



**MANNINGS**  
(Asia) Consultants Limited

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

20 April 2020

Our Ref. : YL/2015/01)/M45/150/04993  
Your Ref. :

**By Hand**

The Director  
Environmental Protection Department  
Environmental Impact Assessment Ordinance Register Office  
27/F of Southorn Centre  
130 Hennessy Road  
Wan Chai

Dear Sir,

**Contract No. YL/2015/01**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

**Submission of Monthly Environmental Monitoring and Audit (EM&A) Report (March 2020)**

Pursuant to Clause no. 3.5 of the Environmental Permits Nos. EP-450/2013/A for “*Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River (Stage 1)*” and EP-501/2015 for “*Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River (Stage 2)*”, we are pleased to submit herewith the Monthly EM&A Report (March 2020) with 3 hard copies and 1 electronic copy for the captioned project from 1 March 2020 to 31 March 2020 for your perusal and retention.

Please note that the above Monthly EM&A Report has certified by the ET Leader (CINOTECH) and verified by the IEC (ANewR) as having complied with the requirements of the EM&A Manual before the submission.

Should you require any further information, please contact the undersigned at 9374 0619.

Yours faithfully,  
For and on behalf of Mannings (Asia) Consultants Limited

Mole TAM  
Senior Resident Engineer

MT/nk

Encl.

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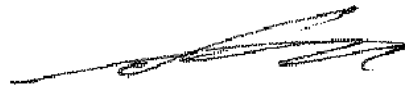
# Civil Engineering and Development Department

**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)**

**March 2020**

Approved By



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Mr. KS Lee  
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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## EXECUTIVE SUMMARY

### Introduction

1. This is the 41<sup>st</sup> 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 March 2020.
2. During the reporting month, the major site activities undertaken in the reporting month included:
 

Portion A	-	General Cleaning
Portion B	-	Internal Finishing & E&M Works, Construction of Resting Station R6, Installation of Traffic Aids, Installation of Structural frame of Roofing
Portion C	-	Installation of water point
Portion D	-	Construction of U-Channel, Installation of Traffic Aids
Portion E	-	Laying Road Kerb, Paving Block, Construction of Retaining Wall D5, Laying Bituminous for Cycle Track
Portion F	-	Construction of Drainage Pipe, Construction of RW44
Portion G	-	Installation of Railing
Portion H	-	Construction of Drainage Pipe, Laying Road Kerb
Portion I	-	Construction of U-channel in Subway D, Internal Finishing, Installation of Structural frame of Roofing
Portion J	-	Construction of Drainage Pipe, Laying of Road Kerb, Laying bituminous for Cycle Track
Portion K	-	Construction of additional concrete pavement
Portion M	-	Installation of Traffic Aids
Portion N	-	Construction of Drainage

### 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	---

No complaint was received in this reporting month.

**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)
  - Discharge License
    - WT00028748-2017, WT00027672-2017, WT00027661-2017, WT00027606-2017, WT00027510-2017, WT00027509-2017, WT00027603-2017, WT00027605-2017, WT00027508-2017, WT00027834-2017, WT00028431-2017, WT00027607-2017, WT00028850-2017, WT00030236-2018, WT00034612-2019
  - Chemical Waste Producers
    - No.: WPN5213-524-K3261-01

**Future Key Issues**

7. The future 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 on-site.

## 1 INTRODUCTION

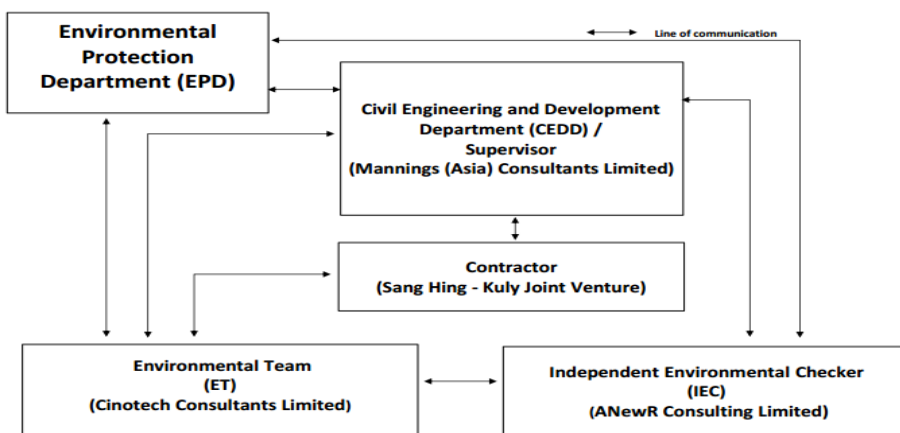
### Background

- 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 23<sup>rd</sup> November 2016. This is the 41<sup>st</sup> Monthly EM&A Report summarizing the EM&A works for the Project during March 2020.

### 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	Mr. KS Lee	2151 2091	3107 1388
		Ms. Betty Choi	2151 2072	
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:

- Portion A - General Cleaning
- Portion B - Internal Finishing & E&M Works, Construction of Resting Station R6, Installation of Traffic Aids, Installation of Structural frame of Roofing
- Portion C - Installation of water point
- Portion D - Construction of U-Channel, Installation of Traffic Aids
- Portion E - Laying Road Kerb, Paving Block, Construction of Retaining Wall D5, Laying Bituminous for Cycle Track
- Portion F - Construction of Drainage Pipe, Construction of RW44
- Portion G - Installation of Railing

- Portion H - Construction of Drainage Pipe, Laying Road Kerb
- Portion I - Construction of U-channel in Subway D, Internal Finishing, Installation of Structural frame of Roofing
- Portion J - Construction of Drainage Pipe, Laying of Road Kerb, Laying bituminous for Cycle Track
- Portion K - Construction of additional concrete pavement
- Portion M - Installation of Traffic Aids
- Portion N - Construction of Drainage

1.10 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	<ul style="list-style-type: none"> <li>• Sufficient watering of the works site with active dust emitting activities</li> <li>• Properly cover the stockpiles</li> <li>• On-site waste sorting and implementation of trip ticket system</li> <li>• Appropriate desilting/sedimentation devices provided on site for treatment with valid Discharge License before discharge</li> <li>• Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall</li> <li>• Use of quiet plant and well-maintained construction plant</li> <li>• Provide movable noise barrier</li> <li>• Proper wheel washing for construction vehicles before leaving the site</li> <li>• Provide sufficient mitigation measures as recommended in Approved EM&amp;A Manual/Lease requirement</li> </ul>

### 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 March 2020.

## **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** show 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 No.	Qty.
Integrating Sound Level Meter/ Sound & Vibration Analyser	SVAN 979 / SVAN 957	2
Acoustic Calibrator	SV30A	1

## 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 <sub>eq</sub> (30 min.) dB(A) L <sub>10</sub> (30 min.) dB(A) L <sub>90</sub> (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<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> 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 were 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 4.5**.
- 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:

**Table 4.4 Other Noise Sources Identified Which Might Affect the Noise Monitoring Results**

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 4.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations**

<b>Station</b>	<b>Baseline Noise Level, dB (A)</b>	<b>Noise Limit Level, dB (A)</b>
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)
N7	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 (March 20), Leq (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 <sup>(1)</sup>	55.9 - 62
N2 – Bethel High School	57-64	64 <sup>(1)</sup>	51.2 - 65.3
N3 – No. 159 Mai Po San Tsuen	70-73	74 <sup>(2)</sup>	57.3 - 70.9
N5 – Block 2, Dills Corner Garden	73-75	75 <sup>(2)</sup>	65.3 - 70.3
N6 – Home of Loving Faithfulness	64-73	74 <sup>(1)</sup>	60.5 - 71.9
N7 – Village House in Shek Wu Wai	N/A <sup>(3)</sup>	70 <sup>(2)</sup>	66.9 - 69.6

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 at N1 was within range of the predicted mitigated construction noise levels in the EIA Report. The results at N2 was outside the range of the predicted mitigated construction noise levels in the EIA Report. The results at N3 and N6 were slightly lower than the range of the predicted mitigated construction noise levels in the EIA Report. The results at N5 was 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, N6 and N7 were lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works. The results at N2 was 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 4, 12, 18 and 25 March 2020 in the reporting month. IEC joint site inspection was conducted on 9 March 2020. No non-compliance was observed during the site audit.

### Review of Environmental Monitoring Procedures

- 8.3 The monitoring works conducted by the monitoring team 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		
<b>Environmental Permit (EP)</b>				
EP-450/2013/A	25/08/2015	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	02/09/2015	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
<b>Billing Account for Construction Waste Disposal</b>				
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
<b>Effluent Discharge License</b>				
WT00027672-2017	28/3/2017	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	28/3/2017	31/3/2022		
WT00027606-2017	27/3/2017	31/3/2022		
WT00027510-2017	27/3/2017	31/3/2022		
WT00027509-2017	20/3/2017	31/3/2022		
WT00027603-2017	27/3/2017	31/3/2022		
WT00027508-2017	20/3/2017	31/3/2022		
WT00027605-2017	27/3/2017	31/3/2022		
WT00027607-2017	27/3/2017	31/3/2022		
WT00027834-2017	13/4/2017	30/4/2022		
WT00028431-2017	22/6/2017	30/6/2020		
WT00028748-2017	17/08/2017	31/08/2022		
WT00028850-2017	14/08/2017	31/08/2022		
WT00030236-2018	7/02/2018	28/02/2022		
WT00034612-2019	28/11/2019	31/7/2024		
<b>Registration of Chemical Waste Producer</b>				
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

**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**. Refer to **Appendix G** for the site inspection checklists in the reporting month.

**Table 8.2 Observations and Recommendations of Site Audit**

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	12 – 26 Feb 2020	The water in the u-channel should be cleaned. The wastewater filtration system should be turned on while wastewater is discharging at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 Mar 2020.
	26 Feb 2020	Standing water should be avoided and pumped out through sedimentation tank at Portion I.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 Mar 2020.
<i>Air Quality</i>	19 Feb – 18 Mar 2020	Stockpile of dusty material should be covered by impervious materials at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 Mar 2020.
	26 Feb 2020	Stockpile of dusty material should be covered at Subway A.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 Mar 2020.
	4 – 12 Mar 2020	Stockpile of dusty material should be covered by impervious material at Subway A.	The condition was observed to be improved/rectified by the contractor during the audit session on 18 Mar 2020.
	4 – 12 Mar 2020	The site vehicles should use wheel washing facility at Bridge B.	The condition was observed to be improved/rectified by the contractor during the audit session on 18 Mar 2020.
	4 – 25 Mar 2020	Stockpile of dusty material should be covered and not placed outside the site boundary at Portion J.	Follow up actions will be reported in the next month.
	12 – 25 Mar 2020	The slope of earth should be covered well by tarpaulin at Portion J	Follow up actions will be reported in the next month.



Parameters	Date	Observations and Recommendations	Follow-up
	25 Mar 2020	Stockpile of dusty material should be covered by impervious material or maintained wet at Portion I	Follow up actions will be reported in the next month.
<i>Noise</i>	5 Feb – 25 Mar 2020	Powered mechanical equipment should be covered or shielded by appropriate materials. Noise enclosures or noise barriers should be provided by contractor at Bridge B.	Follow up actions will be reported in the next month.
<i>Waste/ Chemical Management</i>	5 Feb – 25 Mar 2020	Construction waste should be removed. Construction site should be kept clean at Portion F.	Follow up actions will be reported in the next month.
	26 Feb – 12 Mar 2020	Accumulation of general refuse should be avoided at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 18 Mar 2020.
	18 Mar 2020	Construction waste should be removed at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 Mar 2020.
	25 Mar 2020	Oil leakage from excavator should be avoided at Portion E	Follow up actions will be reported in the next month.
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	N/A	There was no observation in the reporting period.	N/A
<i>Permits/ Licenses</i>	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.

### Record of Complaint, Warning, Notification of any Summons and Successful Prosecution

8.11 The record of all environmental complaints, warnings, summons and notifications of successful prosecution for the Project is presented in **Appendix J**.

## **9 FUTURE KEY ISSUES**

9.1 Major site activities undertaken for the coming months include:

### **Portion A**

1. General Cleaning

### **Portion B**

1. Internal Finishing & E&M Works for Subway A
2. Installation of Steel Roof,
3. Construction of Cycle Track

### **Portion C**

1. Installation of water point

### **Portion D**

1. Construction of Drainage Pipe / Channel
2. Construction of Road Kerb
3. Laying Bituminous Pavement for Cycle Track
4. Installation of Bicycle Parapet
5. Installation of Traffic Aids

### **Portion E**

1. Construction of Retaining Wall D5 & Access Ramp
2. Realignment and resurfacing of Mai Po Lung Road
3. Construction of Road Kerb
4. Installation of Bicycle Parapet and Railing
5. Construction of Footpath

### **Portion F**

1. Construction of Boundary Wall and Retaining Wall RW 44
2. Construction of Road Kerb
3. Laying Bituminous for Cycle Track
4. Installation of Bicycle Parapet and Railing
5. Construction of Footpath
6. Construction of Drainage Pipe / Channel
7. Installation of Traffic Aids
8. CCTV for Drainage Pipe

### **Portion G**

1. Installation of Traffic Aids
2. Colour Dressing for Cycle Track

### **Portion H**

1. Construction of Road Kerb
2. Laying Bituminous for Cycle Track
3. Installation of Bicycle Parapet and Railing
4. Construction of Drainage Pipe / Channel

**Portion I**

1. Internal Finishing & E&M Works for Subway D
2. Installation of Steel Roof,
3. Installation of Flooding Warning System
4. Reinstate the Existing Slope and Carriageway, Removal of Temporary Steel Bridge of TTA
5. Construction of Drainage / Channel
6. Installation of Traffic Aids

**Portion J**

1. Construction of Drainage / Channel
2. Construction of Road Kerb
3. Laying Bituminous Pavement for Cycle Track
4. Installation of Bicycle Parapet and Type II Railing

**Portion K**

1. Additional Pavement
2. Defect Rectification

**Portion M**

1. Installation of Lighting for Bridge E
2. Installation of Bicycle Parapet / Railing
3. Installation of Traffic Aids

**Portion N**

1. Construction of Drainage / Channel
2. Construction of Road Kerb
3. Installation of Traffic Aids

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. April to May 2020, are summarized as follows:

<b>Construction Works</b>	<b>Major Impact Prediction</b>	<b>Control Measures</b>
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 PME's 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 complaint was received in this 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 or water spraying should be implemented to all stockpiles in the Site to prevent dust generation.

#### *Water Quality*

- Nearby channels should be kept clean.
- 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.

*Permits/Licences*

- Environmental licences should be properly displayed at every entrance.

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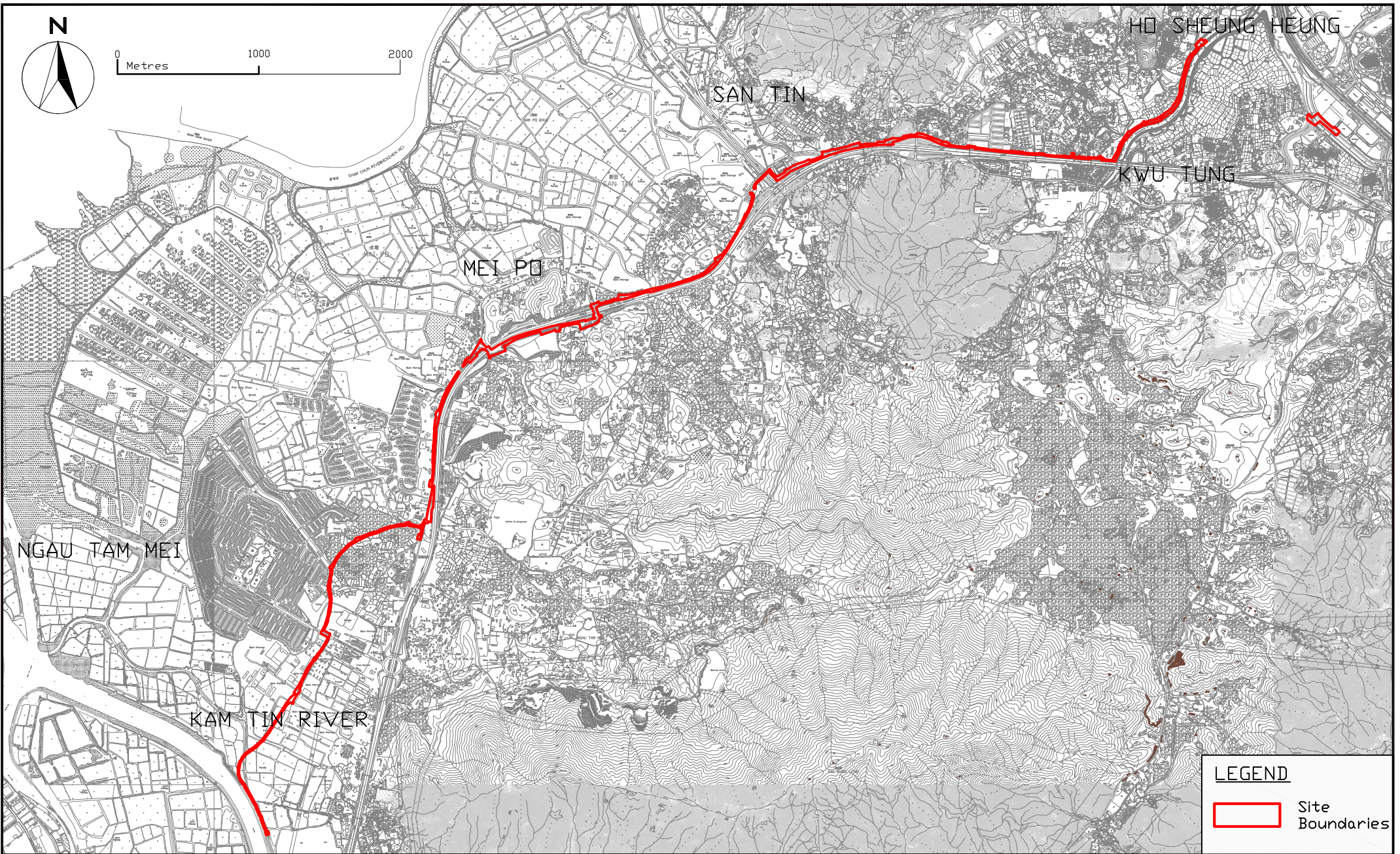
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## FIGURES

