Civil Engineering and Development Department

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works Design and Construction

Monthly EM&A Report
(Version 1.0)

July 2017

Approved By

(Dr. Priscilla Choy,
Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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Introduction

1. This is the 9th Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction" (hereinafter called "the Project"). This report documents the findings of EM&A Works conducted in 1 – 31 July 2017.

2. During the reporting month, the major site activities undertaken in the reporting month included:
   - Site Clearance in Portions D, F, H, N and J;
   - Construction of public toilet in Portion L;
   - Tree felling in Portions D, F, H, N and J;
   - Construction of retaining wall in Portions A, C, D, E and K;
   - Construction of subway in Portions B and I;
   - Utilities diversion works in Portions B, C, D, E, F, G, H and N; and
   - Earth and drainage works in Portion A.

Environmental Monitoring Works

3. Environmental monitoring for the Project shall be performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

4. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table I**.

Table I Non-compliance Record for the Project in the Reporting Month

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
Noise	0	0	N/A

Key Information in the Reporting Month

5. Summary of key information in the reporting month is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

Environmental License and Permits

6. Licenses/Permits granted to the Project include:
   - Environmental Permits (EP) for the Project,
     - EP-450/2013 issued on 30 May 2013 and EP-450/2013/A issued on 25 August 2015; and
     - EP-501/2015 issued on 2 September 2015
   - Billing Account for Waste Disposal (Acc No.: 7025411)

Future Key Issues

7. The future key environmental issues in the coming two months include:

   - Wastewater and runoff generation on-site;
   - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
   - Review and implementation of temporary drainage system for the surface runoff;
   - Noise from operation of the equipment, especially for excavation works and machinery on-site;
   - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
   - Water spraying for dust generating activities and on haul road;
   - Proper storage of construction materials on-site;
   - Storage of chemicals/fuel and chemical waste/ waste oil on-si
   - Accumulation of general refuse and construction waste on-site; and
   - Protection measures for retained trees on-site.

1 INTRODUCTION

Background

1.1 "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River" (the EIA Report) is a Schedule 2 Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (Registered No.: AEIAR-133/2009) and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 12 March 2009.

1.2 Civil Engineering and Development Department (CEDD) implemented the DP in two stages, i.e. Stage 1 and Stage 2. An Environmental Permit (EP) No. EP-450/2013 has been granted for Stage 1 works on 30 May 2013. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-450/2013) based on the Application No. VEP-478/2015 and the EP (Permit No. EP-450/2013/A) was issued on 25 August 2015 to CEDD as the Permit Holder.

1.3 An Environmental Review (ER) Report of the "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2" had been prepared in July 2015 and the Environmental Monitoring and Audit Manual (EM&A Manual) was also included as part of the ER report in the application (Application No.: AEP-501-2015). An Environmental Permit No. EP-501/2015 was issued on 2 September 2015 for Stage 2 works to CEDD as the Permit Holder.

1.4 "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction" (hereinafter called the "Project") covers the Stage 1 (Part) and Stage 2 works of the DP. This Project was commissioned to Sang Hing – Kuly Joint Venture (hereinafter called the "Contractor") for "Contract No.: YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works". The site location and work programme are shown in **Figure 1a-1h** and **Appendix A** respectively.

1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 23rd November 2016. This is the 9th Monthly EM&A Report summarizing the EM&A works for the Project from 1 – 31 July 2017.

Project Organizations

1.6 Different parties with different levels of involvement in the project organization include:

- Project Proponent – Civil Engineering and Development Department (CEDD)
- Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings)
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
- Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR)
- Contractor – Sang Hing – Kuly Joint Venture (SKJV)

1.7 The Organizational Structure for Environmental Management is shown in **Figure 3**.

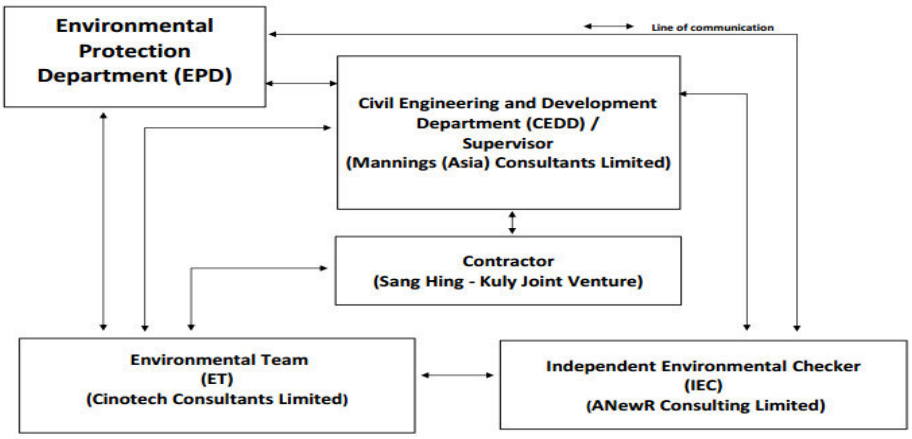


Figure 3 Organization Structure (Environmental Aspects)

1.8 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Chu Wai Lun, Thomas	2417 6370	2412 0358
Mannings	Supervisor Representative	Mr. Simon Ng	3168 2028	3168 2022
Cinotech	Environmental Team	Dr. Priscilla Choy	2151 2089	3107 1388
		Ms. Ivy Tam	2151 2090	
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648
SKJV	Contractor	Mr. Ma Kin Man	9552 1734	2890 8205

Construction Activities undertaken during the Reporting Month

1.9 The major site activities undertaken in the reporting month included:

- Site Clearance in Portions D, F, H, N and J;
- Construction of public toilet in Portion L;
- Tree felling in Portions D, F, H, N and J;
- Construction of retaining wall in Portions A, C, D, E and K;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portions B, C, D, E, F, G, H and N; and
- Earth and drainage works in Portion A.

1.10 The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in **Table 1.2**.

Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.9	Noise, dust impact, water quality and waste generation	• Sufficient watering of the works site with active dust emitting activities • Properly cover the stockpiles • On-site waste sorting and implementation of trip ticket system • Appropriate desilting/sedimentation devices provided on site for treatment with valid Discharge License before discharge • Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall • Use of quiet plant and well-maintained construction plant • Provide movable noise barrier • Proper wheel washing for construction vehicles before leaving the site • Provide sufficient mitigation measures as recommended in Approved EM&A Manual/Lease requirement

Summary of EM&A Requirements

1.11 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event and Action Plans;
- Environmental mitigation measures, as recommended in the EIA Reports, Environmental Review Reports and EM&A Manuals

1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required noise monitoring and audit works for the Project in 1 – 31 July 2017.

2 AIR QUALITY

Monitoring Requirements

2.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.

2.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

3 WATER QUALITY

Monitoring Requirements

3.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no water quality monitoring is required for the Project.

3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

4 NOISE

Monitoring Requirements

4.1 In accordance with approved EM&A Manuals for Stage 1 works in Year 2015, no noise impact monitoring is required for Stage 1 works of the Project.

4.2 According to approved EM&A Manual for Stage 2 works (Year 2015), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities under the Stage 2 works of the Project. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

4.3 Noise monitoring was conducted at 6 designated monitoring stations (N1, N2, N3, N5, N6 and N7) in the reporting month. **Figures 2a – 2c** shows the locations of these stations.

Table 4.1 Noise Monitoring Stations

Monitoring Stations	Locations	Location of Measurement
N1	HKMLC Wong Chan Sook Ying Memorial School	Rooftop (about 5/F) area
N2	Bethel High School	Rooftop (about 4/F) area
N3	No. 159 Mai Po San Tsuen	G/F area
N5	Block 2, Dills Corner Garden	G/F area
N6	Home of Loving Faithfulness	Rooftop (about 3/F) area
N7	Village House in Shek Wu Wai	G/F area

Monitoring Equipment

4.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications.

4.5 Acoustic Calibrator was used to check the accuracy of the sound level meter. The calibrators generate a continuous and highly stable sound pressure level at known frequency of 1 kHz that also complied with IEC 942: 1988 Class 1 specifications. **Table 4.2** summarizes the noise monitoring equipment in reporting period. Copies of calibration certificates are provided in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model and Make	Qty.

Integrating Sound Level Meter	SVAN 957, 977	3
Acoustic Calibrator	SV30A, 4231	3

Monitoring Parameters and Frequency

4.6 **Table 4.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 4.3 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Parameter	Period	Frequency	Measurement
N1	L_{eq}(30 min.) dB(A) L_{10}(30 min.) dB(A) L_{90}(30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade
N2				Façade
N3				Free Field
N5				Free Field
N6				Façade
N7				Free Field

Monitoring Methodology and QA/QC Procedures

4.7 The monitoring procedures are as follows:

- The monitoring station were normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - frequency weighting: A
  - time weighting : Fast
  - measurement time : 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- At the end of the monitoring period, the L_{eq}, L_{90} and L_{10} were recorded. In addition, noise sources were recorded on a standard record sheet.
- Noise measurement would be paused temporarily during periods of high intrusive noise if possible and observation would be recorded when intrusive noise was not avoided.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

4.8 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

4.9 The sound level meter and calibrator were checked and calibrated at yearly intervals.

4.10 Immediately prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

4.11 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in the reporting month is shown in **Appendix F**.

4.12 The baseline noise level and the Noise Limit Level at each designated noise monitoring stations are presented in **Table 4.4**.

4.13 Noise monitoring results and graphical presentations are shown in **Appendix E**.

4.14 The other noise sources identified which might affect the noise monitoring results at the designated noise monitoring stations are as follows:

Monitoring Stations	Locations	Other Noise Source(s)
N1	HKMLC Wong Chan Sook Ying Memorial School	Road traffic noise Noise from daily school activities
N2	Bethel High School	Road traffic noise Noise from daily school activities
N3	No. 159 Mai Po San Tsuen	Road traffic noise
N5	Block 2, Dills Corner Garden	Road traffic noise
N6	Home of Loving Faithfulness	Road traffic noise Noise from activities at the premise and workshops near the premise
N7	Village House in Shek Wu Wai	Road traffic noise Noise from activities at workshops near the village house

Table 4.4 Baseline Noise Level and Noise Limit Level for Monitoring Stations

Station	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)
N1	62.2 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on normal weekdays)

N2	55.2 (at 0700 – 1900 hrs on normal weekdays)	
N3	68.8 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N5	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N6	72.0 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
M7	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)

(*) Noise Limit Level is 65 dB(A) during school examination periods.

5 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

5.1 The EM&A data was compared with the predictions in EIA Report (Year 2009) and Environmental Review Report (ERR) for Stage 2 Works (Year 2015) as summarized in **Table 5.1**.

Table 5.1 Comparison of Noise Monitoring Data with Predictions in EIA Report and ERR

Stations	Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)	Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)	Reporting Month (July 17), $L_{eq\ (30min)}$ dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62(1)	53.1-61.9
N2 – Bethel High School	57-64	64(1)	49.8-59.1
N3 – No. 159 Mai Po San Tsuen	70-73	74(2)	67.5-71.9
N5 – Block 2, Dills Corner Garden	73-75	75(2)	68.1-71.4
N6 – Home of Loving Faithfulness	64-73	74(1)	67.8-71.7
N7 – Village House in Shek Wu Wai	N/A(3)	70(2)	64.8-72.2

Remark:
(1) With adoptions of quiet PMEs, temporary noise barrier and enclosure
(2) With sub-grouping of construction activities
(3) No construction noise level was predicted in EIA Report (2009)

5.2 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results in the reporting month at monitoring station N6 were within the range of predicted mitigated construction noise levels in the EIA Report. The results at N1, N2, N3 and N5 were lower than the range of the predicted mitigated construction noise levels in the EIA Report.

5.3 When comparing the noise monitoring results to the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works, the results at monitoring stations N1, N2, N3, N5 and N6 were lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works. The noise monitoring result at monitoring station N7 was slightly higher than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works.

6 ECOLOGY AND FISHERIES

6.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, no specific ecological or fisheries monitoring is required during the construction phase of the Project.

6.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of ecology and fisheries mitigation measure. The summaries of site audits are attached in **Appendix G**.

7 LANDSCAPE AND VISUAL IMPACT

7.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, regular audits should be carried out to ensure all the recommended landscape and visual mitigation measures in EIA Report, Environmental Review Reports and EM&A Manuals were effectively implemented.

7.2 ET Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measure. The summaries of site audits are attached in **Appendix G**.

8 ENVIRONMENTAL AUDIT

Site Audits

8.1 Site audit was carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix G**.

8.2 Site audits were conducted on 5, 12, 18 and 27 July 2017 in the reporting month. IEC joint site inspection was conducted on 18 July 2017. No non-compliance was observed during the site audit.

Review of Environmental Monitoring Procedures

8.3 The monitoring works conducted by the monitoring were inspected regularly. The following observations have been recorded for the monitoring works:

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Statues of Environmental Licensing and Permitting

8.4 All permits/licenses obtained for the Project are summarized in **Table 8.1**.

Table 8.1 Summary of Environmental Licensing and Permit Status

Permit No.	Valid Period		Details	Status
	From	To		
Environmental Permit (EP)				
EP-450/2013/A	25/08/15	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 1	Valid
EP-501/2015	02/09/15	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
Billing Account for Construction Waste Disposal				
A/C No.: 7025411	N/A	N/A	Billing Account for construction waste disposal under Waste Disposal (Charges for Disposal of Construction Waste) Regulation	Valid
Effluent Discharge License				
WT00027672-2017	--	31/3/2022	Discharge License for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain	Valid
WT00027661-2017				
WT00027606-2017				
WT00027510-2017				
WT00027509-2017				
WT00027603-2017				
WT00027508-2017				
WT00027582-2017		30/6/2018		

Permit No.	Valid Period		Details	Status
	From	To		
WT00027584-2017	--	31/7/2019		Valid
WT00027431-2017		30/6/2020		
WT00027605-2017		31/3/2022		
WT00027607-2017				
WT00027834-2017		30/4/2022		
Registration of Chemical Waste Producer				
No.:WPN5213-524-K3261-01	--	N/A	Registration of chemical waste producer for chemical waste produced during construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
Construction Noise Permit (CNP)				
GW-RN0446-17	23/07/17	10/9/2022	Construction Noise Permit for loading, unloading or handling of wood in San Tin Highway near Man Tin Cheung Park	Valid

Status of Waste Management

8.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix K**.

8.6 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

8.7 According to the Environmental Review Reports, Environmental Permits and the EM&A Manuals of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix I**.

8.8 During site inspections in the reporting month, no non-conformance was identified. The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 8.2**.

Table 8.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	31 May, 7, 14, 20 ,28 June, 5 ,12 ,18 ,27 July 2017	Reminder: Wheel washing bays in Portion A, C, I and K were found silty and containing some litters, the water should be replaced or maintained more frequently to ensure clean water is used for wheel washing of vehicles.	Follow up actions for Portion I will be reported in the next month. Portion A was observed to be improved/rectified by the contractor during the audit session on 27 July 2017. Portion C was observed to be improved/rectified by the contractor during the audit session on 28 June 2017. Portion K was observed to be improved/rectified by the contractor during the audit session on 12 July 2017.
	18 , 27 July 2017	Reminder: Sandbag bund at Portion I should be enhanced to prevent silty runoff entering public drainage.	Follow up actions will be reported in the next month.
Air Quality	31 May, 7, 14, 20 and 28 June 2017	Reminder: Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.	The deficiency was observed to be improved/rectified by the contractor during the audit session on 5 July 2017.
	5 July 2017	Observation: Public pedestrian road next to Portion E should be cleared of dust and kept clean.	The deficiency was observed to be improved/rectified by the contractor during the audit session on 12 July 2017.

Parameters	Date	Observations and Recommendations	Follow-up
	12, 18 ,27 July 2017	Observation: Stockpiles at Portion A should be properly covered with impervious materials for dust suppression.	Follow up actions will be reported in the next month
	18, 27 July 2017	Observation: The sheeting for covering the stockpiles at Portion K needs to be replaced/repaired	Follow up actions will be reported in the next month.
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	5 July 2017	Observation: Drip trays should be provided to chemical containers at Portion I to prevent chemical leakage	The deficiency was observed to be improved/rectified by the contractor during the audit session on 12 July 2017.
	5 July 2017	Follow-up: General refuse found at Portion C should be properly cleared.	The deficiency was observed to be improved/rectified by the contractor during the audit session on 12 July 2017.
	12 ,18 ,27 July 2017	Observation: General refuse was found at Portion E should be properly cleared.	Follow up actions will be reported in the next month.
	18 ,27 July 2017	Reminder: General refuse was found at Portion L. Regular cleaning is needed.	Follow up actions will be reported in the next month.
	18 , 27 July 2017	Observation: There are bottles of chemical directly placed on the soil surface without drip tray at Portion I.	Follow up actions will be reported in the next month.
	27 July 2017	Reminder: Remove the stagnant water in the drip tray regularly.	Follow up actions will be reported in the next month.
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	12 ,18, 27 July 2017	Observation: Retained tree at Portion E is needed to be well maintained.	Follow up actions will be reported in the next month.
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

8.9 The Event and Action Plan for noise is presented in **Appendix H**.

Construction Noise

8.10 No Action/Limit Level exceedance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

8.11 The summaries of environmental complaint, warning, summon and notification of

successful prosecution for the Project is presented in **Appendix J**.

9 FUTURE KEY ISSUES

9.1 Major site activities undertaken for the coming two months include:

- Site Clearance in Portions F and J;
- Ground investigation in Portion J;
- Construction of public toilet in Portion L;
- Tree felling in Portions D, F and J;
- Construction of retaining wall in Portions C, D, E, H and K;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portions A, C, D, E, G, H and N;
- Earth and drainage works in Portions B, D, P;
- Construction of U-channel in Portion B;
- Construction of Dwarf Wall in Portion K; and
- Construction of Cycle Track in Portion A and B

Key Issues for the Coming Month

9.2 Key environmental issues in the coming months include:

- Wastewater and runoff generation on-site;
- Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
- Review and implementation of temporary drainage system for the surface runoff;
- Noise from operation of the equipment, especially for excavation works and machinery on-site;
- Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
- Water spraying for dust generating activities and on haul road;
- Proper storage of construction materials on-site;
- Storage of chemicals/fuel and chemical waste/waste oil on-site;
- Accumulation of general refuse and construction waste on-site; and
- Protection measures for retained trees.

9.3 The tentative program of major site activities and the impact prediction and control measures for the coming months, i.e. August 2017 to September 2017, are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 9.1	Air quality impact (dust)	(a) Frequent watering of haul road and unpaved/exposed areas; (b) Frequent watering or covering stockpiles with tarpaulin or similar means; and (c) Watering of any earth moving activities.
	Water quality impact (surface run-off)	(d) Diversion of the collected effluent to de-silting facilities for treatment in compliance with valid Discharge License prior to discharge to public storm water drains; (e) Provision of adequate de-silting facilities for treating surface run-off and other collected

		effluents prior to discharge; (f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and (g) Provision of measures to prevent discharge into the stream.
	Noise impact	(h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; (i) Controlling the number of plants use on site; (j) Regular maintenance of machines (k) Use of quiet PMEs on-site; and (l) Use of acoustic barriers and noise enclosure if necessary.
	Landscape and Visual	(m) Proper setup of precautionary area for retained trees.

Monitoring Schedule for the Next Month

9.4 The tentative environmental monitoring schedules for the next month are shown in **Appendix D**.

10 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

10.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

Construction Noise Monitoring

10.2 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was record.

Site Audit

10.3 4 times of ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint and Prosecution

10.4 No environmental complaints and environmental prosecution was received in the reporting month.

10.5 No environmental prosecution was received in the reporting month.

Recommendations

10.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality

- Water spraying should be provided frequently to unpaved and exposed area, and haul roads for dust suppression.
- Proper tarpaulin coverage should be provided to all stockpiles in the Site to prevent dust generation.

Water Quality

- Wheel washing bays in all Portions within the Site should be maintained as far as practicable by means of removing silty water or using cleaner water in order to enhance the effectiveness of wheel washing in every portion within the Site.
- Embankment or dikes should be established at the site boundary to direct any untreated wastewater from the Site to wastewater treatment facility during rain events to perform water treatment before discharge.
- Standing or ponding water within the Site should be cleared as far as practicable.

Waste/Chemical Management

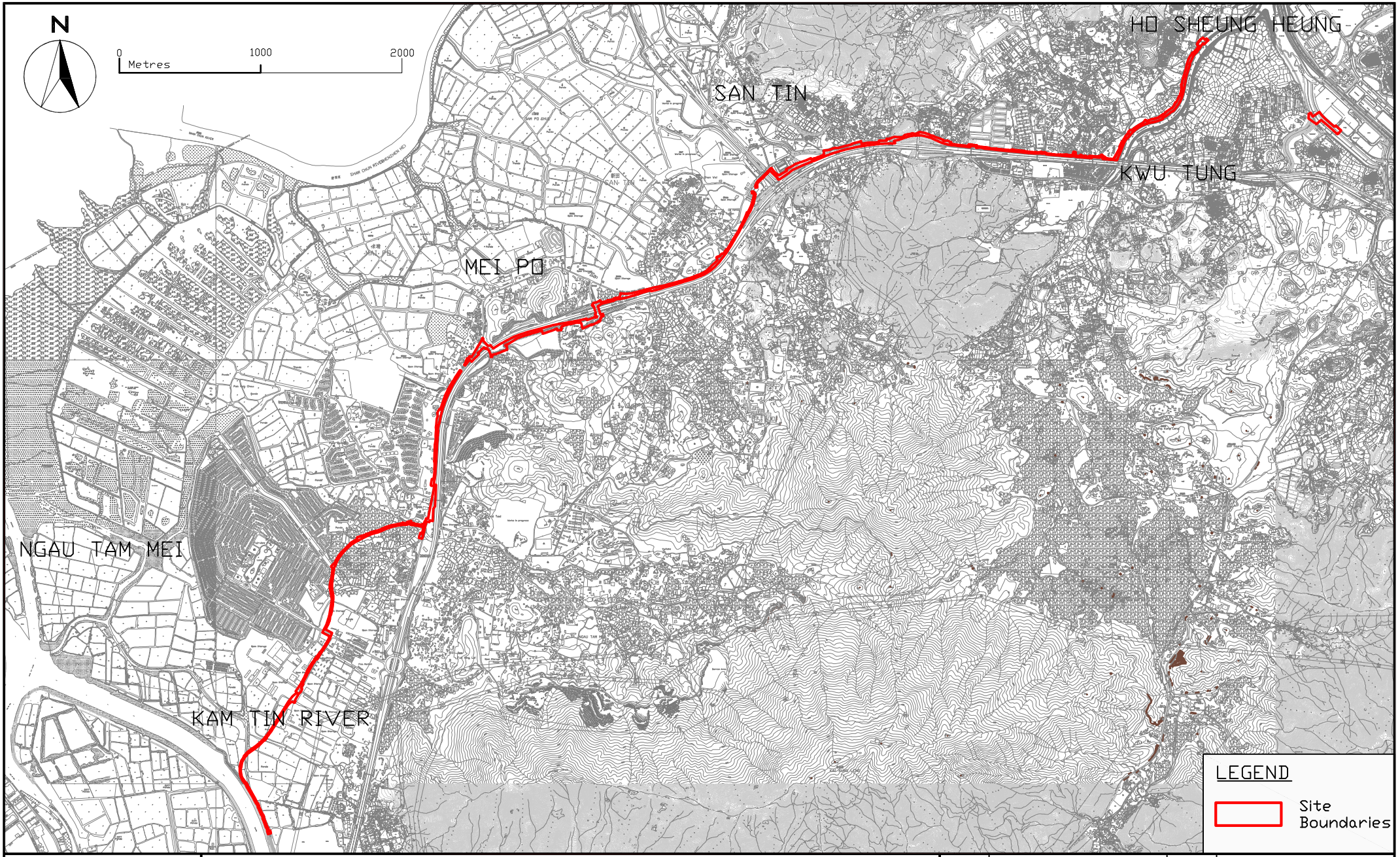
- General refuse should be removed regularly to prevent accumulation on-site. Proper enclosed bin should be provided with maintenance for collection of general refuse from workforce.
- Drip tray should be provided to oil/chemical containers and generator to avoid oil leakage. Any oil stain observed on ground should be properly removed as

chemical waste.

Landscape and Visual

- Adequate tree protection zones should be established to protect retained and existing trees. Conspicuous signs of status of trees should be clearly shown to avoid damage from PMEs or workers.

