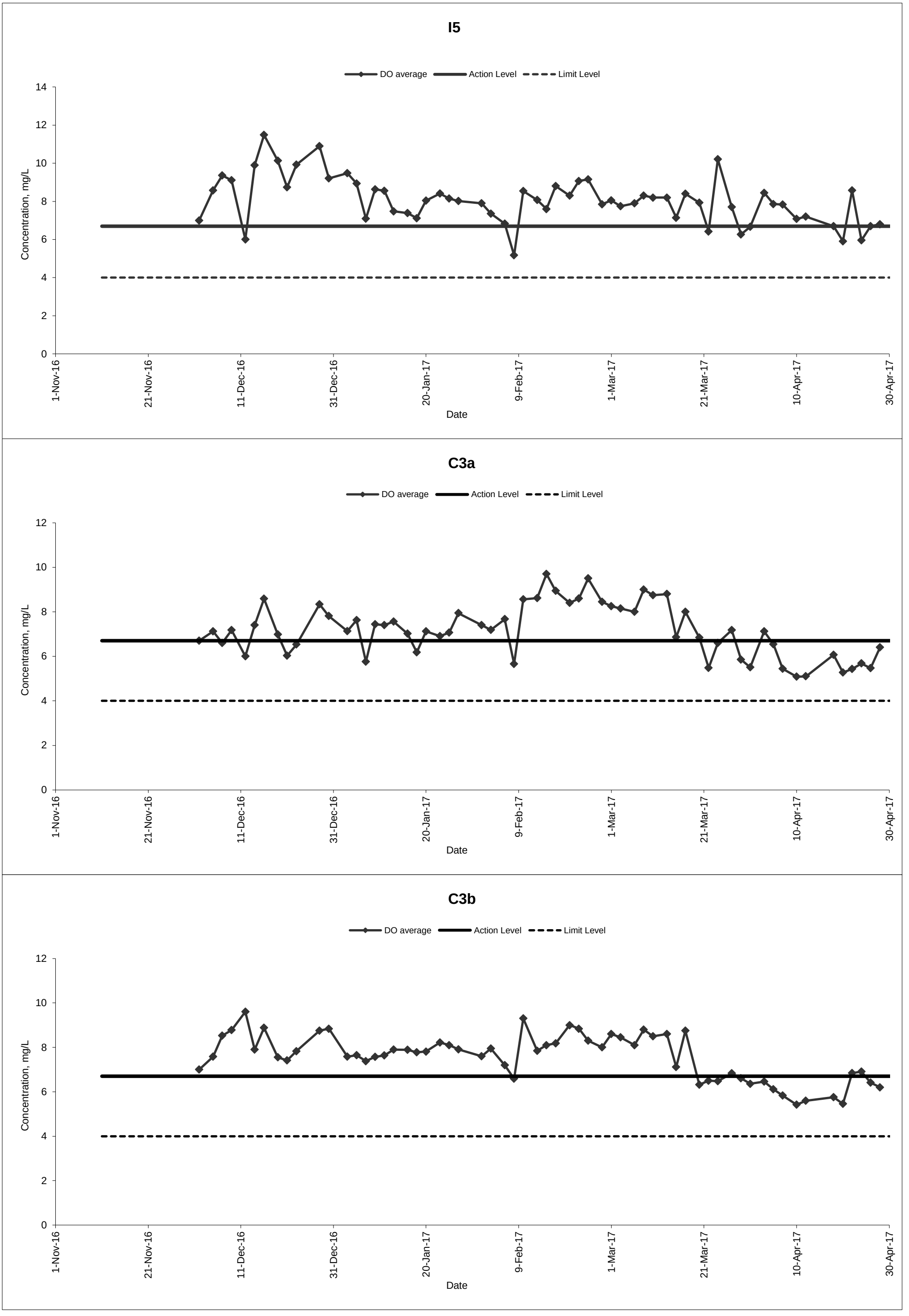

## C3a



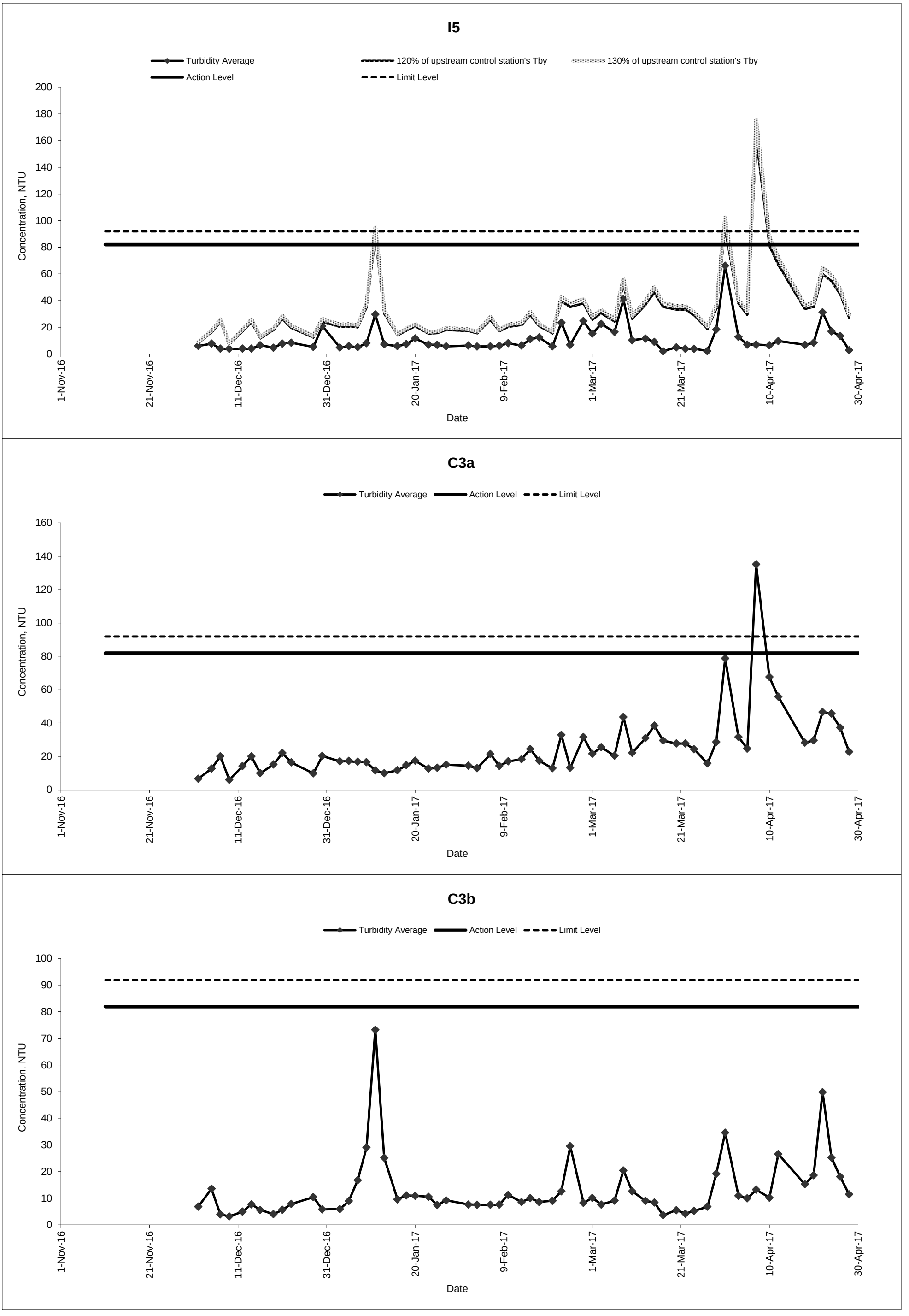

## C3b



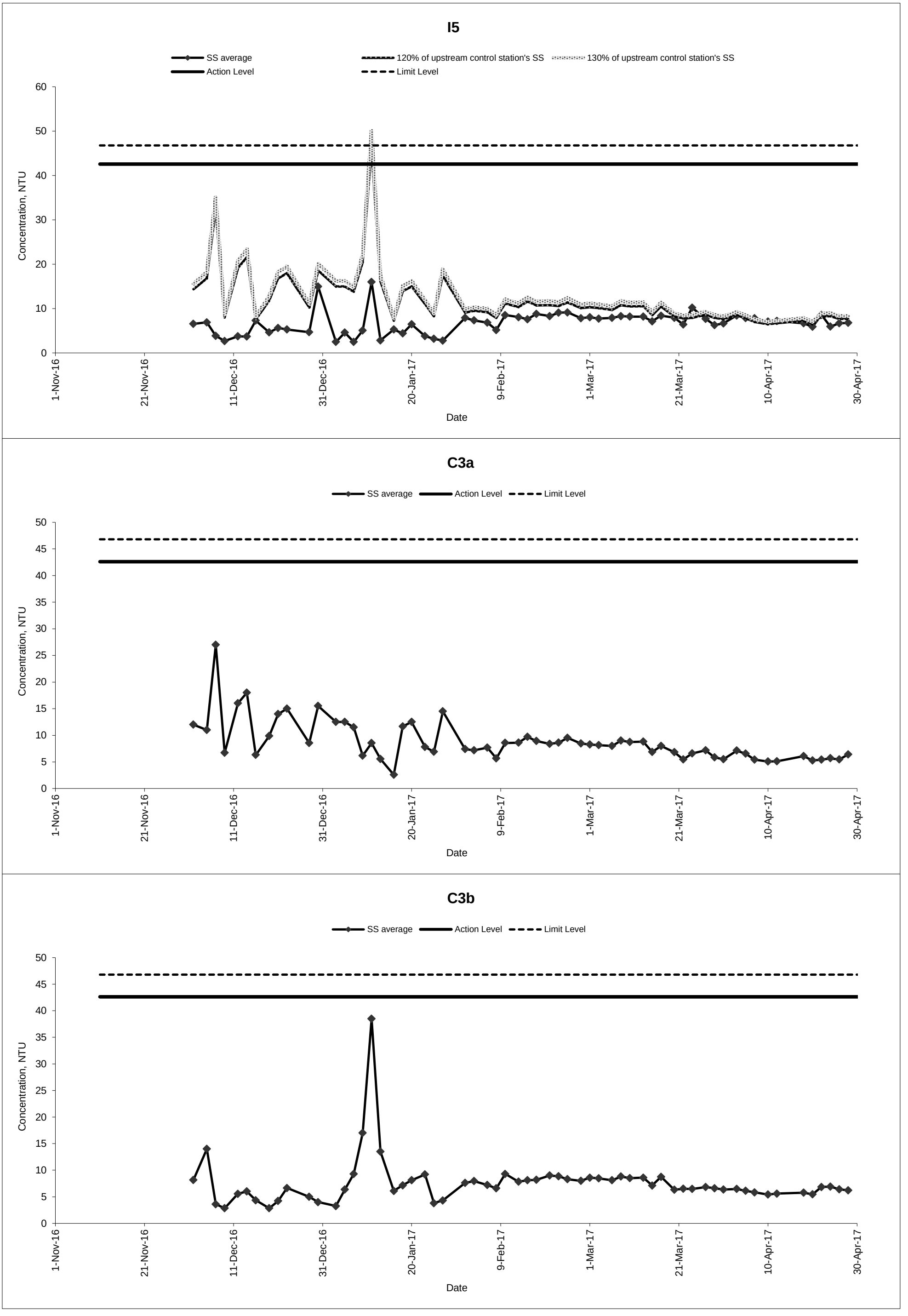
# Dissolved Oxygen



# Turbidity


I5
Turbidity Average
120% of upstream control station's Tby
130% of upstream control station's Tby
Action Level
Limit Level
Concentration, NTU
200
180
160
140
120
100
80
60
40
20
0
1-Nov-16
21-Nov-16
11-Dec-16
31-Dec-16
20-Jan-17
9-Feb-17
1-Mar-17
21-Mar-17
10-Apr-17
30-Apr-17
Date
C3a
Turbidity Average
Action Level
Limit Level
Concentration, NTU
160
140
120
100
80
60
40
20
0
1-Nov-16
21-Nov-16
11-Dec-16
31-Dec-16
20-Jan-17
9-Feb-17
1-Mar-17
21-Mar-17
10-Apr-17
30-Apr-17
Date
C3b
Turbidity Average
Action Level
Limit Level
Concentration, NTU
100
90
80
70
60
50
40
30
20
10
0
1-Nov-16
21-Nov-16
11-Dec-16
31-Dec-16
20-Jan-17
9-Feb-17
1-Mar-17
21-Mar-17
10-Apr-17
30-Apr-17
Date