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**LEGEND**

Site Boundaries



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	-

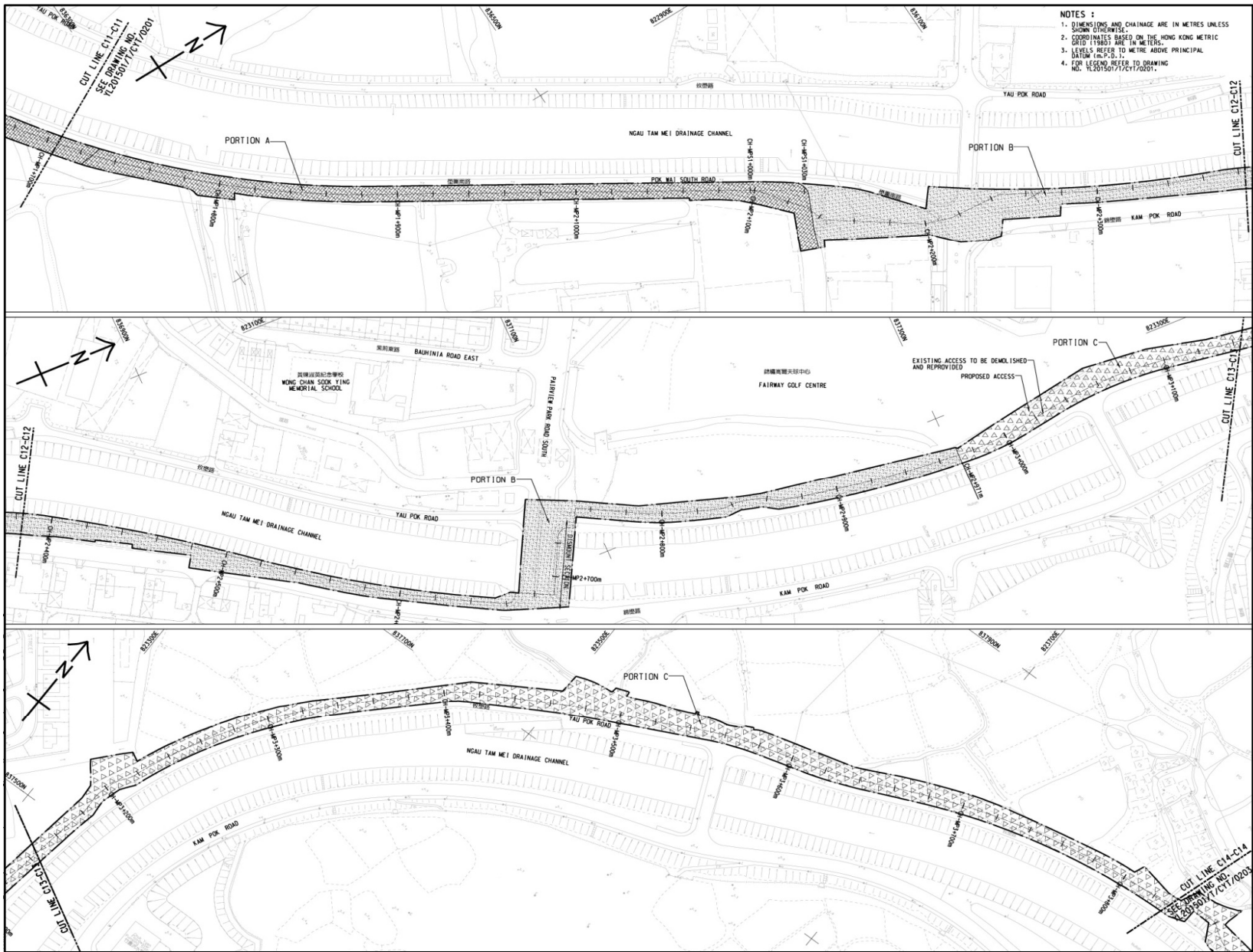




Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1b

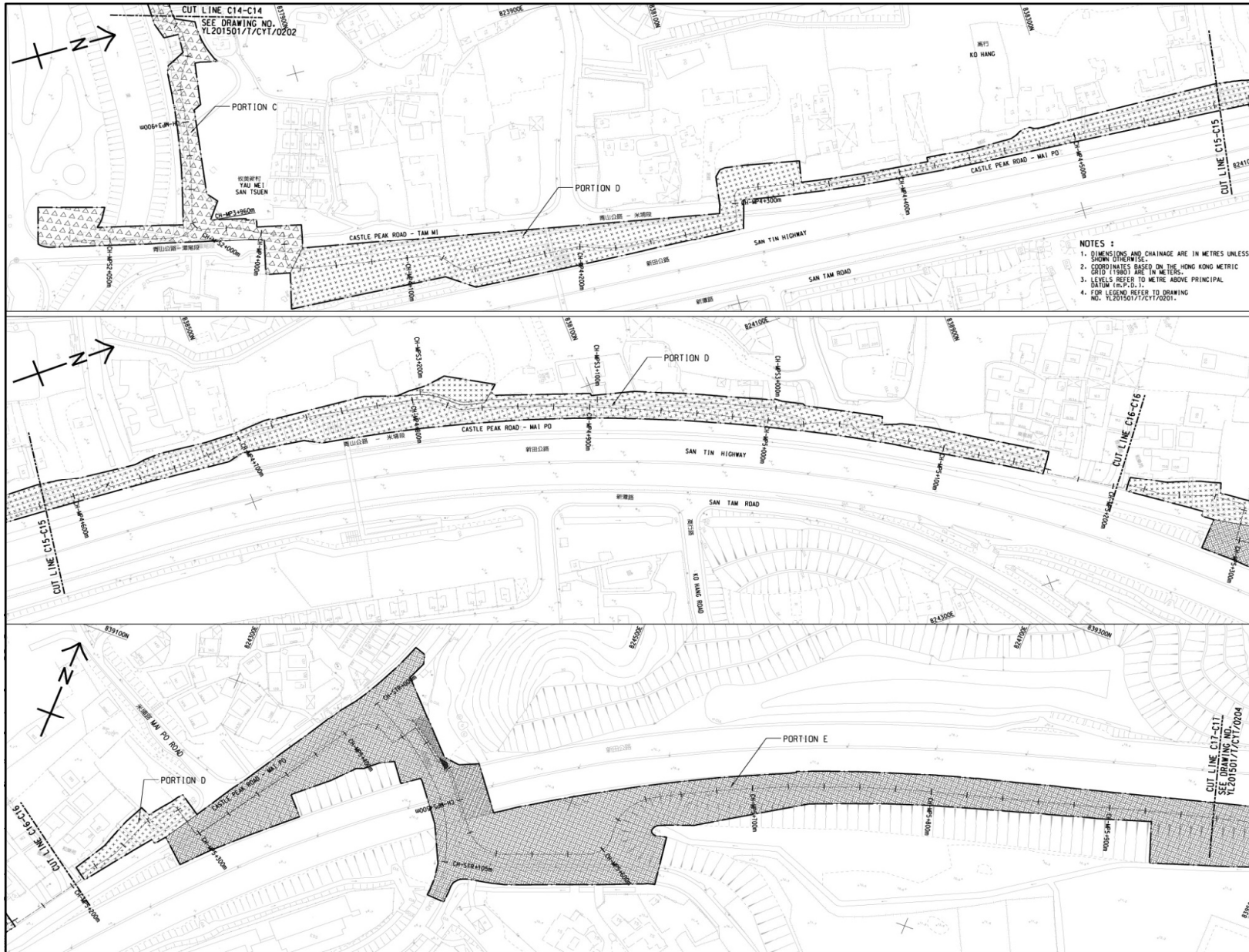
**CINOTECH**



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	Project No.	MA16036
Date	Dec-16	Figure	1c

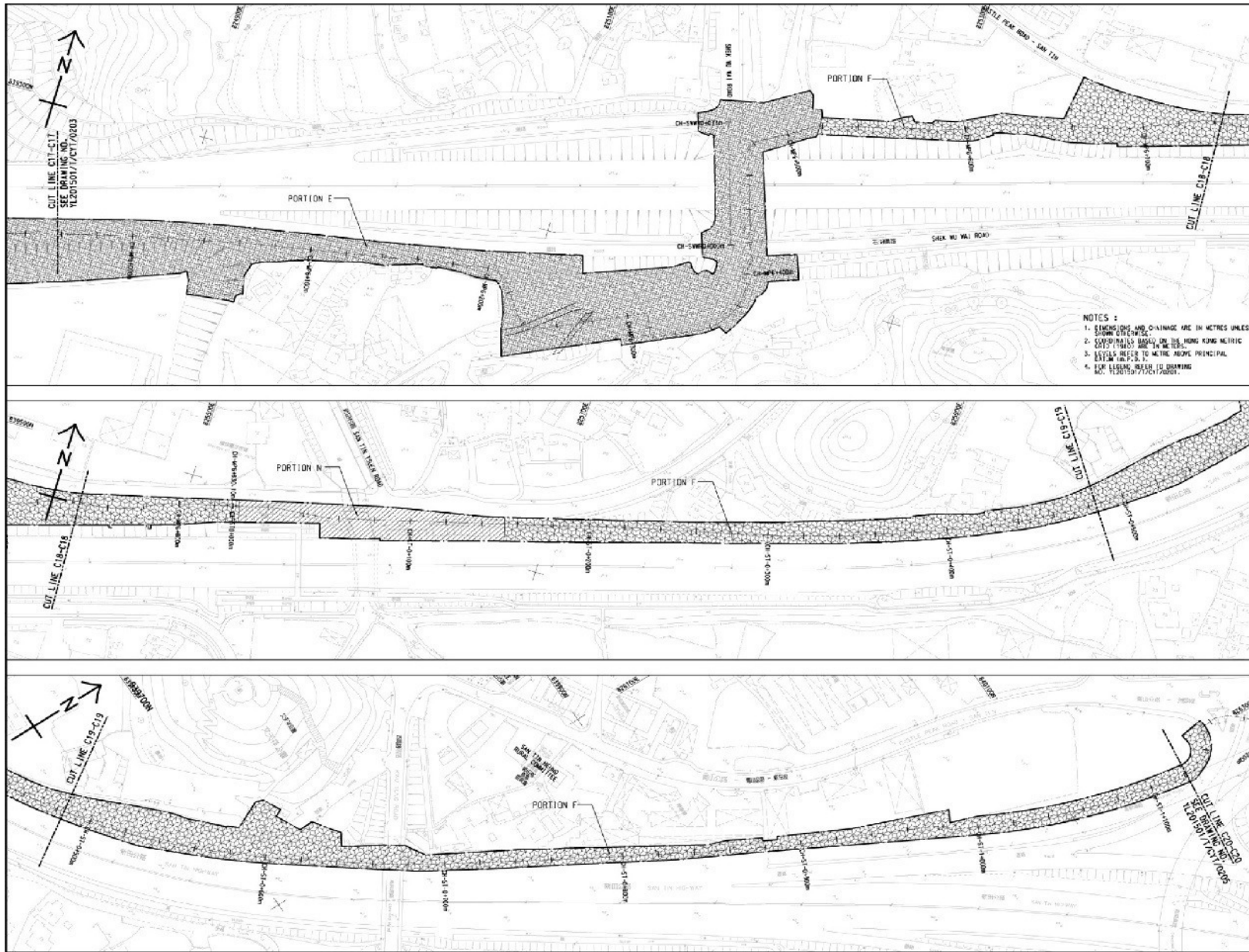




Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1d

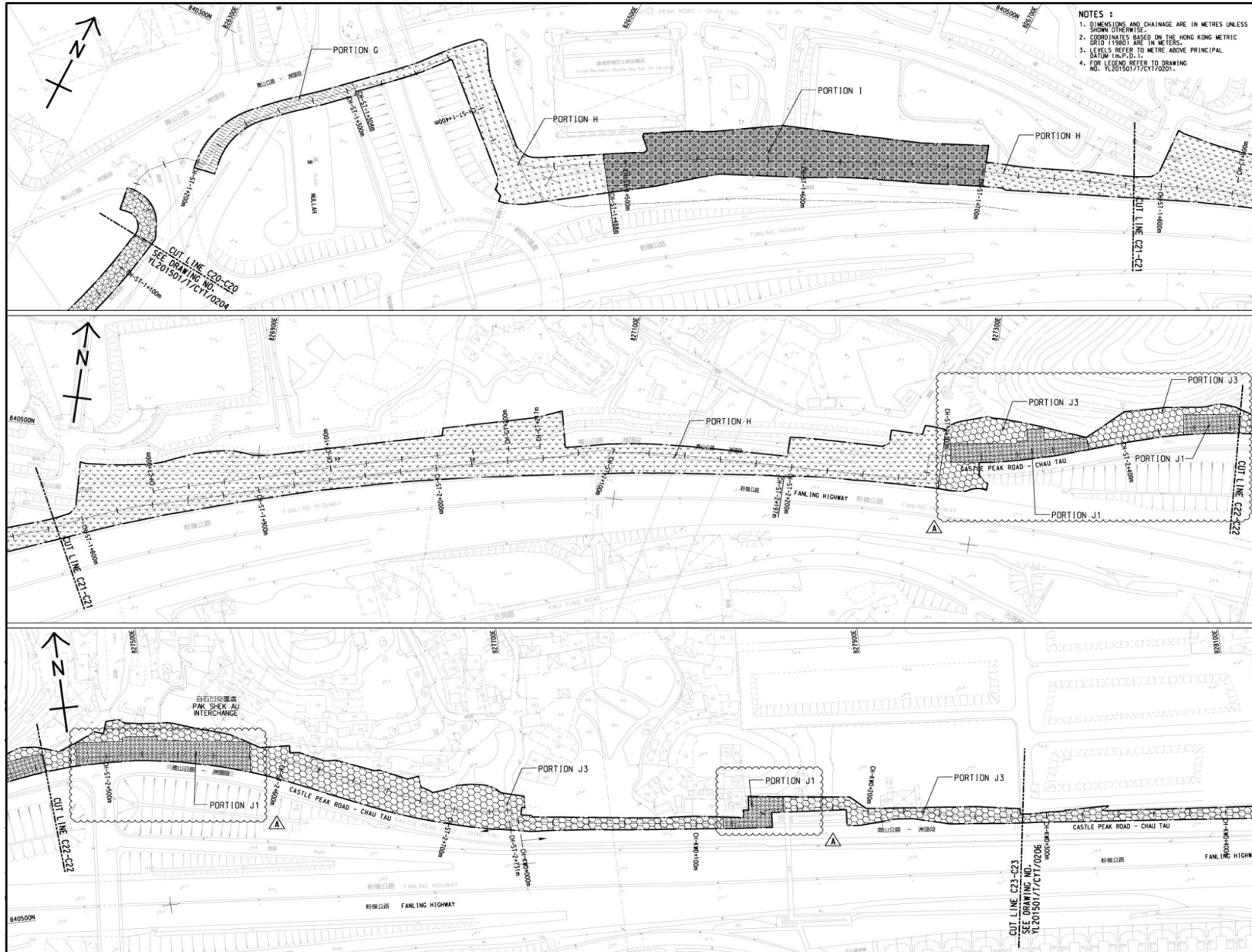




Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1e



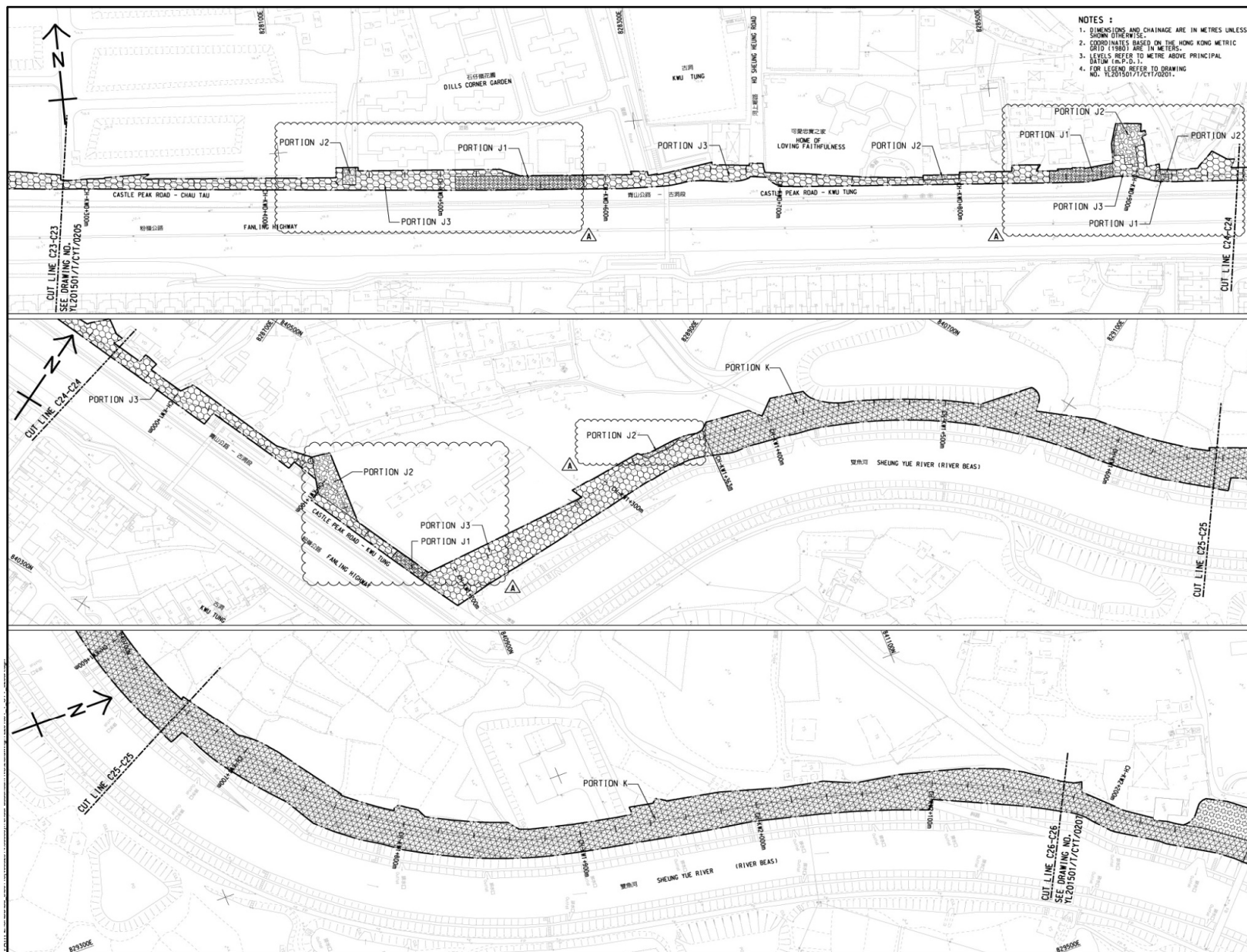


Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1f







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
Date	Dec-16	Figure	1g





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
Date	Dec-16	Figure	1h







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





**LEGEND**

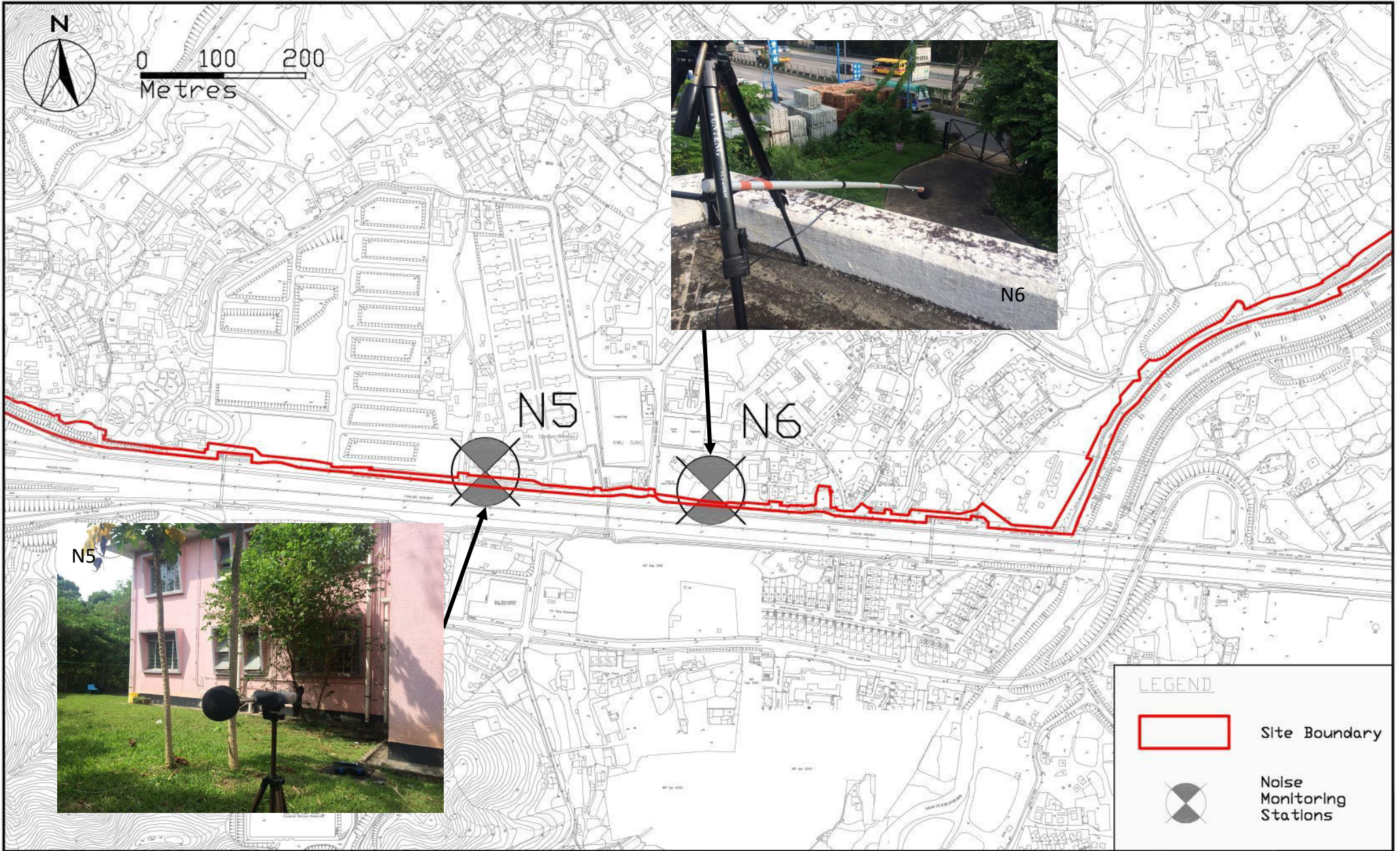
- Site Boundary
- Noise Monitoring Stations





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	-





LEGEND	
	Site Boundary
	Noise Monitoring Stations



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	-

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**APPENDIX A  
WORK PROGRAMME**

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生興 - 豐利聯營  
Sang Hing - Kuly Joint Venture

28<sup>th</sup> June 2019

Our ref.: SKJV/W52/SO/3497

Mannings (Asia) Consultants Ltd.  
5/F, Winning Commercial Building,  
46-48 Hillwood Road,  
Tsim Sha Tsui,  
Kowloon

By fax & post  
Fax no.: 3168 2022

Attn.: Mr. Mole Tam (Senior Resident Engineer)

Dear Sirs,

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

Enclosed please find our updated programme for your information and acceptance. A summary is also attached herewith this letter for your easy reference.