FIGURES



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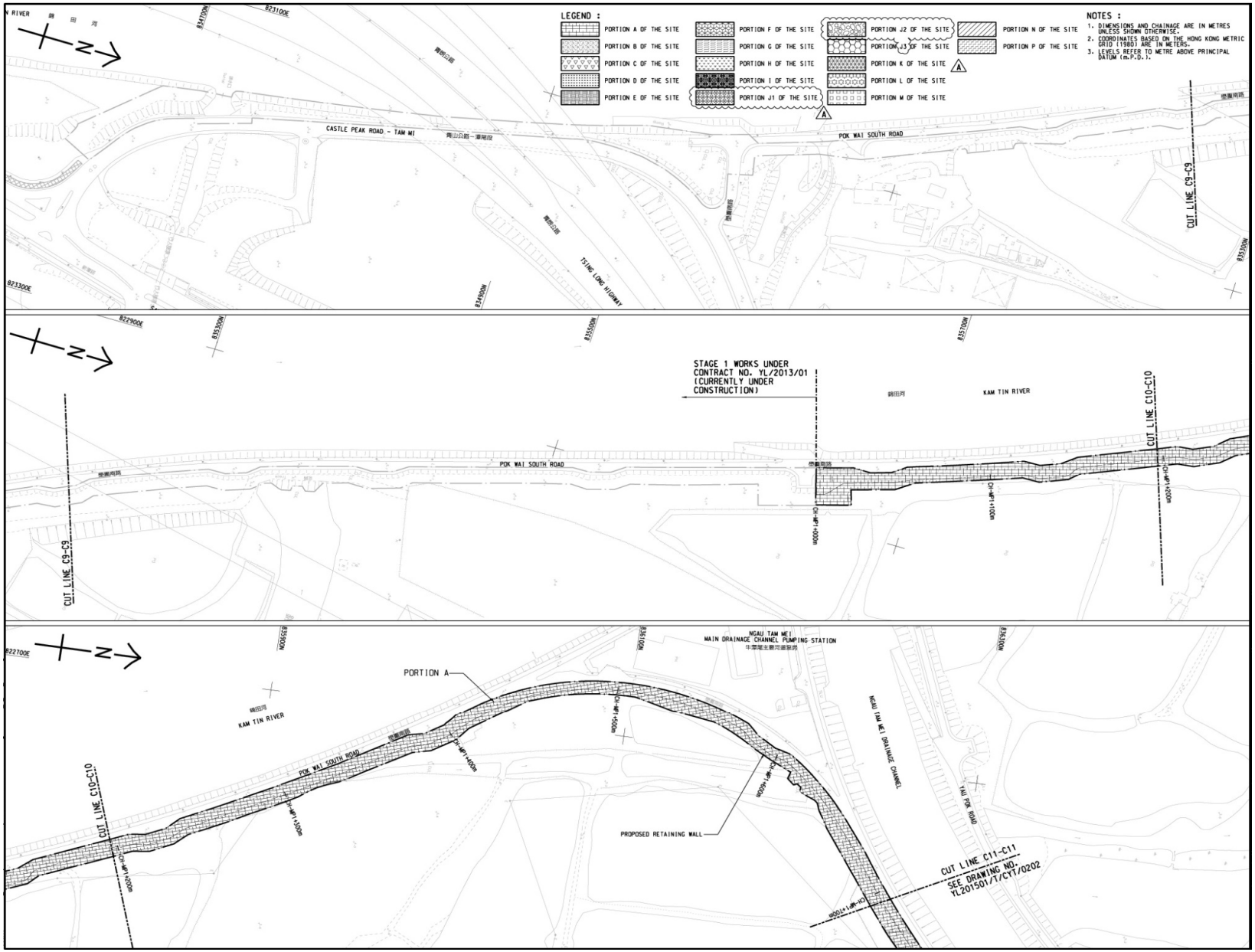
Agreement No. CE 67/2015(HY) – Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

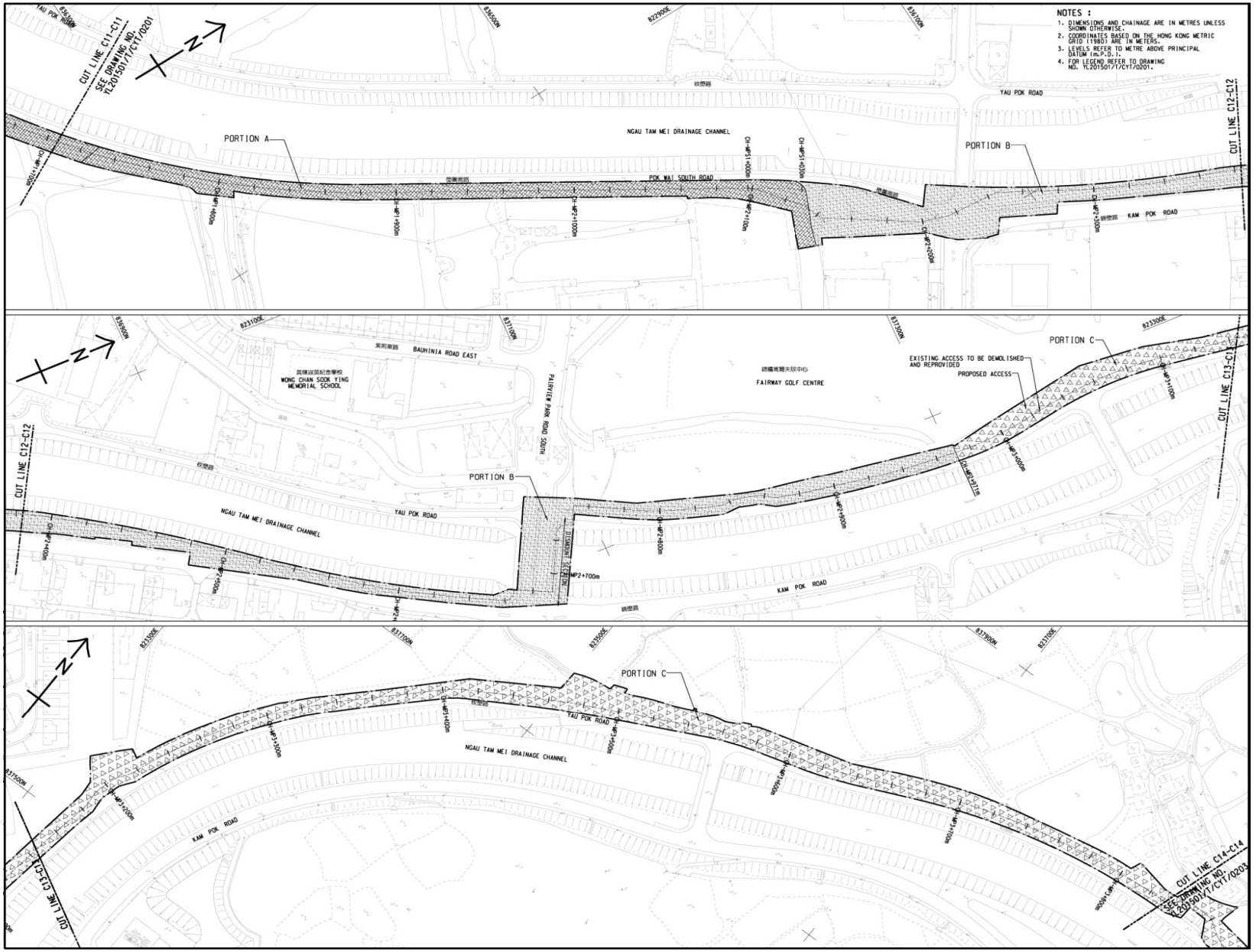
SITE LAYOUT PLAN

SCALE	A4 1:35m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	1a
		REV	–



Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1b

CINOTECH



Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1c

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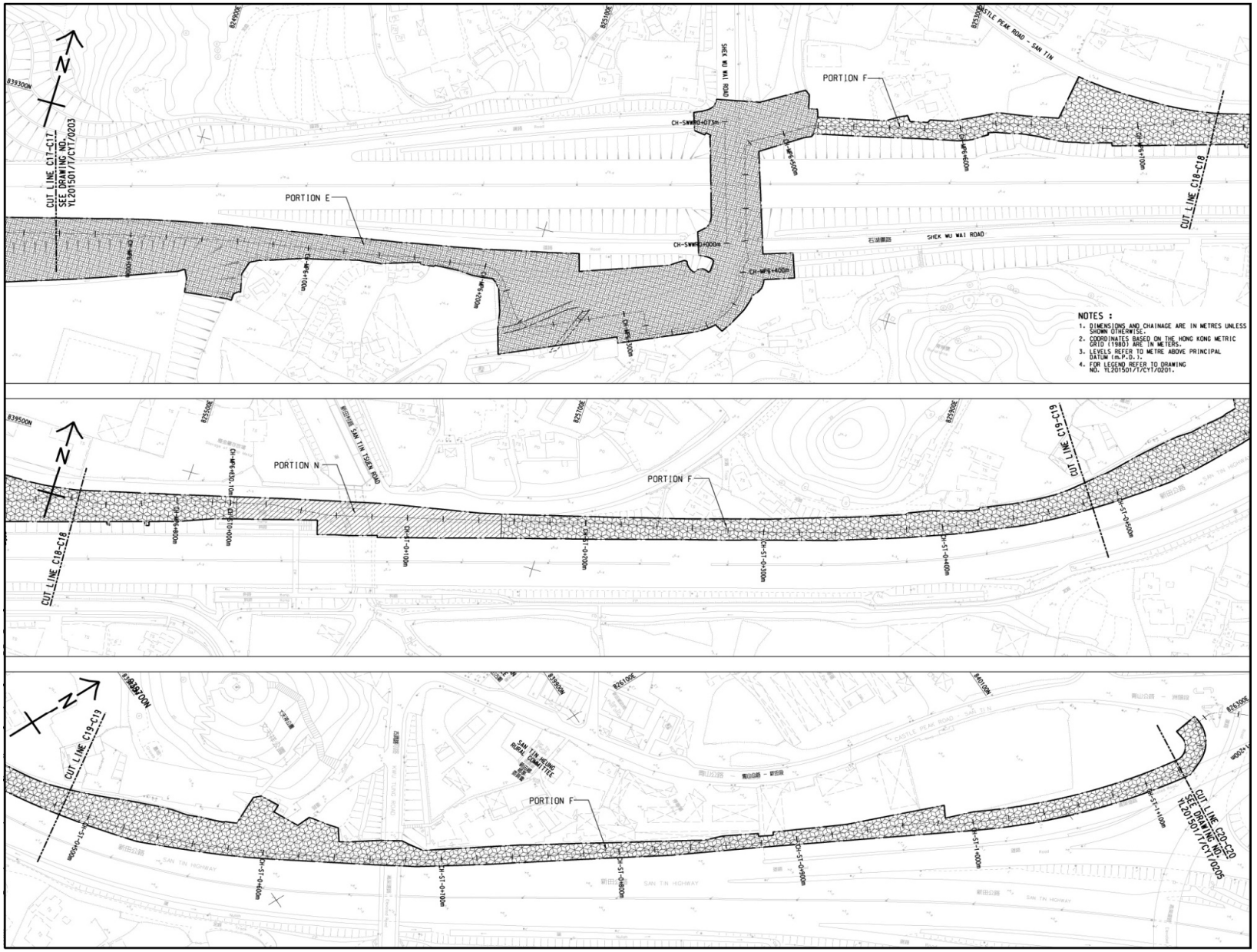
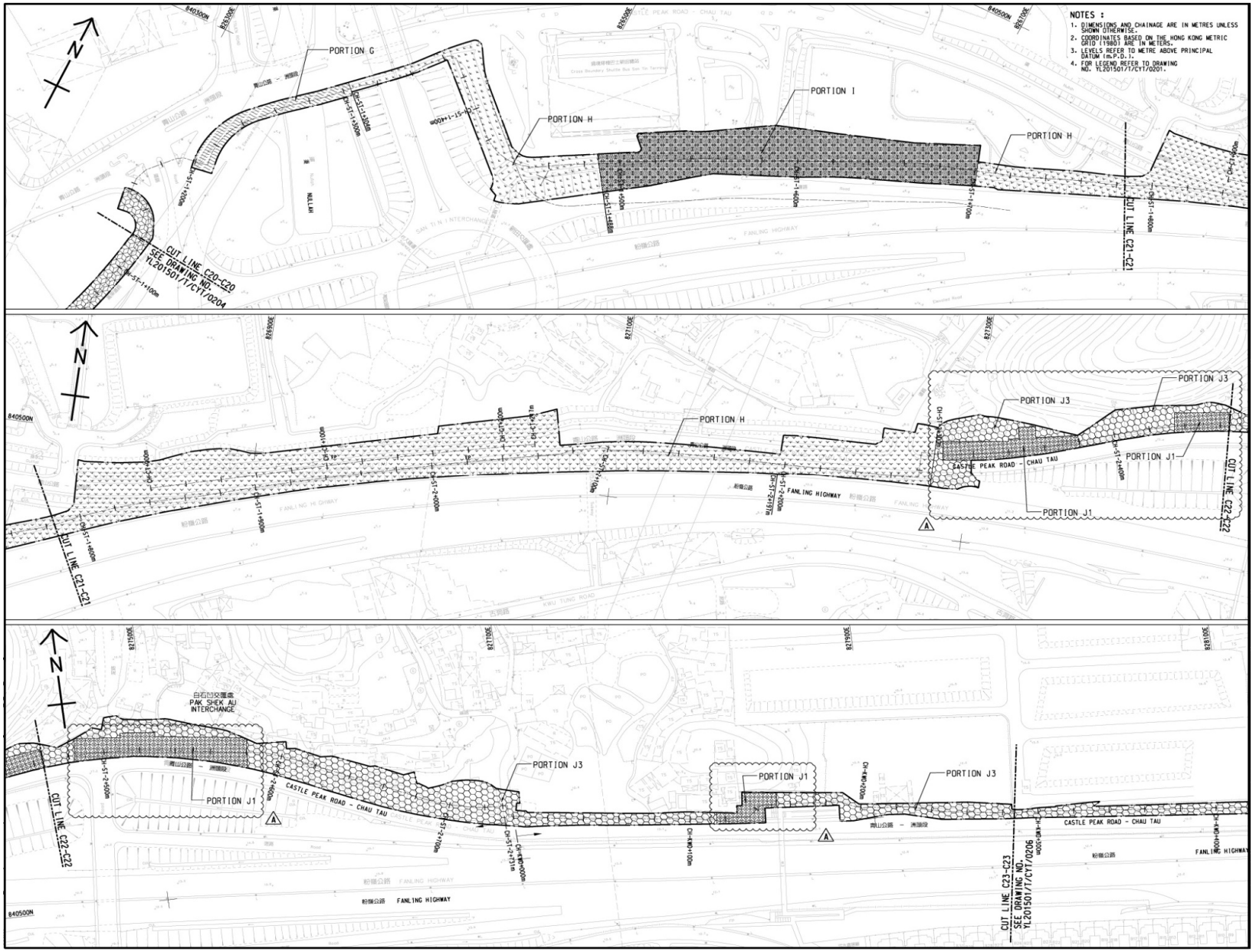
Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1d

CINOTECH

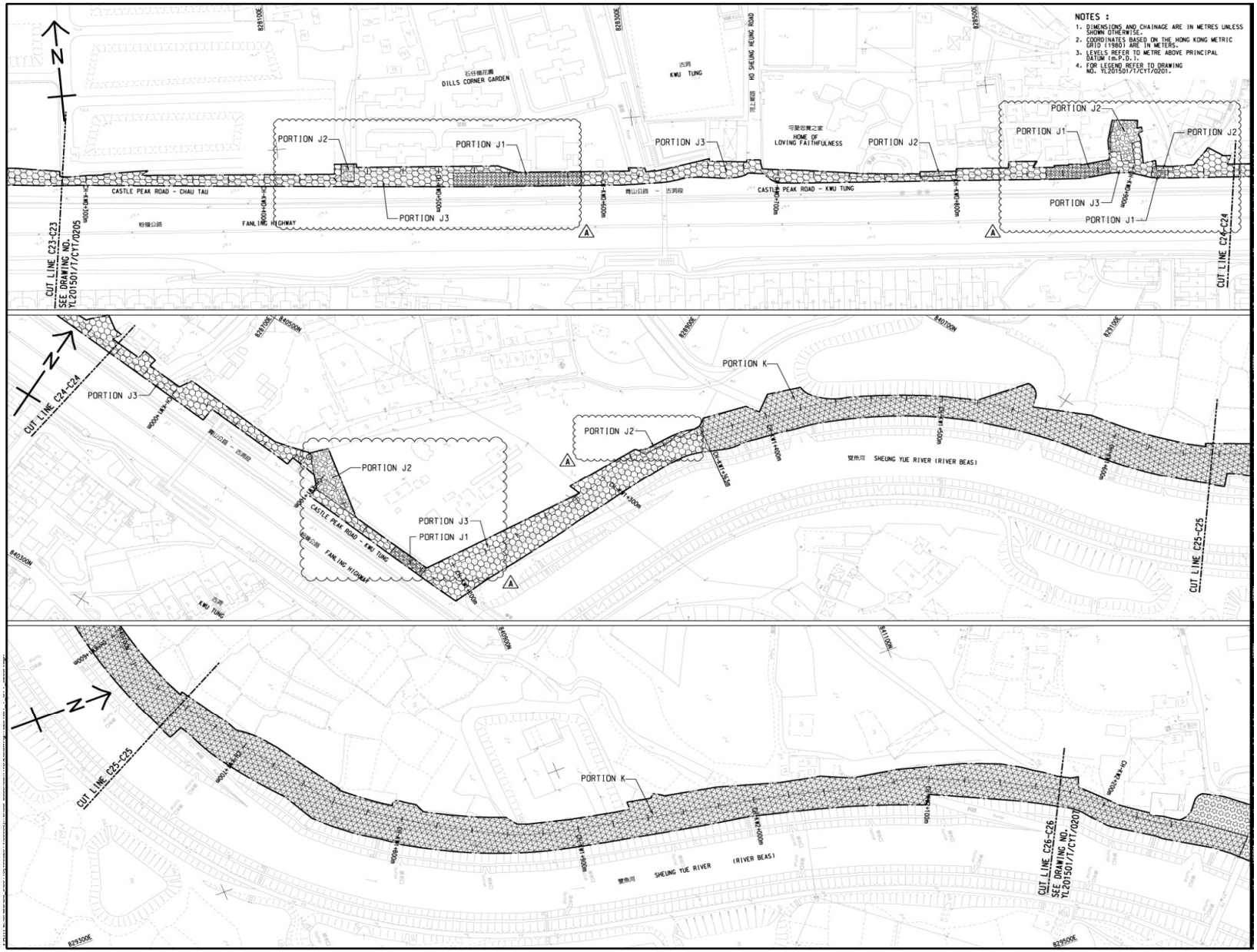


Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1e



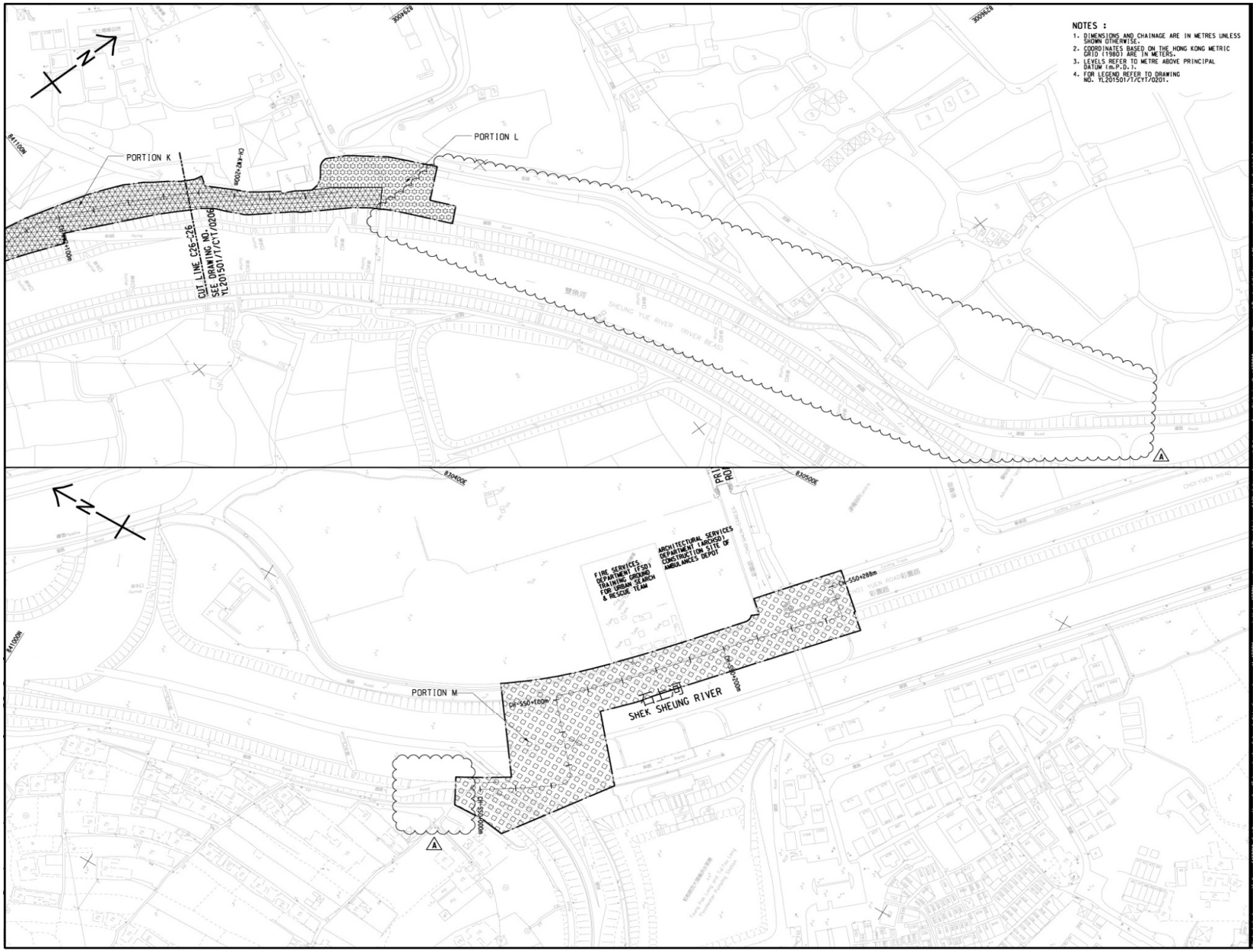
Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1f