# Suspended Solid



# Appendix G
# Waste Flow Table

**Monthly Summary Waste Flow Table**

| | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | Total Quantity Generated | Hard Rock and Large Broken Concrete | Soil | Soil Reused in the Contract | Soil Reused in other Projects | Soil Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging (Note 3) | Plastics | Chemical Waste | General Refuse (Note 2) |
| Unit | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in '000$m^3$) | (in $m^3$) | (in '000$m^3$) |
| 2013 | 1.528 | 0.007 | 1.521 | 0.503 | - | 1.018 | 0.600 | - | - | - | - | 0.110 |
| 2014 | 42.300 | 3.291 | 39.009 | 9.816 | - | 29.193 | 6.173 | 0.002 | - | 0.040 | 0.070 | 1.675 |
| 2015 | 33.352 | 2.033 | 31.320 | 10.901 | - | 20.419 | 4.475 | 2.770 | - | 1.085 | 1.530 | 1.130 |
| 2016 | 13.025 | 2.949 | 10.076 | 0.824 | - | 9.252 | 10.235 | 0.004 | 0.001 | 0.012 | 1.800 | 1.335 |
| 2017 | 20.614 | 3.798 | 16.816 | 1.668 | - | 15.148 | 6.268 | 0.767 | - | 0.006 | 0.033 | 1.415 |
| 2018 | 22.360 | 3.938 | 18.422 | 3.132 | - | 15.290 | 3.890 | - | - | - | - | 1.455 |
| 2019 | 13.529 | 2.282 | 11.242 | 0.000 | - | 11.242 | 1.027 | - | - | - | - | 0.440 |
| Total | 146.708 | 18.298 | 128.406 | 26.844 | - | 101.562 | 32.668 | 3.543 | 0.001 | 1.143 | 3.433 | 7.560 |

Note:

1. Assume the density of soil fill is 2 ton/$m^3$.
2. Assume the density of rock and broken concrete is 2.5 ton/$m^3$.
3. Assume each truck of C&D wastes is 5$m^3$.
4. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.
5. The slurry and bentonite are disposed at Tseung Kwun O 137.
6. The non-inert C&D wastes are disposed at NENT.
7. Assume the density of metal is 7,850 kg/$m^3$.

# Appendix H
# Implementation Schedule of Environmental Mitigation Measures (EMIS)

| Impact | Environmental Protection Measures | Timing | Responsibility | Implementation Status # |
|---|---|---|---|---|
| **Air Quality** | | | | |
| Air Quality during Construction | • Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.<br>• All stockpiles of excavated materials or spoil of more than 50m$^3$ shall be enclosed, covered or dampened during dry or windy conditions.<br>• Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.<br>• All spraying of materials and surfaces shall avoid excessive water usage.<br>• Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.<br>• Materials shall be dampened, if necessary, before transportation.<br>• Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.<br>• Vehicle washing facilities shall be provided to minimise the quantity of material deposited on public roads. | During Construction | Contractor | ✓<br>✓<br>✓<br>✓<br>✓<br>✓<br>✓<br>✓ |
| Air Quality during Operation | Not required | N/A | N/A | N/A |
| **Noise** | | | | |
| Noise during Construction | • Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.<br>• Reduce the number of equipment and their percentage on-time. | During Construction | Contractor | ✓<br>✓ |
| Noise during Operation | Not required | N/A | N/A | N/A |
| **Water Quality** | | | | |
| Water Quality during Construction | <u>Road Widening Works, Earthworks and Culvert Extension Works</u><br>• Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. | During Construction | Contractor | ✓ |
| | • Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. | | | ✓ |