In several meetings, we understand that CEDD and your Office would request us to complete the proposed Cycle Track by the end of this year. However, our programme are hindered by some external constraints such as Street Lighting Works by Highways Department, approval of GRP Roofing at Subway A & D, utilities diversions at Retaining Walls RW49 and RW50 and additional walls at Portions J1 to J3, etc.

In view of this requirement, we would like to arrange an ad hoc meeting to seek a better solution to accelerate the works.

Thank you for your kind attention

Yours faithfully,  
For and on behalf of  
Sang Hing - Kuly Joint Venture

  
\_\_\_\_\_  
Tang Wing Kai  
Site Agent

WKT/MKM/TL/tl

Encl.

Summary of Updating Programme upto end of June 2019

Section	Portion	Revised Completion Date	Revised Completion Date (Including with Time Saving)	Updated Programme Completion Date	Major outstanding work / critical work	Target Completion	Critical Priority	Remark	
W1	A			30/9/2019	1) Street Lighting works and Colour Dressing	30-Sep-19			
					1) Subway A Bay 12 to Bay 16	16-Oct-19			
	B		5/6/2019	7/4/2019	23/2/2020	2) GRP Roofing Approval	15-Jul-19	2nd	Assume GRP approval obtained on 15/7/19
						3) GRP Roofing Order and Delivery	15-Oct-19		
						4) GRP installation	13-Jan-20		
						5) Road work inside subway	23-Feb-20		
						5) Street Lighting works and colour Dressing	30-Sep-19		
	C			11/7/2019	1) Street Lighting works and Colour Dressing	7-Nov-19			
					2) Additional Proposed staircase, ramp at Yau Po Road	16-Oct-19			
	D			15/4/2020	1) Approval of Street Lighting	30-Jun-19	1st		
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
					3) Colour Dressing	15-Apr-20			

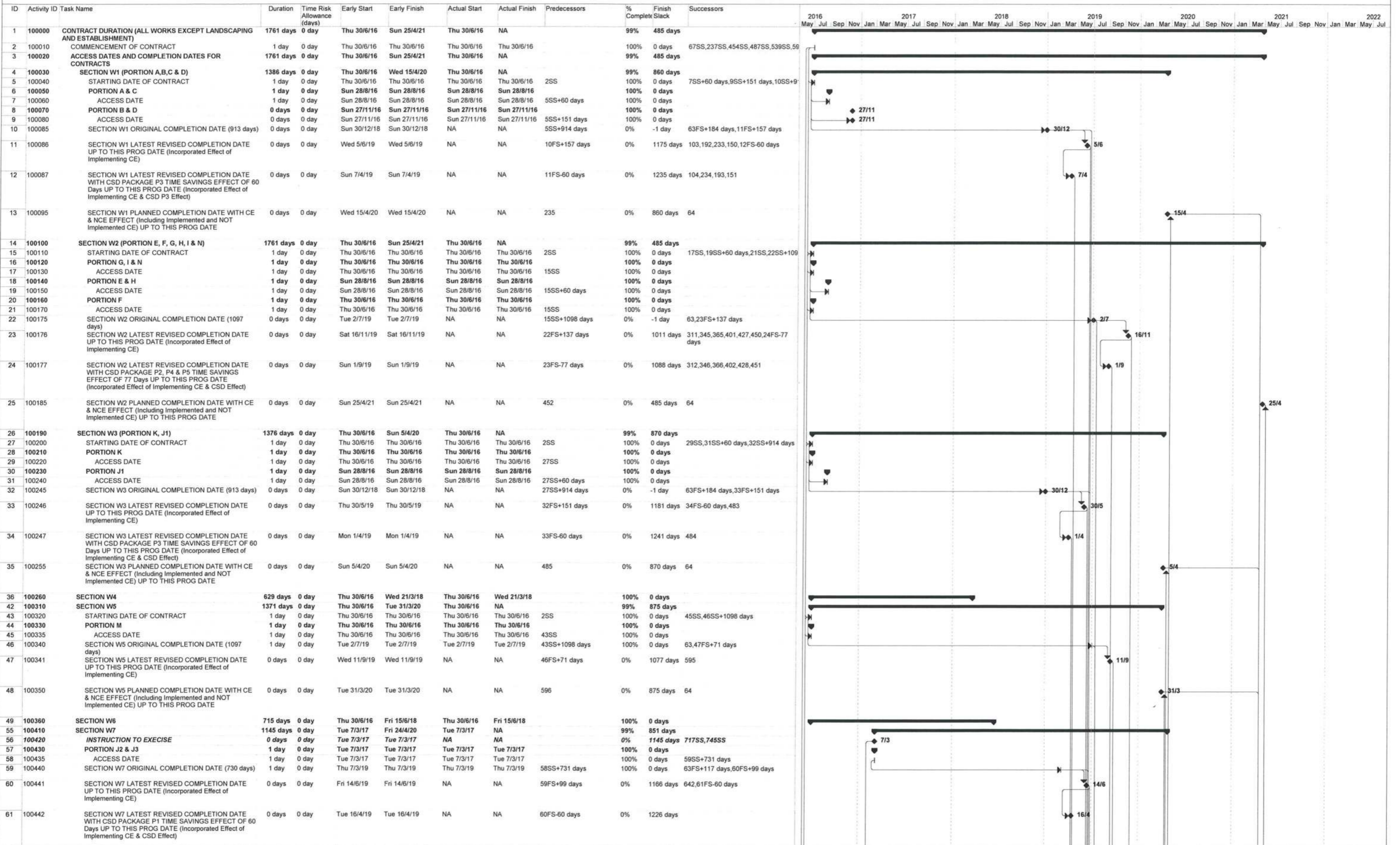
W2	E			15/4/2020	1) Retaining Wall RW D03	26-Mar-20	3rd	
					2) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					4) Colour Dressing	15-Apr-20		
	F			15/4/2020	1) RW 42 (CSD)	30-Dec-19	3rd	
					2) RW 44 and Ramp PR3	19-Dec-19		
					3) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
	4) Allocation Warrant and Installation of Street Lighting	6-Mar-20						
	G			31/3/2020	5) Colour Dressing	15-Apr-20		
					1) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
	H		16/11/2019	1/9/2019	25/4/2021	3) Colour Dressing	31-Mar-20	
1) Additional RW49 & RW50						10/2/2020	1st	
2) Additional Diversion of utilities along RW49 & RW50						8/8/2020		
3) Drainage and Gullies for re-alignment carriageway for RW49 & RW50						7/10/2020		
4) Road Works for re-alignment of DW1 and DW2 and street lighting works						25/4/2021		
1) Subway D E&M works						1-Nov-19		
I			13/3/2020	2) GRP Roofing Approval	15-Jul-19	2nd	Assume GRP approval obtained on 15/7/19	
				3) GRP Roofing Order and Delivery	15-Oct-19			
				4) GRP installation	13-Jan-20			
				5) Road work inside subway	13-Mar-20			
				1) Bridge B - Substructure	30-Sep-19			3rd
2) Bridge B - Superstructure	30-Nov-19							
N			20/3/2020	3) Bridge B - Site formation	20-Jan-20			
				4) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019	
				5) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
				6) Colour Dressing	20-Mar-20			

W3	K&J1	30/5/2019	1/4/2019	5/4/2020	1) Approval of Street Lighting	30-Jun-19	1st	Assume Approval given on 30 June 2019
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					3) Colour Dressing	5-Apr-20		

W5	M	11/9/2019	11/9/2019	31/3/2020	1) Steel roofing and E&M of Bridge E	27-Dec-19		
					2) Approval of Street Lighting	30-Jun-19	1st	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					4) Colour Dressing	31-Mar-20		

W7	J1,J2,J3	14/6/2019	16/4/2019	20/4/2020	1) RW48, RW24A, RW24AAA, etc	31-Dec-19	1st			
					2) Earthwork and Drainage works	29-Feb-20				
					3) Road Work (except colour dressing)	30-Mar-20				
					2) Approval of Street Lighting	30-Jun-19			2nd	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20				
					4) Colour Dressing	24-Apr-20				



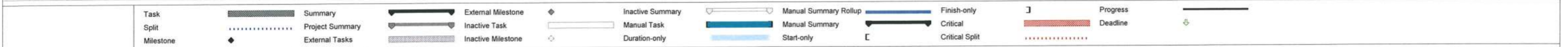


Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Critical	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical Split	

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																											
62	100455	SECTION W7 PLANNED COMPLETION DATE WITH CE & NCE EFFECT (Including Implemented and NOT Implemented CE) UP TO THIS PROG DATE	0 days	0 day	Fri 24/4/20	Fri 24/4/20	NA	NA	644	0%	851 days	64	[Gantt bar for ID 62]																											
63	100460	SECTION W1 TO W7 ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	10FS+184 days, 22,32FS+184 days, 40FS+549 days, 46,53,59FS+117 days	0%	0 days		[Gantt bar for ID 63]																											
64	100480	SECTION W1 TO W7 PLANNED COMPLETION DATE WITH CE & NCE (Including Implemented and NOT Implemented CE) UP TO THIS PROG DATE	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	13,25,35,48,62	0%	485 days		[Gantt bar for ID 64]																											
65	200000	PLANNED WORKS PROGRAMME	1761 days	0 day	Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		78%	485 days		[Gantt bar for ID 65]																											
66	210010	SECTION W1 (PORTION A,B,C & D)	1386 days	0 day	Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		77%	860 days		[Gantt bar for ID 66]																											
67	210020	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	106FS+151 days, 153FS+60 days, 195FS+151 days, 69FS+60	[Gantt bar for ID 67]																											
68	211000	PORTION A - POK WAI ROAD SOUTH (MP 1+000 - MP 2+130)	1188 days	0 day	Thu 30/6/16	Mon 30/9/19	Thu 30/6/16	NA		97%	198 days		[Gantt bar for ID 68]																											
69	211010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	67FS+60 days	100%	0 days	70	[Gantt bar for ID 69]																											
70	211020	INITIAL SURVEY + 3 DAY DELAY (INCLEMENT WEATHER) IN OCT 2016	63 days	3 days	Mon 29/8/16	Sun 30/10/16	Mon 29/8/16	Sun 30/10/16	69	100%	0 days	78FS+4 days, 71,75	[Gantt bar for ID 70]																											
71	211030	TREE SURVEY + 5 DAY DELAY (INCLEMENT WEATHER) IN SEP 2016	75 days	3 days	Mon 31/10/16	Fri 13/1/17	Mon 31/10/16	Fri 13/1/17	70	100%	0 days	72	[Gantt bar for ID 71]																											
72	211040	TREE FELLING / TRANSPLANTING AND SITE CLEARANCE (FOR NEW DLO MEMO) + 6 DAY DELAY (INCLEMENT WEATHER) IN DEC 2016	66 days	5 days	Sat 14/1/17	Mon 20/3/17	Sat 14/1/17	Mon 20/3/17	71	100%	0 days	88,81	[Gantt bar for ID 72]																											
73	211050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVISE	485 days	10 days	Thu 30/6/16	Fri 27/10/17	Thu 30/6/16	Fri 27/10/17	67SS	100%	0 days		[Gantt bar for ID 73]																											
74	211060	UTILITIES DIVERSION WORKS	439 days	0 day	Mon 31/10/16	Fri 12/1/18	Mon 31/10/16	Fri 12/1/18		100%	0 days		[Gantt bar for ID 74]																											
75	211070	CLP (@ Approx MP1+300)	60 days	0 day	Mon 31/10/16	Thu 29/12/16	Mon 31/10/16	Thu 29/12/16	70	100%	0 days	87	[Gantt bar for ID 75]																											
76	211075	CLP (Between MP1+600 TO MP2+100)	60 days	2 days	Tue 14/11/17	Fri 12/1/18	Tue 14/11/17	Fri 12/1/18	90	100%	0 days		[Gantt bar for ID 76]																											
77	211080	PCCW (Between MP1+600 TO MP2+100)	60 days	2 days	Tue 14/11/17	Fri 12/1/18	Tue 14/11/17	Fri 12/1/18	90	100%	0 days		[Gantt bar for ID 77]																											
78	211090	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	28 days	2 days	Thu 3/11/16	Wed 30/11/16	Thu 3/11/16	Wed 30/11/16	70FS+4 days	100%	0 days	79SS,80	[Gantt bar for ID 78]																											
79	211100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Thu 3/11/16	Wed 23/11/16	Thu 3/11/16	Wed 23/11/16	78SS	100%	0 days	80	[Gantt bar for ID 79]																											
80	211110	INSTALLATION OF MONITORING MARKERS	20 days	2 days	Thu 1/12/16	Tue 20/12/16	Thu 1/12/16	Tue 20/12/16	79,78	100%	0 days	81	[Gantt bar for ID 80]																											
81	211115	RETAINING WALL - RW 8A (60M)	70 days	5 days	Tue 21/3/17	Mon 29/5/17	Tue 21/3/17	Mon 29/5/17	80,72	100%	0 days	87,82SS+7 days,83	[Gantt bar for ID 81]																											
82	211120	RETAINING WALL - RW 8B (40M)	66 days	5 days	Thu 1/6/17	Tue 28/3/17	Thu 1/6/17	Tue 28/3/17	81SS+7 days	100%	0 days	87,83	[Gantt bar for ID 82]																											
83	211125	END DATE OF DRY SEASON	1 day	0 day	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	82,81	100%	0 days		[Gantt bar for ID 83]																											
84	211130	START DATE OF DRY SEASON	1 day	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17		100%	0 days	91	[Gantt bar for ID 84]																											
85	211150	RETAINING WALL - RW7 (20M) - CSD	60 days	2 days	Tue 13/3/18	Fri 11/5/18	Tue 13/3/18	Fri 11/5/18	91SS+60 days	100%	0 days	95SS,93,86SS	[Gantt bar for ID 85]																											
86	211160	RETAINING WALL - RW7A (67M) - CSD	60 days	4 days	Tue 13/3/18	Fri 11/5/18	Tue 13/3/18	Fri 11/5/18	85SS	100%	0 days	93	[Gantt bar for ID 86]																											
87	211190	EARTHWORKS AND DRAINAGE WORKS, UTILITIES LAYING BETWEEN MP1+000 TO MP 1+600	502 days	5 days	Sat 3/6/17	Wed 17/10/18	Sat 3/6/17	Wed 17/10/18	81,82,75	100%	0 days	92	[Gantt bar for ID 87]																											
88	211200	EARTHWORKS AND DRAINAGE WORKS BETWEEN CH1+600 TO CH2+100, THE WORKS SUSPENDED DUE TO SLOPE WORKS FALLING ON WATER POND & OUTSIDE SITE BOUNDARY (SKJV EW No.3 Dated 24/3/17)	0 days	0 day	Fri 24/3/17	Fri 24/3/17	Fri 24/3/17	Fri 24/3/17	72	100%	0 days	89	[Gantt bar for ID 88]																											
89	211210	PENDING THE SUPERVISOR TO ISSUE CE TO RESOLVE CONFLICT (SKJV EW No.3) AND SKJV NCE No. 78 - ADDITIONAL BICYCLE PARAPET FOOTING IN PORTION A	263 days	0 day	Fri 24/3/17	Mon 11/12/17	Fri 24/3/17	Mon 11/12/17	88	100%	0 days	90SS+205 days, 91FS-28 days	[Gantt bar for ID 89]																											
90	211215	PREPARATION WORKS FOR WORKS UNDER CE TO RESOLVE CONFLICT (SKJV EW No.3) BY SKJV	30 days	0 day	Sun 15/10/17	Mon 13/11/17	Sun 15/10/17	Mon 13/11/17	89SS+205 days	100%	0 days	91,76,77	[Gantt bar for ID 90]																											
91	211220	CONSTRUCTION OF WORKS UNDER CE TO RESOLVE THE CONFLICT UNDER SKJV EW No.3 AND SKJV NCE No.78	138 days	3 days	Tue 14/11/17	Sat 31/3/18	Tue 14/11/17	Sat 31/3/18	90,84,89FS-28 days	100%	0 days	100,93,85SS+60 days	[Gantt bar for ID 91]																											
92	211235	STAIRCASE @ MP1+960	30 days	3 days	Thu 18/10/18	Fri 16/11/18	Thu 18/10/18	Fri 16/11/18	87	100%	0 days	100	[Gantt bar for ID 92]																											
93	211225	END DATE OF DRY SEASON	1 day	0 day	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	86,91,85,95	100%	0 days		[Gantt bar for ID 93]																											
94	211230	START DATE OF DRY SEASON	1 day	0 day	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18		100%	0 days		[Gantt bar for ID 94]																											
95	211250	RETAINING WALL - RW 7B (20M) - CSD	60 days	0 day	Tue 13/3/18	Fri 11/5/18	Tue 13/3/18	Fri 11/5/18	85SS	100%	0 days	93	[Gantt bar for ID 95]																											
96	211260	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (DESIGN SUBMISSION & APPROVAL)	360 days	0 day	Tue 21/11/17	Thu 15/11/18	Tue 21/11/17	Thu 15/11/18		100%	0 days	97,98,142SS,184SS	[Gantt bar for ID 96]																											
97	211261	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (ASSOCIATED CIVIL PROVISION WORKS)	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	96	100%	0 days	99	[Gantt bar for ID 97]																											
98	211262	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	96	100%	0 days	99	[Gantt bar for ID 98]																											
99	211263	INSTALLATION OF LED STREET LIGHTING BY OTHERS	197 days	0 day	Sat 16/2/19	Sat 31/8/19	Sat 16/2/19	NA	98,97	70%	198 days	101	[Gantt bar for ID 99]																											
100	211270	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	92 days	7 days	Sat 17/11/18	Sat 16/2/19	Sat 17/11/18	Sat 16/2/19	91,92	100%	0 days	101	[Gantt bar for ID 100]																											
101	211271	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	30 days	0 day	Sun 1/9/19	Mon 30/9/19	NA	NA	100,99	0%	198 days	102	[Gantt bar for ID 101]																											
102	211275	PORTION A - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Mon 30/9/19	Mon 30/9/19	NA	NA	101	0%	198 days	235	[Gantt bar for ID 102]																											
103	211280	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	11	0%	1175 days		[Gantt bar for ID 103]																											
104	211281	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	12	0%	1235 days		[Gantt bar for ID 104]																											
105	212000	PORTION B (MP 2+130 - MP 2+950)	1183 days		Sun 27/11/16	Sun 23/2/20	Sun 27/11/16	NA		70%	52 days		[Gantt bar for ID 105]																											
106	212010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	67FS+151 days	100%	0 days	107SS,108SS,110	[Gantt bar for ID 106]																											