CINOTECH

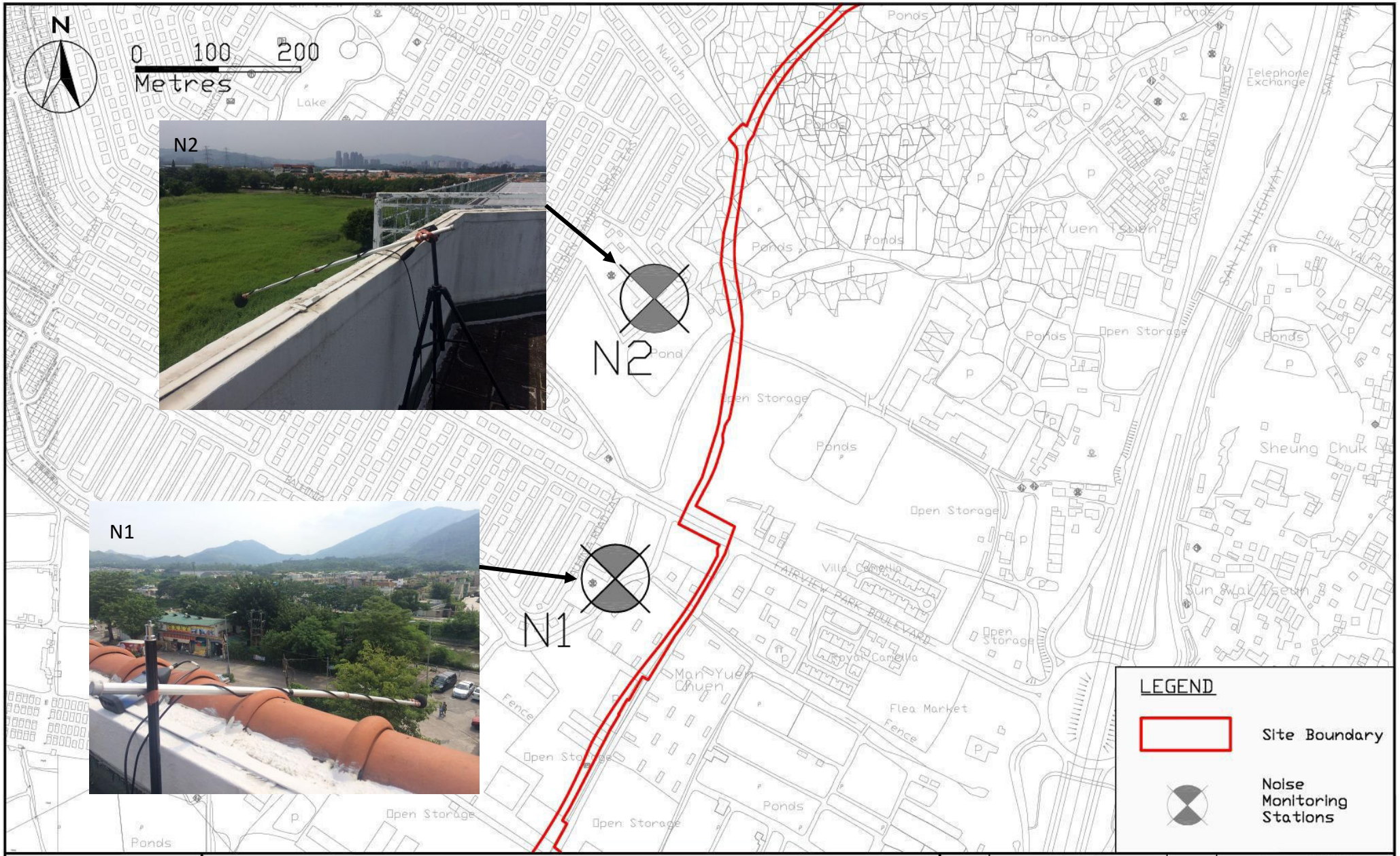


Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1g

CINOTECH



Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S	Project No. MA16036	CINOTECH
		Date Dec-16	Figure 1h	



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Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

Locations of the Noise Monitoring Stations (N1, N2)

SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2a
		REV	–

N

0 100 200

Metres

N3

N7

LEGEND

Site Boundary

Noise Monitoring Stations

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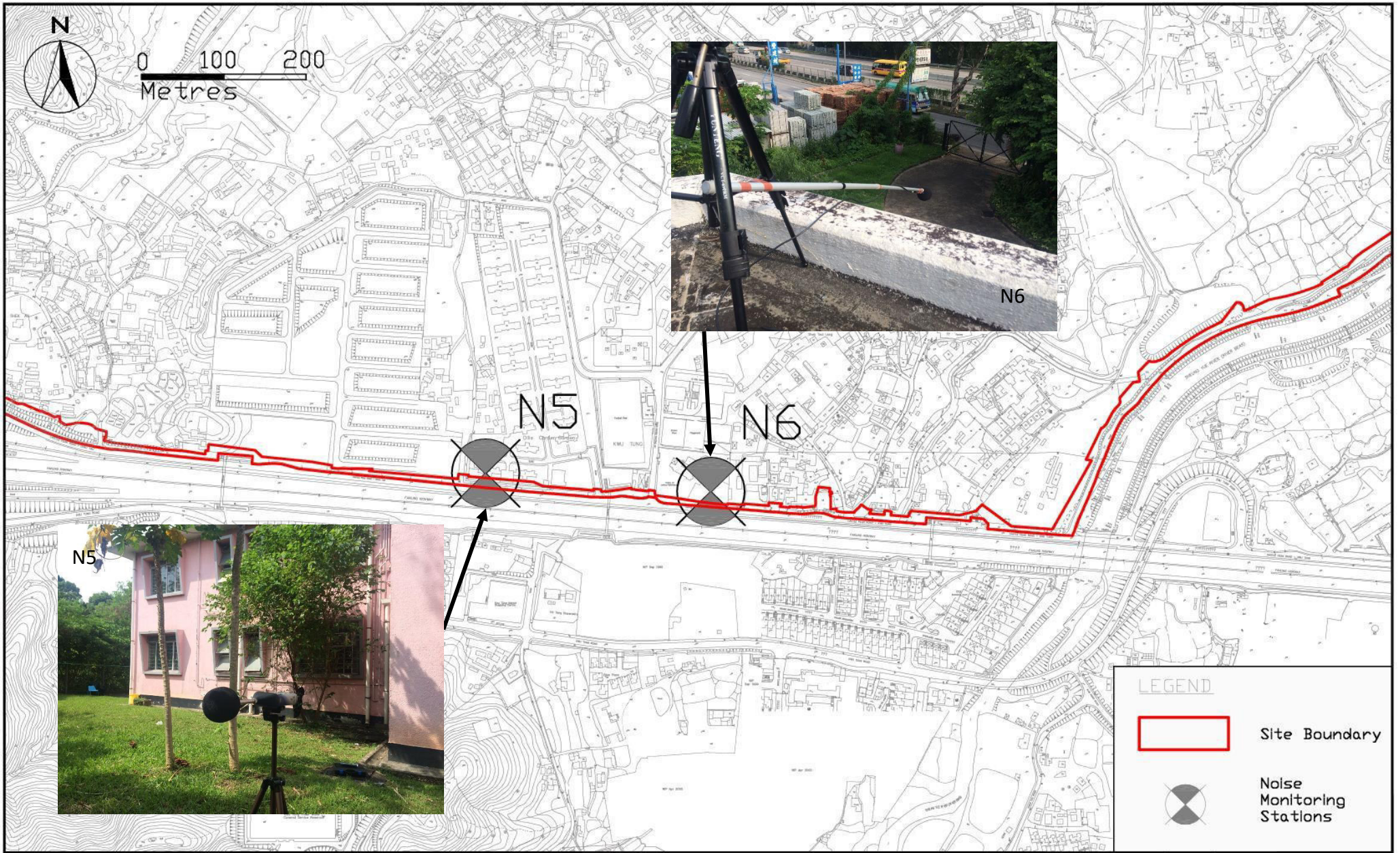
Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

Locations of the Noise Monitoring Stations (N3, N7)

SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2b
		REV	-



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Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

Locations of the Noise Monitoring Stations (N5, N6)

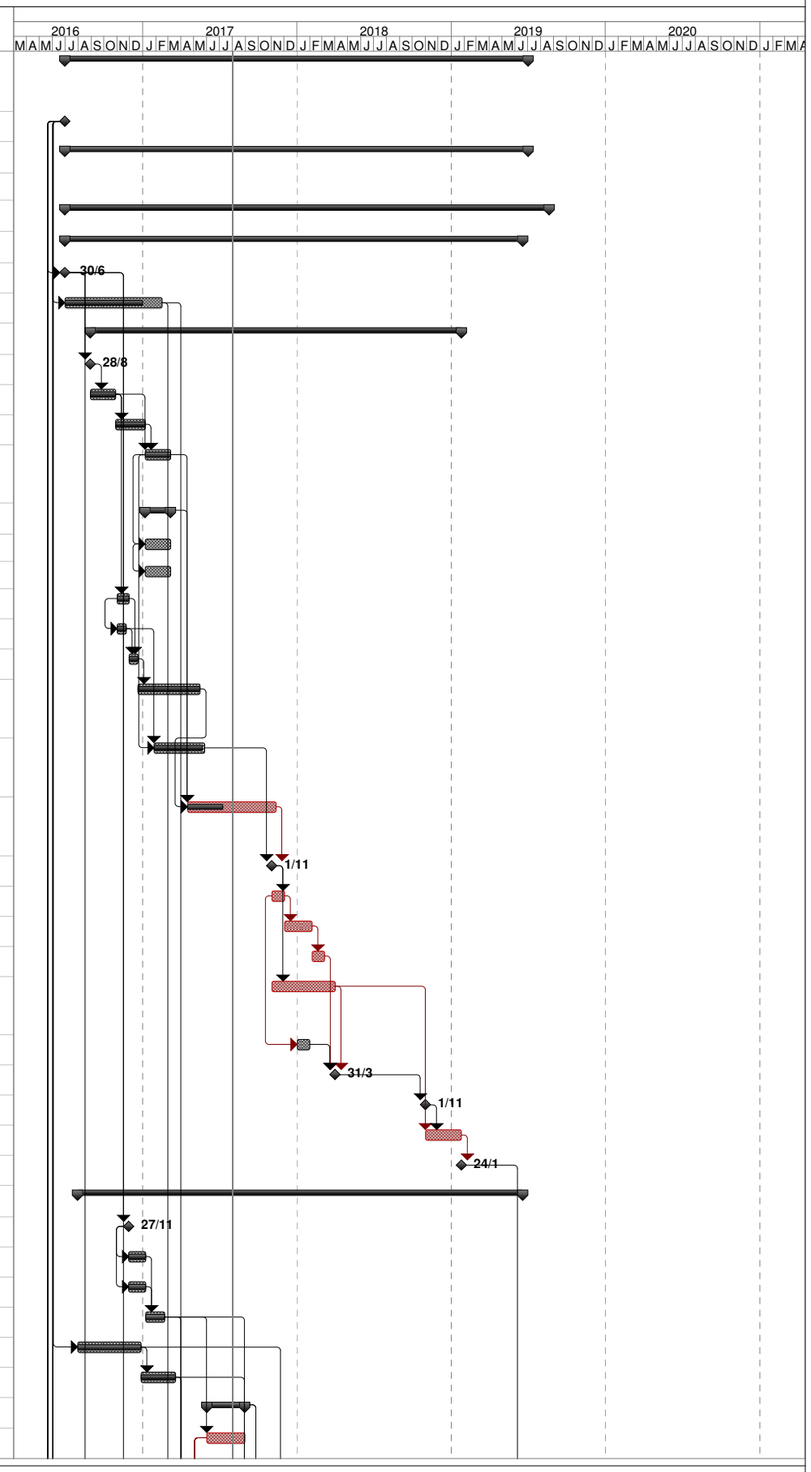
SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2c
		REV	–

APPENDIX A
WORK PROGRAMME

CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
1	**100001**	**CONTRACT DURATION (ALL WORKS EXCEPT LANDSCAPING AND ESTABLISHMENT)**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**0%**		**Thu 30/6/16**
2	100002	COMMENCEMENT OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	0%		Thu 30/6/16
3	**100003**	**ACCESS DATES AND COMPLETION DATES FOR CONTRACTS**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**0%**		**Thu 30/6/16**
42										
43	**200001**	**PLANNED WORKS PROGRAMME**	**1147 days**		**Thu 30/6/16**	**Tue 20/8/19**	**-50 days**	**29%**		**Thu 30/6/16**
44	**210001**	**SECTION W1 (PORTION A,B,C & D)**	**1084 days**		**Thu 30/6/16**	**Tue 18/6/19**	**-170 days**	**28%**		**Thu 30/6/16**
45	210002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
46	210003	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W1	230 days		Thu 30/6/16	Tue 14/2/17	60 days	80%	2SS	Thu 30/6/16
47	**210100**	**PORTION A - POK WAI ROAD SOUTH (MP 1+000 - MP 2+130)**	**879 days**		**Sun 28/8/16**	**Thu 24/1/19**	**-25 days**	**49%**		**Sun 28/8/16**
48	210101	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	45FS+60 days	Sun 28/8/16
49	210102	INITIAL SURVEY	60 days	3 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	48	Mon 29/8/16
50	210103	TREE SURVEY	70 days	3 days	Fri 28/10/16	Thu 5/1/17	0 days	100%	49	Fri 28/10/16
51	210104	TREE FELLING / TRANSPLANTING AND SITE CLEARANCE (FOR NEW DLO MEMO)	60 days	5 days	Fri 6/1/17	Mon 6/3/17	0 days	100%	50,49	Fri 6/1/17
52	**210105**	**UTILITIES DIVERSION WORKS**	**60 days**	**0 day**	**Fri 6/1/17**	**Mon 6/3/17**	**169 days**	**0%**		**Fri 6/1/17**
53	210106	CLP	60 days	5 days	Fri 6/1/17	Mon 6/3/17	169 days	0%	51SS	Fri 6/1/17
54	210107	PCCW	60 days	5 days	Fri 6/1/17	Mon 6/3/17	169 days	0%	53SS	Fri 6/1/17
55	210108	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	28 days	2 days	Tue 1/11/16	Mon 28/11/16	0 days	100%	49	Tue 1/11/16
56	210109	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 1/11/16	Mon 21/11/16	0 days	100%	55SS	Tue 1/11/16
57	210110	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 29/11/16	Mon 19/12/16	0 days	100%	55,56	Tue 29/11/16
58	*210111*	*RETAINING WALL - RW 8A (60M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT*	*147 days*	*5 days*	*Tue 20/12/16*	*Mon 15/5/17*	*0 days*	*100%*	*57*	*Tue 20/12/16*
59	*210112*	*RETAINING WALL - RW 8B (40M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT*	*120 days*	*5 days*	*Fri 27/1/17*	*Fri 26/5/17*	*159 days*	*95%*	*56,51SS+21 days*	*Fri 27/1/17*
60	*210113*	*EARTHWORKS AND DRAINAGE WORKS, UTILITIES LAYING BETWEEN MP1+000 TO MP 1+600 (EXCLUDING RETAINING WALL RW7, 7A & 7B)*	*210 days*	*10 days*	*Sun 16/4/17*	*Sat 11/11/17*	*-10 days*	*40%*	*58FS-25 days,51,52FS-45 days*	*Sun 16/4/17*
61	210114	START DATE OF DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	60,59	Wed 1/11/17
62	210115	RETAINING WALL - RW7 (20M)	30 days	4 days	Thu 2/11/17	Fri 1/12/17	0 days	0%	61	Thu 2/11/17
63	210116	RETAINING WALL - RW 7A (67M)	65 days	7 days	Sat 2/12/17	Sun 4/2/18	0 days	0%	62	Sat 2/12/17
64	210117	RETAINING WALL - RW 7B (20M)	30 days	3 days	Mon 5/2/18	Tue 6/3/18	0 days	0%	63	Mon 5/2/18
65	210118	EARTHWORKS AND DRAINAGE WORKS BETWEEN MP1+600 TO MP 2+100	150 days	10 days	Thu 2/11/17	Sat 31/3/18	0 days	0%	61	Thu 2/11/17
66	210119	STAIRCASE	30 days	3 days	Mon 1/1/18	Tue 30/1/18	60 days	0%	62SS+60 days	Mon 1/1/18
67	210120	END OF DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	66,65,64FS+25 days	Sat 31/3/18
68	210121	START DATE OF DRY SEASON	0 days		Thu 1/11/18	Thu 1/11/18	0 days	0%	67	Thu 1/11/18
69	210122	ROAD WORKS	85 days	7 days	Thu 1/11/18	Thu 24/1/19	-25 days	0%	65,68	Thu 1/11/18
70	210123	COMPLETION OF PORTION A	0 days		Thu 24/1/19	Thu 24/1/19	-25 days	0%	69	Thu 24/1/19
71	**210200**	**PORTION B (MP 2+130 - MP 2+950)**	**1054 days**		**Sat 30/7/16**	**Tue 18/6/19**	**-170 days**	**16%**		**Sat 30/7/16**
72	210201	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days	Sun 27/11/16
73	210202	INITIAL SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	72SS	Mon 28/11/16
74	210203	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	72SS	Mon 28/11/16
75	210204	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	45 days	4 days	Sat 7/1/17	Mon 20/2/17	0 days	100%	74,73	Sat 7/1/17
76	210205	TTM PREPARATION	150 days	days	Sat 30/7/16	Mon 26/12/16	0 days	100%	2SS+30 days	Sat 30/7/16
77	210206	TTM APPROVAL BY SUPERVISOR/PM/TMLG	82 days	2 days	Tue 27/12/16	Sat 18/3/17	0 days	100%	76	Tue 27/12/16
78	*210207*	*UTILITIES DIVERSION WORKS*	*90 days*	*0 day*	*Thu 1/6/17*	*Tue 29/8/17*	*-170 days*	*0%*		*Thu 1/6/17*
79	*210208*	*CLP*	*90 days*	*5 days*	*Thu 1/6/17*	*Tue 29/8/17*	*-170 days*	*0%*	*75FS+100 days*	*Thu 1/6/17*



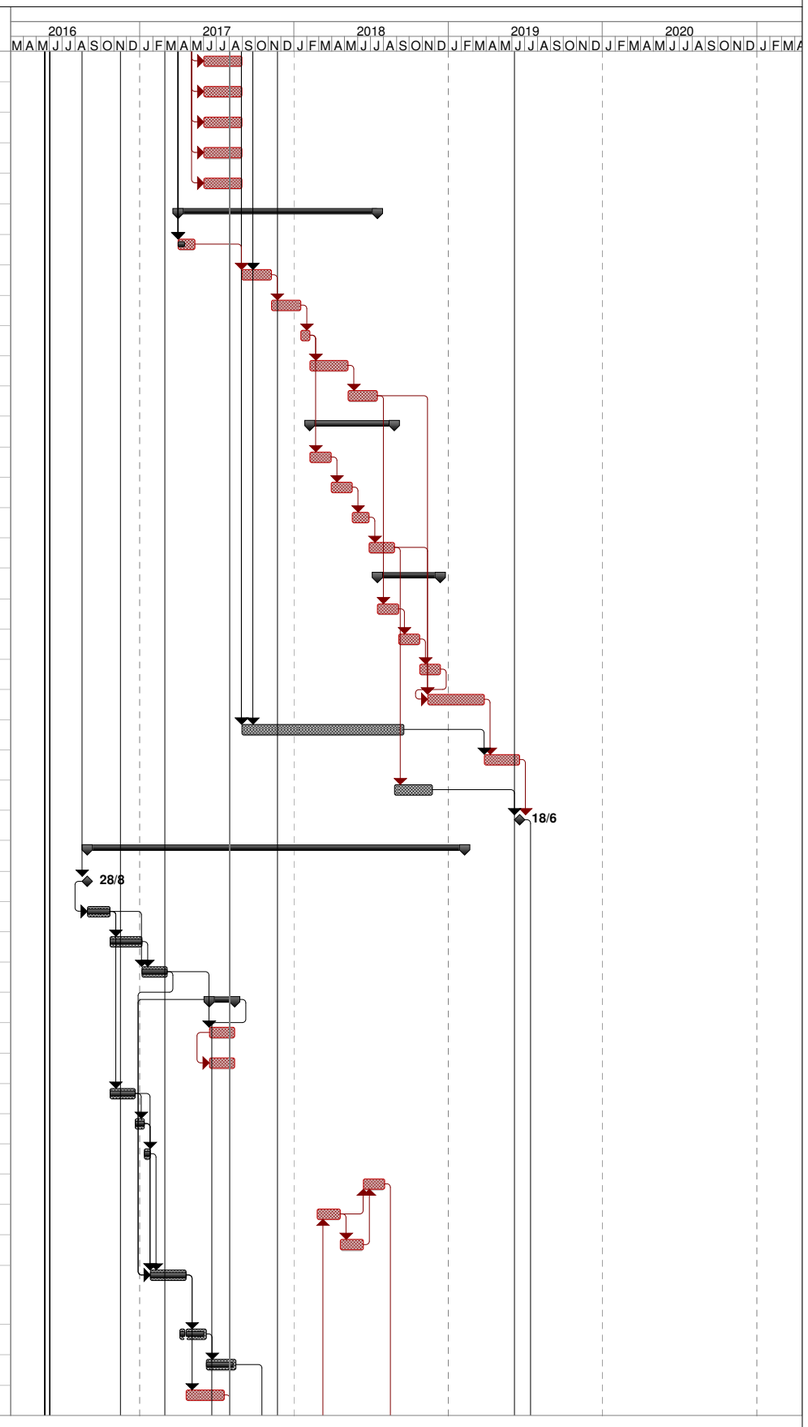
Task | Summary | External Milestone | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
Split | Project Summary | Inactive Task | Manual Task | Manual Summary | Critical | Deadline
Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | Critical Split

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
80	*210209*	*PCCW*	*90 days*	*5 days*	*Thu 1/6/17*	*Tue 29/8/17*	*-170 days*	*0%*	*79SS*	*Thu 1/6/17*
81	*210210*	*HCL*	*90 days*	*5 days*	*Thu 1/6/17*	*Tue 29/8/17*	*-170 days*	*0%*	*79SS*	*Thu 1/6/17*
82	*210211*	*HGC*	*90 days*	*5 days*	*Thu 1/6/17*	*Tue 29/8/17*	*-170 days*	*0%*	*79SS*	*Thu 1/6/17*
83	*210212*	*PUBLIC LIGHTING*	*90 days*	*5 days*	*Thu 1/6/17*	*Tue 29/8/17*	*-170 days*	*0%*	*79SS*	*Thu 1/6/17*
84	*210213*	*WATER MAINS*	*90 days*	*5 days*	*Thu 1/6/17*	*Tue 29/8/17*	*-170 days*	*0%*	*79SS*	*Thu 1/6/17*
85	***210214***	***SUBWAY A WITH PUMP ROOM (4 BAYS) CONSTRUCTION***	***472 days***		***Sat 1/4/17***	***Mon 16/7/18***	***-170 days***	***4%***		***Sat 1/4/17***
86	*210215*	*TTA ENABLING WORKS (STAGE 1)*	*40 days*	*2 days*	*Sat 1/4/17*	*Wed 10/5/17*	*-59 days*	*38%*	*46,77FS+13 days,75*	*Sat 1/4/17*
87	*210216*	*BAY PW8*	*70 days*	*7 days*	*Wed 30/8/17*	*Tue 7/11/17*	*-170 days*	*0%*	*86,78*	*Wed 30/8/17*
88	210217	BAY PW9	70 days	7 days	Wed 8/11/17	Tue 16/1/18	-170 days	0%	87	Wed 8/11/17
89	210218	TTA ENABLING WORKS (STAGE 2)	21 days	3 days	Wed 17/1/18	Tue 6/2/18	-170 days	0%	88	Wed 17/1/18
90	210219	BAY PW10 WITH PUMP HOUSE	90 days	7 days	Wed 7/2/18	Mon 7/5/18	-170 days	0%	89	Wed 7/2/18
91	**210220**	BAY PW11	70 days	7 days	Tue 8/5/18	Mon 16/7/18	-170 days	0%	90	Tue 8/5/18
92	210221	**SOUTHERN RAMP (7 BAYS) CONSTRUCTION**	**200 days**		**Wed 7/2/18**	**Sat 25/8/18**	**-91 days**	**0%**		**Wed 7/2/18**
93	210222	BAY PW6&7	50 days	5 days	Wed 7/2/18	Wed 28/3/18	-91 days	0%	89	Wed 7/2/18
94	210223	BAY PW4&5	50 days	5 days	Thu 29/3/18	Thu 17/5/18	-91 days	0%	93	Thu 29/3/18
95	210224	BAY PW2&3	40 days	4 days	Fri 18/5/18	Tue 26/6/18	-91 days	0%	94	Fri 18/5/18
96	210225	BAY PW1 AND ASSOCIATED WORKS	60 days	6 days	Wed 27/6/18	Sat 25/8/18	-91 days	0%	95	Wed 27/6/18
97	210226	**NORTHERN RAMP (5 BAYS) CONSTRUCTION**	**149 days**		**Tue 17/7/18**	**Wed 12/12/18**	**-170 days**	**0%**		**Tue 17/7/18**
98	210227	BAY PW12 & 13	50 days	5 days	Tue 17/7/18	Tue 4/9/18	-170 days	0%	91	Tue 17/7/18
99	210228	BAY PW14 & 15	50 days	5 days	Wed 5/9/18	Wed 24/10/18	-170 days	0%	98	Wed 5/9/18
100	210229	BAY PW16 AND ASSOCIATED WORKS	49 days	5 days	Thu 25/10/18	Wed 12/12/18	-170 days	0%	99	Thu 25/10/18
101	210230	FNISHING WORKS AND E&M WORKS	134 days	10 days	Tue 13/11/18	Tue 26/3/19	-170 days	0%	96,91,100FS-30 days	Tue 13/11/18
102	210231	EARTHWORKS AND DRAINAGE WORKS	384 days	30 days	Wed 30/8/17	Mon 17/9/18	20 days	0%	75,77,78	Wed 30/8/17
103	210232	ROAD WORKS	84 days	7 days	Wed 27/3/19	Tue 18/6/19	-170 days	0%	101,102	Wed 27/3/19
104	210233	RESTING STATION R6	90 days	7 days	Sun 26/8/18	Fri 23/11/18	37 days	0%	96	Sun 26/8/18
105	210234	COMPLETION OF PORTION B	0 days		Tue 18/6/19	Tue 18/6/19	-170 days	0%	103,104	Tue 18/6/19
106	**210300**	**PORTION C (MP 2+950 - MP 4+010)**	**894 days**		**Sun 28/8/16**	**Fri 8/2/19**	**-40 days**	**33%**		**Sun 28/8/16**
107	210301	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	45FS+60 days	Sun 28/8/16
108	210302	INITIAL SURVEY	54 days	4 days	Mon 29/8/16	Fri 21/10/16	0 days	100%	107SS	Mon 29/8/16
109	210303	TREE SURVEY	75 days	7 days	Sat 22/10/16	Wed 4/1/17	0 days	100%	108	Sat 22/10/16
110	210304	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 5/1/17	Sun 5/3/17	0 days	100%	109,108	Thu 5/1/17
111	*210305*	*UTILITIES DIVERSION WORKS*	*60 days*	*0 day*	*Wed 14/6/17*	*Sat 12/8/17*	*-40 days*	*0%*		*Wed 14/6/17*
112	*210306*	*CLP*	*60 days*	*5 days*	*Wed 14/6/17*	*Sat 12/8/17*	*-40 days*	*0%*	*110FS+100 days*	*Wed 14/6/17*
113	*210307*	*PCCW*	*60 days*	*5 days*	*Wed 14/6/17*	*Sat 12/8/17*	*-40 days*	*0%*	*112SS*	*Wed 14/6/17*
114	210308	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS)	60 days	5 days	Sat 22/10/16	Tue 20/12/16	0 days	100%	108	Sat 22/10/16
115	210309	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	3 days	Wed 21/12/16	Tue 10/1/17	0 days	100%	114	Wed 21/12/16
116	210310	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Wed 11/1/17	Tue 24/1/17	0 days	100%	115	Wed 11/1/17
117	210311	RETAINING WALL - RW 11A (50M)	50 days	5 days	Thu 14/6/18	Thu 2/8/18	-40 days	0%	119,118	Thu 14/6/18
118	*210312*	*RETAINING WALL - RW 11B : BAY1 - BAY 6 (60M)*	*55 days*	*5 days*	*Sat 24/2/18*	*Thu 19/4/18*	*-40 days*	*0%*	*126*	*Sat 24/2/18*
119	*210313*	*RETAINING WALL - RW 11B : BAY 7 - BAY 12 (60M)*	*55 days*	*5 days*	*Fri 20/4/18*	*Wed 13/6/18*	*-40 days*	*0%*	*118*	*Fri 20/4/18*
120	*210314*	*RETAINING WALL - RW 11C : BAY 8 - BAY 14 (70M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT*	*85 days*	*7 days*	*Wed 25/1/17*	*Wed 19/4/17*	*0 days*	*100%*	*111SS+7 days,110FS-40 days,114,116,115*	*Wed 25/1/17*
121	*210315*	*RETAINING WALL - RW 11C : BAY 1 - BAY 7, STAIRCASE S1 (70M)*	*60 days*	*5 days*	*Wed 5/4/17*	*Tue 6/6/17*	*85 days*	*90%*	*120*	*Wed 5/4/17*
122	*210316*	*RETAINING WALL - RW 11C : BAY 15 - BAY 21, STAIRCASE S2 (70M)*	*70 days*	*7 days*	*Wed 7/6/17*	*Tue 15/8/17*	*22 days*	*90%*	*121*	*Wed 7/6/17*
123	210317	RETAINING WALL - RW 12 : BAY 1 - BAY 8, STAIRCASE S3 (80M)	90 days	7 days	Thu 20/4/17	Tue 18/7/17	-40 days	0%	120	Thu 20/4/17