Notes (#): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;

| | | | | |
|---|---|---|---|---|
| | • Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls.<br>• Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system.<br>• Open stockpiles should be covered with a tarpaulin cover.<br>• During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.<br>• Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.<br>• Fuels should be stored in bunded areas such that spillage can be easily collected. | | | ✓<br>✓<br>✓<br>✓<br>✓<br>✓ |
| Water Quality during Operation | Not required | N/A | N/A | N/A |
| **Waste Management** | | | | |
| Waste Management during Construction | <u>General Waste</u><br>• Transport of wastes off site as soon as possible.<br>• Maintenance of accurate waste records.<br>• Minimisation of waste generation for disposal (via reduction/recycling/re-use).<br>• No on-site burning will be permitted.<br>• Use of re-useable metal hoardings/signboards.<br><u>Vegetation from site clearance</u><br>• Segregation of materials to facilitate disposal.<br>• Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. | During Construction<br><br>During Construction | Contractor<br><br>Contractor | <br>✓<br>✓<br>✓<br>✓<br><br><br>✓<br>✓ |
| | <u>Demolition Wastes</u><br>• Segregation of materials to facilitate disposal.<br>• Appropriate stockpile management. | During Construction | Contractor | <br>✓<br>✓ |

Notes (#): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;

| | | | | |
|---|---|---|---|---|
| | Excavated Materials | During Construction | Contractor | ✓ |
| | ● Segregation of materials to facilitate disposal / reuse. | | | |
| | ● Appropriate stockpile management. | | | ✓ |
| | ● Re-use of excavated material on or off site (where possible). | | | ✓ |
| | ● Special handling and disposal procedures in the event that contaminated materials are excavated. | | | N/A |
| | Construction Wastes | During Construction | Contractor | ✓ |
| | ● Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). | | | |
| | ● Appropriate stockpile management. | | | ✓ |
| | ● Planning to reduce over ordering and waste generation. | | | ✓ |
| | ● Recycling and re-use of materials where possible (e.g. metal, wood from formwork) | | | ✓ |
| | ● For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. | | | ✓ |
| | Bentonite Slurries | During Construction | Contractor | |
| | ● Bentonite slurries should be reused as far as possible. | | | N/A |
| | ● Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. | | | N/A |
| | Chemical Wastes | During Construction | Contractor | ✓ |
| | ● Storage within locked, covered and bunded area. | | | ✓ |
| | ● The storage area shall not be located adjacent to sensitive receivers e.g. drains. | | | ✓ |
| | ● Minimise waste production and recycle oils/solvents where possible. | | | ✓ |
| | ● A spill response procedure shall be in place and absorption material available for minor spillages. | | | ✓ |
| | ● Use appropriate and labelled containers. | | | ✓ |
| | ● Educate site workers on site cleanliness/waste management procedures. | | | ✓ |

Notes (#): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;

| | | | | |
|---|---|---|---|---|
| | ● If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer.<br>● The chemical wastes shall be collected by a licensed chemical waste collector.<br><u>Municipal Wastes</u><br>● Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.<br>● Regular, daily collections are required by an approved waste collector. | During Construction | Contractor | ✓<br>✓<br>✓<br>✓ |
| Waste Management during Operation | Not required. | N/A | N/A | N/A |
| **Ecology** | | | | |
| Ecology during Construction | <u>Accurate Delineation of Works Area</u><br>● Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.<br>● Individual trees which fall within the works areas but which work plans show do not require removal are to be retained and fenced off to maximise protection.<br><u>Dust generation</u><br>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:<br>● vehicle washing facilities to be provided at every discernible or designated vehicle exit point; | During Construction<br><br>During Construction | Contractor<br><br>Contractor | ✓<br>✓<br>✓ |
| | ● all temporary site access roads shall be sprayed with water to suppress dust as necessary;<br>● all dusty materials should be sprayed with water immediately prior to any handling; and<br>● all debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. | | | ✓<br>✓<br>✓ |