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016 2017 2018 2019 2020 2021 2022											
107	212020	INITIAL SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	106SS	100%	0 days	109	[Gantt chart bars for 107]											
108	212030	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	106SS	100%	0 days	109	[Gantt chart bars for 108]											
109	212040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	85 days	4 days	Sat 7/1/17	Sat 1/4/17	Sat 7/1/17	Sat 1/4/17	108,107	100%	0 days	137	[Gantt chart bars for 109]											
110	212070	TTM PREPARATION BY SKJV & APPROVAL BY SUPERVISOR/PM/MLG & XP ISSUE+ 36 DAYS DELAY DUE TO BELATED APPROVAL OF XP & ADDITIONAL TRIAL RUN (SKJV NCE No.15)	162 days	0 day	Mon 28/11/16	Mon 8/5/17	Mon 28/11/16	Mon 8/5/17	106	100%	0 days	112	[Gantt chart bars for 110]											
111	212100	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY PW5 TO PW8)	183 days		Tue 9/5/17	Tue 7/11/17	Tue 9/5/17	Tue 7/11/17		100%	0 days		[Gantt chart bars for 111]											
112	212110	CLP CABLE + Anticipated 95 Days Delay of Works Due to Uncharted CLP Cable Ducts (SKJV NCE No.46) and Delay in Diversion of CLP Pole (SKJV NCE No. 50)	183 days	2 days	Tue 9/5/17	Tue 7/11/17	Tue 9/5/17	Tue 7/11/17	110	100%	0 days	113SS,121	[Gantt chart bars for 112]											
113	212140	WSD PIPE + Anticipated 95 Days Delay of Works Due to Delay in Diversion of WSD pipes (SKJV NCE No.40)	165 days	2 days	Tue 9/5/17	Fri 20/10/17	Tue 9/5/17	Fri 20/10/17	112SS	100%	0 days	121	[Gantt chart bars for 113]											
114	212200	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY PW9 TO PW11)	14 days		Sat 8/9/18	Fri 21/9/18	Sat 8/9/18	Fri 21/9/18		100%	0 days		[Gantt chart bars for 114]											
115	212210	CLP	14 days	1 day	Sat 8/9/18	Fri 21/9/18	Sat 8/9/18	Fri 21/9/18	122	100%	0 days	123,116SS	[Gantt chart bars for 115]											
116	212230	WSD	14 days	1 day	Sat 8/9/18	Fri 21/9/18	Sat 8/9/18	Fri 21/9/18	115SS	100%	0 days	130,123	[Gantt chart bars for 116]											
117	212240	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY 12 TO 16)	28 days		Sat 8/9/18	Fri 5/10/18	Sat 8/9/18	Fri 5/10/18		100%	0 days		[Gantt chart bars for 117]											
118	212260	HCL	28 days	1 day	Sat 8/9/18	Fri 5/10/18	Sat 8/9/18	Fri 5/10/18	122	100%	0 days	130	[Gantt chart bars for 118]											
119	212270	WSD	28 days	1 day	Sat 8/9/18	Fri 5/10/18	Sat 8/9/18	Fri 5/10/18	122	100%	0 days	130	[Gantt chart bars for 119]											
120	212280	SUBWAY A BARRELS WITH PUMP ROOM CONSTRUCTION	588 days		Wed 8/11/17	Tue 18/6/19	Wed 8/11/17	Tue 18/6/19		100%	0 days		[Gantt chart bars for 120]											
121	212300	BAY PW5, 6, 7, 8	300 days	5 days	Wed 8/11/17	Mon 3/9/18	Wed 8/11/17	Mon 3/9/18	112,113	100%	0 days	122,125	[Gantt chart bars for 121]											
122	212310	TTA FOR BAY PW9, 10, & 11	4 days	3 days	Tue 4/9/18	Fri 7/9/18	Tue 4/9/18	Fri 7/9/18	121	100%	0 days	115,118,119	[Gantt chart bars for 122]											
123	212320	BAY PW9 & P10 WITH PUMP HOUSE, PW11	270 days	5 days	Sat 22/9/18	Tue 18/6/19	Sat 22/9/18	Tue 18/6/19	115,116	100%	0 days	130SS+210 days,148,128	[Gantt chart bars for 123]											
124	212330	SOUTHERN RAMP CONSTRUCTION	497 days		Tue 4/9/18	Mon 13/1/20	Tue 4/9/18	NA		22%	53 days		[Gantt chart bars for 124]											
125	212340	BAY PW1 TO 4	120 days	2 days	Tue 4/9/18	Tue 1/1/19	Tue 4/9/18	Tue 1/1/19	121	100%	0 days	126FS-55 days	[Gantt chart bars for 125]											
126	212350	ROOFING - MATERIAL SUBMISSION AND APPROVAL	250 days		Thu 8/11/18	Mon 15/7/19	NA	NA	125FS-55 days	0%	53 days	127	[Gantt chart bars for 126]											
127	212360	ROOFING - ORDER, MANUFACTURING & DELIVER	92 days		Tue 16/7/19	Tue 15/10/19	NA	NA	126	0%	53 days	128,132	[Gantt chart bars for 127]											
128	212342	INSTALLATION OF ROOF	90 days	2 days	Wed 16/10/19	Mon 13/1/20	NA	NA	123,127	0%	53 days	135	[Gantt chart bars for 128]											
129	212380	NORTHERN RAMP CONSTRUCTION	209 days		Thu 20/6/19	Tue 14/1/20	Thu 20/6/19	NA		7%	52 days		[Gantt chart bars for 129]											
130	212390	BAY PW12 TO 13 + SKJV EW No.60 - Conflict between Bay 13 & 14 and Existing Drainage Pipe	119 days	2 days	Thu 20/6/19	Wed 16/10/19	Thu 20/6/19	NA	123SS+210 days,116,118,119	10%	52 days	133FS-50 days,132,148,131SS	[Gantt chart bars for 130]											
131	212395	BAY PW14 TO 16 + SKJV EW No.60 - Conflict between Bay 13 & 14 and Existing Drainage Pipe	119 days	2 days	Thu 20/6/19	Wed 16/10/19	Thu 20/6/19	NA	130SS	10%	52 days	132,133FS-50 days	[Gantt chart bars for 131]											
132	212392	INSTALLATION OF ROOF	90 days	2 days	Thu 17/10/19	Tue 14/1/20	NA	NA	131,130,127	0%	52 days	135	[Gantt chart bars for 132]											
133	212415	FINISHING WORKS AND E&M WORKS	115 days	5 days	Wed 28/8/19	Fri 20/12/19	NA	NA	130FS-50 days,131FS-50 d	0%	77 days	135	[Gantt chart bars for 133]											
134	212416	SKJV NCE No. 181 - ADDITIONAL FLOODING WARNING SYSTEM FOR SUBWAY A	342 days	0 day	Fri 26/10/18	Wed 2/10/19	Fri 26/10/18	NA		30%	156 days	135,419SS	[Gantt chart bars for 134]											
135	212417	ROAD WORKS INSIDE SUBWAY	40 days	2 days	Wed 15/1/20	Sun 23/2/20	NA	NA	133,134,132,128	0%	52 days	149	[Gantt chart bars for 135]											
136	212420	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+350 TO 2+650	691 days		Sun 2/4/17	Thu 21/2/19	Sun 2/4/17	Thu 21/2/19		100%	0 days		[Gantt chart bars for 136]											
137	212425	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+350 TO 2+650, SUSPENSION OF WORKS DUE TO CONFLICT OF CYCLE TRACK WITH EXISTING DWARF WALL, MCAL LETTER DATED 11/4/2017)	10 days	0 day	Sun 2/4/17	Tue 11/4/17	Sun 2/4/17	Tue 11/4/17	109	100%	0 days	138	[Gantt chart bars for 137]											
138	212430	PENDING SUPERVISOR TO ISSUE CE TO RESOLVE CONFLICT (SKJV NCE No.45) & SKJV Letter Ref.: SO/2436 & Dated 20/8/2018 - Confirmation of Additional Bicycle Parapet Footing in Portion B	496 days	0 day	Wed 12/4/17	Mon 20/8/18	Wed 12/4/17	Mon 20/8/18	137	100%	0 days	139	[Gantt chart bars for 138]											
139	212435	SKJV NCE No. 45 - Preparation Works	15 days	0 day	Tue 21/8/18	Tue 4/9/18	Tue 21/8/18	Tue 4/9/18	138	100%	0 days	140	[Gantt chart bars for 139]											
140	212440	SKJV NCE No.45 - Site Works	120 days	0 day	Wed 5/9/18	Wed 21/1/19	Wed 5/9/18	Wed 21/1/19	139	100%	0 days	146,141	[Gantt chart bars for 140]											
141	212450	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+650 TO 2+930	50 days	0 day	Thu 3/1/19	Thu 21/2/19	Thu 3/1/19	Thu 21/2/19	140	100%	0 days	146	[Gantt chart bars for 141]											
142	212451	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (DESIGN SUBMISSION & APPROVAL)	360 days	0 day	Tue 21/11/17	Thu 15/11/18	Tue 21/11/17	Thu 15/11/18	96SS	100%	0 days	143,144	[Gantt chart bars for 142]											
143	212452	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (ASSOCIATED CIVIL PROVISION WORKS)	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	142	100%	0 days	145	[Gantt chart bars for 143]											
144	212453	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	142	100%	0 days	145	[Gantt chart bars for 144]											
145	212454	INSTALLATION OF LED STREET LIGHTING BY OTHERS	197 days	0 day	Sat 16/2/19	Sat 31/8/19	Sat 16/2/19	NA	144,143	70%	198 days	147	[Gantt chart bars for 145]											
146	212455	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	40 days	5 days	Fri 22/2/19	Tue 2/4/19	Fri 22/2/19	Tue 2/4/19	140,141	100%	0 days	147	[Gantt chart bars for 146]											
147	212456	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	30 days	2 days	Sun 1/9/19	Mon 30/9/19	NA	NA	146,145	0%	198 days	149	[Gantt chart bars for 147]											
148	212460	RESTING STATION R6	60 days	7 days	Thu 17/10/19	Sun 15/12/19	NA	NA	123,130	0%	122 days	149	[Gantt chart bars for 148]											
149	212465	PORTION B - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 23/2/20	Sun 23/2/20	NA	NA	135,148,147	0%	52 days	235	[Gantt chart bars for 149]											
150	212470	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	11	0%	1175 days		[Gantt chart bars for 150]											
151	212471	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	12	0%	1235 days		[Gantt chart bars for 151]											
152	213000	PORTION C (MP 2+950 - MP 4+010)	1226 days		Thu 30/6/16	Thu 7/11/19	Thu 30/6/16	NA		69%	160 days		[Gantt chart bars for 152]											
153	213010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	67FS+60 days	100%	0 days	154	[Gantt chart bars for 153]											
154	213020	INITIAL SURVEY + 9 DAY DELAY (INCLEMENT WEATHER IN SEPT TO OCT 16)	63 days	4 days	Mon 29/8/16	Sun 30/10/16	Mon 29/8/16	Sun 30/10/16	153	100%	0 days	155,162	[Gantt chart bars for 154]											
155	213030	TREE SURVEY	75 days	7 days	Sat 22/10/16	Wed 4/1/17	Sat 22/10/16	Wed 4/1/17	154	100%	0 days	156	[Gantt chart bars for 155]											
156	213040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	75 days	5 days	Thu 5/1/17	Mon 20/3/17	Thu 5/1/17	Mon 20/3/17	155	100%	0 days	159FS+65 days,168	[Gantt chart bars for 156]											

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



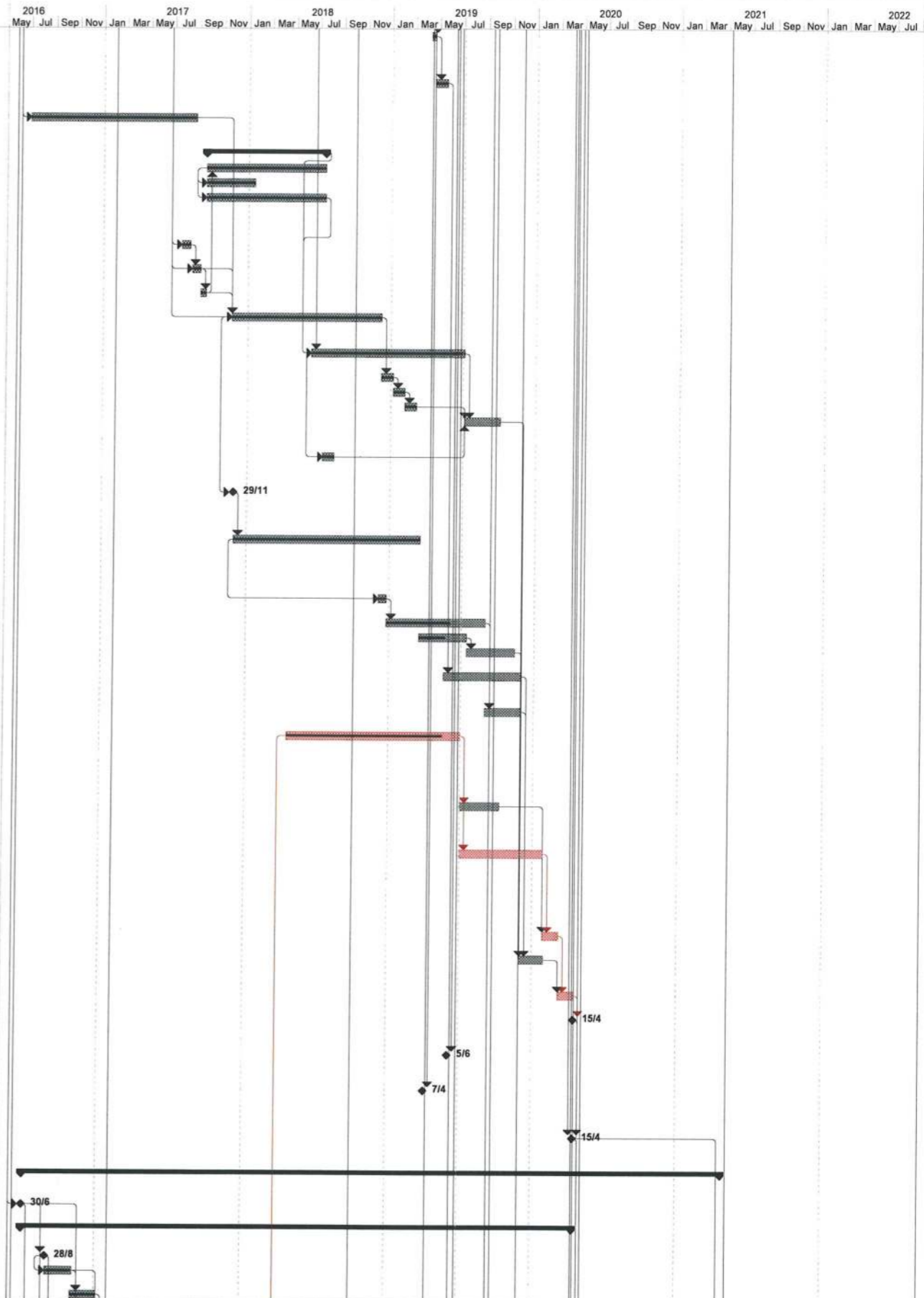
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																							
157	213050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	520 days	0 day	Thu 30/6/16	Fri 1/12/17	Thu 30/6/16	Fri 1/12/17	67SS	100%	0 days	178	[Gantt Chart Data]																							
158	213060	UTILITIES DIVERSION WORKS	170 days	0 day	Thu 18/5/17	Fri 3/11/17	Thu 18/5/17	Fri 3/11/17		100%	0 days		[Gantt Chart Data]																							
159	213070	CLP	30 days	3 days	Thu 18/5/17	Fri 16/6/17	Thu 18/5/17	Fri 16/6/17	156FS+65 days	100%	0 days	160FS+80 days, 161FS+80 days	[Gantt Chart Data]																							
160	213080	PCCW	60 days	3 days	Tue 5/9/17	Fri 3/11/17	Tue 5/9/17	Fri 3/11/17	159FS+80 days	100%	0 days		[Gantt Chart Data]																							
161	213085	WSD	60 days	3 days	Tue 5/9/17	Fri 3/11/17	Tue 5/9/17	Fri 3/11/17	159FS+80 days	100%	0 days		[Gantt Chart Data]																							
162	213090	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS) + 1 day DELAY (INCLEMENT WEATHER IN OCT 16)	61 days	5 days	Mon 31/10/16	Fri 30/12/16	Mon 31/10/16	Fri 30/12/16	154	100%	0 days	163	[Gantt Chart Data]																							
163	213100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	3 days	Sat 31/12/16	Fri 20/1/17	Sat 31/12/16	Fri 20/1/17	162	100%	0 days	164	[Gantt Chart Data]																							
164	213110	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Sat 21/1/17	Fri 3/2/17	Sat 21/1/17	Fri 3/2/17	163	100%	0 days	168	[Gantt Chart Data]																							
165	213120	RETAINING WALL - RW 11A (50M) - CSD	100 days	5 days	Fri 12/10/18	Sat 19/1/19	Fri 12/10/18	Sat 19/1/19	176,177	100%	0 days		[Gantt Chart Data]																							
166	213130	RETAINING WALL - RW 11B : BAY1 - BAY 6 (60M)	115 days	5 days	Wed 14/6/17	Fri 6/10/17	Wed 14/6/17	Fri 6/10/17	168	100%	0 days	183	[Gantt Chart Data]																							
167	213140	RETAINING WALL - RW 11B : BAY 7 - BAY 12 (60M)	115 days	5 days	Wed 14/6/17	Fri 6/10/17	Wed 14/6/17	Fri 6/10/17	168FS-30 days	100%	0 days	183	[Gantt Chart Data]																							
168	213150	RETAINING WALL - RW 11C : BAY 1 - BAY 7 (70M)	100 days	7 days	Tue 21/3/17	Wed 28/6/17	Tue 21/3/17	Wed 28/6/17	164,156	100%	0 days	169SS, 167FS-30 days, 170SS, 166, 183	[Gantt Chart Data]																							
169	213160	RETAINING WALL - RW 11C : BAY 8 - BAY 14 (70M)	100 days	5 days	Tue 21/3/17	Wed 28/6/17	Tue 21/3/17	Wed 28/6/17	168SS	100%	0 days	172FS-30 days	[Gantt Chart Data]																							
170	213170	RETAINING WALL - RW 11C : BAY 15 - BAY 26 (+ SKJV NCE)	508 days	7 days	Tue 21/3/17	Fri 10/8/18	Tue 21/3/17	Fri 10/8/18	168SS	100%	0 days		[Gantt Chart Data]																							
171	213175	RETAINING WALL - RW 12 : BAY 0 (+ Delay due to SKJV NCE No.99 - Additional of Bay 0, 17 & 18 for RW12)	80 days	2 days	Sun 29/10/17	Tue 16/1/18	Sun 29/10/17	Tue 16/1/18	172FS-80 days	100%	0 days	183	[Gantt Chart Data]																							
172	213180	RETAINING WALL - RW 12 : BAY 1 - BAY 8 (80M) (+ DELAY DUE TO OF WORKS DUE TO CONFLICT OF CLP'S POLE)	232 days	7 days	Tue 30/5/17	Tue 16/1/18	Tue 30/5/17	Tue 16/1/18	169FS-30 days	100%	0 days	171FS-80 days, 183, 190, 173SS	[Gantt Chart Data]																							
173	213190	RETAINING WALL - RW 12 : BAY 9 - BAY 16 (80M)	232 days	7 days	Tue 30/5/17	Tue 16/1/18	Tue 30/5/17	Tue 16/1/18	172SS	100%	0 days	176SS, 174FS-80 days, 183	[Gantt Chart Data]																							
174	213195	RETAINING WALL - RW 12 : BAY 17 to 18 (+SKJV NCE)	80 days	2 days	Sun 29/10/17	Tue 16/1/18	Sun 29/10/17	Tue 16/1/18	173FS-80 days	100%	0 days	175SS+8 days, 183	[Gantt Chart Data]																							
175	213200	RETAINING WALL - RW 13 (40M) (+ SKJV NCE)	200 days	5 days	Mon 6/11/17	Thu 24/5/18	Mon 6/11/17	Thu 24/5/18	174SS+8 days	100%	0 days	177	[Gantt Chart Data]																							
176	213210	RETAINING WALL - RW 14, STAIRCASE S4 (55M)	500 days	5 days	Tue 30/5/17	Thu 11/10/18	Tue 30/5/17	Thu 11/10/18	173SS	100%	0 days	165, 178	[Gantt Chart Data]																							
177	213220	RETAINING WALL - RW 15A (7.5M) (+ SKJV NCE)	50 days	2 days	Fri 25/5/18	Fri 13/7/18	Fri 25/5/18	Fri 13/7/18	175	100%	0 days	178, 165	[Gantt Chart Data]																							
178	213230	RAMP NEAR YAU POK ROAD + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	177, 157, 176	0%	160 days	179SS, 180SS, 181SS, 182SS, 189	[Gantt Chart Data]																							
179	213240	STAIRCASE S1 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	189	[Gantt Chart Data]																							
180	213250	STAIRCASE S2 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	189	[Gantt Chart Data]																							
181	213260	STAIRCASE S3 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	189	[Gantt Chart Data]																							
182	213270	RAMP AND STAIRCASE - CSR1 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	183FS-323 days, 189	[Gantt Chart Data]																							
183	213280	EARTHWORKS AND DRAINAGE WORKS FROM CH2+971 TO 4+010	215 days	10 days	Wed 28/11/18	Sun 30/6/19	Wed 28/11/18	NA	166, 167, 168, 171, 172, 173, 193 days	91 days	188FS-100 days		[Gantt Chart Data]																							
184	213281	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (DESIGN SUBMISSION & APPROVAL)	360 days	0 day	Tue 21/11/17	Thu 15/11/18	Tue 21/11/17	Thu 15/11/18	96SS	100%	0 days	185, 186	[Gantt Chart Data]																							
185	213282	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (ASSOCIATED CIVIL PROVISION WORKS)	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	184	100%	0 days	187	[Gantt Chart Data]																							
186	213283	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	184	100%	0 days	187	[Gantt Chart Data]																							
187	213284	INSTALLATION OF LED STREET LIGHTING BY OTHERS	197 days	0 day	Sat 16/2/19	Sat 31/8/19	Sat 16/2/19	NA	186, 185	70%	206 days	189	[Gantt Chart Data]																							
188	213290	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	130 days	4 days	Sat 23/3/19	Tue 30/7/19	Sat 23/3/19	NA	183FS-100 days	70%	238 days	189	[Gantt Chart Data]																							
189	213291	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	22 days	1 day	Thu 17/10/19	Thu 7/11/19	NA	NA	187, 188, 178, 179, 180, 181, 190	10%	160 days	191	[Gantt Chart Data]																							
190	213300	RESTING STATION R7	144 days	10 days	Wed 17/1/18	Sat 9/6/18	Wed 17/1/18	Sat 9/6/18	172	100%	0 days	191	[Gantt Chart Data]																							
191	213310	PORTION C - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Thu 7/11/19	Thu 7/11/19	NA	NA	190, 189	0%	160 days	235	[Gantt Chart Data]																							
192	213320	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	11	0%	1175 days		[Gantt Chart Data]																							
193	213321	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	12	0%	1235 days		[Gantt Chart Data]																							
194	214000	PORTION D (MP 4+010 - MP 5+280)	1386 days		Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		79%	0 days		[Gantt Chart Data]																							
195	214010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	67FS+151 days	100%	0 days	196SS, 197SS	[Gantt Chart Data]																							
196	214020	INITIAL SURVEY	220 days	3 days	Mon 28/11/16	Wed 5/7/17	Mon 28/11/16	Wed 5/7/17	195SS	100%	0 days	198	[Gantt Chart Data]																							
197	214030	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	195SS	100%	0 days	198	[Gantt Chart Data]																							
198	214040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE EXCLUDING CH-MP5+050 TO 5+290 (+ DELAY DUE TO INCLEMENT WEATHER)	340 days	5 days	Thu 6/7/17	Sun 10/6/18	Thu 6/7/17	Sun 10/6/18	197, 196	100%	0 days	208SS+14 days, 211SS+140 days, 209SS+40 days, 212	[Gantt Chart Data]																							
199	214041	TREE FELLING WORKS FROM CH-MP5+050 TO 5+290 WAS SUSPENDED, SKJV EW No.12	1 day	0 day	Tue 5/12/17	Tue 5/12/17	Tue 5/12/17	Tue 5/12/17		100%	0 days	200	[Gantt Chart Data]																							
200	214042	PENDING THE SUPERVISOR TO ISSUE CE TO RESOLVE CONFLICT (SKJV EW No.12)	490 days	0 day	Wed 6/12/17	Tue 9/4/19	Wed 6/12/17	Tue 9/4/19	199	100%	0 days	201	[Gantt Chart Data]																							