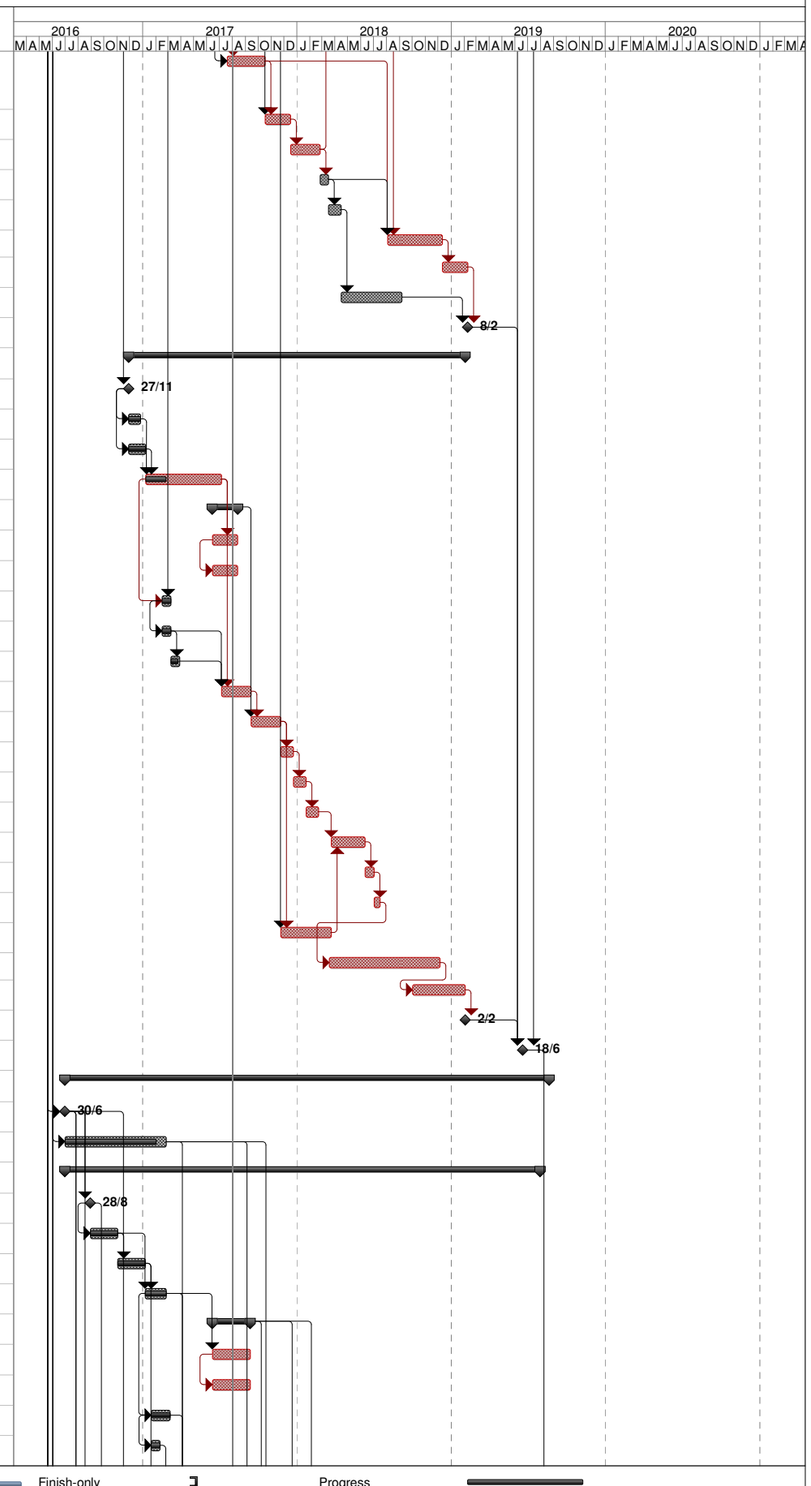
Task — Summary — External Milestone — Inactive Summary — Manual Summary Rollup — Finish-only — Progress
Split — Project Summary — Inactive Task — Manual Task — Manual Summary — Critical — Deadline
Milestone — External Tasks — Inactive Milestone — Duration-only — Start-only — Critical Split

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
124	210318	RETAINING WALL - RW 12 : BAY 9 - BAY 16, RAMP AND STAIR - CSR1 (80M)	90 days	7 days	Wed 19/7/17	Mon 16/10/17	-40 days	0%	123,111FS-25 days	Wed 19/7/17
125	210319	RETAINING WALL - RW 13 (40M)	60 days	5 days	Tue 17/10/17	Fri 15/12/17	-40 days	0%	124,122	Tue 17/10/17
126	210320	RETAINING WALL - RW 14, STAIRCASE S4 (55M)	70 days	7 days	Sat 16/12/17	Fri 23/2/18	-40 days	0%	125	Sat 16/12/17
127	210321	RETAINING WALL - RW 15A (7.5M)	20 days	2 days	Sat 24/2/18	Thu 15/3/18	100 days	0%	126	Sat 24/2/18
128	210322	RAMP NEAR YAU POK ROAD	30 days	2 days	Fri 16/3/18	Sat 14/4/18	116 days	0%	127	Fri 16/3/18
129	210323	EARTHWORKS AND DRAINAGE WORKS	130 days	10 days	Fri 3/8/18	Mon 10/12/18	-40 days	0%	124,127,117	Fri 3/8/18
130	210324	ROAD WORKS	60 days	5 days	Tue 11/12/18	Fri 8/2/19	-40 days	0%	129	Tue 11/12/18
131	210325	RESTING STATION R7	144 days	10 days	Sun 15/4/18	Wed 5/9/18	116 days	0%	128	Sun 15/4/18
132	210326	COMPLETION OF PORTION C	0 days		Fri 8/2/19	Fri 8/2/19	-40 days	0%	130,131	Fri 8/2/19
133	**210401**	**PORTION D (MP 4+010 - MP 5+280)**	**797 days**		**Sun 27/11/16**	**Sat 2/2/19**	**-34 days**	**14%**		**Sun 27/11/16**
134	210402	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days	Sun 27/11/16
135	210403	INITIAL SURVEY	28 days	3 days	Mon 28/11/16	Sun 25/12/16	0 days	100%	134SS	Mon 28/11/16
136	210404	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	134SS	Mon 28/11/16
137	210405	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	180 days	5 days	Sat 7/1/17	Wed 5/7/17	-34 days	27%	136,135	Sat 7/1/17
138	*210406*	*UTILITIES DIVERSION WORKS*	*60 days*	*0 day*	*Wed 14/6/17*	*Sat 12/8/17*	*-12 days*	*0%*		*Wed 14/6/17*
139	*210407*	*CLP*	*60 days*	*5 days*	*Wed 14/6/17*	*Sat 12/8/17*	*-12 days*	*0%*	*137FS-22 days*	*Wed 14/6/17*
140	*210408*	*HCL*	*60 days*	*5 days*	*Wed 14/6/17*	*Sat 12/8/17*	*-12 days*	*0%*	*139SS*	*Wed 14/6/17*
141	210409	GROUND INVESTIGATION WORKS (3 NOS. BOREHOLE & TRIAL PITS)	21 days	2 days	Wed 15/2/17	Tue 7/3/17	0 days	100%	137SS+14 days,46	Wed 15/2/17
142	210410	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Wed 15/2/17	Tue 7/3/17	0 days	100%	141SS	Wed 15/2/17
143	210411	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Wed 8/3/17	Tue 28/3/17	65 days	80%	142	Wed 8/3/17
144	210412	RETAINING WALL - RW 15B (40M)	70 days	7 days	Thu 6/7/17	Wed 13/9/17	-34 days	0%	143,142,137	Thu 6/7/17
145	210413	RETAINING WALL - RW 15C (45M) & STAIRCASE S6	70 days	7 days	Thu 14/9/17	Wed 22/11/17	-34 days	0%	144,138FS+10 days	Thu 14/9/17
146	210414	STREAM DECKING D1	30 days	3 days	Thu 23/11/17	Fri 22/12/17	-4 days	0%	145	Thu 23/11/17
147	210415	STREAM DECKING D2	30 days	3 days	Sat 23/12/17	Sun 21/1/18	-4 days	0%	146	Sat 23/12/17
148	210416	STREAM DECKING D3	30 days	3 days	Mon 22/1/18	Tue 20/2/18	-4 days	0%	147	Mon 22/1/18
149	210417	RAMP PR1 CONSTRUCTION	80 days	7 days	Fri 23/3/18	Sun 10/6/18	-34 days	0%	148,152	Fri 23/3/18
150	210418	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Mon 11/6/18	Sun 1/7/18	-34 days	0%	149	Mon 11/6/18
151	210419	DEMOLITION OF EXISTING STRUCTURE	14 days	2 days	Mon 2/7/18	Sun 15/7/18	-34 days	0%	150	Mon 2/7/18
152	210420	RW16A (80M)	120 days	10 days	Thu 23/11/17	Thu 22/3/18	-34 days	0%	76,145	Thu 23/11/17
153	210424	EARTHWORKS AND DRAINAGE WORKS	262 days	30 days	Sun 18/3/18	Tue 4/12/18	-34 days	0%	151FS-120 days	Sun 18/3/18
154	210425	ROAD WORKS	125 days	14 days	Mon 1/10/18	Sat 2/2/19	-34 days	0%	153FS-65 days	Mon 1/10/18
155	210426	COMPLETION OF PORTION D	0 days		Sat 2/2/19	Sat 2/2/19	-34 days	0%	154	Sat 2/2/19
156	210427	COMPLETION OF SECTION W1	0 days		Tue 18/6/19	Tue 18/6/19	-170 days	0%	132,155,70,105	Tue 18/6/19
157	**220001**	**SECTION W2 (PORTION E, F, G, H, I & N)**	**1147 days**	**days**	**Thu 30/6/16**	**Tue 20/8/19**	**-50 days**	**27%**		**Thu 30/6/16**
158	220002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
159	220003	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W2	240 days	14 days	Thu 30/6/16	Fri 24/2/17	47 days	90%	158SS	Thu 30/6/16
160	**220101**	**PORTION E (MP 5+280 - MP 6+530)**	**1125 days**	**days**	**Thu 30/6/16**	**Mon 29/7/19**	**-28 days**	**26%**		**Thu 30/6/16**
161	220102	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	158FS+60 days	Sun 28/8/16
162	220103	INITIAL SURVEY	65 days	5 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	161SS	Mon 29/8/16
163	220104	TREE SURVEY	65 days	5 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	162	Wed 2/11/16
164	220105	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	50 days	5 days	Fri 6/1/17	Fri 24/2/17	0 days	100%	163,162	Fri 6/1/17
165	*220106*	*UTILITIES DIVERSION WORKS (GAS MAIN, CLP)*	*90 days*	*0 day*	*Wed 14/6/17*	*Mon 11/9/17*	*-27 days*	*0%*		*Wed 14/6/17*
166	*220107*	*GAS MAIN*	*90 days*	*14 days*	*Wed 14/6/17*	*Mon 11/9/17*	*-27 days*	*0%*	*164FS+109 days*	*Wed 14/6/17*
167	*220108*	*CLP*	*90 days*	*14 days*	*Wed 14/6/17*	*Mon 11/9/17*	*-27 days*	*0%*	*166SS*	*Wed 14/6/17*
168	220109	GROUND INVESTIGATION WORKS (9 NOS. BOREHOLE & TRIAL PITS)	45 days	4 days	Fri 20/1/17	Sun 5/3/17	0 days	100%	164SS+14 days	Fri 20/1/17
169	220110	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Fri 20/1/17	Thu 9/2/17	0 days	100%	168SS	Fri 20/1/17



Task | Summary | External Milestone | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
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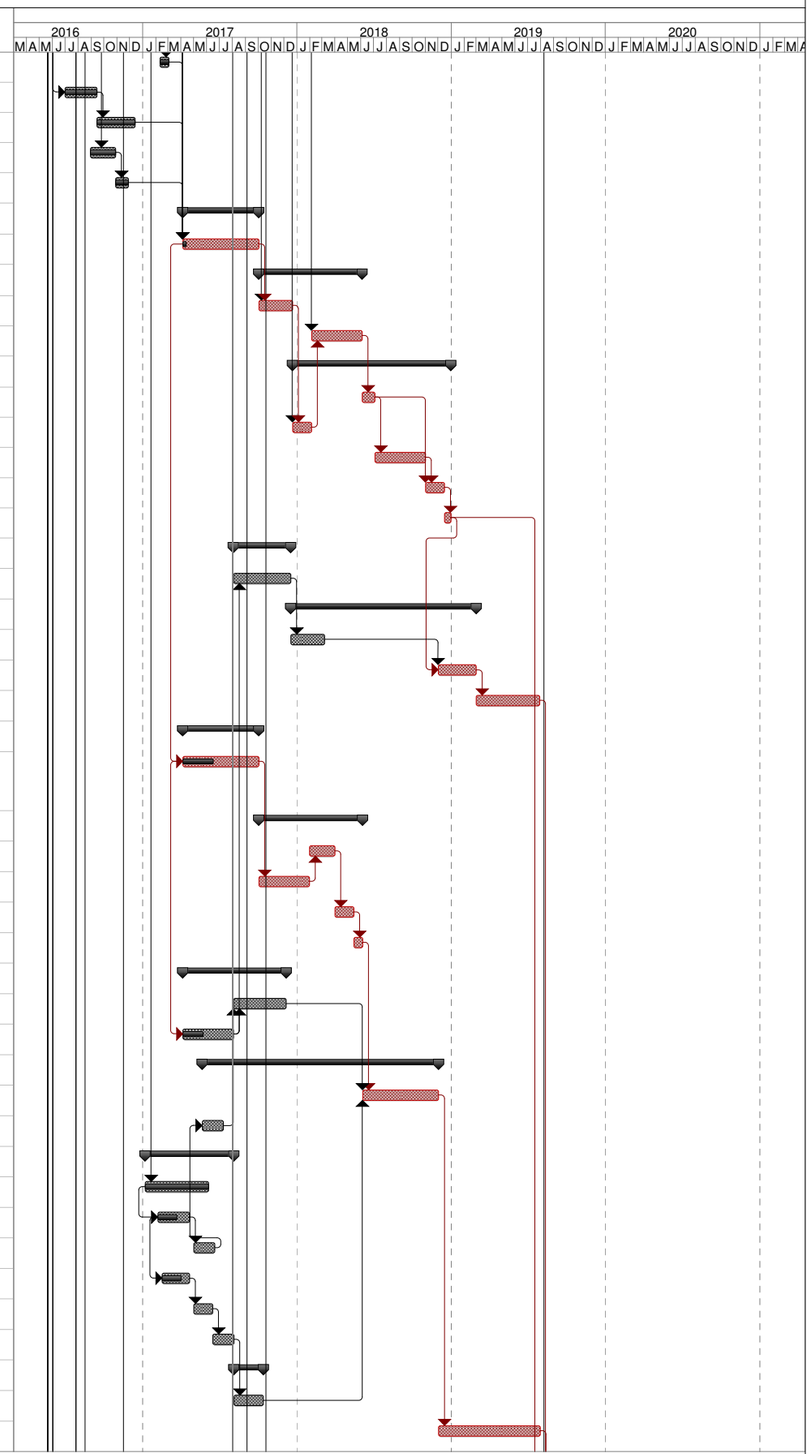
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
170	220111	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Fri 10/2/17	Thu 2/3/17	0 days	100%	169	Fri 10/2/17
171	220102	TTM PREPARATION	76 days	7 days	Thu 30/6/16	Tue 13/9/16	0 days	100%	2SS	Thu 30/6/16
172	220113	TTM APPROVAL BY RSS/TMLG	90 days	7 days	Wed 14/9/16	Mon 12/12/16	0 days	100%	171	Wed 14/9/16
173	**220114**	PREPARATION OF TDMP FOR BOX CULVERTS	60 days	5 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	161	Mon 29/8/16
174	220115	APPROVAL OF TDMP BY SUPERVISOR/DSD	30 days	3 days	Fri 28/10/16	Sat 26/11/16	0 days	100%	173	Fri 28/10/16
175	**220116**	**MP 5+465 - MP 5+515**	**180 days**		**Wed 5/4/17**	**Sun 1/10/17**	**0 days**	**4%**		**Wed 5/4/17**
176	220117	RETAINING WALL - RW D02 & D04 (80M)	180 days	7 days	Wed 5/4/17	Sun 1/10/17	-27 days	4%	164,172,174,168FS+30 c	Wed 5/4/17
177	220118	**MP 5+515 - MP 5+595**	**245 days**		**Mon 2/10/17**	**Sun 3/6/18**	**-27 days**	**0%**		**Mon 2/10/17**
178	**220119**	RETAINING WALL - RW D05 & D06 (50M)	80 days	7 days	Mon 2/10/17	Wed 20/12/17	-27 days	0%	176,165FS+20 days	Mon 2/10/17
179	220120	RETAINING WALL - RW D07 (70M)	120 days	10 days	Sun 4/2/18	Sun 3/6/18	-27 days	0%	182,165	Sun 4/2/18
180	220121	**MP 5+280 - MP 6+020**	**375 days**		**Thu 21/12/17**	**Sun 30/12/18**	**-27 days**	**0%**		**Thu 21/12/17**
181	220122	RETAINING WALL - RW D03 (11M)	30 days	3 days	Mon 4/6/18	Tue 3/7/18	-27 days	0%	179	Mon 4/6/18
182	220123	BOX CULVERT D4	45 days	4 days	Thu 21/12/17	Sat 3/2/18	-27 days	0%	178,165	Thu 21/12/17
183	220124	EARTHWORKS AND DRAINAGE WORKS	120 days	5 days	Wed 4/7/18	Wed 31/10/18	-27 days	0%	181	Wed 4/7/18
184	**220125**	ROAD WORKS FOR REALIGNMENT	45 days	3 days	Thu 1/11/18	Sat 15/12/18	-27 days	0%	183,181	Thu 1/11/18
185	220126	REALIGNMENT SAN TAM ROAD	15 days	2 days	Sun 16/12/18	Sun 30/12/18	-27 days	0%	184	Sun 16/12/18
186	***220127***	***MP 5+900 - MP 6+020***	***136 days***		***Thu 3/8/17***	***Sat 16/12/17***	***242 days***	***0%***		***Thu 3/8/17***
187	*220128*	*RETAINING WALL - RW D15 (113M)*	*136 days*	*10 days*	*Thu 3/8/17*	*Sat 16/12/17*	*242 days*	*0%*	*201*	*Thu 3/8/17*
188	***220129***	***MP 5+ 595 - MP 5+900***	***439 days***		***Sun 17/12/17***	***Thu 28/2/19***	***-27 days***	***0%***		***Sun 17/12/17***
189	*220130*	*RETAINING WALL - RW D10 (50M)*	*80 days*	*7 days*	*Sun 17/12/17*	*Tue 6/3/18*	*242 days*	*0%*	*187*	*Sun 17/12/17*
190	*220131*	*RETAINING WALL - RW D08 (66M)*	*90 days*	*8 days*	*Sat 1/12/18*	*Thu 28/2/19*	*-27 days*	*0%*	*189,185FS-30 days*	*Sat 1/12/18*
191	*220132*	*DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS*	*150 days*	*8 days*	*Fri 1/3/19*	*Sun 28/7/19*	*-27 days*	*0%*	*190*	*Fri 1/3/19*
192	***220133***	***MP 6+420 - MP 6+530***	***180 days***		***Wed 5/4/17***	***Sun 1/10/17***	***0 days***	***40%***		***Wed 5/4/17***
193	*220134*	*RETAINING WALL - RW D25 & D26 (100M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT*	*180 days*	*14 days*	*Wed 5/4/17*	*Sun 1/10/17*	*-28 days*	*40%*	*176SS*	*Wed 5/4/17*
194	***220135***	***MP 6+020 - MP 6+530***	***246 days***		***Mon 2/10/17***	***Mon 4/6/18***	***-28 days***	***0%***		***Mon 2/10/17***
195	*220136*	*BOX CULVERT D7*	*60 days*	*3 days*	*Tue 30/1/18*	*Fri 30/3/18*	*-28 days*	*0%*	*196*	*Tue 30/1/18*
196	*220137*	*DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS*	*120 days*	*10 days*	*Mon 2/10/17*	*Mon 29/1/18*	*-28 days*	*0%*	*193*	*Mon 2/10/17*
197	*220138*	*ROAD WORKS FOR REALIGNMENT*	*45 days*	*4 days*	*Sat 31/3/18*	*Mon 14/5/18*	*-28 days*	*0%*	*195*	*Sat 31/3/18*
198	*220139*	*REALIGNMENT SHEK WU WAI ROAD*	*21 days*	*2 days*	*Tue 15/5/18*	*Mon 4/6/18*	*-28 days*	*0%*	*197*	*Tue 15/5/18*
199	***220140***	***MP 6+020 - MP 6+160***	***245 days***		***Wed 5/4/17***	***Tue 5/12/17***	***153 days***	***20%***		***Wed 5/4/17***
200	*220141*	*RETAINING WALL - RW D18 (98M)*	*125 days*	*10 days*	*Thu 3/8/17*	*Tue 5/12/17*	*153 days*	*0%*	*201,204*	*Thu 3/8/17*
201	*220142*	*RETAINING WALL - RW D17 (65M)*	*120 days*	*10 days*	*Wed 5/4/17*	*Wed 2/8/17*	*153 days*	*40%*	*193SS*	*Wed 5/4/17*
202	***220143***	***MP 6+160 - MP 6+230***	***560 days***		***Sun 21/5/17***	***Sat 1/12/18***	***-28 days***	***0%***		***Sun 21/5/17***
203	*220144*	*RETAINING WALL - RW D19A, B (53M)*	*180 days*	*7 days*	*Tue 5/6/18*	*Sat 1/12/18*	*-28 days*	*0%*	*198,213FS+26 days,200*	*Tue 5/6/18*
204	*220145*	*RETAINING WALL - RW D20 (U) (22M)*	*50 days*	*5 days*	*Sun 21/5/17*	*Sun 9/7/17*	*177 days*	*0%*	*208FS-30 days*	*Sun 21/5/17*
205	***220146***	***MP 6+230 - MP 6+330***	***210 days***		***Fri 6/1/17***	***Thu 3/8/17***	***181 days***	***55%***		***Fri 6/1/17***
206	*220147*	*RECTANGULAR CHANNEL*	*150 days*	*10 days*	*Fri 6/1/17*	*Sun 4/6/17*	*0 days*	*100%*	*163*	*Fri 6/1/17*
207	*220148*	*BOX CULVERT D5*	*75 days*	*4 days*	*Sun 5/2/17*	*Thu 20/4/17*	*177 days*	*60%*	*206SS+30 days*	*Sun 5/2/17*
208	*220149*	*RETAINING WALL - RW D21(U) (26M)*	*50 days*	*4 days*	*Mon 1/5/17*	*Mon 19/6/17*	*177 days*	*0%*	*207FS+10 days*	*Mon 1/5/17*
209	*220150*	*BOX CULVERT D6*	*65 days*	*4 days*	*Wed 15/2/17*	*Thu 20/4/17*	*181 days*	*69%*	*207SS+10 days*	*Wed 15/2/17*
210	*220151*	*RETAINING WALL - RW D22 (U) (26M)*	*45 days*	*4 days*	*Mon 1/5/17*	*Wed 14/6/17*	*181 days*	*0%*	*209FS+10 days*	*Mon 1/5/17*
211	*220152*	*RETAINING WALL - RW D23 (U) (21M)*	*50 days*	*4 days*	*Thu 15/6/17*	*Thu 3/8/17*	*181 days*	*0%*	*210*	*Thu 15/6/17*
212	***220153***	***MP 6+372 - MP 6+410***	***70 days***		***Fri 4/8/17***	***Thu 12/10/17***	***181 days***	***0%***		***Fri 4/8/17***
213	*220154*	*RETAINING WALL - RW D24 (44M)*	*70 days*	*7 days*	*Fri 4/8/17*	*Thu 12/10/17*	*181 days*	*0%*	*211*	*Fri 4/8/17*
214	*220155*	*DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS*	*240 days*	*10 days*	*Sun 2/12/18*	*Mon 29/7/19*	*-28 days*	*0%*	*203*	*Sun 2/12/18*