Notes (#): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;

| | | | | |
|---|---|---|---|---|
| | <u>Surface Run-off</u><br><br>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:<br><br>● Bund and cover stockpiles to avoid run-off;<br><br>● Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;<br><br>● All vehicle maintenance to be undertaken within a bunded area; and<br><br>● Maximise vegetation retention on-site to maximise absorption (minimise transport). | During Construction | Contractor | <br><br>✓<br><br>✓<br><br>✓<br><br>✓ |
| Ecology during Operation | ● To conduct compensatory ecological planting as specified in the latest landscape plans approved by EPD (Clause 2.6 of the Environmental Permit refers). | During Construction and operation | Contractor (during construction) / LCSD* (during operation)<br><br>(Note: * The division of vegetation planting and maintenance responsibilities shall follow the guidelines stipulated in ETWB TCW No. 2/2004.) | N/A |
| **Landscape and Visual** | | | | |
| Landscape and Visual during Construction | <u>Preservation of Existing Vegetation</u><br><br>● Trees identified for retention within the project limit would be protected during the works<br><br>● The tree transplanting and planting works shall be implemented by approved Landscape Contractors | During Construction | Contractor | <br><br>✓<br><br>✓ |
| | <u>Temporary Works Areas</u><br><br>● Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase. | During Construction | Contractor | <br><br>✓ |

Notes (#): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;

| | | | | |
|---|---|---|---|---|
| | Hoarding<br>● A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.<br>Top Soils<br>● The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.<br>Protection of Important Landscape Features<br>● Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected. | During Construction<br><br>During Construction<br><br>During Construction | Contractor<br><br>Contractor<br><br>Contractor | <br>✓<br><br>N/A<br><br>N/A |
| Landscape and Visual during Operation | Not required. | N/A | N/A | N/A |

Notes (#): ✓ – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable;

# Appendix I
# Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

## Cumulative Complaint Log

| Complaint Log No. | Date of Complaint | Received From and Received By | Location of Complainant | Nature of Complaint | Outcome | Status |
|---|---|---|---|---|---|---|
| C131126 | 26, November, 2013 | Mr. Tony Hung from WWF | Mat Wat River (works sites for box culvert extension) | Suspected unauthorised discharge of water from a construction site to Ma Wat River, Tai Wo Service Road East, Tai Po | It was found that the water leaving the end of the steel pipes was the diverted water from the upstream of the existing box culverts, instead of being discharged from the construction works sites.<br><br>An EM&A Programme is being undertaken to monitoring the environmental performance of the construction works, and the Contractor has also implemented appropriate mitigation measures to avoid silt-laden runoff discharging from the works sites into the river.<br><br>The complaint is considered an invalid complaint under this Project. | Completed |

| Complaint Log No. | Date of Complaint | Received From and Received By | Location of Complainant | Nature of Complaint | Outcome | Status |
|---|---|---|---|---|---|---|
| C141120 | 20 November, 2014 | EPD | Ng Tung River and Ma Wat River nearby the site of the Liantang/ Heung Yuen Wai BCP Project (Contract Number CV/2012/09) | At Bridge NF426 in Fanling, the whole Ng Tung River showed milky and suspected illegal discharge by nearby factory has undertaken. (粉嶺近天橋編號 NF426 梧桐河整條河河水呈奶白色懷疑附近有工廠非法排放污水) | Water Supplies Department (WSD) conducted a washout procedure on 20 November 2014 at about 9:30am to flush the newly installed water pipe of diameter of 1400mm which has recently finished disinfection. It is understood that the procedure has lasted for about 1 hour and large amount of freshwater has been discharged into the Ma Wat River through a washout port.<br><br>Although water was observed seeping from the gantry switch and flew into the works sites, the area is a sump pit and the water was unlikely to run off and entered the river directly. As such, it is anticipated that only freshwater has been discharged into Ma Wat River through the washout port.<br><br>Both site inspections conducted by the ET before the complaint (19 November 2014), and after the complaint (24 November 2014) did not identify any deficiencies on environmental mitigation measures. Also, there were no rains during the period and the risk of construction site run-off is considered minimal. | Completed |

| Complaint Log No. | Date of Complaint | Received From and Received By | Location of Complainant | Nature of Complaint | Outcome | Status |
|---|---|---|---|---|---|---|
| | | | | | The water from the Ma Wat Channel adjoins the Ng Tung River before passing through the complaint location, so other pollution sources may also occur at upstream of Ng Tung River<br><br>The complaint is considered unlikely due to the construction works of this project. | |

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