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

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	



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors
201	214043	PREPARATION WORKS FOR TREE FELLING WORKS UNDER CE TO RESOLVE CONFLICT (SKJV EW No.12) BY SKJV (ASSUMED 20 days)	10 days	0 day	Wed 10/4/19	Fri 19/4/19	Wed 10/4/19	Fri 19/4/19	200	100%	0 days	202
202	214044	TREE FELLING WORKS FROM CH-MP5+050 TO 5+290 (SKJV EW No. 12)	30 days	0 day	Sat 20/4/19	Sun 19/5/19	Sat 20/4/19	Sun 19/5/19	201	100%	0 days	224
203	214050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVISE	420 days	0 day	Thu 30/6/16	Wed 23/8/17	Thu 30/6/16	Wed 23/8/17	67SS	100%	0 days	211
204	214060	UTILITIES DIVERSION WORKS	300 days	0 day	Tue 19/9/17	Sun 15/7/18	Tue 19/9/17	Sun 15/7/18		100%	0 days	212FS-40 days
205	214070	CLP	300 days	3 days	Tue 19/9/17	Sun 15/7/18	Tue 19/9/17	Sun 15/7/18	210	100%	0 days	206SS,207SS
206	214080	PCCW	120 days	3 days	Tue 19/9/17	Tue 16/1/18	Tue 19/9/17	Tue 16/1/18	205SS	100%	0 days	
207	214085	WSD (+DELAY DUE TO SKJV NCE No.63 Additional Relocation of Existing WSD Utilities in Conflict with Proposed Works)	300 days	3 days	Tue 19/9/17	Sun 15/7/18	Tue 19/9/17	Sun 15/7/18	205SS	100%	0 days	212FS-40 days
208	214090	GROUND INVESTIGATION WORKS (3 NOS. BOREHOLE & TRIAL PITS)	21 days	2 days	Thu 20/7/17	Wed 9/8/17	Thu 20/7/17	Wed 9/8/17	198SS+14 days	100%	0 days	209
209	214100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 15/8/17	Mon 4/9/17	Tue 15/8/17	Mon 4/9/17	198SS+40 days,208	100%	0 days	210,211
210	214110	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Tue 5/9/17	Mon 18/9/17	Tue 5/9/17	Mon 18/9/17	209	100%	0 days	211,205
211	214120	RETAINING WALL - RW 15B + SKJV NCE No.81 Additional 3 Bays	380 days	7 days	Thu 23/11/17	Fri 7/12/18	Thu 23/11/17	Fri 7/12/18	198SS+140 days,209,210,203	100%	0 days	218SS,213
212	214130	RETAINING WALL - RW 15C (45M) & STAIRCASE S6	390 days	7 days	Mon 11/6/18	Fri 5/7/19	Mon 11/6/18	Fri 5/7/19	207FS-40 days,198,204FS-40 days	100%	0 days	216,217SS+30 days
213	214140	STREAM DECKING D1	30 days	3 days	Sat 8/12/18	Sun 6/1/19	Sat 8/12/18	Sun 6/1/19	211	100%	0 days	214
214	214150	STREAM DECKING D2	30 days	3 days	Mon 7/1/19	Tue 5/2/19	Mon 7/1/19	Tue 5/2/19	213	100%	0 days	215
215	214160	STREAM DECKING D3	30 days	3 days	Wed 6/2/19	Thu 7/3/19	Wed 6/2/19	Thu 7/3/19	214	100%	0 days	216
216	214170	PEDSTRIAN RAMP CONSTRUCTION & PROVIDE SAFETY ACCESS TO RESIDENT @ CH-MP4+500 (Compensation Event)	90 days	7 days	Sat 6/7/19	Thu 3/10/19	NA	NA	212,217,215	0%	95 days	230
217	214190	DEMOLITION OF EXISTING STRUCTURE @ CH-MP4+500	30 days	2 days	Wed 11/7/18	Thu 9/8/18	Wed 11/7/18	Thu 9/8/18	212SS+30 days	100%	0 days	216
218	214200	RW16A (80M) (THE WORKS SUSPENDED, SKJV EW No.10 - Conflict of Proposed Cycle Track and Actual Site Condition CH-MP-4+660 TO 5+010)	1 day	0 day	Wed 29/11/17	Wed 29/11/17	Wed 29/11/17	Wed 29/11/17	211SS	100%	0 days	219
219	214201	PENDING THE SUPERVISOR TO ISSUE CE-181 REVISION OF RETAINING WALL No. RW16A & ASSOCIATED DRAINAGE WORKS AT KO HANG IN PORTION D, TO RESOLVE CONFLICT (SKJV EW No.10)	475 days	0 day	Thu 30/11/17	Tue 19/3/19	Thu 30/11/17	Tue 19/3/19	218	100%	0 days	220SS+370 days
220	214202	PREPARATION WORKS FOR WORKS UNDER CE-181	20 days	0 day	Wed 5/12/18	Mon 24/12/18	Wed 5/12/18	Mon 24/12/18	219SS+370 days	100%	0 days	221
221	214203	CONSTRUCTION WORKS FOR CE-181	250 days	0 day	Tue 25/12/18	Sat 31/8/19	Tue 25/12/18	NA	220	65%	37 days	225
222	214204	SKJV EW No. 57 - RW16A BAY25 TO 28	120 days	0 day	Mon 18/3/19	Mon 15/7/19	Mon 18/3/19	NA	222	55%	55 days	223
223	214205	CONSTRUCTION WORKS FOR RW16A BAY 25 TO 28	120 days	0 day	Tue 16/7/19	Tue 12/11/19	NA	NA	222	0%	55 days	230
224	214208	SKJV NCE No. 388 - ADDITIONAL PLANTER WALL PWD1 & REVISED DRAINAGE BETWEEN CH MP5+053 AND 5+155	195 days	2 days	Mon 20/5/19	Sat 30/11/19	NA	NA	202	0%	37 days	230
225	214210	EARTHWORKS AND DRAINAGE WORKS	91 days	8 days	Sun 1/9/19	Sat 30/11/19	NA	NA	221	0%	37 days	230
226	214211	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA		90%	0 days	227,228,304SS
227	214212	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	226	0%	110 days	229
228	214213	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	226	0%	0 days	229
229	214214	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	228,227	0%	0 days	231
230	214220	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	60 days	4 days	Sun 1/12/19	Wed 29/1/20	NA	NA	225,224,223,216	0%	37 days	231
231	214221	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	2 days	Sat 7/3/20	Wed 15/4/20	NA	NA	230,229	0%	0 days	232
232	214222	PORTION D - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	231	0%	0 days	235
233	214225	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	11	0%	1175 days	
234	214226	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	12	0%	1235 days	
235	210030	W1 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT UP TO THIS PROG DATE	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	102,149,191,232	0%	0 days	694,645,13
236		<b>SECTION W2 (PORTION E, F, G, H, I &amp; N)</b>	<b>1761 days</b>	<b>days</b>	<b>Thu 30/6/16</b>	<b>Sun 25/4/21</b>	<b>Thu 30/6/16</b>	<b>NA</b>		<b>77%</b>	<b>485 days</b>	
237	220010	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	239FS+60 days,314FS+151 days,348,368FS+60
238	221000	PORTION E (MP 5+280 - MP 6+530)	1386 days	days	Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		80%	860 days	
239	221010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	237FS+60 days	100%	0 days	240SS,253
240	221020	INITIAL SURVEY + 4 DAY DELAY (INCLEMENT WEATHER) IN NOV 16	69 days	5 days	Mon 29/8/16	Sat 5/11/16	Mon 29/8/16	Sat 5/11/16	239SS	100%	0 days	242,241
241	221030	TREE SURVEY	65 days	5 days	Wed 2/11/16	Thu 5/1/17	Wed 2/11/16	Thu 5/1/17	240	100%	0 days	242



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



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016												2017												2018												2019												2020												2021												2022											
242	221040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE (+ DELAY DUE TO INCLEMENT WEATHER)	102 days	5 days	Fri 6/1/17	Mon 17/4/17	Fri 6/1/17	Mon 17/4/17	240,241	100%	0 days	248SS+14 days,256,245FS+136 days,294SS,279,289	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
243	221050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVISE	240 days	0 day	Thu 30/8/16	Fri 24/2/17	Thu 30/8/16	Fri 24/2/17	237SS	100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
244	221060	UTILITIES DIVERSION WORKS (GAS MAIN, CLP, WSD)	464 days	0 day	Fri 1/9/17	Sat 8/12/18	Fri 1/9/17	Sat 8/12/18		100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
245	221070	GAS MAIN (Culvert D4) (NO DIVERSION IS REQUIRED)	90 days	5 days	Fri 1/9/17	Wed 29/11/17	Fri 1/9/17	Wed 29/11/17	242FS+136 days	100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
246	221080	CLP (NOT REQUIRED)	90 days	5 days	Sat 13/1/18	Thu 12/4/18	Sat 13/1/18	Thu 12/4/18	247SS	100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
247	221081	WSD	330 days	5 days	Sat 13/1/18	Sat 8/12/18	Sat 13/1/18	Sat 8/12/18	276SS	100%	0 days	246SS	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
248	221090	GROUND INVESTIGATION WORKS (9 NOS. BOREHOLE & TRIAL PITS)	45 days	4 days	Fri 20/1/17	Sun 5/3/17	Fri 20/1/17	Sun 5/3/17	242SS+14 days	100%	0 days	256,249SS,279	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
249	221100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Fri 20/1/17	Thu 9/2/17	Fri 20/1/17	Thu 9/2/17	248SS	100%	0 days	250	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
250	221110	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Fri 10/2/17	Thu 2/3/17	Fri 10/2/17	Thu 2/3/17	249	100%	0 days	256,279FS+100 days	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
251	221120	TTM PREPARATION	76 days	7 days	Thu 30/6/16	Tue 13/9/16	Thu 30/6/16	Tue 13/9/16	255	100%	0 days	252	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
252	221130	TTM APPROVAL BY RSS/TMLG	90 days	7 days	Wed 14/9/16	Mon 12/12/16	Wed 14/9/16	Mon 12/12/16	251	100%	0 days	256	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
253	221140	PREPARATION OF TDMP FOR BOX CULVERTS	60 days	5 days	Mon 29/8/16	Thu 27/10/16	Mon 29/8/16	Thu 27/10/16	239	100%	0 days	254	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
254	221150	APPROVAL OF TDMP BY SUPERVISOR/DSD	30 days	3 days	Fri 28/10/16	Sat 26/11/16	Fri 28/10/16	Sat 26/11/16	253	100%	0 days	256	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
255	221160	MP 5+465 - MP 5+515	875 days		Wed 20/9/17	Tue 11/2/20	Wed 20/9/17	NA		91%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
256	221170	RETAINING WALL - RW D02 & D04 (80M) + SKJV NCE	440 days	2 days	Wed 20/9/17	Mon 3/12/18	Wed 20/9/17	Mon 3/12/18	242,252,254,248,250,279S:	100%	0 days	277SS+25 days,272SS+115 days,261SS+330 days,260,263,257	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
257		Remaining Work on RW D2 waiting for CE on RW D3	45 days		Sun 29/12/19	Tue 11/2/20	NA	NA	256,265FS-15 days	0%	395 days	269	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
258	221180	MP 5+515 - MP 5+595	405 days		Thu 16/8/18	Tue 24/9/19	Thu 16/8/18	NA		95%	535 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
259	221190	RETAINING WALL - RW D05	100 days	2 days	Mon 17/6/19	Tue 24/9/19	Mon 17/6/19	Tue 24/9/19	260	80%	535 days	269	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
260	221191	RETAINING WALL - RW D06	195 days	0 day	Tue 4/12/18	Sun 16/6/19	Tue 4/12/18	Sun 16/6/19	256,261	100%	0 days	259	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
261	221200	RETAINING WALL - RW D07 (70M) - CSD	70 days	3 days	Thu 16/8/18	Wed 24/10/18	Thu 16/8/18	Wed 24/10/18	256SS+330 days	100%	0 days	260	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
262	221210	MP 5+280 - MP 6+020	877 days		Wed 1/11/17	Thu 26/3/20	Wed 1/11/17	NA		25%	395 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
263	221211	RETAINING WALL - RW D03, SKJV NEW No. 48 - Outstanding Details of Retaining Wall RWD3. Pending for Supervisor to Resolve the Issue Up to this Prog Date	255 days	0 day	Tue 4/12/18	Thu 15/8/19	Tue 4/12/18	NA	256	0%	395 days	264	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
264	221212	RETAINING WALL - RW D03, Site Works Preparation	30 days	0 day	Fri 16/8/19	Sat 14/9/19	NA	NA	263	0%	395 days	265	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
265	221220	RETAINING WALL - RW D03, Site Works (EP PERMIT START ON SEPT ONLY)	120 days	3 days	Sun 15/9/19	Sun 12/1/20	NA	NA	264	0%	395 days	257FS-15 days	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
266	221225	START DATE OF DRY SEASON	1 day	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17		100%	0 days	267	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
267	221230	BOX CULVERT D4 + CE-048 REVISED BOX CULVERT D4	151 days	4 days	Wed 1/11/17	Sat 3/3/18	Wed 1/11/17	Sat 3/3/18	266	100%	0 days	268	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
268	221235	END DATE OF DRY SEASON	0 days	0 day	Sat 3/3/18	Sat 3/3/18	Sat 3/3/18	Sat 3/3/18	267	100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
269	221250	ROAD WORKS FOR REALIGNMENT	30 days	3 days	Wed 12/2/20	Thu 12/3/20	NA	NA	277,257,259	0%	395 days	270,281SS-90 days	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
270	221260	REALIGNMENT SAN TAM ROAD	14 days	2 days	Fri 13/3/20	Thu 26/3/20	NA	NA	269	0%	395 days	310	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
271	221270	MP 5+900 - MP 6+020	180 days		Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18		100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
272	221280	RETAINING WALL - RW D15 (113M) - CSD	180 days	10 days	Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18	256SS+115 days	100%	0 days	274SS,276SS	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
273	221290	MP 5+ 595 - MP 5+900	180 days		Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18		100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
274	221300	RETAINING WALL - RW D10 (50M) - CSD	100 days	7 days	Sat 13/1/18	Sun 22/4/18	Sat 13/1/18	Sun 22/4/18	272SS	100%	0 days	275	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
275	221310	RETAINING WALL - RW D08 (66M) - CSD	80 days	8 days	Mon 23/4/18	Wed 11/7/18	Mon 23/4/18	Wed 11/7/18	274	100%	0 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
276	221320	DRAINAGE WORKS, EARTHWORKS FOR RWD15, D10 & D8	180 days	8 days	Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18	272SS	100%	0 days	308,247SS	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
277	221325	DRAINAGE WORKS, EARTHWORKS FROM MP5+280 TO 6+020 (Excluding RWD15, 10 & D8)	820 days	3 days	Sun 15/10/17	Sun 12/1/20	Sun 15/10/17	NA	256SS+25 days	70%	425 days	269	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
278	221330	MP 6+420 - MP 6+530	930 days		Sun 11/6/17	Fri 27/12/19	Sun 11/6/17	NA		95%	485 days		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
279	221340	RETAINING WALL - RW D25	570 days	3 days	Sun 11/6/17	Tue 1/1/19	Sun 11/6/17	Tue 1/1/19	248,250FS+100 days,242	100%	0 days	289SS,256SS+101 days,280SS+220 days,281	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
280	221342	RETAINING WALL - RW D26 (+ SKJV NCE)	260 days	2 days	Wed 17/1/18	Wed 3/10/18	Wed 17/1/18	Wed 3/10/18	279SS+220 days	100%	0 days	281,301	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
281	221344	ROAD WORKS FOR REALIGNMENT	30 days	2 days	Thu 14/11/19	Fri 13/12/19	NA	NA	280,279,269SS-90 days	0%	485 days	282	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]</																																															