Task
Split
Milestone
Summary
Project Summary
External Tasks
External Milestone
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
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Critical Split
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Deadline

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29 MAY 2017

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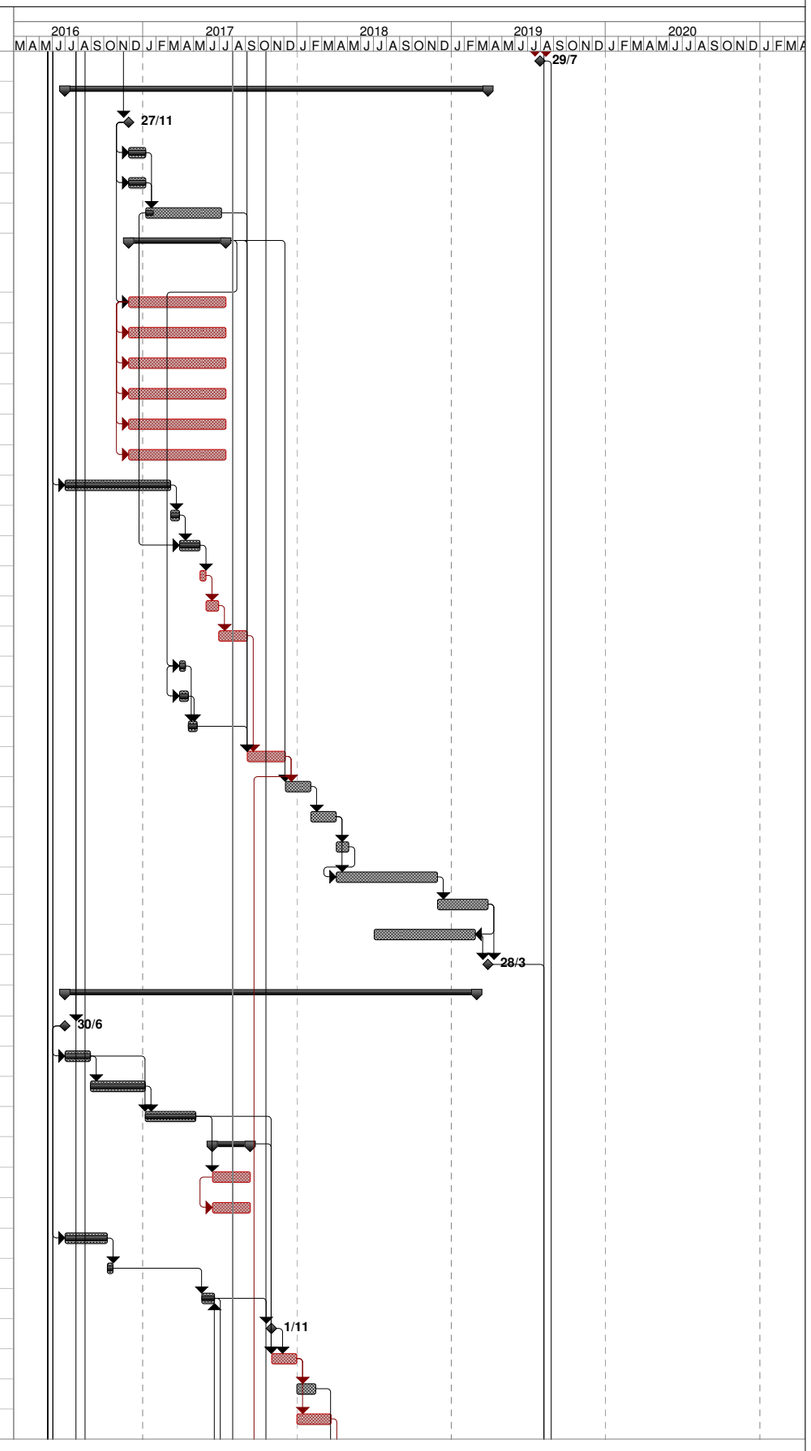
215	220156	COMPLETION OF PORTION E	0 days		Mon 29/7/19	Mon 29/7/19	-28 days	0%	214,191,185	Mon 29/7/19
216	**220201**	**PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)**	**1002 days**		**Thu 30/6/16**	**Thu 28/3/19**	**95 days**	**16%**		**Thu 30/6/16**
217	220202	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	158FS+151 days	Sun 27/11/16
218	220203	INITIAL SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	217SS	Mon 28/11/16
219	220204	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	217SS	Mon 28/11/16
220	220205	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	180 days	5 days	Sat 7/1/17	Wed 5/7/17	16 days	10%	219,218	Sat 7/1/17
221	***220206***	***UTILITIES DIVERSION WORKS (CLP, CATV, NTT, TOWN GAS, HKBB & TGT)***	***230 days***	***0 day***	***Mon 28/11/16***	***Sat 15/7/17***	***0 days***	***0%***		***Mon 28/11/16***
222	*220207*	*CLP*	*230 days*	*14 days*	*Mon 28/11/16*	*Sat 15/7/17*	*0 days*	*0%*	*217SS*	*Mon 28/11/16*
223	*220208*	*CATV*	*230 days*	*14 days*	*Mon 28/11/16*	*Sat 15/7/17*	*0 days*	*0%*	*222SS*	*Mon 28/11/16*
224	*220209*	*NTT*	*230 days*	*14 days*	*Mon 28/11/16*	*Sat 15/7/17*	*0 days*	*0%*	*222SS*	*Mon 28/11/16*
225	*220210*	*TOWN GAS*	*230 days*	*14 days*	*Mon 28/11/16*	*Sat 15/7/17*	*0 days*	*0%*	*222SS*	*Mon 28/11/16*
226	*220211*	*HKB*	*230 days*	*14 days*	*Mon 28/11/16*	*Sat 15/7/17*	*0 days*	*0%*	*222SS*	*Mon 28/11/16*
227	*220212*	*TFT*	*230 days*	*14 days*	*Mon 28/11/16*	*Sat 15/7/17*	*0 days*	*0%*	*222SS*	*Mon 28/11/16*
228	220213	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	250 days		Thu 30/6/16	Mon 6/3/17	0 days	100%	2SS	Thu 30/6/16
229	220214	ARRANGEMENT OF SITE INVESTIGATION WORKS	21 days	2 days	Tue 7/3/17	Mon 27/3/17	0 days	100%	228	Tue 7/3/17
230	220215	SITE INVESTIGATION WORKS AND TESTING	49 days	3 days	Tue 28/3/17	Mon 15/5/17	0 days	100%	229,220SS+60 days	Tue 28/3/17
231	220216	INSTRUCTION FOR REMEDIAL WORK FOR CONTAMINATED SOIL	14 days	2 days	Tue 16/5/17	Mon 29/5/17	-45 days	0%	230	Tue 16/5/17
232	220217	ARRANGEMENT OF REMEDIAL WORKS	30 days	3 days	Tue 30/5/17	Wed 28/6/17	-45 days	0%	231	Tue 30/5/17
233	220218	IMPLEMENTATION OF REMEMDIAL WORKS	68 days	5 days	Thu 29/6/17	Mon 4/9/17	-45 days	0%	232	Thu 29/6/17
234	220219	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Tue 28/3/17	Mon 10/4/17	0 days	100%	221	Tue 28/3/17
235	220220	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 28/3/17	Mon 17/4/17	0 days	100%	234SS	Tue 28/3/17
236	220221	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 18/4/17	Mon 8/5/17	0 days	100%	234,235	Tue 18/4/17
237	220222	RW 42 (60M)	90 days	7 days	Tue 5/9/17	Sun 3/12/17	-45 days	0%	221FS+6 days,236,233,1	Tue 5/9/17
238	220223	RW 43 (50M)	60 days	5 days	Mon 4/12/17	Thu 1/2/18	95 days	0%	221,237	Mon 4/12/17
239	220224	RW 44 (36M U)	60 days	5 days	Fri 2/2/18	Mon 2/4/18	95 days	0%	238	Fri 2/2/18
240	220225	RAMP PR3 CONSTRUCTION	30 days	3 days	Tue 3/4/18	Wed 2/5/18	95 days	0%	239	Tue 3/4/18
241	220226	EARTHWORKS AND DRAINAGE WORKS	240 days	21 days	Tue 3/4/18	Wed 28/11/18	95 days	0%	239,240FS-30 days	Tue 3/4/18
242	220227	ROAD WORKS (1.3 KM)	120 days	10 days	Thu 29/11/18	Thu 28/3/19	95 days	0%	241	Thu 29/11/18
243	220228	RESTING STATION R8	240 days	21 days	Mon 2/7/18	Tue 26/2/19	125 days	0%	242FF-30 days	Mon 2/7/18
244	220229	COMPLETION OF PORTION F	0 days		Thu 28/3/19	Thu 28/3/19	95 days	0%	242,243	Thu 28/3/19
245	**220301**	**PORTION G - (BRIDGE C) CH ST 1+210 - CH ST 1+310)**	**975 days**		**Thu 30/6/16**	**Fri 1/3/19**	**122 days**	**29%**		**Thu 30/6/16**
246	220302	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	158	Thu 30/6/16
247	220303	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	246SS	Thu 30/6/16
248	220304	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	247	Mon 29/8/16
249	220305	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	0 days	100%	248,247	Fri 6/1/17
250	*220306*	*UTILITIES DIVERSION WORKS*	*90 days*	*0 day*	*Wed 14/6/17*	*Mon 11/9/17*	*0 days*	*0%*		*Wed 14/6/17*
251	*220307*	*HKB*	*90 days*		*Wed 14/6/17*	*Mon 11/9/17*	*0 days*	*0%*	*249FS+39 days*	*Wed 14/6/17*
252	*220308*	*TGT*	*90 days*		*Wed 14/6/17*	*Mon 11/9/17*	*0 days*	*0%*	*251SS*	*Wed 14/6/17*
253	220309	PREPARATION OF TDMP FOR PRE-DRILLING WORKS	100 days	10 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	246SS	Thu 30/6/16
254	220310	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sat 8/10/16	Fri 21/10/16	0 days	100%	253	Sat 8/10/16
255	220311	PREDRILLING WORKS FOR PILES	30 days	3 days	Sat 20/5/17	Sun 18/6/17	0 days	100%	355,254	Sat 20/5/17
256	220312	STARTING DATE OF DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	255	Wed 1/11/17
257	220313	PRE-BORE H-PILE (8 NOS)	60 days	5 days	Wed 1/11/17	Sat 30/12/17	0 days	0%	256,249,250FS+50 days	Wed 1/11/17
258	220314	LOAD TEST	45 days	5 days	Sun 31/12/17	Tue 13/2/18	36 days	0%	257	Sun 31/12/17
259	220315	ABUTMENT CONSTRUCTION	81 days	7 days	Sun 31/12/17	Wed 21/3/18	0 days	0%	257	Sun 31/12/17



Task | Summary | External Milestone | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
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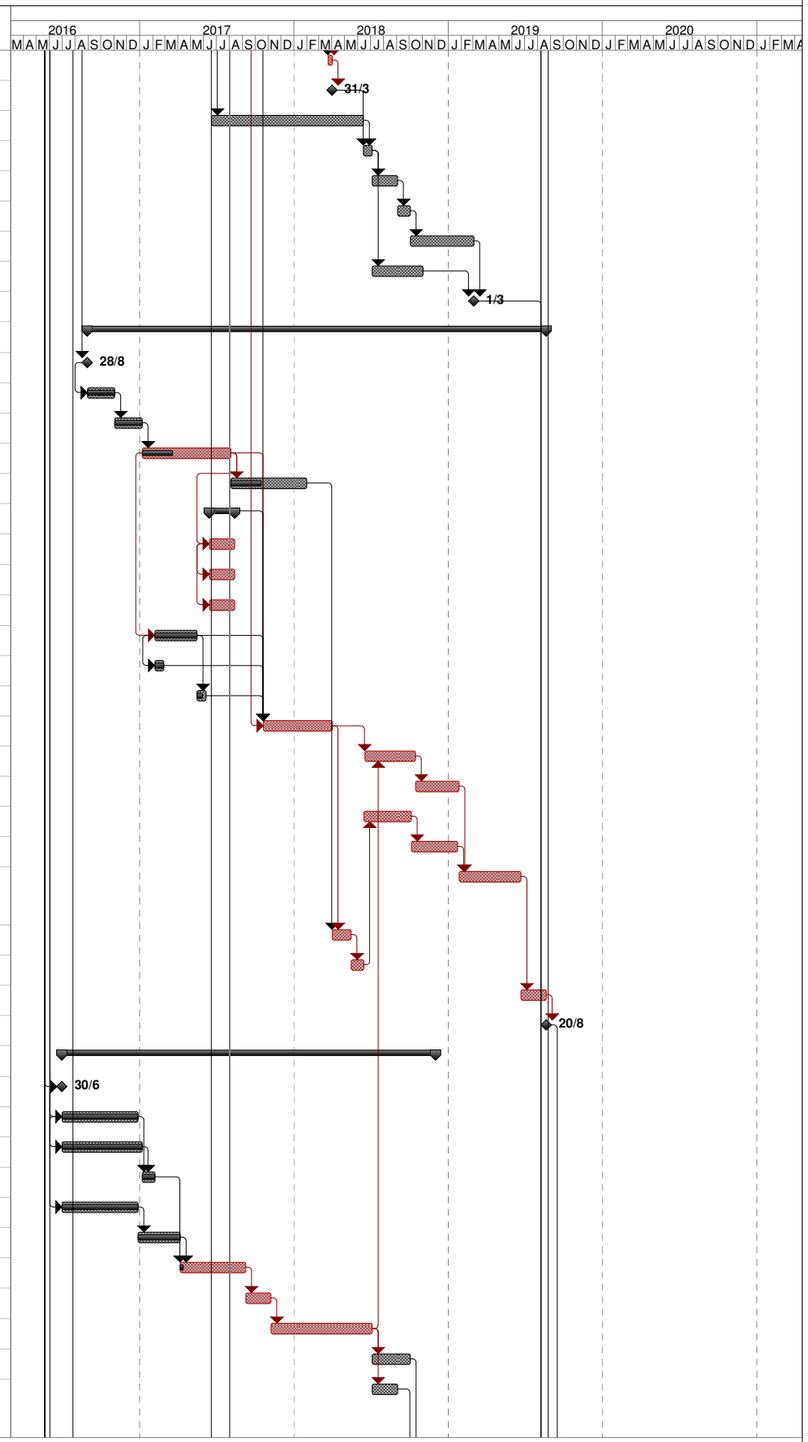
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
260	220316	REMOVAL OF DRAINAGE DIVERSION WORKS	10 days	2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	259,258	Thu 22/3/18
261	220317	END DATE OF DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	260	Sat 31/3/18
262	220318	PROCURE AND DELIVERY OF BEARINGS AND MOVEMNT JOINTS	360 days	21 days	Mon 19/6/17	Wed 13/6/18	122 days	0%	255	Mon 19/6/17
263	220319	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Thu 14/6/18	Wed 4/7/18	122 days	0%	262,261	Thu 14/6/18
264	220320	BRIDGE DECK CONSTRUCTION	60 days	5 days	Thu 5/7/18	Sun 2/9/18	122 days	0%	263	Thu 5/7/18
265	220321	EARTH WORKS AND DRAINAGE WORKS	30 days	2 days	Mon 3/9/18	Tue 2/10/18	122 days	0%	264	Mon 3/9/18
266	220322	ROAD WORKS	150 days	10 days	Wed 3/10/18	Fri 1/3/19	122 days	0%	265	Wed 3/10/18
267	220323	BRIDGE ASSOCIATED WORKS, WATERMAIN WORKS	120 days	10 days	Thu 5/7/18	Thu 1/11/18	242 days	0%	263	Thu 5/7/18
268	220324	COMPLETION OF PORTION G	0 days		Fri 1/3/19	Fri 1/3/19	122 days	0%	267,266	Fri 1/3/19
269	**220401**	**PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)**	**1087 days**		**Sun 28/8/16**	**Tue 20/8/19**	**-50 days**	**24%**		**Sun 28/8/16**
270	220402	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	158FS+60 days	Sun 28/8/16
271	220403	INITIAL SURVEY	65 days	4 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	270SS	Mon 29/8/16
272	220404	TREE SURVEY	65 days	4 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	271	Wed 2/11/16
273	220405	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	210 days	7 days	Fri 6/1/17	Thu 3/8/17	0 days	34%	272	Fri 6/1/17
274	220406	APPLIED TTA APPROVAL FOR REALIGNMENT	180 days	14 days	Fri 4/8/17	Tue 30/1/18	15 days	40%	273	Fri 4/8/17
275	*220407*	*UTILITIES DIVERSION WORKS (HKB, TGT & CLP)*	*60 days*	*0 day*	*Wed 14/6/17*	*Sat 12/8/17*	*0 days*	*0%*		*Wed 14/6/17*
276	*220408*	*HKB*	*60 days*	*14 days*	*Wed 14/6/17*	*Sat 12/8/17*	*0 days*	*0%*	*273FS-51 days*	*Wed 14/6/17*
277	*220409*	*TGT*	*60 days*	*14 days*	*Wed 14/6/17*	*Sat 12/8/17*	*0 days*	*0%*	*276SS*	*Wed 14/6/17*
278	*220410*	*CLP*	*60 days*	*14 days*	*Wed 14/6/17*	*Sat 12/8/17*	*0 days*	*0%*	*276SS*	*Wed 14/6/17*
279	220411	GROUND INVESTIGATION WORKS (6 NOS. BOREHOLE & TRIAL PITS)	100 days	4 days	Sun 5/2/17	Mon 15/5/17	0 days	100%	273SS+30 days	Sun 5/2/17
280	220412	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Sun 5/2/17	Sat 25/2/17	0 days	100%	279SS	Sun 5/2/17
281	220413	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 16/5/17	Mon 5/6/17	91 days	60%	279	Tue 16/5/17
282	220414	RW 49 (130M)	163 days	12 days	Fri 20/10/17	Sat 31/3/18	-45 days	0%	275FS+23 days,273,279,	Fri 20/10/17
283	220415	RW 45A (73M)	120 days	10 days	Sun 17/6/18	Sun 14/10/18	-50 days	0%	282,301FS-18 days	Sun 17/6/18
284	220416	RW 45B (58M)	103 days	10 days	Mon 15/10/18	Fri 25/1/19	-50 days	0%	283	Mon 15/10/18
285	220417	DW1 & DW1A (130M)	112 days	10 days	Fri 15/6/18	Thu 4/10/18	-45 days	0%	289	Fri 15/6/18
286	220418	DW2 (92M)	110 days	10 days	Fri 5/10/18	Tue 22/1/19	-45 days	0%	285	Fri 5/10/18
287	220419	EARTHWORKS AND DRAINAGE WORKS	147 days	14 days	Sat 26/1/19	Fri 21/6/19	-50 days	0%	284,286FS-2 days	Sat 26/1/19
288	220420	PART OF ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY	45 days	4 days	Sun 1/4/18	Tue 15/5/18	-45 days	0%	282,274	Sun 1/4/18
289	220421	REALIGNMENT CARRIAGEWAY	30 days	3 days	Wed 16/5/18	Thu 14/6/18	-45 days	0%	288	Wed 16/5/18
290	220422	ROAD WORKS	60 days	5 days	Sat 22/6/19	Tue 20/8/19	-50 days	0%	287	Sat 22/6/19
291	220423	COMPLETION OF PORTION H	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	290	Tue 20/8/19
292	**220501**	**PORTION I (CH ST 1.525 - CH ST 1.70)**	**885 days**		**Thu 30/6/16**	**Sat 1/12/18**	**212 days**	**51%**		**Thu 30/6/16**
293	220502	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
294	220503	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	293SS	Thu 30/6/16
295	220504	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	0 days	100%	294SS	Thu 30/6/16
296	220505	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	2 days	Fri 6/1/17	Sat 4/2/17	0 days	100%	295,294	Fri 6/1/17
297	220506	TTM PREPARATION	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS	Thu 30/6/16
298	220507	TTM APPROVAL BY RSS/TMLG	100 days	5 days	Tue 27/12/16	Wed 5/4/17	0 days	100%	297	Tue 27/12/16
299	*220508*	*SUBWAY D WITH PUMP ROOM CONSTRUCTION (2BAYS BAY 9, 10)*	*155 days*	*14 days*	*Thu 6/4/17*	*Thu 7/9/17*	*-50 days*	*5%*	*298,296*	*Thu 6/4/17*
300	*220509*	*SUBWAY D BAY 11*	*60 days*	*5 days*	*Fri 8/9/17*	*Mon 6/11/17*	*-50 days*	*0%*	*299*	*Fri 8/9/17*
301	*220510*	*RAMP (14 BAYS)*	*240 days*	*21 days*	*Tue 7/11/17*	*Wed 4/7/18*	*-50 days*	*0%*	*300*	*Tue 7/11/17*
302	220511	FINISHING WORKS AND E&M WORKS	90 days	7 days	Thu 5/7/18	Tue 2/10/18	212 days	0%	301	Thu 5/7/18
303	220512	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Thu 5/7/18	Sun 2/9/18	242 days	0%	301	Thu 5/7/18