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																											
302	221545	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS FROM MP6+020 TO 6+530	350 days	10 days	Thu 4/10/18	Wed 18/9/19	Thu 4/10/18	NA	289,291,292,296,298,299,300	80%	545 days	308FF	[Gantt Chart Data]																											
303	221546	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION E	300 days	5 days	Thu 1/11/18	Tue 27/8/19	Thu 1/11/18	NA		70%	567 days	308FF	[Gantt Chart Data]																											
304	221547	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION E (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	226SS	90%	375 days	305,306,337SS,358SS,394SS,443SS	[Gantt Chart Data]																											
305	221548	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION E (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	304	0%	485 days	307	[Gantt Chart Data]																											
306	221549	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	304	0%	375 days	307	[Gantt Chart Data]																											
307	221550	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	305,306	0%	375 days	309	[Gantt Chart Data]																											
308	221551	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	310 days	5 days	Tue 13/11/18	Wed 18/9/19	NA	NA	302FF,276,303FF	0%	545 days	309	[Gantt Chart Data]																											
309	221552	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	0 day	Sat 7/3/20	Wed 15/4/20	NA	NA	308,307	0%	375 days	310	[Gantt Chart Data]																											
310	221555	PORTION E - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	270,282,309	0%	375 days	452	[Gantt Chart Data]																											
311	221560	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days		[Gantt Chart Data]																											
312	221561	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days		[Gantt Chart Data]																											
313	222000	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1386 days		Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		80%	375 days		[Gantt Chart Data]																											
314	222010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	237FS+151 days	100%	0 days	315SS,316SS	[Gantt Chart Data]																											
315	222020	INITIAL SURVEY	215 days	4 days	Mon 28/11/16	Fri 30/6/17	Mon 28/11/16	Fri 30/6/17	314SS	100%	0 days	317,327SS+115 days	[Gantt Chart Data]																											
316	222030	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	314SS	100%	0 days	317	[Gantt Chart Data]																											
317	222040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE (+ DELAY DUE TO INCLEMENT WEATHER)	150 days	5 days	Sat 1/7/17	Mon 27/11/17	Sat 1/7/17	Mon 27/11/17	316,315	100%	0 days	318,336	[Gantt Chart Data]																											
318	222050	UTILITIES DIVERSION WORKS (CLP, TOWN GAS)	90 days	0 day	Tue 28/11/17	Sun 25/2/18	Tue 28/11/17	Sun 25/2/18	317	100%	0 days		[Gantt Chart Data]																											
319	222120	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	565 days	0 day	Thu 30/6/16	Mon 15/1/18	Thu 30/6/16	Mon 15/1/18	2SS	100%	0 days	320	[Gantt Chart Data]																											
320	222130	ARRANGEMENT OF SITE INVESTIGATION WORKS	7 days	0 day	Tue 16/1/18	Mon 22/1/18	Tue 16/1/18	Mon 22/1/18	319	100%	0 days	321	[Gantt Chart Data]																											
321	222140	SITE INVESTIGATION WORKS AND TESTING	60 days	0 day	Tue 23/1/18	Fri 23/3/18	Tue 23/1/18	Fri 23/3/18	320	100%	0 days	322,324,331	[Gantt Chart Data]																											
322	222145	AWAITING FOR INSTRUCTION FOR REMEDIAL WORKS FOR CONTAMINATED SOIL	363 days	2 days	Sat 24/3/18	Thu 21/3/19	Sat 24/3/18	Thu 21/3/19	321	100%	0 days	323,325SS	[Gantt Chart Data]																											
323	222146	ISSUED DATE OF CE-158 TREATMENT OF CONTAMINATED SOIL IN PORTION F	1 day	0 day	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	322	100%	0 days		[Gantt Chart Data]																											
324	222150	PREPARATION WORKS FOR TREATMENT OF CONTAMINATED SOIL	30 days	3 days	Sat 24/3/18	Sun 22/4/18	Sat 24/3/18	Sun 22/4/18	321	100%	0 days	325SS	[Gantt Chart Data]																											
325	222155	IMPLEMENTATION OF DE-CONTAMINATION WORKS & ASSOCIATED EARTHWORK & DRAINAGE WORKS	479 days	5 days	Sat 24/3/18	Mon 15/7/19	Sat 24/3/18	Mon 15/7/19	324SS,322SS	100%	0 days	326SS+55 days,332	[Gantt Chart Data]																											
326	222156	ADDITIONAL RETAINING WALL RWD26A, RWD26B, RWD26C at Chainage CH-ST-6+500 to CH-6+650 (SKJV NCE No. 149 - Additional Drainage and Revised Retaining Wall RWD26A, RWD26B and RWD26C)	280 days	0 day	Fri 18/5/18	Thu 21/2/19	Fri 18/5/18	Thu 21/2/19	325SS+55 days	100%	0 days		[Gantt Chart Data]																											
327	222160	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Thu 23/3/17	Wed 5/4/17	Thu 23/3/17	Wed 5/4/17	315SS+115 days	100%	0 days	328	[Gantt Chart Data]																											
328	222165	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Thu 6/4/17	Wed 26/4/17	Thu 6/4/17	Wed 26/4/17	327	100%	0 days	329	[Gantt Chart Data]																											
329	222170	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Thu 27/4/17	Wed 17/5/17	Thu 27/4/17	Wed 17/5/17	328	100%	0 days		[Gantt Chart Data]																											
330	222180	RW 42 (60M) - CSD	60 days	7 days	Fri 1/11/19	Mon 30/12/19	NA	NA	441SS	0%	382 days	341FS-15 days	[Gantt Chart Data]																											
331	222190	RW 43 (+ SKJV NCE No. 91 Additional Bays/Revised Details and Realignment of Storm Drain Pipe, No. 118 Revised RC Details, No.148 Additional Rockfill Arrangement, No.195 Revised Details of Bay 5, )	285 days	5 days	Sat 24/3/18	Wed 2/1/19	Sat 24/3/18	Wed 2/1/19	321	100%	0 days	335	[Gantt Chart Data]																											
332	222200	RW 44 (36M U)	80 days	5 days	Tue 1/10/19	Thu 19/12/19	NA	NA	325,334	0%	398 days	341FS-20 days	[Gantt Chart Data]																											
333	222210	RAMP PR3 CONSTRUCTION	80 days	3 days	Tue 1/10/19	Thu 19/12/19	NA	NA	334	0%	398 days	341FS-20 days	[Gantt Chart Data]																											
334	222212	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION F	214 days	5 days	Fri 1/3/19	Mon 30/9/19	Fri 1/3/19	NA		70%	398 days	341,332,333	[Gantt Chart Data]																											
335	222215	EARTHWORKS AND DRAINAGE WORK RW43, RWD26A, RWD26B & RWD26C, RW43	130 days	10 days	Thu 3/1/19	Sun 12/5/19	Thu 3/1/19	Sun 12/5/19	331	100%	0 days	341	[Gantt Chart Data]																											
336	222220	EARTHWORKS AND DRAINAGE WORKS AT LOCATION OTHER THAN RW42, RW43, RW44, RW26A, RW26B, RW26C AND BOUNDARY WALL AT PORTION F	270 days	3 days	Tue 28/11/17	Fri 24/8/18	Tue 28/11/17	Fri 24/8/18	317	100%	0 days	341	[Gantt Chart Data]																											

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	

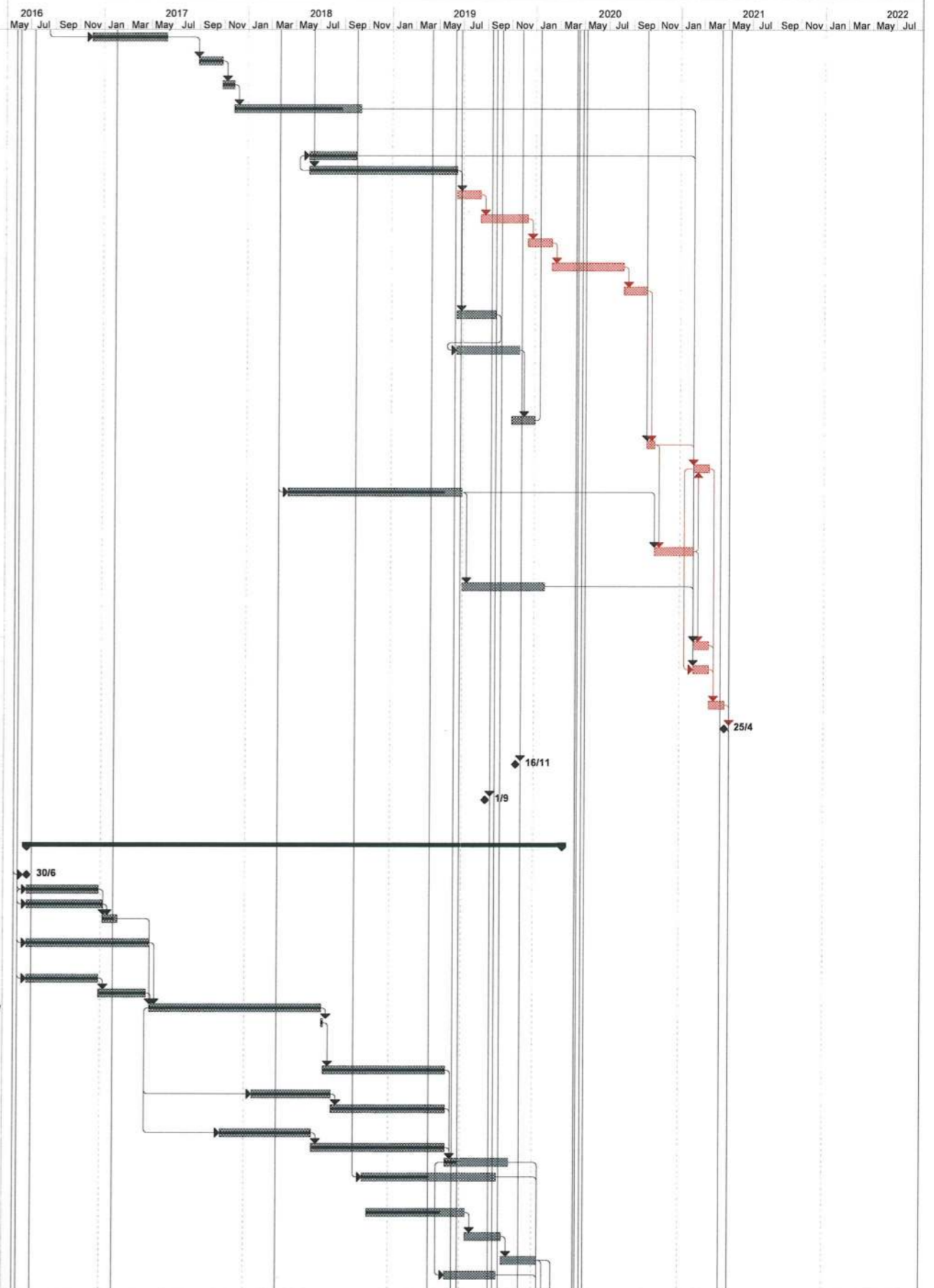
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME







ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors
378	224110	GROUND INVESTIGATION WORKS (6 NOS. BOREHOLE & TRIAL PITS)	190 days	4 days	Fri 2/12/16	Fri 9/6/17	Fri 2/12/16	Fri 9/6/17	369SS+95 days	100%	0 days	379FS+80 days
379	224120	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	60 days	2 days	Tue 29/8/17	Fri 27/10/17	Tue 29/8/17	Fri 27/10/17	378FS+80 days	100%	0 days	380
380	224130	INSTALLATION OF MONITORING MARKERS	30 days	2 days	Sat 28/10/17	Sun 26/11/17	Sat 28/10/17	Sun 26/11/17	379	100%	0 days	381
381	224140	RW 45A (73M) + DELAY DUE TO INCLEMENT WEATHER + CE-039 ROCKFILL ARRANGMENT BENEATH RW45A	320 days	10 days	Mon 27/11/17	Fri 12/10/18	Mon 27/11/17	NA	380	85%	846 days	398
382	224150	RW 45B - CSD and NCE 248	118 days	5 days	Tue 5/6/18	Sun 30/9/18	Tue 5/6/18	Sun 30/9/18	383SS	100%	0 days	398
383	224160	RW 49 + NCE No.164 Additional Rockfill and Revised Dimensions (BAY 5 TO 13)	376 days	5 days	Tue 5/6/18	Sat 15/6/19	Tue 5/6/18	Sat 15/6/19	373	100%	0 days	382SS,384,389
384	224161	RW 49 + NCE No.164 Additional Rockfill and Revised Dimensions (BAY 1 TO 4)	60 days		Sun 16/6/19	Wed 14/8/19	NA	NA	383	0%	0 days	385
385	224162	ADDITIONAL RETAINING WALL RW50 SKJV NCE No. 141 (BAY 1 TO BAY 4)	120 days	0 day	Thu 15/8/19	Thu 12/12/19	NA	NA	384	0%	0 days	386
386	224163	ADDITIONAL LENGTHENING OF RETAINING WALL RW49 SKJV NCE No. 141 (BAY 14 TO 15)	60 days		Fri 13/12/19	Mon 10/2/20	NA	NA	385	0%	0 days	387
387	224165	Additional utilities diversion near RW49 to RW50 to be diverted. (NCE NO. 160)	180 days		Tue 11/2/20	Sat 8/8/20	NA	NA	386	0%	0 days	388
388	224166	DRAINAGE, GULLIES AND ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY FOR RW49 & RW50	60 days	0 day	Sun 9/8/20	Wed 7/10/20	NA	NA	387	0%	0 days	392
389	224170	DW1 & DW1A + SKJV NCE No. 241 Revised Layout of RW DW1, DW1A & DW2 + NCE No. 243 Revised RW No. DW1	100 days	10 days	Sun 16/6/19	Mon 23/9/19	NA	NA	383	0%	190 days	390FS-100 days
390	224180	DW2 (92M) + SKJV NCE No. 241 Revised Layout of RW DW1, DW1A & DW2 + NCE No.308 Suspension of Construction of RW DW2 due to Leakage of WSD Chamber + SKJV EW No. 41 - Conflict between Existing WSD Mains and Cycle Track	160 days	10 days	Sun 16/6/19	Fri 22/11/19	NA	NA	389FS-100 days	0%	190 days	391FS-20 days
391	224190	DRAINAGE WORKS ALONG DW1, DW1A & DW2	60 days	14 days	Sun 3/11/19	Wed 1/1/20	NA	NA	390FS-20 days	0%	190 days	375
392	224191	TTA AND REALIGNMENT OF CASTLE PEAK ROAD NEAR RW49, RW50, DW1 & DW2	20 days		Thu 8/10/20	Tue 27/10/20	NA	NA	375,376,377,388	0%	0 days	393,395
393	224192	ROAD WORKS FOR REALIGNMENT CARRIAGEWAY FOR DW1 & DW2	40 days	0 day	Fri 5/2/21	Tue 16/3/21	NA	NA	392,395	0%	0 days	398SS,399
394	224193	CE-157 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING CH. ST0+700m TO ST1+700m (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	375 days	395,396
395	224194	CE-157 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING CH. ST0+700m TO ST1+700m (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Wed 28/10/20	Thu 4/2/21	NA	NA	394,392	0%	0 days	397,393
396	224195	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	394	0%	375 days	397
397	224196	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Fri 5/2/21	Tue 16/3/21	NA	NA	396,395	0%	0 days	399
398	224220	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	40 days	3 days	Fri 5/2/21	Tue 16/3/21	NA	NA	381,382,393SS	0%	0 days	399
399	224221	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	2 days	Wed 17/3/21	Sun 25/4/21	NA	NA	398,397,393	0%	0 days	400
400	224230	PORTION H - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	399	0%	0 days	452
401	224240	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days	16/11
402	224241	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days	1/9
403	225000	PORTION I (SUBWAY D)	1353 days		Thu 30/6/16	Fri 13/3/20	Thu 30/6/16	NA		81%	893 days	
404	225010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	405SS
405	225020	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	404SS	100%	0 days	406SS,407
406	225030	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	Thu 30/6/16	Thu 5/1/17	405SS	100%	0 days	407
407	225040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	38 days	2 days	Fri 6/1/17	Sun 12/2/17	Fri 6/1/17	NA	406,405	79%	2018 days	411
408	225050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	310 days	14 days	Thu 30/6/16	Fri 5/5/17	Thu 30/6/16	Fri 5/5/17	237SS	100%	0 days	411
409	225060	TTM PREPARATION	180 days	4 days	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	2SS	100%	0 days	410
410	225070	TTM APPROVAL BY RSS/TMLG	121 days	4 days	Tue 27/12/16	Wed 26/4/17	Tue 27/12/16	Wed 26/4/17	409	100%	0 days	411
411	225080	SUBWAY D CONSTRUCTION, BAY 9 - 11	435 days	10 days	Sat 6/5/17	Sat 14/7/18	Sat 6/5/17	Sat 14/7/18	410,407,408	100%	0 days	412,414SS+260 days,416SS+180 day
412	225085	TTA FOR SUBWAY D CONSTRUCTION, BAY 7 TO 8 + SKJV NCE No.41 OBSTRUCTION OF REVISED RETAINED TREES IN PORTION I	5 days	0 day	Sun 15/7/18	Thu 19/7/18	Sun 15/7/18	Thu 19/7/18	411	100%	0 days	413
413	225086	SUBWAY D CONSTRUCTION, BAY 7 TO 8 & PUMP HOUSE	310 days	10 days	Fri 20/7/18	Sat 25/5/19	Fri 20/7/18	Sat 25/5/19	412	100%	0 days	418
414	225090	SUBWAY D CONSTRUCTION, BAY 15 TO 17	200 days	5 days	Sun 21/1/18	Wed 8/8/18	Sun 21/1/18	Wed 8/8/18	411SS+260 days	100%	0 days	415
415	225091	SUBWAY D CONSTRUCTION, BAY 12 TO 14	290 days	10 days	Thu 9/8/18	Sat 25/5/19	Thu 9/8/18	Sat 25/5/19	414	100%	0 days	418
416	225092	SUBWAY D CONSTRUCTION, BAY 4 TO 6	230 days	10 days	Thu 2/11/17	Tue 19/6/18	Thu 2/11/17	Tue 19/6/18	411SS+180 days	100%	0 days	417
417	225093	SUBWAY D CONSTRUCTION, BAY 1 TO 3	340 days	10 days	Wed 20/6/18	Sat 25/5/19	Wed 20/6/18	Sat 25/5/19	416	100%	0 days	418
418	225110	FINISHING WORKS AND E&M WORKS	160 days	6 days	Sun 26/5/19	Fri 1/11/19	NA	NA	417,415,413	20%	481 days	424,423SS
419	225111	SKJV NCE No. 181 - ADDITIONAL FLOODING WARNING SYSTEM FOR SUBWAYWAY A & D	342 days	0 day	Fri 26/10/18	Wed 2/10/19	Fri 26/10/18	NA	134SS	50%	511 days	424
420	225112	ROOFING - MATERIAL SUBMISSION AND APPROVAL	250 days	0 day	Thu 8/11/18	Mon 15/7/19	Thu 8/11/18	NA		76%	408 days	421
421	225113	ROOFING - ORDER, MANUFACTURING & DELIVER	92 days	0 day	Tue 16/7/19	Tue 15/10/19	NA	NA	420	0%	408 days	422
422	225114	ROOFING - INSTALLATION	90 days	0 day	Wed 16/10/19	Mon 13/1/20	NA	NA	421	0%	408 days	425,424
423	225120	EARTHWORKS AND DRAINAGE WORKS	130 days	3 days	Sun 26/5/19	Wed 2/10/19	NA	NA	418SS	0%	511 days	424