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UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

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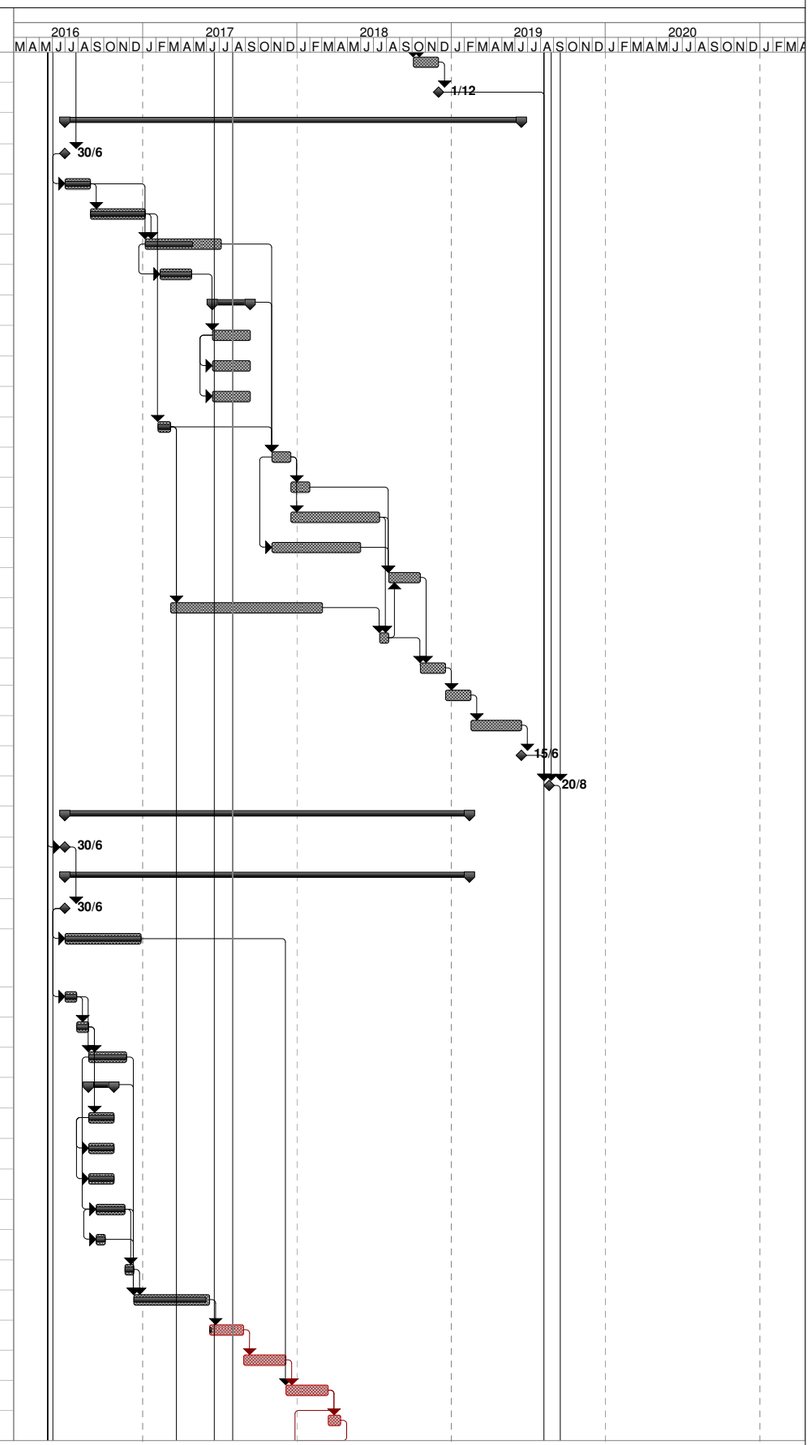
304	220513	ROAD WORKS	60 days	5 days	Wed 3/10/18	Sat 1/12/18	212 days	0%	303,302	Wed 3/10/18
305	220514	COMPLETION OF PORTION I	0 days		Sat 1/12/18	Sat 1/12/18	212 days	0%	304	Sat 1/12/18
306	**220514**	**PORTION N (BRIDGE B) CH ST 0.150 - CH ST 1.097)**	**1081 days**		**Thu 30/6/16**	**Sat 15/6/19**	**16 days**	**21%**		**Thu 30/6/16**
307	220515	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	158	Thu 30/6/16
308	220516	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	307SS	Thu 30/6/16
309	220517	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	308	Mon 29/8/16
310	220518	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	180 days	5 days	Fri 6/1/17	Tue 4/7/17	136 days	63%	309,308	Fri 6/1/17
311	*220519*	*INSPECTION PIT FOR UU*	*75 days*	*5 days*	*Fri 10/2/17*	*Tue 25/4/17*	*0 days*	*100%*	*310SS+35 days*	*Fri 10/2/17*
312	*220520*	*UTILITIES DIVERSION WORKS (HKB, TGT & CLP)*	*90 days*	*10 days*	*Wed 14/6/17*	*Mon 11/9/17*	*67 days*	*0%*		*Wed 14/6/17*
313	*220521*	*HKB*	*90 days*	*10 days*	*Wed 14/6/17*	*Mon 11/9/17*	*67 days*	*0%*	*311FS+49 days*	*Wed 14/6/17*
314	*220522*	*TGT*	*90 days*	*10 days*	*Wed 14/6/17*	*Mon 11/9/17*	*67 days*	*0%*	*313SS*	*Wed 14/6/17*
315	*220523*	*CLP*	*90 days*	*10 days*	*Wed 14/6/17*	*Mon 11/9/17*	*67 days*	*0%*	*313SS*	*Wed 14/6/17*
316	220524	PRE-DRILLING WORKS FOR PILES	30 days	3 days	Sun 5/2/17	Mon 6/3/17	0 days	100%	309FS+30 days	Sun 5/2/17
317	220525	PILE WORKS	45 days	4 days	Thu 2/11/17	Sat 16/12/17	16 days	0%	316FS+240 days,312,31(	Thu 2/11/17
318	220526	LOAD TEST	45 days	4 days	Sun 17/12/17	Tue 30/1/18	202 days	0%	317	Sun 17/12/17
319	220527	ABUTMENT CONSTRUCTION	210 days	7 days	Sun 17/12/17	Sat 14/7/18	16 days	0%	317	Sun 17/12/17
320	220528	OFFSITE FABRICATION OF BRIDGE MEMBERS	210 days	10 days	Thu 2/11/17	Wed 30/5/18	82 days	0%	317SS	Thu 2/11/17
321	220529	STEEL TRUSS AND DESK CONSTRUCTION	75 days	7 days	Sun 5/8/18	Thu 18/10/18	16 days	0%	320,319,323,318	Sun 5/8/18
322	220530	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	10 days	Tue 7/3/17	Thu 1/3/18	151 days	0%	316	Tue 7/3/17
323	220531	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Sun 15/7/18	Sat 4/8/18	16 days	0%	322,319	Sun 15/7/18
324	220532	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Fri 19/10/18	Mon 17/12/18	16 days	0%	321,323	Fri 19/10/18
325	220533	ROAD WORKS	60 days	5 days	Tue 18/12/18	Fri 15/2/19	16 days	0%	324	Tue 18/12/18
326	220534	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	120 days	10 days	Sat 16/2/19	Sat 15/6/19	16 days	0%	325	Sat 16/2/19
327	220535	COMPLETION OF PORTION N	0 days		Sat 15/6/19	Sat 15/6/19	16 days	0%	326	Sat 15/6/19
328	220536	COMPLETION OF SECTION W2	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	215,244,268,291,305,32	Tue 20/8/19
329	**230001**	**SECTION W3**	**958 days**		**Thu 30/6/16**	**Tue 12/2/19**	**-44 days**	**55%**		**Thu 30/6/16**
330	230002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
331	**230101**	**PORTION K (CH KW 1+360 - CH KW 2+070)**	**958 days**		**Thu 30/6/16**	**Tue 12/2/19**	**-44 days**	**52%**		**Thu 30/6/16**
332	230102	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	330	Thu 30/6/16
333	230103	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	332SS	Thu 30/6/16
334	230104	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	332SS	Thu 30/6/16
335	230105	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	0 days	100%	334	Thu 28/7/16
336	230106	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	0 days	100%	335,334	Thu 25/8/16
337	*230107*	*UTILITIES DIVERSION WORKS (CLP, PCCW & FW MAINS)*	*60 days*	*0 day*	*Thu 25/8/16*	*Sun 23/10/16*	*0 days*	*100%*		*Thu 25/8/16*
338	*230108*	*CLP*	*60 days*	*5 days*	*Thu 25/8/16*	*Sun 23/10/16*	*0 days*	*100%*	*335*	*Thu 25/8/16*
339	*230109*	*PCCW*	*60 days*	*5 days*	*Thu 25/8/16*	*Sun 23/10/16*	*0 days*	*100%*	*338SS*	*Thu 25/8/16*
340	*230110*	*FW MAINS*	*60 days*	*5 days*	*Thu 25/8/16*	*Sun 23/10/16*	*0 days*	*100%*	*338SS*	*Thu 25/8/16*
341	230111	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS)	68 days	5 days	Mon 12/9/16	Fri 18/11/16	0 days	100%	336SS+18 days	Mon 12/9/16
342	230112	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	0 days	100%	341SS	Mon 12/9/16
343	230113	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Sat 19/11/16	Fri 9/12/16	0 days	100%	341	Sat 19/11/16
344	230114	RW 29C (66M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT	180 days	7 days	Sat 10/12/16	Wed 7/6/17	4 days	95%	336,337,341,343,342	Sat 10/12/16
345	230115	RW 29B (50M)	80 days	7 days	Thu 8/6/17	Sat 26/8/17	-44 days	5%	344	Thu 8/6/17
346	230116	RW 29A (90M)	100 days	7 days	Sun 27/8/17	Mon 4/12/17	-44 days	0%	345	Sun 27/8/17
347	230117	RW 27 (90M)	100 days	7 days	Tue 5/12/17	Wed 14/3/18	-44 days	0%	346,333	Tue 5/12/17
348	230118	STREAM DECKING D9	30 days	7 days	Thu 15/3/18	Fri 13/4/18	-33 days	0%	347	Thu 15/3/18



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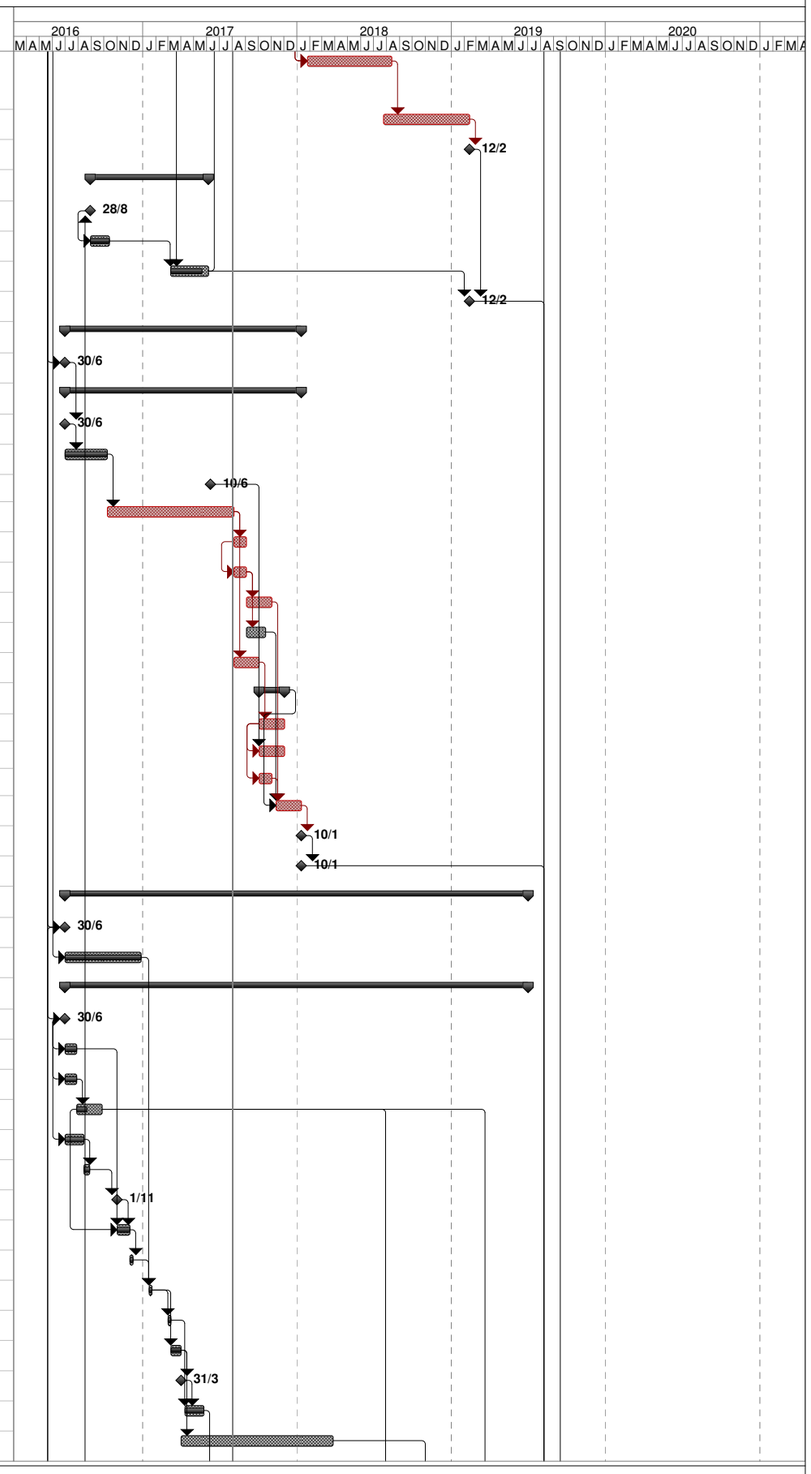
349	230119	EARTHWORKS AND DRAINAGE WORKS	200 days	21 days	Thu 25/1/18	Sun 12/8/18	-44 days	0%	348FS-90 days,347FS-49 days	Thu 25/1/18
350	230120	ROAD WORKS	204 days	21 days	Tue 24/7/18	Tue 12/2/19	-44 days	0%	349FS-20 days	Tue 24/7/18
351	230121	COMPLETION OF PORTION K	0 days		Tue 12/2/19	Tue 12/2/19	-44 days	0%	350	Tue 12/2/19
352	**230201**	**PORTION J1**	**280 days**		**Sun 28/8/16**	**Sun 4/6/17**	**574 days**	**89%**		**Sun 28/8/16**
353	230202	POSSESION OF SITE (J1)	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	432FS+60 days	Sun 28/8/16
354	230203	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	0 days	100%	353SS	Mon 29/8/16
355	230204	SITE INVESTIGATION	90 days	10 days	Tue 7/3/17	Sun 4/6/17	574 days	83%	316,354	Tue 7/3/17
356	230205	COMPLETION OF SECTION W3	0 days		Tue 12/2/19	Tue 12/2/19	-44 days	0%	351,355	Tue 12/2/19
357	**240101**	**SECTION W4 PUBLIC TOILET**	**560 days**		**Thu 30/6/16**	**Wed 10/1/18**	**-10 days**	**12%**		**Thu 30/6/16**
358	240102	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
359	**240101**	**PORTION L**	**560 days**		**Thu 30/6/16**	**Wed 10/1/18**	**-10 days**	**12%**		**Thu 30/6/16**
360	240102	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	358	Thu 30/6/16
361	240103	DOCUMENT SUBMISSION	100 days	7 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	360	Thu 30/6/16
362	240104	LATE DAY FOR OBTAIN APPROVED WA FORM WWO 542	0 days		Sat 10/6/17	Sat 10/6/17	105 days	0%		Sat 10/6/17
363	240105	R.C. STRUCTURE	300 days	10 days	Sat 8/10/16	Thu 3/8/17	-10 days	0%	361	Sat 8/10/16
364	240106	EQUILIZATION TANL	30 days	4 days	Fri 4/8/17	Sat 2/9/17	0 days	0%	363	Fri 4/8/17
365	240107	SLUDGE HOLDING TANK	30 days	4 days	Fri 4/8/17	Sat 2/9/17	0 days	0%	364SS	Fri 4/8/17
366	240108	BIO-TREATMENT FACILITY	60 days	5 days	Sun 3/9/17	Wed 1/11/17	0 days	0%	365	Sun 3/9/17
367	240109	STEEL HOLLOW SECTION AT ROOF	45 days	5 days	Sun 3/9/17	Tue 17/10/17	15 days	0%	365	Sun 3/9/17
368	**240110**	INTERNAL FINISHES	60 days	5 days	Fri 4/8/17	Mon 2/10/17	-10 days	0%	363	Fri 4/8/17
369	240111	**E&M. WORKS AND PD INSTALLATION**	**60 days**		**Tue 3/10/17**	**Fri 1/12/17**	**-10 days**	**0%**		**Tue 3/10/17**
370	240112	ELECTRICAL AND MVAC WORKS	60 days	5 days	Tue 3/10/17	Fri 1/12/17	-10 days	0%	368	Tue 3/10/17
371	240113	PLUBMING WORKS	60 days	5 days	Tue 3/10/17	Fri 1/12/17	-10 days	0%	370SS,362	Tue 3/10/17
372	240014	UNDERGROND DRAINAGE WORKS	30 days	3 days	Tue 3/10/17	Wed 1/11/17	0 days	0%	370SS	Tue 3/10/17
373	240015	EXTERNAL FINISHES AND SURROUNDING AREA	60 days	7 days	Sun 12/11/17	Wed 10/1/18	-10 days	0%	367,366,372,369FS-20 d	Sun 12/11/17
374	240016	COMPLETION OF PORTION L	0 days		Wed 10/1/18	Wed 10/1/18	-10 days	0%	373	Wed 10/1/18
375	240017	COMPLETION OF SECTION W4	0 days		Wed 10/1/18	Wed 10/1/18	-10 days	0%	374	Wed 10/1/18
376	**250001**	**SECTION W5 (SS 0.0 - 270)**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**24%**		**Thu 30/6/16**
377	250002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
378	250003	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS	Thu 30/6/16
379	**250101**	**PORTION M (BRIDGE E)**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**16%**		**Thu 30/6/16**
380	250102	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	377SS	Thu 30/6/16
381	250103	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	380SS	Thu 30/6/16
382	250104	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	380SS	Thu 30/6/16
383	250105	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 28/7/16	Sun 25/9/16	672 days	40%	382	Thu 28/7/16
384	250106	PREPARATION TDMP FOR PRE-DRILLING WORKS	45 days	4 days	Thu 30/6/16	Sat 13/8/16	0 days	100%	380SS	Thu 30/6/16
385	250107	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sun 14/8/16	Sat 27/8/16	0 days	100%	384	Sun 14/8/16
386	250108	STARTING DATE OF 1ST DRY SEASON	0 days		Tue 1/11/16	Tue 1/11/16	0 days	100%	385	Tue 1/11/16
387	250109	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/11/16	0 days	100%	386,381,383SS+10 days	Tue 1/11/16
388	250110	PRE-DRILLING WORKS FOR PILES AT GRID 2	7 days	4 days	Thu 1/12/16	Wed 7/12/16	0 days	100%	387	Thu 1/12/16
389	250111	PRE-DRILLING WORKS FOR PILES AT GRID 3	7 days	4 days	Sun 15/1/17	Sat 21/1/17	0 days	100%	388,378	Sun 15/1/17
390	250112	PRE-DRILLING WORKS FOR PILES AT GRID 1	7 days	4 days	Wed 1/3/17	Tue 7/3/17	0 days	100%	389	Wed 1/3/17
391	250113	REMOVAL OF TEMPORARY DRAINAGE WORK	24 days	2 days	Wed 8/3/17	Fri 31/3/17	0 days	100%	389FS+7 days	Wed 8/3/17
392	250114	END DATE OF 1ST DRY SEASON	0 days		Fri 31/3/17	Fri 31/3/17	0 days	100%	391	Fri 31/3/17
393	250115	PREPARATION OF TDMP FOR PILING WORKS	45 days	7 days	Mon 10/4/17	Wed 24/5/17	0 days	100%	392,390	Mon 10/4/17
394	250116	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	30 days	Sat 1/4/17	Mon 26/3/18	219 days	0%	391	Sat 1/4/17



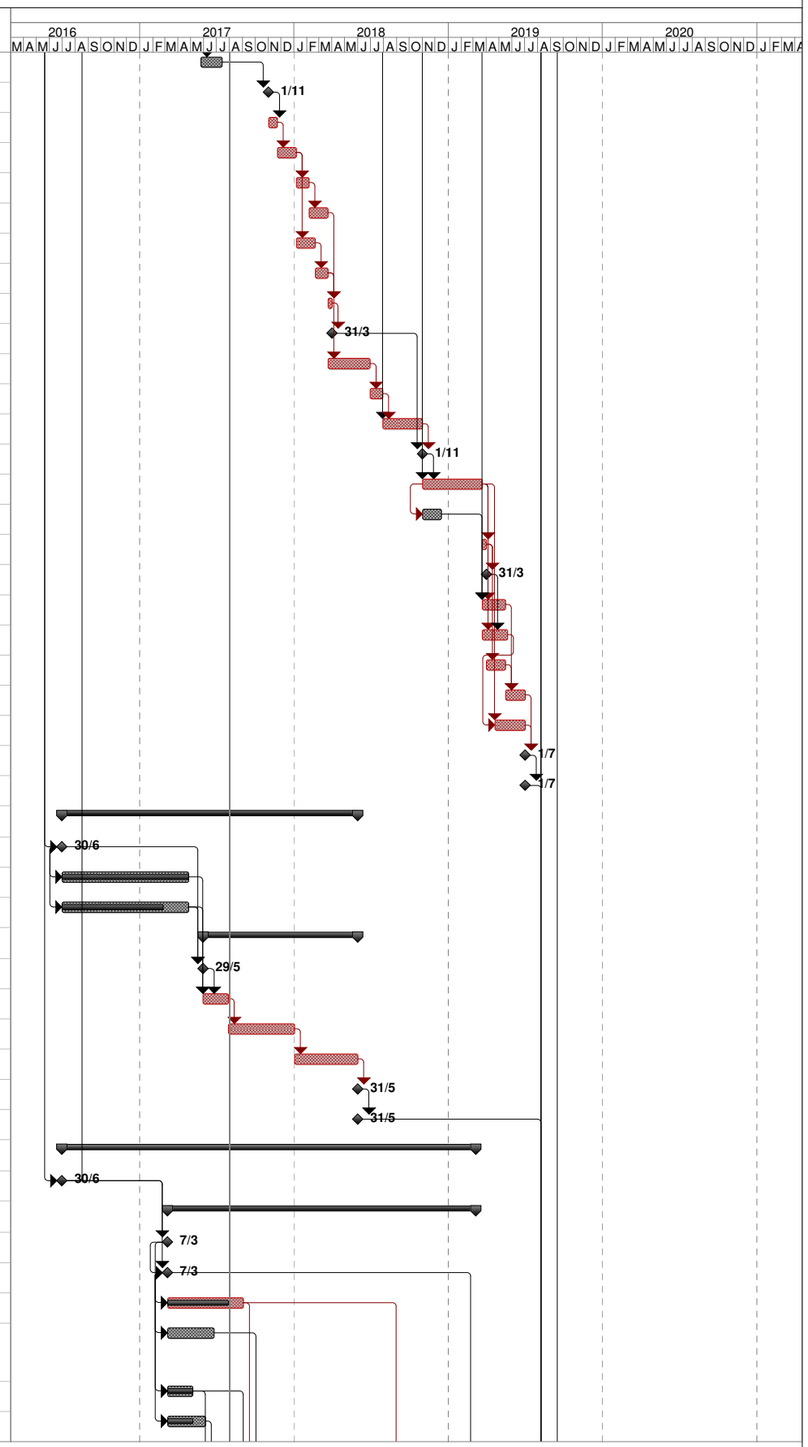
Task | Summary | External Milestone | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
Split | Project Summary | Inactive Task | Manual Task | Manual Summary | Critical | Deadline
Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | Critical Split