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



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016 2017 2018 2019 2020 2021 2022																							
424	225130	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	35 days	3 days	Tue 14/1/20	Mon 17/2/20	NA	NA	418,423,419,422	0%	408 days	425	[Gantt bar from May 2016 to Mar 2017]																							
425	225131	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	1 day	Tue 18/2/20	Fri 13/3/20	NA	NA	424,422	0%	408 days	426	[Gantt bar from May 2016 to Mar 2017]																							
426	225140	PORTION I - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 13/3/20	Fri 13/3/20	NA	NA	425	0%	408 days	452	[Milestone diamond at Mar 2017]																							
427	225150	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days		[Milestone diamond at Nov 2019]																							
428	225151	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days		[Milestone diamond at Sep 2019]																							
429	226000	PORTION N (BRIDGE B)	1360 days		Thu 30/6/16	Fri 20/3/20	Thu 30/6/16	NA		75%	401 days		[Gantt bar from Jun 2016 to Mar 2020]																							
430	226010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	237	100%	0 days	431SS	[Gantt bar from Jun 2016 to Jun 2016]																							
431	226020	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	Thu 30/6/16	Sun 28/8/16	430SS	100%	0 days	433,432	[Gantt bar from Jun 2016 to Aug 2016]																							
432	226030	TREE SURVEY + 5 DAY DELAY (INCLEMENT WEATHER) IN AUG 2016	135 days	10 days	Mon 29/8/16	Tue 10/1/17	Mon 29/8/16	Tue 10/1/17	431	100%	0 days	433	[Gantt bar from Aug 2016 to Dec 2016]																							
433	226040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	250 days	5 days	Fri 6/1/17	Tue 12/9/17	Fri 6/1/17	Tue 12/9/17	432,431	100%	0 days	437SS+55 days	[Gantt bar from Dec 2016 to Sep 2017]																							
434	226050	UTILITIES DIVERSION WORKS (CLP & TOWN GAS)	420 days	10 days	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18		100%	0 days		[Gantt bar from Jan 2017 to Apr 2018]																							
435	226080	CLP (LIAISON)	420 days	0 day	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18	437SS	100%	0 days	436SS	[Gantt bar from Jan 2017 to Apr 2018]																							
436	226090	TOWN GAS	420 days	0 day	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18	435SS	100%	0 days		[Gantt bar from Jan 2017 to Apr 2018]																							
437	226091	INSPECTION PITS TO IDENTIFY CLP CABLES & GAS MAINS	560 days	0 day	Thu 2/3/17	Wed 12/9/18	Thu 2/3/17	Wed 12/9/18	433SS+55 days	100%	0 days	435SS	[Gantt bar from Jan 2017 to Sep 2018]																							
438	226101	COST SAVINGS DESIGN OF BRIDGE B & RW42 & APPROVAL	625 days	1 days	Sun 29/10/17	Mon 15/7/19	Sun 29/10/17	NA		90%	382 days	439	[Gantt bar from Oct 2017 to Jul 2019]																							
439	226111	BRIDGE B CSD - SUBSTRUCTURE	77 days	4 days	Tue 16/7/19	Mon 30/9/19	NA	NA	438	0%	382 days	440	[Gantt bar from Jul 2019 to Sep 2019]																							
440	226121	BRIDGE B CSD - SUPERSTRUCTURE	61 days	1 days	Tue 1/10/19	Sat 30/11/19	NA	NA	439	0%	382 days	442FS-140 days, 441FS-30 days	[Gantt bar from Oct 2019 to Nov 2019]																							
441	226131	RW42 CSD - SITE FORMATION WORKS	81 days	5 days	Fri 1/11/19	Mon 20/1/20	NA	NA	440FS-30 days	0%	382 days	330SS, 447	[Gantt bar from Nov 2019 to Jan 2020]																							
442	226180	EARTHWORKS AND DRAINAGE WORKS	200 days	2 days	Sun 14/7/19	Wed 29/1/20	NA	NA	440FS-140 days	0%	413 days	447	[Gantt bar from Jul 2019 to Jan 2020]																							
443	226181	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION F & N (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	401 days	444,445	[Gantt bar from Apr 2018 to Jun 2019]																							
444	226182	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION F & N (ASSOCIATED CIVIL PROVISION WORKS) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	443	0%	511 days	446	[Gantt bar from Jul 2019 to Oct 2019]																							
445	226183	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	443	0%	401 days	446	[Gantt bar from Jul 2019 to Jan 2020]																							
446	226184	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	445,444	0%	401 days	448	[Gantt bar from Jan 2020 to Mar 2020]																							
447	226190	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	25 days	2 days	Thu 30/1/20	Sun 23/2/20	NA	NA	442,441	0%	413 days	448	[Gantt bar from Jan 2020 to Feb 2020]																							
448	226191	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	14 days	0 day	Sat 7/3/20	Fri 20/3/20	NA	NA	446,447	0%	401 days	449	[Gantt bar from Mar 2020 to Apr 2020]																							
449	226210	PORTION N - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 20/3/20	Fri 20/3/20	NA	NA	448	0%	401 days	452	[Milestone diamond at Mar 2020]																							
450	226220	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days		[Milestone diamond at Nov 2019]																							
451	226221	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days		[Milestone diamond at Sep 2019]																							
452	220030	W2 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT UP TO PROG DATE	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	344,364,400,426,310,449	0%	0 days	645,698,25	[Milestone diamond at Apr 2021]																							
453		SECTION W3 (PORTION K & J1)	1376 days		Thu 30/6/16	Sun 5/4/20	Thu 30/6/16	NA		78%	870 days		[Gantt bar from Jun 2016 to Apr 2020]																							
454	230010	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	456	[Gantt bar from Jun 2016 to Jun 2016]																							
455	231000	PORTION K (CH KW 1+360 - CH KW 2+070)	1376 days		Thu 30/6/16	Sun 5/4/20	Thu 30/6/16	NA		77%	0 days		[Gantt bar from Jun 2016 to Apr 2020]																							
456	231010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	454	100%	0 days	458SS, 457SS	[Gantt bar from Jun 2016 to Jun 2016]																							
457	231020	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	180 days	0 day	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	456SS	100%	0 days		[Gantt bar from Jun 2016 to Dec 2016]																							
458	231030	INITIAL SURVEY (+ 8 DAY DELAY IN AUG & SEP 16)	128 days	2 days	Thu 30/6/16	Fri 4/11/16	Thu 30/6/16	Fri 4/11/16	456SS	100%	0 days	460,459,463	[Gantt bar from Jun 2016 to Nov 2016]																							
459	231040	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	Thu 28/7/16	Wed 24/8/16	458	100%	0 days	460	[Gantt bar from Jul 2016 to Aug 2016]																							
460	231050	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	Thu 25/8/16	Tue 22/11/16	459,458	100%	0 days	466	[Gantt bar from Aug 2016 to Nov 2016]																							
461	231060	UTILITIES DIVERSION WORKS (CLP)	60 days	0 day	Sat 26/8/17	Tue 24/10/17	Sat 26/8/17	Tue 24/10/17		100%	0 days		[Gantt bar from Aug 2017 to Oct 2017]																							
462	231070	CLP	60 days	5 days	Sat 26/8/17	Tue 24/10/17	Sat 26/8/17	Tue 24/10/17	467SS+90 days	100%	0 days		[Gantt bar from Aug 2017 to Oct 2017]																							
463	231100	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS + 12 DAYS DELAY IN AUG, SEP & OCT 16)	80 days	5 days	Sat 5/11/16	Mon 23/1/17	Sat 5/11/16	Mon 23/1/17	458	100%	0 days	466,464SS,465	[Gantt bar from Nov 2016 to Jan 2017]																							
464	231110	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	Mon 12/9/16	Sun 2/10/16	463SS	100%	0 days	466	[Gantt bar from Sep 2016 to Oct 2016]																							
465	231120	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 24/1/17	Mon 13/2/17	Tue 24/1/17	Mon 13/2/17	463	100%	0 days	466	[Gantt bar from Jan 2017 to Feb 2017]																							
466	231130	RW 29C (66m) (+SKJV NCE No.89 - Additional Bay 0 to RW29C)	252 days	7 days	Tue 14/2/17	Mon 23/10/17	Tue 14/2/17	Mon 23/10/17	460,463,465,464	100%	0 days	467SS+103 days, 468SS+103 days, 470	[Gantt bar from Feb 2017 to Oct 2017]																							
467	231140	RW 29B (50m)	195 days	7 days	Sun 28/5/17	Fri 8/12/17	Sun 28/5/17	Fri 8/12/17	468SS+103 days	100%	0 days	462SS+90 days, 470, 469	[Gantt bar from May 2017 to Dec 2017]																							
468	231150	RW 29A (90m)	240 days	7 days	Sun 28/5/17	Mon 22/1/18	Sun 28/5/17	Mon 22/1/18	466SS+103 days	100%	0 days	469,471	[Gantt bar from May 2017 to Jan 2018]																							
469	231160	RW 27 (90m) - CSD	30 days	7 days	Thu 22/2/18	Fri 23/3/18	Thu 22/2/18	Fri 23/3/18	470,467,468	100%	0 days		[Gantt bar from Feb 2018 to Mar 2018]																							
470	231170	STREAM DECKING D9	75 days	7 days	Sat 9/12/17	Wed 21/2/18	Sat 9/12/17	Wed 21/2/18	467,466	100%	0 days	469	[Gantt bar from Dec 2017 to Feb 2018]																							

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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	



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016												2017												2018												2019												2020												2021												2022											
471	231180	EARTHWORKS AND DRAINAGE WORKS (+ SKJV NCE No.90 - Additional 170m Dward Walls, Revised Alignment CT/FP and Maint. Access between CH KW1+580 to +4910)	298 days	21 days	Tue 23/11/18	Fri 16/11/18	Tue 23/1/18	Fri 16/11/18	468	100%	0 days	476																																																																																				
472	231181	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTINGS IN PORTION A TO D, K & L (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No.327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	0 days	473,474																																																																																				
473	231182	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D, K & L (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	472	0%	110 days	475																																																																																				
474	231183	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	472	0%	0 days	475																																																																																				
475	231184	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	474,473	0%	0 days	477																																																																																				
476	231190	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	190 days	21 days	Sat 17/11/18	Sat 25/5/19	NA	NA	471	0%	286 days	477																																																																																				
477	231191	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	30 days	0 day	Sat 7/3/20	Sun 5/4/20	NA	NA	476,475	0%	0 days	482,485																																																																																				
478	232000	<b>PORTION J1</b>	<b>1316 days</b>		<b>Sun 28/8/16</b>	<b>Sun 5/4/20</b>	<b>Sun 28/8/16</b>	<b>NA</b>		<b>99%</b>	<b>870 days</b>																																																																																					
479	232010	POSSESSION OF SITE (J1)	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	NA	610FS+60 days	100%	0 days	480SS																																																																																				
480	232020	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	Mon 29/8/16	Wed 12/10/16	479SS	100%	0 days	481																																																																																				
481	232030	SITE INVESTIGATION	90 days	10 days	Thu 13/10/16	Tue 10/1/17	Thu 13/10/16	Tue 10/1/17	480	100%	0 days	485																																																																																				
482	232031	PORTION K - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 5/4/20	Sun 5/4/20	NA	NA	477	0%	870 days																																																																																					
483	232032	W3 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Thu 30/5/19	Thu 30/5/19	NA	NA	33	0%	1181 days																																																																																					
484	232033	W3 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Mon 1/4/19	Mon 1/4/19	NA	NA	34	0%	1241 days																																																																																					
485	230040	W3 - PLANNED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT UP TO THIS PROG DATE	0 days	0 day	Sun 5/4/20	Sun 5/4/20	NA	NA	481,477	0%	0 days	702,645,35																																																																																				
486	230050	<b>SECTION W4 PUBLIC TOILET</b>	<b>630 days</b>		<b>Thu 30/6/16</b>	<b>Wed 21/3/18</b>	<b>Thu 30/6/16</b>	<b>Wed 21/3/18</b>		<b>100%</b>	<b>0 days</b>																																																																																					
536	241465	W4 (PORTION L) - LATEST REVISED COMPLETION DATE	1 day	0 day	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	41	100%	0 days																																																																																					
537	241480	W4 - COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT WEATHER & OTHERS ISSUE	0 days	0 day	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	535	100%	0 days	706,645,41																																																																																				
538	250000	<b>SECTION W5 (PORTION M)</b>	<b>1371 days</b>		<b>Thu 30/6/16</b>	<b>Tue 31/3/20</b>	<b>Thu 30/6/16</b>	<b>NA</b>		<b>77%</b>	<b>875 days</b>																																																																																					
539	250010	STARTING DATE OF CONTRACT	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	542SS																																																																																				
540	250020	APPLICATION OF EXCAVATION PERMIT	485 days	0 day	Thu 30/6/16	Fri 27/10/17	Thu 30/6/16	Fri 27/10/17	2SS	100%	0 days	551																																																																																				
541	251000	<b>PORTION M (BRIDGE E)</b>	<b>1371 days</b>		<b>Thu 30/6/16</b>	<b>Tue 31/3/20</b>	<b>Thu 30/6/16</b>	<b>NA</b>		<b>74%</b>	<b>0 days</b>																																																																																					
542	251010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	539SS	100%	0 days	543SS,546SS,544SS																																																																																				
543	251020	INITIAL SURVEY	63 days	2 days	Thu 30/6/16	Wed 31/8/16	Thu 30/6/16	Wed 31/8/16	542SS	100%	0 days	549																																																																																				
544	251030	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	Thu 30/6/16	Wed 27/7/16	542SS	100%	0 days	545																																																																																				
545	251040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	491 days	5 days	Thu 28/7/16	Thu 30/11/17	Thu 28/7/16	Thu 30/11/17	544	100%	0 days	549SS+10 days																																																																																				
546	251050	PREPARATION TDMP FOR PRE-DRILLING WORKS	45 days	4 days	Thu 30/6/16	Sat 13/8/16	Thu 30/6/16	Sat 13/8/16	542SS	100%	0 days	547																																																																																				
547	251060	APPROVAL OF TDMP FOR PRE-DRILLING WORKS BY SUPERVISOR/DSD	14 days	2 days	Sun 14/8/16	Sat 27/8/16	Sun 14/8/16	Sat 27/8/16	546	100%	0 days	548																																																																																				
548	251070	STARTING DATE OF DRY SEASON	0 days	0 day	Tue 1/11/16	Tue 1/11/16	Tue 1/11/16	Tue 1/11/16	547	100%	0 days	549																																																																																				
549	251080	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/11/16	Tue 1/11/16	Wed 30/11/16	548,543,545SS+10 days	100%	0 days	550																																																																																				
550	251090	PRE-DRILLING WORKS FOR PILES AT GRID 2	7 days	4 days	Thu 1/12/16	Wed 7/12/16	Thu 1/12/16	Wed 7/12/16	549	100%	0 days	551																																																																																				
551	251100	PRE-DRILLING WORKS FOR PILES AT GRID 3	7 days	4 days	Sun 15/1/17	Sat 21/1/17	Sun 15/1/17	Sat 21/1/17	550,540	100%	0 days	552,553FS+7 days																																																																																				
552	251110	PRE-DRILLING WORKS FOR PILES AT GRID 1	7 days	4 days	Wed 1/3/17	Tue 7/3/17	Wed 1/3/17	Tue 7/3/17	551	100%	0 days																																																																																					
553	251120	REMOVAL OF TEMPORARY DRAINAGE WORK	24 days	2 days	Wed 8/3/17	Fri 31/3/17	Wed 8/3/17	Fri 31/3/17	551FS+7 days	100%	0 days	554																																																																																				
554	251130	END DATE OF DRY SEASON	0 days	0 day	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	553	100%	0 days	555FS+216 days,556																																																																																				
555	251140	SUBMISSION, APPROVAL, PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	450 days	30 days	Fri 3/11/17	Sat 26/1/19	Fri 3/11/17	Sat 26/1/19	554FS+216 days	100%	0 days	572																																																																																				
556	251150	PREPARATION OF TDMP FOR PILING WORKS	36 days	7 days	Sat 1/4/17	Sat 6/5/17	Sat 1/4/17	Sat 6/5/17	554	100%	0 days	557																																																																																				
557	251160	APPROVAL OF TDMP FOR PILING WORKS BY SUPERVISOR/DSD	87 days	2 days	Sun 7/5/17	Tue 1/8/17	Sun 7/5/17	Tue 1/8/17	556	100%	0 days	558																																																																																				
558	251170	STARTING DATE OF DRY SEASON	1 day	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	557	100%	0 days	559,586SS+30 days																																																																																				
559	251180	TEMPORARY DRAINAGE WORKS	15 days	2 days	Wed 1/11/17	Wed 15/11/17	Wed 1/11/17	Wed 15/11/17	558	100%	0 days	560,561																																																																																				
560	251190	PILING WORKS AT GRID 2	25 days	4 days	Thu 16/11/17	Sun 10/12/17	Thu 16/11/17	Sun 10/12/17	559	100%	0 days	562,563,576																																																																																				
561	251220	PILING WORKS AT GRID 3	25 days	4 days	Thu 16/11/17	Sun 10/12/17	Thu 16/11/17	Sun 10/12/17	559	100%	0 days	562,563																																																																																				
562	251225	PILE LOAD TEST	50 days	1 day	Mon 11/12/17	Mon 29/1/18	Mon 11/12/17	Mon 29/1/18	560,561	100%	0 days	564FS+18 days																																																																																				
563	251230	PILE CAP CONSTRUCTION	90 days	1 day	Mon 11/12/17	Sat 10/3/18	Mon 11/12/17	Sat 10/3/18	560,561	100%	0 days	564																																																																																				
564	251240	REMOVAL OF TEMPORARY DRAINAGE WORK	21 days	2 days	Sun 11/3/18	Sat 31/3/18	Sun 11/3/18	Sat 31/3/18	562FS+18 days,563	100%	0 days	565																																																																																				
565	251250	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	564	100%	0 days																																																																																					
566	251251	IMPLEMENTATION OF TTA AT GRID 1	14 days	0 day	Wed 1/11/17	Tue 14/11/17	Wed 1/11/17	Tue 14/11/17	565	100%	0 days	567																																																																																				
567	251252	CE-068 - EXCAVATION OF INSPECTION TRENCH AND CE-069 - FORMING AN OPENING AT EXISTING RETAINING WALL FOR PILING WORKS OF P2A, P4A AND P6A IN BRIDGE E	28 days	0 day	Wed 8/11/17	Tue 5/12/17	Wed 8/11/17	Tue 5/12/17	566	100%	0 days	568																																																																																				
568	251255	PILING WORKS AT GRID 1	72 days	2 days	Wed 6/12/17	Thu 15/2/18	Wed 6/12/17	Thu 15/2/18	567	100%	0 days	569																																																																																				
569	251260	PILE LOAD TEST AT GRID 1 (+ DELAY DUE TO SKJV NCE No.84 - SUSPENSION OF TENSION LOADING TEST)	28 days	7 days	Fri 16/2/18	Thu 15/3/18	Fri 16/2/18	Thu 15/3/18	568	100%	0 days	570																																																																																				