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
395	250117	APPROVAL OF TDMP BY SUPERVISOR/DSD	50 days	2 days	Thu 25/5/17	Thu 13/7/17	110 days	0%	393	Thu 25/5/17
396	250118	STARTING DATE OF 2ND DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	395	Wed 1/11/17
397	250119	TEMPORARY DRAINAGE WORKS (2ND DRY SEASON)	21 days	2 days	Wed 1/11/17	Tue 21/11/17	0 days	0%	396	Wed 1/11/17
398	250120	PILING WORKS AT GRID 2	45 days	4 days	Wed 22/11/17	Fri 5/1/18	0 days	0%	397	Wed 22/11/17
399	250121	PILE CAP AT GRID 2	30 days	3 days	Sat 6/1/18	Sun 4/2/18	0 days	0%	398	Sat 6/1/18
400	250122	PIER CONSTRUCTION AT GRID 2	45 days	4 days	Mon 5/2/18	Wed 21/3/18	0 days	0%	399	Mon 5/2/18
401	250123	PILING WORKS AT GRID 3	45 days	4 days	Sat 6/1/18	Mon 19/2/18	0 days	0%	398	Sat 6/1/18
402	250124	PILE CAP AT GRID 3	30 days	3 days	Tue 20/2/18	Wed 21/3/18	0 days	0%	401	Tue 20/2/18
403	250125	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	402,400	Thu 22/3/18
404	250126	END DATE OF 2ND DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	403	Sat 31/3/18
405	250127	PILING WORKS AT GRID 1 WITH ALL PILE LOAD TESTING	100 days	7 days	Thu 22/3/18	Fri 29/6/18	0 days	0%	402	Thu 22/3/18
406	250128	PILE CAP AT GRID 1	30 days	3 days	Sat 30/6/18	Sun 29/7/18	0 days	0%	405	Sat 30/6/18
407	250129	ABUTMENT AT GRID 1	94 days	7 days	Mon 30/7/18	Wed 31/10/18	0 days	0%	406,383	Mon 30/7/18
408	250130	STARTING DATE OF 3RD DRY SEASON	0 days		Thu 1/11/18	Thu 1/11/18	0 days	0%	407,404FS+214 days	Thu 1/11/18
409	250131	BRIDGE DECK CONSTRUCTION WITH TEMPORARY DRAINAGE WORKS	141 days	10 days	Thu 1/11/18	Thu 21/3/19	0 days	0%	408,394	Thu 1/11/18
410	250132	ABUTMENT AND MOVEMENT JOINT AT GRID 3	45 days	4 days	Thu 1/11/18	Sat 15/12/18	96 days	0%	409SS	Thu 1/11/18
411	250133	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Fri 22/3/19	Sun 31/3/19	0 days	0%	409	Fri 22/3/19
412	250134	END DATE OF 3RD DRY SEASON	0 days		Sun 31/3/19	Sun 31/3/19	0 days	0%	411	Sun 31/3/19
413	250135	RAMP	55 days	5 days	Fri 22/3/19	Wed 15/5/19	0 days	0%	409,410,383	Fri 22/3/19
414	250136	STEEL STRUCTURAL ROOF WORKS	60 days	5 days	Fri 22/3/19	Mon 20/5/19	0 days	0%	409,412FS-10 days	Fri 22/3/19
415	250137	EARTHWORKS AND DRAINAGE WORKS	45 days	4 days	Mon 1/4/19	Wed 15/5/19	0 days	0%	411	Mon 1/4/19
416	250138	ROAD WORKS	47 days	4 days	Thu 16/5/19	Mon 1/7/19	0 days	0%	415,413	Thu 16/5/19
417	250139	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	72 days	7 days	Sun 21/4/19	Mon 1/7/19	0 days	0%	409FS+30 days,414FS-3	Sun 21/4/19
418	250140	COMPLETION OF PORTION M	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	416,417	Mon 1/7/19
419	250141	COMPLETION OF SECTION W5	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	418	Mon 1/7/19
420	**260001**	**SECTION W6 (TM0.0 - 960)**	**701 days**		**Thu 30/6/16**	**Thu 31/5/18**	**0 days**	**56%**		**Thu 30/6/16**
421	260002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
422	260003	APPLICATION OF EXCAVATION PERMIT	300 days	10 days	Thu 30/6/16	Tue 25/4/17	0 days	100%	421SS	Thu 30/6/16
423	260004	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	300 days	10 days	Thu 30/6/16	Tue 25/4/17	34 days	80%	421SS	Thu 30/6/16
424	**260101**	**PORTION P**	**367 days**		**Mon 29/5/17**	**Thu 31/5/18**	**0 days**	**0%**		**Mon 29/5/17**
425	260102	POSSESION OF SITE	0 days		Mon 29/5/17	Mon 29/5/17	0 days	0%	421FS+334 days,423	Mon 29/5/17
426	260103	DOCUMENT SUBMISSION	60 days	5 days	Tue 30/5/17	Fri 28/7/17	0 days	0%	425,422,423	Tue 30/5/17
427	260104	DRAINAGE WORKS	157 days	10 days	Sat 29/7/17	Mon 1/1/18	0 days	0%	426	Sat 29/7/17
428	260105	ROAD WORKS	150 days	10 days	Tue 2/1/18	Thu 31/5/18	0 days	0%	427	Tue 2/1/18
429	260106	COMPLETION OF PORTION P	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	428	Thu 31/5/18
430	260107	COMPLETION OF SECTION W6	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	429	Thu 31/5/18
431	**270001**	**SECTION W7 (ST2.27 - 2.73, KW 0 - 1.35)**	**980 days**		**Thu 30/6/16**	**Wed 6/3/19**	**0 days**	**20%**		**Thu 30/6/16**
432	270002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	0%	2SS	Thu 30/6/16
433	**270101**	**PORTION J2, J3**	**730 days**		**Tue 7/3/17**	**Wed 6/3/19**	**0 days**	**20%**		**Tue 7/3/17**
434	***270102***	***INSTRUCTION TO EXECISE***	***0 days***		***Tue 7/3/17***	***Tue 7/3/17***	***0 days***	***100%***	***432***	***Tue 7/3/17***
435	270103	POSSESSION OF SITE (J2, J3)	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	434SS,432FS+250 days	Tue 7/3/17
436	270104	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Tue 7/3/17	Sat 2/9/17	0 days	80%	434SS	Tue 7/3/17
437	270105	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORIES HEIGHT TEMP. BLDG	110 days	2 days	Tue 7/3/17	Sat 24/6/17	100 days	0%	435SS	Tue 7/3/17
438	270106	INITIAL SURVEY	60 days	2 days	Tue 7/3/17	Fri 5/5/17	0 days	100%	435SS	Tue 7/3/17
439	270107	TREE SURVEY	90 days	2 days	Tue 7/3/17	Sun 4/6/17	30 days	67%	435SS	Tue 7/3/17



Task | Summary | External Milestone | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
Split | Project Summary | Inactive Task | Manual Task | Manual Summary | Critical | Deadline
Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | Critical Split

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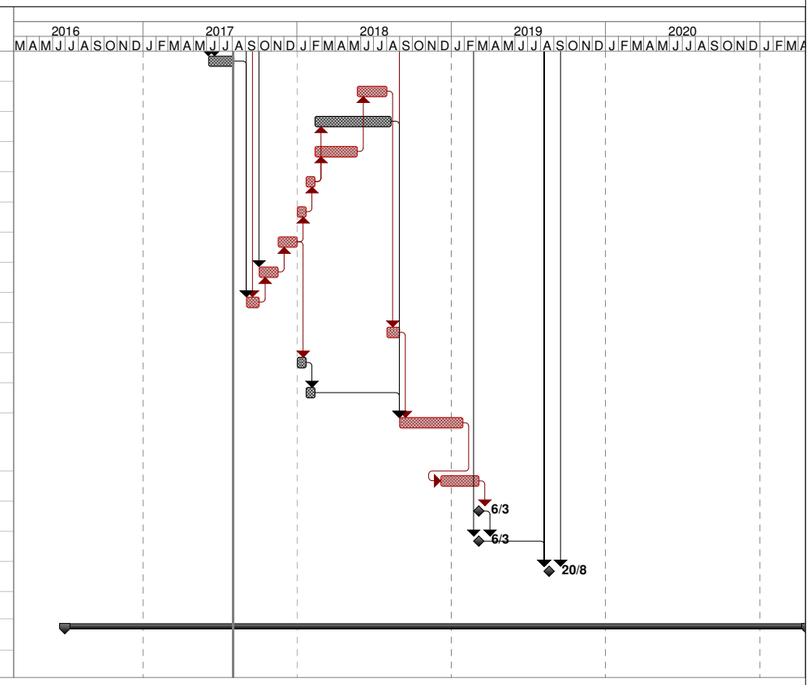
CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE
29 MAY 2017

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
440	270108	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	3 days	Mon 5/6/17	Thu 3/8/17	30 days	0%	439,438	Mon 5/6/17
441	270109	RW 46 (67M)	70 days	7 days	Wed 23/5/18	Tue 31/7/18	0 days	0%	443	Wed 23/5/18
442	270110	RW 47 (83 NOS OF SOILDER PILES)	180 days		Mon 12/2/18	Fri 10/8/18	20 days	0%	444	Mon 12/2/18
443	270110	RW 48 (110M)	100 days	5 days	Mon 12/2/18	Tue 22/5/18	0 days	0%	444	Mon 12/2/18
444	270111	RW 24A (20M)	21 days	2 days	Mon 22/1/18	Sun 11/2/18	0 days	0%	445	Mon 22/1/18
445	270112	RW 24B (18M)	21 days	2 days	Mon 1/1/18	Sun 21/1/18	0 days	0%	446	Mon 1/1/18
446	270113	RW 24C (82M)	45 days	7 days	Fri 17/11/17	Sun 31/12/17	0 days	0%	447	Fri 17/11/17
447	270114	RW 25 (83M)	45 days	7 days	Tue 3/10/17	Thu 16/11/17	0 days	0%	448,437	Tue 3/10/17
448	270115	RW 26 (20M)	30 days	2 days	Sun 3/9/17	Mon 2/10/17	0 days	0%	438,440,436	Sun 3/9/17
449	270116	STREAM DECKING D8	30 days	2 days	Wed 1/8/18	Thu 30/8/18	0 days	0%	441	Wed 1/8/18
450	270117	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Mon 1/1/18	Sun 21/1/18	200 days	0%	446	Mon 1/1/18
451	270118	DEMOLITION OF EXISTING STRUCTURE	21 days	3 days	Mon 22/1/18	Sun 11/2/18	200 days	0%	450	Mon 22/1/18
452	270119	EARTHWORKS AND DRAINAGE WORKS	150 days	10 days	Fri 31/8/18	Sun 27/1/19	0 days	0%	451,449,442,436	Fri 31/8/18
453	270120	ROAD WORKS	90 days	7 days	Fri 7/12/18	Wed 6/3/19	0 days	0%	452FS-52 days	Fri 7/12/18
454	270121	COMPLETION OF PORTION J	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	453	Wed 6/3/19
455	270122	COMPLETION OF SECTION W7	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	454,435FS+730 days	Wed 6/3/19
456	270123	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	455,430,419,375,356,328	Tue 20/8/19
457										
458	**300001**	**LANDSCAPING SOFTWORKS AND ESTABLISHMENT WORK**	**1757 days**		**Thu 30/6/16**	**Wed 21/4/21**	**0 days**	**0%**		**Thu 30/6/16**
503										



Task		Summary		External Milestone		Inactive Summary		Manual Summary Rollup		Finish-only		Progress		
Split		Project Summary		Inactive Task		Manual Task		Manual Summary		Critical		Deadline		
Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		Critical Split				

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

APPENDIX B
ACTION AND LIMIT LEVELS FOR NOISE

Appendix B - Action and Limit Levels

Table B-1 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX C
COPIES OF CALIBRATION CERTIFICATES

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 816, 1516 & 1701, Technology Park,
18 On Lai Street, Shatin, N.T, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	C/N/160826A
Date of Issue:	2016-08-29
Date Received:	2016-08-26
Date Tested:	2016-08-26
Date Completed:	2016-08-29
Next Due Date:	2017-08-28

ATTN: **Mr. W.K. Tang**

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Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21455
Microphone No.	: 43730
Equipment No.	: N-08-07

Test conditions:

Room Temperatre	: 25 degree Celsius
Relative Humidity	: 57%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 1516, 1701 & 1716, Technology Park,
18 On Lai Street, Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	C/N/160819C
Date of Issue:	2016-08-22
Date Received:	2016-08-19
Date Tested:	2016-08-19
Date Completed:	2016-08-22
Next Due Date:	2017-08-21

ATTN: **Mr. W.K. Tang**

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21460
Microphone No.	: 43679
Equipment No.	: N-08-09

Test conditions:

Room Temperatre	: 24 degree Celsius
Relative Humidity	: 58%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

WELLAB LIMITED
Rms 1516, 1701 & 1716, Technology Park,
18 On Lai Street, Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	C/N/160919
Date of Issue:	2016-09-21
Date Received:	2016-09-19
Date Tested:	2016-09-19
Date Completed:	2016-09-21
Next Due Date:	2017-09-20

ATTN: **Mr. W.K. Tang**

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 977
Serial No.	: 45467
Microphone No.	: 62838
Equipment No.	: N-08-13

Test conditions:

Room Temperatre	: 22 degree Celsius
Relative Humidity	: 56%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

WELLAB LIMITED
Rms 1516, 1701 & 1716, Technology Park,
18 On Lai Street, Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	C/N/160930A
Date of Issue:	2016-10-03
Date Received:	2016-09-30
Date Tested:	2016-09-30
Date Completed:	2016-10-03
Next Due Date:	2017-10-02
Page:	1 of 1

ATTN: **Mr. W.K. Tang**

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24803
Equipment No.	: N-09-03

Test conditions:

Room Temperatre	: 25 degree Celsius
Relative Humidity	: 60%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 1516, 1701 & 1716, Technology Park,
18 On Lai Street, Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	C/N/160930B
Date of Issue:	2016-10-03
Date Received:	2016-09-30
Date Tested:	2016-09-30
Date Completed:	2016-10-03
Next Due Date:	2017-10-02

ATTN: **Mr. W.K. Tang**

Page: 1 of 1

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24791
Equipment No.	: N-09-04

Test conditions:

Room Temperatre	: 25 degree Celsius
Relative Humidity	: 60%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 816, 1516 & 1701, Technology Park,
18 On Lai Street, Shatin, N.T. Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	C/N/161104/1
Date of Issue:	2016-11-07
Date Received:	2016-11-04
Date Tested:	2016-11-04
Date Completed:	2016-11-07
Next Due Date:	2017-11-06

ATTN: **Mr. W.K. Tang**

Page: 1 of 1

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2326353
Equipment No.	: N-02-01

Test conditions:

Room Temperatre	: 21 degree Celsius
Relative Humidity	: 62 %

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse

PATRICK TSE
Laboratory Manager

APPENDIX D
ENVIRONMENTAL MONITORING SCHEDULES

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction
Impact Noise Monitoring Schedule (July 2017)

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

Noise Monitoring Station

N1 - HKMLC Wong Chan Sook Ying Memorial School
N2 - Bethel High School
N3 - No. 159 Mai Po San Tsuen
N5 - Dills Corner Garden Block 2
N6 - Home of Loving Faithfulness
N7 - Village House in Shek Wu Wai

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction
Tentative Impact Noise Monitoring Schedule (August 2017)

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

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Noise Monitoring Station

N1 - HKMLC Wong Chan Sook Ying Memorial School
N2 - Bethel High School
N3 - No. 159 Mai Po San Tsuen
N5 - Dills Corner Garden Block 2
N6 - Home of Loving Faithfulness
N7 - Village House in Shek Wu Wai

APPENDIX E
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix E - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location N1 - HKMLC Wong Chan Sook Ying Memorial School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4-Jul-17	10:00	Cloudy	63.1	65.6	58.5	62.2	55.8
12-Jul-17	9:15	Sunny	61.8	64.2	58.1		61.8 Measured ≦ Baseline
18-Jul-17	9:20	Cloudy	61.9	63.7	57.8		61.9 Measured ≦ Baseline
24-Jul-17	9:00	Sunny	62.7	64.2	57.3		53.1

Location N2 - Bethel High School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4-Jul-17	10:50	Cloudy	60.6	63.2	57.2	55.2	59.1
12-Jul-17	10:00	Sunny	56.3	57.7	54.4		49.8
18-Jul-17	10:05	Cloudy	59.7	61.9	56.8		57.8
24-Jul-17	9:15	Sunny	57.2	58.9	55.4		52.9

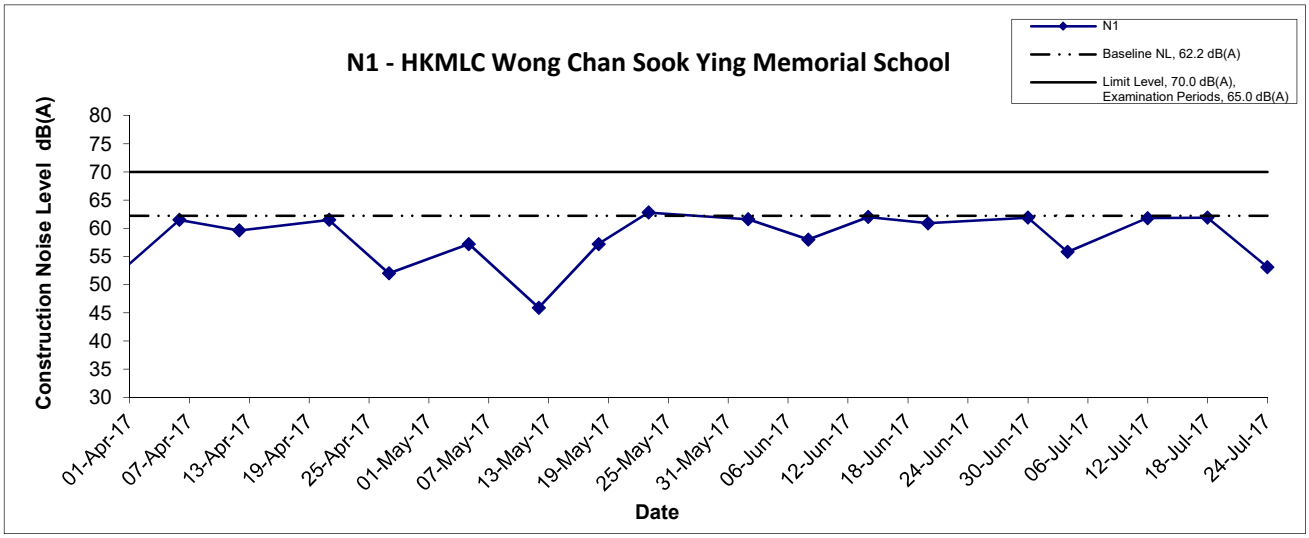
Location N3 - No.159 Mai Po San Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4-Jul-17	9:00	Cloudy	73.6	75.9	68.9	68.8	71.9
12-Jul-17	10:45	Sunny	73.4	75.1	68.2		71.6
18-Jul-17	10:50	Cloudy	72.6	74.0	69.9		70.3
24-Jul-17	9:30	Sunny	71.2	73.0	66.9		67.5

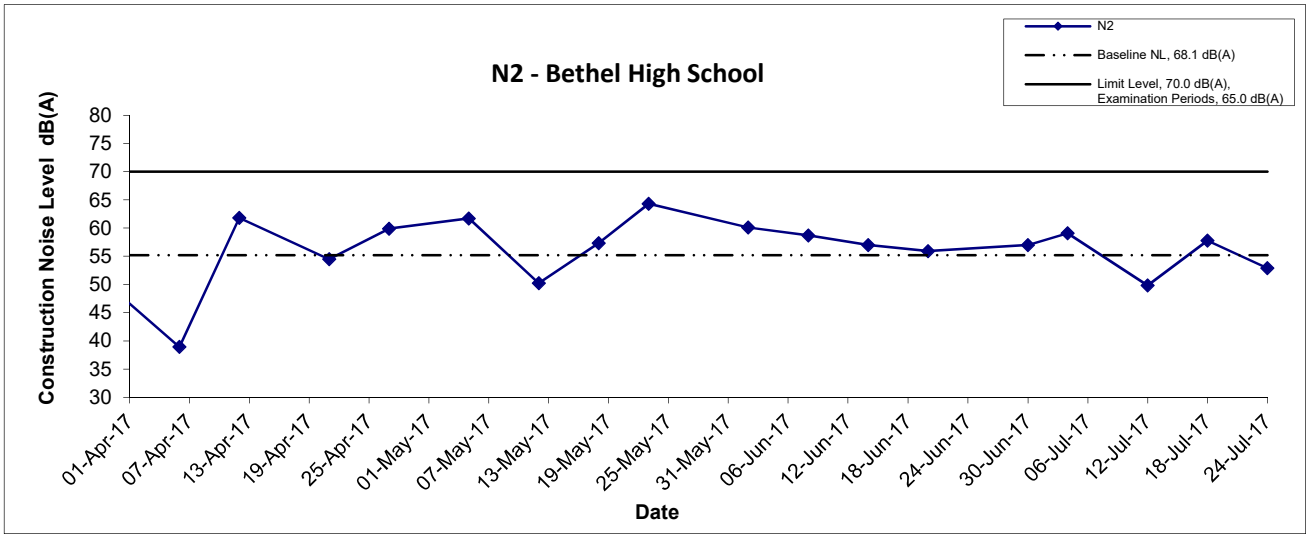
Location N5 - Block 2, Dills Corner Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4-Jul-17	14:50	Cloudy	74.1	76.2	69.5	70.7	71.4
12-Jul-17	13:00	Sunny	70.5	72.5	66.9		70.5 Measured ≦ Baseline
18-Jul-17	14:20	Cloudy	72.6	74.8	70.1		68.1
24-Jul-17	10:30	Sunny	73.6	75.9	68.4		70.5

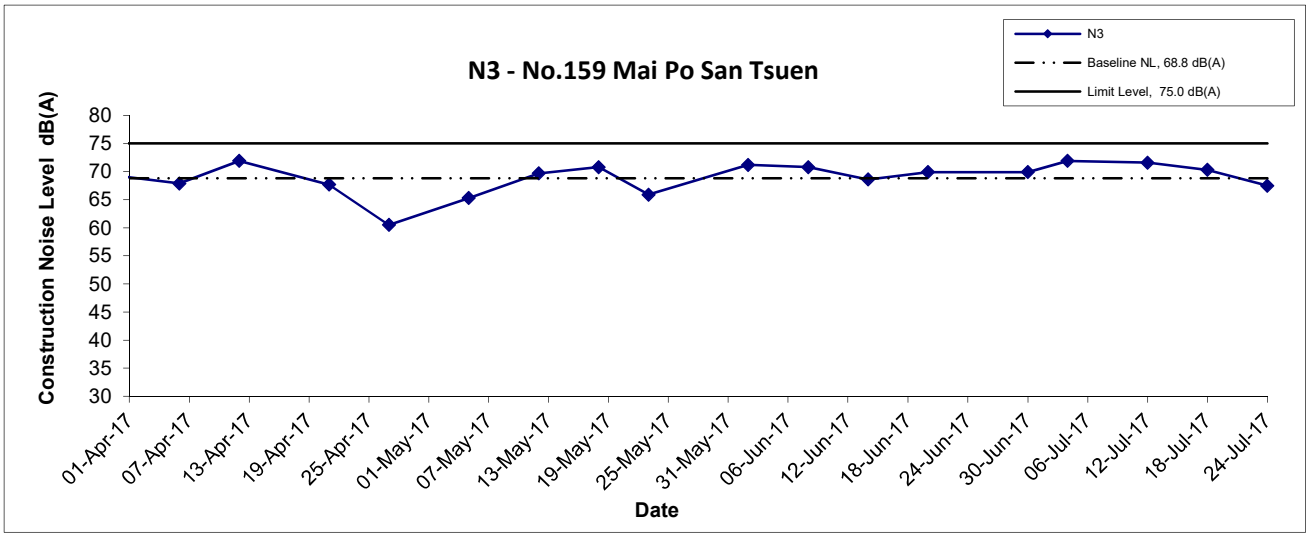
Location N6 - Home of Loving Faithfulness							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4-Jul-17	14:00	Cloudy	71.7	73.4	67.5	72.0	71.7 Measured ≦ Baseline
12-Jul-17	13:45	Sunny	71.4	73.0	69.1		71.4 Measured ≦ Baseline
18-Jul-17	15:10	Cloudy	73.5	75.2	70.4		68.2
24-Jul-17	11:25	Sunny	73.4	75.2	70.1		67.8

Location N7 - Village House in Shek Wui Wai							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4-Jul-17	13:00	Cloudy	72.3	75.8	68.7	70.7	67.2
12-Jul-17	11:30	Sunny	71.7	75.0	66.5		64.8
18-Jul-17	11:30	Cloudy	73.7	75.2	70.8		70.7
24-Jul-17	11:00	Sunny	74.5	75.1	69.4		72.2

Noise Levels

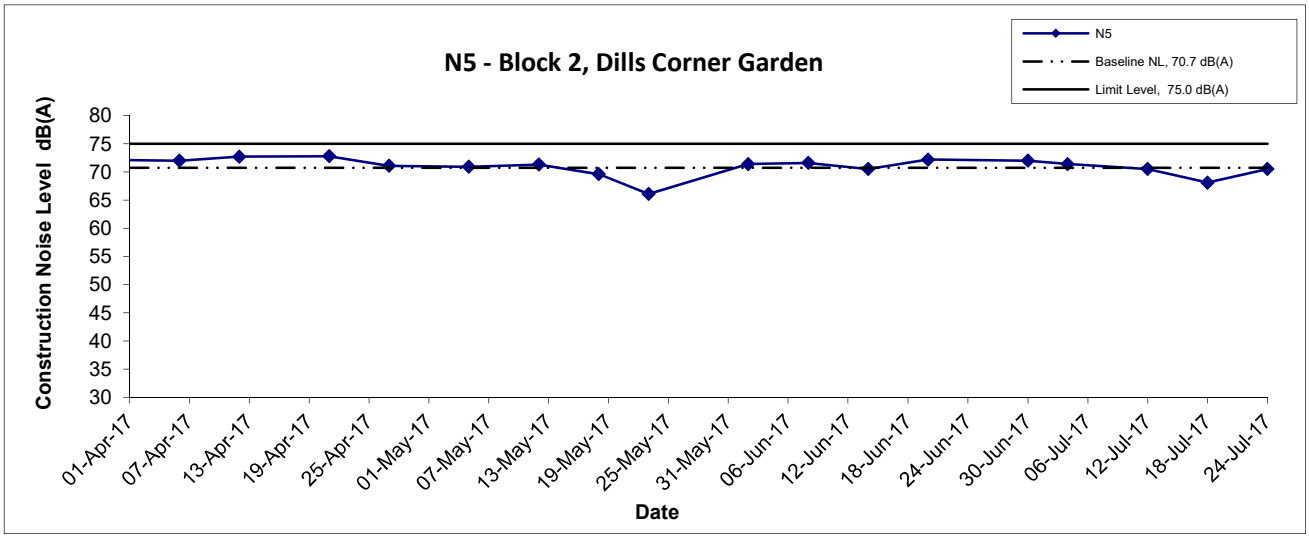


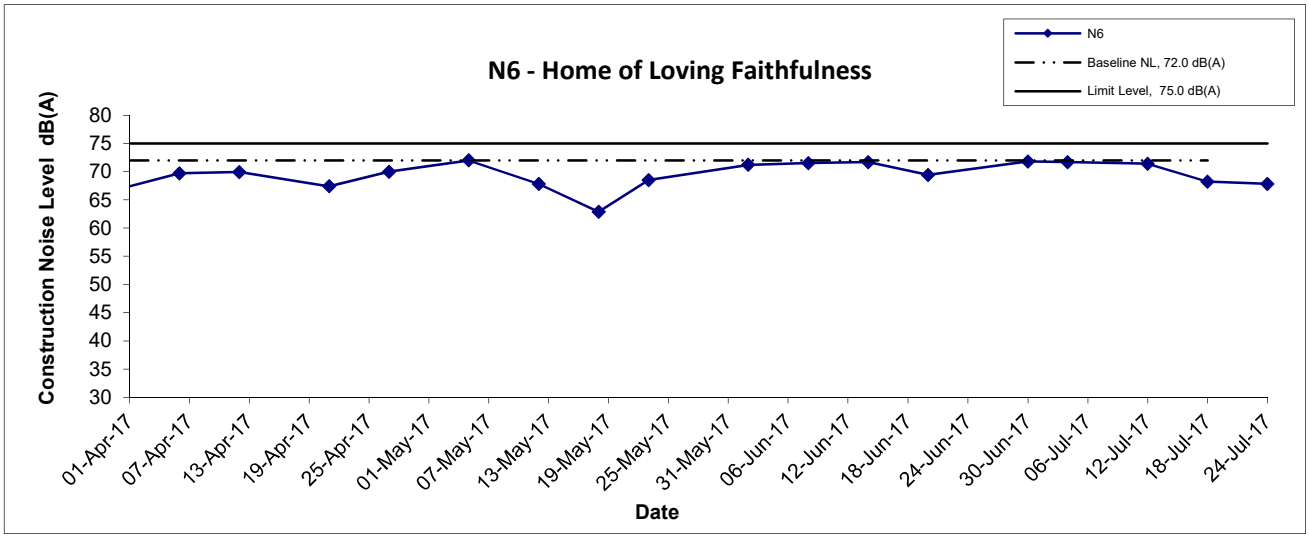


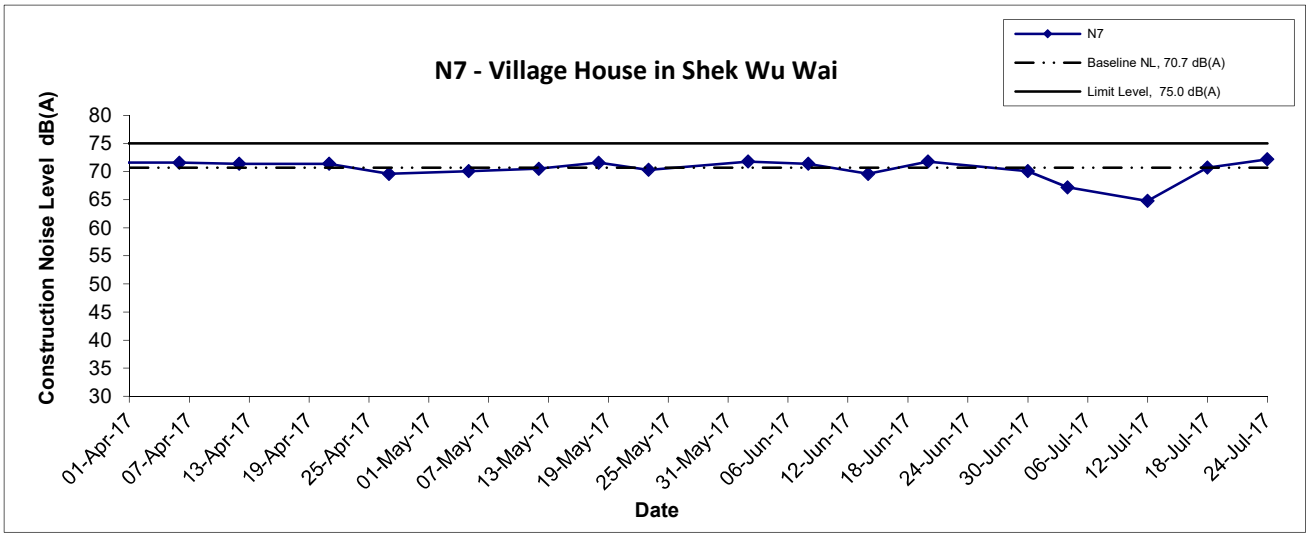


Title: Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Jul 17	Project No.: MA16036 Appendix: E	CINOTECH

Noise Levels







Title: Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Jul 17	Project No.: MA16036 Appendix: E	CINOTECH

APPENDIX F
SUMMARY OF EXCEEDANCE

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix F – Summary of Exceedance

Exceedance Report for Contract No. YL/2015/01 – Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

(A) Exceedance Report for Construction Noise
(NIL in the reporting month)

APPENDIX G
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	170705
Date	5 July 2017 (Wednesday)
Time	09:30-12:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
170705-R03	***B. Water Quality*** • The Contractor was reminded to regularly maintain wheel washing bays at Portion A and K to ensure satisfactory water quality for wheel washing.	B 10 iii & iv
170705-O01	***C. Air Quality*** • Public pedestrian road next to Portion E should be cleared of dust and kept clean.	C 3
	D. Construction Noise Impact • No environmental deficiency was identified during site inspection.	
170705-O02	***E. Waste / Chemical Management*** • Drip trays should be provided for chemical containers in Portion I to prevent leakage.	E 8
170705-F04	• General refuse found at Portion C should be properly cleared.	E 1i & 1ii
	F. Ecology and Fisheries • No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual • No environmental deficiency was identified during site inspection.	
	H. Permits/Licences • No environmental deficiency was identified during site inspection.	
	I. Others • No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kelvin Koo		5 July 2017
Checked by	Dr. Priscilla Choy		5 July 2017

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	170712
Date	12 July 2017 (Wednesday)
Time	09:30-12:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
170712-R01	***B. Water Quality*** • The Contractor was reminded to regularly maintain the wheel washing bay at Portion A and I to ensure satisfactory water quality for wheel washing.	B 10 iii & iv
170712-O02	***C. Air Quality*** • Stockpiles at Portion A should be properly covered with impervious materials for dust suppression.	C 7
	D. Construction Noise Impact • No environmental deficiency was identified during site inspection.	
170712-O03	***E. Waste / Chemical Management*** • General refuse was found at Portion E should be properly cleared.	E 1i & ii
	F. Ecology and Fisheries • No environmental deficiency was identified during site inspection.	
170712-O04	***G. Landscape & Visual*** • Retained tree at Portion E is needed to be well maintained.	G 1
	H. Permits/Licences • No environmental deficiency was identified during site inspection.	
	I. Others • No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kinson Poon		12 July 2017
Checked by	Dr. Priscilla Choy		12 July 2017

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	170718
Date	18 July 2017 (Tuesday)
Time	10:00-11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
170718-R03	*B. Water Quality* • Sandbag bund at Portion I should be enhanced to prevent silty runoff entering public drainage.	B 12 ii
170718-R01	*C. Air Quality* • The sheeting for covering the stockpiles at Portion K needs to be replaced/repaired	C 7
	D. Construction Noise Impact • No environmental deficiency was identified during site inspection.	
170718-R02 170718-O04	*E. Waste / Chemical Management* • General refuse was found at Portion L. Regular cleaning is needed • There are bottles of chemical directly placed on the soil surface without drip tray at Portion I.	E 1i & ii E 2i
	F. Ecology and Fisheries • No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual • No environmental deficiency was identified during site inspection.	
	I. Others • No environmental deficiency was identified during site inspection.	

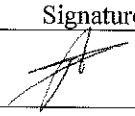
	Name	Signature	Date
Recorded by	Kinson Poon		18 July 2017
Checked by	Dr. Priscilla Choy		18 July 2017

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	170727
Date	27 July 2017 (Thursday)
Time	14:00-17:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
170727-R01	***B. Water Quality*** • No environmental deficiency was identified during site inspection ***C. Air Quality*** • The sheeting for covering the stockpiles at Portion K needs to be replaced/repaired ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection. ***E. Waste / Chemical Management***	C 7
170727-R02	• Remove the stagnant water in the drip tray regularly. ***F. Ecology and Fisheries*** • No environmental deficiency was identified during site inspection. ***G. Landscape & Visual*** • No environmental deficiency was identified during site inspection. ***I. Others*** • No environmental deficiency was identified during site inspection.	E 9

	Name	Signature	Date
Recorded by	Kinson Poon		27 July 2017
Checked by	Dr. Priscilla Choy		27 July 2017

APPENDIX H
EVENT AND ACTION PLANS

Appendix H - Event and Action Plans

Event and Action Plan for Construction Noise

EVENT	ACTION			
	ET LEADER	**IEC**	**ER**	**CONTRACTOR**
Action Level being exceeded	1. Notify IC(E) and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IC(E) and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IC(E); 2. Implement noise mitigation proposals.
Limit Level being exceeded	1. Notify IC(E), ER, EPD and Contractor; 2. Identify source; 3. Repeat measurement to confirm findings 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IC(E), ER and EPD the causes & actions taken for the exceedances;	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented; 5. If exceedance continues, consider what portion of the	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposal if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

	7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring		work is responsible and instruct the Contractor to stop that portion of the work until the exceedance is abated.	

APPENDIX I
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)

Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.3.6.2	S.3.2.3	● All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet	^
Construction Noise Impact			
S5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CH-MP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within “Recreation” (“REC”) zone and “Residential (Group C)” Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME): - mini excavator - mobile crane - dump truck - hand-held electric circular saw - concrete lorry mixer - lorry - vibratory poker - asphalt paver - crane mounted auger - road roller - road ripper, excavator mounted	^
S.5.6.2 Table 5-8	S.4.2.19	Noise barrier in the form of site hoarding shall be used for the following PMEs where practicable: - mini excavator - mobile crane - dump truck - hand-held electric circular saw - bar bender - vibrating hammer - generator - concrete lorry mixer - lorry - vibratory poker - asphalt paver - compactor - road roller - crane mounted auger	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		- grout mixer - grout pump - drill - road ripper, excavator mounted	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PMEs where practicable: - air compressor - hand-held breaker	N/A(1)
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m^2.	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	^
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures intended to be used at the site	^
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented	^
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	^
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided	^
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.5.6.8	S.4.2.19	The Contractor shall liaise with the schools that are located near the works sites regarding their examination period and schedule the noisy works to avoid the examination period as far as possible	^
Construction Water Quality			
S.6.6.1	S.5.2.4	Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage	^
S.6.6.1	S.5.2.4	Surface run-off from the construction sites will be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps and sediment settling basins. This is important for works immediately along the Kam Tin River, Ngau Tam Mei Main Drainage Channel, River Beas and Shek Sheung River	^
S.6.6.1	S.5.2.4	Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above-mentioned facilities	#
S.6.6.1	S.5.2.4	Existing silt removal facilities, channels and manholes along roads and pedestrian walkways will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	^
S.6.6.1	S.5.2.4	Other manholes (including any newly constructed ones) will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system	^
S.6.6.1	S.5.2.4	Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system	#
S.6.6.1	S.5.2.4	Where possible, works entailing soil excavation will be minimized during the rainy season (i.e. April to September);	^
S.6.6.1	S.5.2.4	Where applicable, final earthworks surfaces/ slopes will be well compacted and	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		hydro-seeded following completion to prevent erosion	
S.6.6.1	S.5.2.4	During construction works, chemical toilets will be provided for the use of site staff. These will be provided by a licensed contractor, who will be responsible for appropriate disposal and maintenance of the effluent	^
S.6.6.1	S.5.2.4	Works adjacent to the fishponds near Mai Po San Tsuen should be avoided as far as possible during the wet season to avoid runoff into the fishponds	^
S.6.6.1	S.5.2.4	Wastewater from site facilities (such as toilets) should be discharged to foul sewer, where available. Chemical toilets will be considered where there is no foul sewer connection. There is not expected to be a temporary canteen.	^
S.6.6.1	S.5.2.4	All site discharges within Water Control Zones must comply with the terms and conditions of a valid discharge licence issued by EPD	^
S.6.6.1	S.5.2.4	Vehicle wheel washing facilities should be provided, where applicable, at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles are leaving the site area	#
S.6.6.1	S.5.2.4	Section of the road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains	^
S.6.6.1	S.5.2.4	The project may occasionally involve the handling of fuel and generates chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed areas and provided with locks	^
S.6.6.1	S.5.2.4	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spilled oil, fuel or chemicals from reaching the receiving waters	^
S.6.6.1	S.5.2.4	Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas	N/A
S.6.6.1	S.5.2.4	Chemical waste arising from the site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	S.5.2.7 (Stage 1 only)	The construction work of cycle bridge at Shek Sheung River is not recommended to be carried out during wet seasons (April to October), and the dry weather flow will be diverted to avoid entering the works area. In order to further protect the river water quality from disturbance, the construction work especially excavation works, will be surrounded by cofferdams to ensure the works will be carried out in a dry condition to prevent water pollution to the river.	^
N/A	S.5.2.4 (Stage 2 only)	Stream decking is recommended to be carried out during dry weather condition. To prevent disturbance to the river water quality, measures will be taken to ensure the works to be carry out in a dry condition to prevent water pollution to the river, such as sandbag barriers.	^
N/A	S.5.2.6 (Stage 2 only)	Based on the current available information, the tentative programmes of some construction works for the Agreement No. CE 57/2011 (DS) Drainage Improvement at Northern NT - Package A Drainage Improvement Works in San Tin (Remaining Works) - Investigation (DIST) and the Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT) projects may overlap with Stage 2 cycle track construction works. It is recommended that the Contractor should liaise with the project contractor(s) of the DIST and the NSWCT projects to schedule the construction works and allow programme phrasing to avoid major concurrent activities to be undertaken simultaneously in the vicinity.	^
Construction Waste Management			
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER's approval. The WMP shall include monthly and yearly Waste Flow Tables ("WFT") that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	^
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	
S.7.4.1	S.6.2.6	● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site	^
S.7.4.1	S.6.2.6	● Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation	^
S.7.4.1	S.6.2.6	● All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance)	^
S.7.4.1	S.6.2.6	● The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence	^
S.7.4.1	S.6.2.6	● In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	● Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;	#
S.7.4.1	S.6.2.6	● A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works;	#
S.7.4.1	S.6.2.6	● All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and	^
S.7.4.1	S.6.2.6	● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	^
S.7.4.1	S.6.2.6	● The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction.	^
Land Contamination			
S.8.7.2 – S.8.7.3	S.7.2.2	Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD's approval.	
S.8.7.5	S.7.3.1	The following control measures should be implemented when handling identified contaminated materials: ▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; ▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; ▪ Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; ▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants.	N/A
S.8.7.5	S.7.3.1	Management of Contaminated Soils ▪ Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers; ▪ The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site; ▪ All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area; ▪ Any vehicles transporting the material shall be suitably covered to limit potential dust emissions; ▪ Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
Ecological & Fisheries Impact			
S.9.11.4	S.8.2.2	Prior to tree felling, survey inspections should be made for their suitability for roosting bats. Once these trees have been highlighted, then appropriate checks of each tree for bats should be made prior to removal as a precautionary measure.	^
S.9.11.7	S.8.2.3 (Stage 1 only)	*In situ* compensation planting at the Information Kiosk and R9 should occur to provide continuing function of the bamboo and plantation (see Figure 8-1 of EM&A Manual for Stage 1 Works (Year 2015)). It is recommended that the Information Kiosk and Resting Station R9 should be designed sympathetically to the natural surroundings. Compensation planting along the Sheung Yue River and Shek Sheung River including at R9 and Information Kiosk could be implemented as appropriate.	N/A
S.9.11.17 – S.9.11.19	S.8.2.4 (Stage 1) S.8.2.3 (Stage 2)	For the Kam Tin section and the Long Valley section of the Project, construction works shall not be carried out during the wet season (April to October) which is considered to have no significant impact to wildlife and to avoid the breeding season of Greater Painted-snipes at Long Valley. This is also to prevent any site run-off to adjacent water channels and fishponds including those fishponds along San Tin Tsuen Road.	^
S.9.11.23	S.8.2.4 (Stage 2 only)	Construction of the section in the vicinity of Mai Po Village SSSI shall be undertaken beyond the recognised breeding seasons for ardeids in Hong Kong to prevent any potential disturbance to the nesting birds, i.e., from September to February.	^
-	S.8.2.5 (Stage 1 only)	In order to avoid any adverse impact to the healthiness of the bamboo groove from dust-coating on leave next to the R9 and hence affect the breeding habitat of the very rare Dark Brown Ace, a dust barrier should be installed between the bamboo and the construct site.	N/A
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		be implemented practicable to minimize the noise disturbance to the foraging ardeids.	
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	^
S.10.5.4	S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	^
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	The following good work practices are recommended: ▪ Avoid soil storage against trees; ▪ Fence off any potentially ecologically sensitive areas; ▪ Delineation of works area to prevent encroachment onto adjacent habitats; ▪ Reinstatement of habitat after works; ▪ No on-site burning of waste;	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		▪ Waste and refuse in appropriate receptacles; ▪ Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible; ▪ Regular ecological checks; and ▪ Silt/ Sediment/ Oil traps for drainage to prevent site run-off	
Cultural Heritage Impact			
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
Landscape and Visual			
Detailed Design Phase			
Table 12-11	CP1	A detailed tree survey to be carried out by the IDC Consultant during the detailed design stage. The recommendations of the preliminary tree survey shall be reviewed and confirmed during the detailed survey. Should tree felling be required, tree felling application is required in accordance with DEVB Technical Circular (Works) No. 10/2013 Tree Preservation	^
S.12.9.3	CP6	It has been agreed that the proposed landscape areas under DSD's 4215DS project which falls within the cycle track works area will be implemented by Project proponent of this Project in form of roadside amenity areas after completion of the cycle track. During the detailed design, the works programme of this Project shall be coordinated with the above-mentioned DSD project in order to avoid abortive planting works and impact on landscape resources between the interface of different public works. The proposed landscape areas under 4215DS falled within the cycle track works area shall be incorporated in the final landscape design of this Project.	^
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree Survey Report and approval from relevant departments at that stage	
Construction Phase			
Table 12-11	CP1.1	To retain trees, which have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.	^
	CP1.2	Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	#
	CP1.3	Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area.	^
	CP1.4	Phased segmental root pruning for trees to be retained and transplanted over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case.	^
	CP1.5	Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	^
	CP1.6	The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	^
	CP1.7	The rectification and repair of damaged vegetation following the construction phase to its original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected	N/A
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		implementation of protection measures and health monitoring throughout the construction period	
	CP1.9	Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	N/A
	CP2.0	The tree preservation works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract documents.	^
	CP2.1	Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of retention stored for re-use.	^
	CP2.2	The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered with a waterproof covering to prevent erosion.	^
	CP2.3	The stockpile should be turned over on a regular basis to avoid acidification and the degradation of the organic material, and reused after completion. Alternatively, if this is not practicable, it should be considered for use elsewhere, including other projects.	^
	CP3.1	Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.	N/A
	CP3.2	Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of site lighting to prevent light spillage.	^
	CP3.3	Screen the works area during the construction phase through the use of decorative hoarding along the site boundary facing adjacent VSRs	^
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase	^
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	^
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents	
	CP5.1	The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	^
	CP5.2	The implementation program should reserve enough time for advance tree transplanting preparation.	^

Remarks:	EM&A Manual for Stage 1 Works under EP-450/2013/A (App No.: VEP-478/2015) EM&A Manual for Stage 2 Works under EP-501/2015 (App No.: AEP-501/2015)	
	^ Compliance of mitigation measure;	X Non-compliance of mitigation measure;
	N/A Not Applicable at this stage; N/A(1) Not observed;	• Non-compliance but rectified by the contractor;
	* Recommendation was made during site audit but improved/rectified by the contractor.	# Recommendation was made during site audit but not yet improved/rectified by the contractor.

APPENDIX J
SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFIATION OF SUCCESSFUL PROSECUTION

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix J – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: July 2017

Contract No. YL/2015/01
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint/warning/summon and prosecution were received in the reporting period.

APPENDIX K
SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Name of Department: CEDD Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for __2017__ (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06
Feb	0.02	-	-	-	0.02	-	0.05	0.05	0.05	-	0.01
Mar	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02
Apr	0.65	-	-	-	0.65	-	0.05	0.05	0.05	-	0.02
May	0.79	-	-	-	0.79	-	0.05	0.05	0.05	-	0.01
June	1.63	-	-	-	1.63	-	0.05	0.05	0.05	-	0.02
July	1.25	-	-	-	1.25	-	0.05	0.05	0.05		0.01
Sub-total	5.53	-	-	-	5.53	0.493	0.35	0.35	0.35	-	0.15
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
Total	5.53	-	-	-	5.53	0.493	0.35	0.35	0.35	-	0.15

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
5	2	1	1	1	10	3	3	1	1	3

*Remark: Figure to be revised if necessary

Notes:

(1) The performance targets are given in ETWB Technical Circular PS Clause 6(14).
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ETWB Technical Circular PS Clause 5(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].