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																											
570	251270	PILE CAP & COLUMN AT GRID 1	320 days	3 days	Fri 16/3/18	Tue 29/1/19	Fri 16/3/18	Tue 29/1/19	569	100%	0 days	571	[Gantt bar for 570: Fri 16/3/18 to Tue 29/1/19]																											
571	251275	RAMP & RETAINING WALL AT GRID 1	115 days	2 days	Wed 30/1/19	Fri 24/5/19	Wed 30/1/19	Fri 24/5/19	570	100%	0 days		[Gantt bar for 571: Wed 30/1/19 to Fri 24/5/19]																											
572	251285	INSTALLATION OF MJ	70 days	0 day	Sat 25/5/19	Fri 2/8/19	NA	NA	555	0%	30 days	573	[Gantt bar for 572: Sat 25/5/19 to Fri 2/8/19]																											
573	251290	DRAINAGE & ROADWORKS AT GRID 1	60 days	4 days	Sat 3/8/19	Tue 1/10/19	Sat 3/8/19	NA	572	50%	137 days	592	[Gantt bar for 573: Sat 3/8/19 to Tue 1/10/19]																											
574	251300	STARTING DATE OF DRY SEASON	1 day	0 day	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	574	100%	0 days	575	[Gantt bar for 574: Thu 1/11/18 to Thu 1/11/18]																											
575	251305	TEMPORARY DRAINAGE WORKS	7 days	2 days	Thu 1/11/18	Wed 7/11/18	Thu 1/11/18	Wed 7/11/18	574	100%	0 days	587,577,586	[Gantt bar for 575: Thu 1/11/18 to Wed 7/11/18]																											
576	251310	PIER AT GRID 2	34 days	2 days	Mon 11/12/17	Sat 13/1/18	Mon 11/12/17	Sat 13/1/18	560	100%	0 days	577	[Gantt bar for 576: Mon 11/12/17 to Sat 13/1/18]																											
577	251315	BRIDGE DECK CONSTRUCTION	140 days	10 days	Thu 8/11/18	Wed 27/3/19	Thu 8/11/18	Wed 27/3/19	575,576	100%	0 days	578,583	[Gantt bar for 577: Thu 8/11/18 to Wed 27/3/19]																											
578	251320	REMOVAL OF TEMPORARY DRAINAGE WORK	4 days	2 days	Thu 28/3/19	Sun 31/3/19	Thu 28/3/19	Sun 31/3/19	577	100%	0 days	579,583,580	[Gantt bar for 578: Thu 28/3/19 to Sun 31/3/19]																											
579	251330	END DATE OF DRY SEASON	1 day	0 day	Sun 31/3/19	Sun 31/3/19	Sun 31/3/19	Sun 31/3/19	578	100%	0 days		[Gantt bar for 579: Sun 31/3/19 to Sun 31/3/19]																											
580	251331	INSTALLATION OF STEEL STRUCTURAL ROOF ON BRIDGE DECK	150 days	0 day	Mon 14/4/19	Wed 28/8/19	Mon 14/4/19	NA	578,582FS-100 days	70%	121 days	585	[Gantt bar for 580: Mon 14/4/19 to Wed 28/8/19]																											
581	251341	NCE ISSUES FOR INSTALLATION OF ROOFING TOP SKJV NCE No. 215 - ROOFING SYSTEM IF BRIDGE E & SKJV EW No.55 - ROOFING SYSTEM OF BRIDGE E	185 days	0 day	Wed 28/11/18	Fri 31/5/19	NA	NA		0%	0 days	582	[Gantt bar for 581: Wed 28/11/18 to Fri 31/5/19]																											
582	251342	SUBMISSION OF SHOP DRAWING AND APPROVAL	30 days		Sat 1/6/19	Sun 30/6/19	NA	NA	581	0%	0 days	583,580FS-100 days	[Gantt bar for 582: Sat 1/6/19 to Sun 30/6/19]																											
583	251343	ORDER & MANUFACTURING OF STEEL STRUCTURAL ROOF ON BRIDGE DECK AT GRID 1 & 3	120 days	5 days	Mon 1/7/19	Mon 28/10/19	NA	NA	581	0%	0 days	584	[Gantt bar for 583: Mon 1/7/19 to Mon 28/10/19]																											
584	251344	INSTALLATION OF STEEL STRUCTURAL ROOF ON BRIDGE DECK AT GRID 1 & 3	60 days		Tue 29/10/19	Fri 27/12/19	NA	NA	583	0%	0 days	585	[Gantt bar for 584: Tue 29/10/19 to Fri 27/12/19]																											
585	251360	RAILING, DRAINAGE & E&M WORKS	50 days	4 days	Sat 28/12/19	Sat 15/2/20	NA	NA	580,584	0%	0 days	592	[Gantt bar for 585: Sat 28/12/19 to Sat 15/2/20]																											
586	251361	ADDITION OF RETAINING WALL RW30A (SKJV NCE No. 98) + SKJV NCE No. 175 Delay of Watermain Diversion Works in RW30A, NCE No. 182 - Trimming of Existing Bend Block of Watermain & NCE No. 283 Diversion of Watermain in RW30A	289 days	0 day	Sat 1/12/18	Sun 15/9/19	Sat 1/12/18	NA	558SS+30 days,575	72%	153 days	592	[Gantt bar for 586: Sat 1/12/18 to Sun 15/9/19]																											
587	251362	ADDITION OF RETAINING WALL RW30B (SKJV NCE No. 98)	200 days	0 day	Thu 8/11/18	Sun 26/5/19	Thu 8/11/18	Sun 26/5/19	575	100%	0 days	592	[Gantt bar for 587: Thu 8/11/18 to Sun 26/5/19]																											
588	251363	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No.327 - Late Approval of Street Lighting Design including Lengthly Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	0 days	589,590	[Gantt bar for 588: Mon 16/4/18 to Sun 30/6/19]																											
589	251364	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	588	0%	110 days	591	[Gantt bar for 589: Mon 1/7/19 to Tue 8/10/19]																											
590	251365	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthly Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	588	0%	0 days	591	[Gantt bar for 590: Mon 1/7/19 to Sun 26/1/20]																											
591	251366	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	589,590	0%	0 days	593	[Gantt bar for 591: Mon 27/1/20 to Fri 6/3/20]																											
592	251370	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	20 days	4 days	Sun 16/2/20	Fri 6/3/20	NA	NA	573,587,586,585	0%	0 days	593	[Gantt bar for 592: Sun 16/2/20 to Fri 6/3/20]																											
593	251371	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	0 day	Sat 7/3/20	Tue 31/3/20	NA	NA	592,591	0%	0 days	594	[Gantt bar for 593: Sat 7/3/20 to Tue 31/3/20]																											
594	251385	PORTION M - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	593	0%	0 days	596	[Gantt bar for 594: Tue 31/3/20 to Tue 31/3/20]																											
595	251390	W5 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 11/9/19	Wed 11/9/19	NA	NA	47	0%	1077 days		[Gantt bar for 595: Wed 11/9/19 to Wed 11/9/19]																											
596	251390	W5 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	594	0%	0 days	48,710,645	[Gantt bar for 596: Tue 31/3/20 to Tue 31/3/20]																											
597	260000	SECTION W6 (PORTION P)	716 days		Thu 30/6/16	Fri 15/6/18	Thu 30/6/16	Fri 15/6/18		100%	0 days		[Gantt bar for 597: Thu 30/6/16 to Fri 15/6/18]																											
609	270000	SECTION W7 (PORTION J1, J2 & J3)	1395 days		Thu 30/6/16	Fri 24/4/20	Thu 30/6/16	NA		73%	851 days		[Gantt bar for 609: Thu 30/6/16 to Fri 24/4/20]																											
610	270010	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	479FS+60 days,613FS+250 days,612	[Gantt bar for 610: Thu 30/6/16 to Thu 30/6/16]																											
611	271000	PORTION J2, J3	1145 days		Tue 7/3/17	Fri 24/4/20	Tue 7/3/17	NA		73%	0 days		[Gantt bar for 611: Tue 7/3/17 to Fri 24/4/20]																											
612	271010	INSTRUCTION TO EXECISE	0 days	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	610	100%	0 days	613SS,614SS	[Gantt bar for 612: Tue 7/3/17 to Tue 7/3/17]																											
613	271020	POSSESSION OF SITE (J2, J3)	0 days	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	612SS,610FS+250 days	100%	0 days	615FS+200 days,616SS,617SS	[Gantt bar for 613: Tue 7/3/17 to Tue 7/3/17]																											
614	271030	APPLICATION OF EXCAVATION PERMIT	200 days	0 day	Tue 7/3/17	Fri 22/9/17	Tue 7/3/17	Fri 22/9/17	612SS	100%	0 days	633	[Gantt bar for 614: Tue 7/3/17 to Fri 22/9/17]																											
615	271040	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORES HEIGHT TEMP. BLDG @ APPROX. CH. K0+900	30 days	2 days	Sat 23/9/17	Sun 22/10/17	Sat 23/9/17	Sun 22/10/17	613FS+200 days	100%	0 days	633	[Gantt bar for 615: Sat 23/9/17 to Sun 22/10/17]																											
616	271050	INITIAL SURVEY	190 days	2 days	Tue 7/3/17	Tue 12/9/17	Tue 7/3/17	Tue 12/9/17	613SS	100%	0 days	618	[Gantt bar for 616: Tue 7/3/17 to Tue 12/9/17]																											
617	271060	TREE SURVEY	90 days	2 days	Tue 7/3/17	Sun 4/6/17	Tue 7/3/17	Sun 4/6/17	613SS	100%	0 days	618	[Gantt bar for 617: Tue 7/3/17 to Sun 4/6/17]																											
618	271070	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	200 days	3 days	Mon 5/6/17	Thu 21/12/17	Mon 5/6/17	Thu 21/12/17	617	100%	0 days	620,623FS-50 days	[Gantt bar for 618: Mon 5/6/17 to Thu 21/12/17]																											
619	271072	UTILITIES DIVERSION WORKS (CLP, WSD)	90 days	3 day	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18		100%	0 days	621SS	[Gantt bar for 619: Fri 22/12/17 to Wed 21/3/18]																											
620	271074	CLP	90 days	3 days	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18	618	100%	0 days	621SS	[Gantt bar for 620: Fri 22/12/17 to Wed 21/3/18]																											
621	271076	WSD	90 days	3 days	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18	620SS	100%	0 days	621SS	[Gantt bar for 621: Fri 22/12/17 to Wed 21/3/18]																											
622	271080	RW 46 + SKJV NCE No. 190 - Amendment of Arrangement of Bay 0	560 days	7 days	Sun 21/1/18	Sat 3/8/19	Sun 21/1/18	NA	623SS+80 days	90%	30 days	628SS+215 days,624SS+250 days,634	[Gantt bar for 622: Sun 21/1/18 to Sat 3/8/19]																											
623	271090	RW 47 - CSD	640 days	0 day	Thu 2/11/17	Sat 3/8/19	Thu 2/11/17	NA	618FS-50 days	90%	30 days	622SS+80 days,634	[Gantt bar for 623: Thu 2/11/17 to Sat 3/8/19]																											
624	271100	RW 48 + SKJV NCE No. 192 - Revised Details of RW + NCE No.219 Existing 132kV Cables and Joint Box at Castle Peak Road in Conflict with Construction Works + NCE No. 226 Trial Pits Excavation & Torodial Cable Detection + NCE No. 384 Revised Details of RW	460 days	5 days	Fri 28/9/18	Tue 31/12/19	Fri 28/9/18	NA	622SS+250 days	90%	0 days	634FS-120 days	[Gantt bar for 624: Fri 28/9/18 to Tue 31/12/19]																											
625	271110	RW24A + SKJV NCE No. 146 - Revised Bay 1 & 2 and Additional Bay 3 to Bay 6 + NCE No. 171 - Reinforcement and Const. Details + NCE No. 177 - Bay 1 to 3 as Obstructed by Existing Utilities + NCE No. 202 - Additional Bay 1A + NCE No.278 Suspension in Const.	330 days	2 days	Mon 8/10/18	Mon 2/9/19	Mon 8/10/18	NA	628SS+15 days	80%	0 days	634	[Gantt bar for 625: Mon 8/10/18 to Mon 2/9/19]																											
626	271120	RW 24B	90 days	2 days	Thu 11/4/19	Tue 9/7/19	NA	NA		0%	0 days	627	[Gantt bar for 626: Thu 11/4/19 to Tue 9/7/19]																											
627	271130	RW 24C + SKJV NCE No. 307 - Additional Retaining Wall RW24C, Box Culvert D8A and Drainage System	124 days	7 days	Wed 10/7/19	Sun 10/11/19	Wed 10/7/19	NA	626	0%	0 days	634FS-69 days	[Gantt bar for 627: Wed 10/7/19 to Sun 10/11/19]																											
628	271140	RW 25 + SKJV NCE No. 147 - Revised Setting Out + NCE No. 194 - Backfilling using Filter Type A between SP and RW + NCE No.231 - Excavation of Trial Pits	280 days	7 days	Fri 24/8/18	Thu 30/5/19	Fri 24/8/18	Thu 30/5/19	622SS+215 days	100%	0 days	625SS+15 days,630SS,632SS+30 days,629	[Gantt bar for 628: Fri 24/8/18 to Thu 30/5/19]																											
629		RW24AA AND ADDITIONAL DRAINAGE ; NCE 389	215 days		Fri 31/5/19	Tue 31/12/19	NA	NA	628	0%	0 days	634FS-120 days	[Gantt bar for 629: Fri 31/5/19 to Tue 31/12/19]																											

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

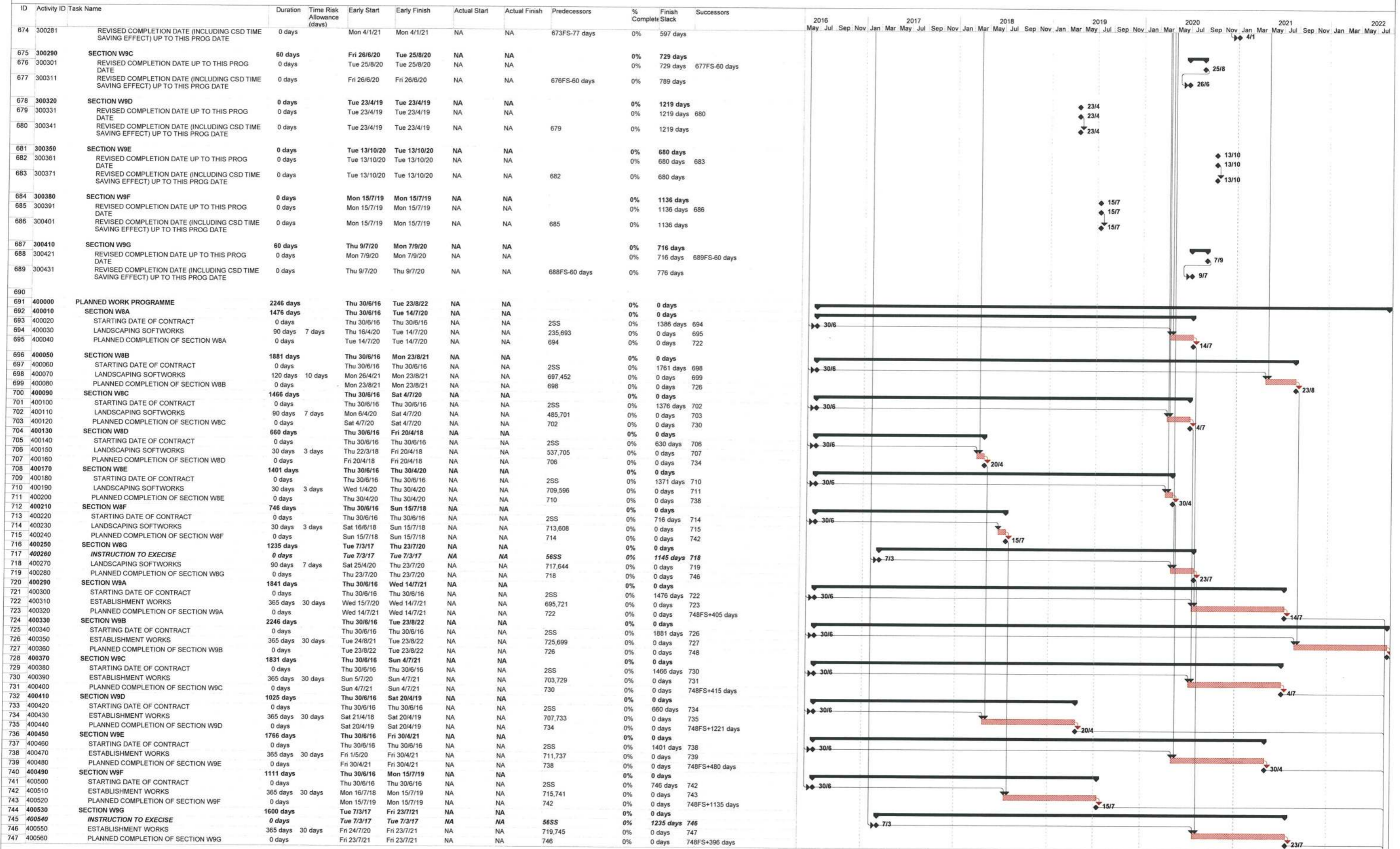


ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																							
630	271150	RW 26 + SKJV NCE No.169 - Using Granular Fill for Backfilling	100 days	2 days	Fri 24/8/18	Sat 1/12/18	Fri 24/8/18	Sat 1/12/18	628SS	100%	0 days	631	[Gantt Chart]																							
631	271160	STREAM DECKING D8 + SKJV NCE No.307 - Additional Retaining Wall RW24C and box culvert 8A	62 days	2 days	Sun 2/12/18	Fri 1/2/19	Sun 2/12/18	Fri 1/2/19	630	100%	0 days		[Gantt Chart]																							
632	271170	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Sun 23/9/18	Sat 13/10/18	Sun 23/9/18	Sat 13/10/18	628SS+30 days	100%	0 days	633	[Gantt Chart]																							
633	271180	DEMOLITION OF EXISTING STRUCTURE @ APPROX. CH.KW0+900	21 days	3 days	Sun 14/10/18	Sat 3/11/18	Sun 14/10/18	Sat 3/11/18	632,615	100%	0 days	633	[Gantt Chart]																							
634	271190	EARTHWORKS AND DRAINAGE WORKS	180 days	10 days	Tue 3/9/19	Sat 29/2/20	NA	NA	629FS-120 days,624FS-120	0%	0 days	639	[Gantt Chart]																							
635	271191	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No.327 - Late Approval of Street Lighting Design including Lengthly Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	24 days	636,637	[Gantt Chart]																							
636	271192	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Sat 19/10/19	Sun 26/1/20	NA	NA	635,637FS-100 days	0%	24 days	638	[Gantt Chart]																							
637	271193	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthly Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	635	0%	24 days	638,636FS-100 days	[Gantt Chart]																							
638	271194	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	637,636	0%	24 days	640	[Gantt Chart]																							
639	271200	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	30 days	7 days	Sun 1/3/20	Mon 30/3/20	NA	NA	634	0%	0 days	640	[Gantt Chart]																							
640	271201	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	0 day	Tue 31/3/20	Fri 24/4/20	NA	NA	639,638	0%	0 days	641	[Gantt Chart]																							
641	271205	PORTON J2/J3 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 24/4/20	Fri 24/4/20	NA	NA	640	0%	0 days	644	[Gantt Chart]																							
642	271210	W7 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Fri 14/6/19	Fri 14/6/19	NA	NA	60	0%	1166 days	643FS-60 days	[Gantt Chart]																							
643	271211	W7 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P1 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Tue 16/4/19	Tue 16/4/19	NA	NA	642FS-60 days	0%	1226 days		[Gantt Chart]																							
644	271215	W7 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 24/4/20	Fri 24/4/20	NA	NA	641	0%	0 days	645,62,718	[Gantt Chart]																							
645	200010	SECTION W1 TO W7 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	608,537,485,452,235,644,5	0%	485 days		[Gantt Chart]																							
646	300000	LANDSCAPING SOFTWARES AND ESTABLISHMENT WORK	2246 days		Thu 30/6/16	Tue 23/8/22	Thu 30/6/16	NA		0%	0 days		[Gantt Chart]																							
647	300010	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1064 days		Mon 23/4/18	Mon 22/3/21	Mon 23/4/18	NA		99%	520 days		[Gantt Chart]																							
648	300020	SECTION W8A	60 days		Thu 4/7/19	Mon 2/9/19	NA	NA		0%	1087 days		[Gantt Chart]																							
649	300031	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 2/9/19	Mon 2/9/19	NA	NA		0%	1087 days	650FS-60 days	[Gantt Chart]																							
650	300041	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Thu 4/7/19	Thu 4/7/19	NA	NA	649FS-60 days	0%	1147 days		[Gantt Chart]																							
651	300050	SECTION W8B	77 days		Fri 3/1/20	Fri 20/3/20	NA	NA		0%	887 days		[Gantt Chart]																							
652	300061	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Fri 20/3/20	Fri 20/3/20	NA	NA		0%	887 days	653FS-77 days	[Gantt Chart]																							
653	300071	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 3/1/20	Fri 3/1/20	NA	NA	652FS-77 days	0%	964 days		[Gantt Chart]																							
654	300080	SECTION W8C	60 days		Fri 28/6/19	Tue 27/8/19	NA	NA		0%	1093 days		[Gantt Chart]																							
655	300091	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 27/8/19	Tue 27/8/19	NA	NA		0%	1093 days	656FS-60 days	[Gantt Chart]																							
656	300101	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 28/6/19	Fri 28/6/19	NA	NA	655FS-60 days	0%	1153 days		[Gantt Chart]																							
657	300110	SECTION W8D	1 day		Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	Mon 23/4/18		100%	0 days		[Gantt Chart]																							
658	300121	REVISED COMPLETION DATE UP TO THIS PROG DATE	1 day		Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	Mon 23/4/18		100%	0 days	659	[Gantt Chart]																							
659	300131	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	1 day		Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	658	100%	0 days		[Gantt Chart]																							
660	300140	SECTION W8E	0 days		Mon 14/10/19	Mon 14/10/19	NA	NA		0%	1045 days		[Gantt Chart]																							
661	300151	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 14/10/19	Mon 14/10/19	NA	NA		0%	1045 days	662	[Gantt Chart]																							
662	300161	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Mon 14/10/19	Mon 14/10/19	NA	NA	661	0%	1045 days		[Gantt Chart]																							
663	300170	SECTION W8F	1 day		Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	Sun 1/7/18		100%	0 days		[Gantt Chart]																							
664	300181	REVISED COMPLETION DATE UP TO THIS PROG DATE	1 day		Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	Sun 1/7/18		100%	0 days	665	[Gantt Chart]																							
665	300191	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	1 day		Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	664	100%	0 days		[Gantt Chart]																							
666	300200	SECTION W8G	60 days		Tue 9/7/19	Sat 7/9/19	NA	NA		0%	1082 days		[Gantt Chart]																							
667	300211	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Sat 7/9/19	Sat 7/9/19	NA	NA		0%	1082 days	668FS-60 days	[Gantt Chart]																							
668	300221	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Tue 9/7/19	Tue 9/7/19	NA	NA	667FS-60 days	0%	1142 days		[Gantt Chart]																							
669	300230	SECTION W8A	60 days		Fri 3/7/20	Tue 1/9/20	NA	NA		0%	722 days		[Gantt Chart]																							
670	300241	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 1/9/20	Tue 1/9/20	NA	NA		0%	722 days	671FS-60 days	[Gantt Chart]																							
671	300251	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 3/7/20	Fri 3/7/20	NA	NA	670FS-60 days	0%	782 days		[Gantt Chart]																							
672	300260	SECTION W8B	77 days		Mon 4/1/21	Mon 22/3/21	NA	NA		0%	520 days		[Gantt Chart]																							
673	300271	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 22/3/21	Mon 22/3/21	NA	NA		0%	520 days	674FS-77 days	[Gantt Chart]																							



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME





REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

Legend:  
 Task: [Solid bar] Summary: [Dashed bar] External Milestone: [Diamond] Inactive Summary: [Light blue bar] Manual Summary Rollup: [Blue bar] Finish-only: [Blue bar] Progress: [Red bar]  
 Split: [Dotted bar] Project Summary: [Dotted bar] Inactive Task: [Light grey bar] Manual Task: [Light blue bar] Manual Summary: [Blue bar] Critical: [Red bar] Deadline: [Red bar]  
 Milestone: [Diamond] External Tasks: [Dotted bar] Inactive Milestone: [Light grey diamond] Duration-only: [Light blue bar] Start-only: [Blue bar] Critical Split: [Red bar]



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**APPENDIX B  
ACTION AND LIMIT LEVELS FOR  
NOISE**

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## 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.

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**APPENDIX C  
COPIES OF CALIBRATION  
CERTIFICATES**

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## Calibration Certificate

0023155

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 : SVAN979 SLM Serial No. /Ref. No. : 27189 / SN-01-01 Object 2 : Microphone Serial No. /Ref. No. : 25204
Customer Code : SVEC09005	Manufacturer : BSWAtech
Date of calibration: 08/01/2020 Date of the recommended re-calibration: 08/01/2021	Certificate No.: 0023155 Handle by: E0002

### Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 1.5dB	1
114.0dB	113.6dB	-0.4dB	+/- 1.5dB	1

### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

### Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

### Uncertainty

+/- 0.2dB for probability not less than 95%.

### Conformity

- 1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5.The calibrations certificate may not be reproduced.

Measured value(s) **within** the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager

## TEST REPORT

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

Test Report No.:	32151
Date of Issue:	2019-09-27
Date Received:	2019-09-26
Date Tested:	2019-09-26
Date Completed:	2019-09-27
Next Due Date:	2020-09-26

**ATTN:** Mr. Henry Leung

Page: 1 of 1

### 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 Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

**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



# Calibration Certificate

0023002

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 : SV30A sound calibrator Serial No. /Ref. No. : 10965 / N-09-02 Object 2 : Serial No. /Ref. No. :
Customer Code : SVEC09005	Manufacturer : Svantek
Date of calibration: 19/12/2019 Date of the recommended re-calibration: 19/12/2020	Certificate No.: 0023002 Handle by: E0002

## Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.9dB	-0.1dB	+/- 0.3dB	1
114.0dB	114.2dB	+0.2dB	+/- 0.3dB	1

## Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

## Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

## Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

## Uncertainty

+/- 0.2 dB for probability not less than 95%.

## Conformity

- 1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5.The calibrations certificate may not be reproduced.

Measured value(s) **within** the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager





# Calibration Certificate

0023001

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 : B&K4231 sound calibrator Serial No. /Ref. No. : 2326353 / N-02-01 Object 2 : Serial No. /Ref. No. :
Customer Code : SVEC09005	Manufacturer : Bruel & Kjaer
Date of calibration: 19/12/2019 Date of the recommended re-calibration: 19/12/2020	Certificate No.: 0023001 Handle by: E0002

## Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	94.2dB	+0.2dB	+/- 0.2dB	1
114.0dB	114.1dB	+0.1dB	+/- 0.2dB	1

## Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

## Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

## Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

## Uncertainty

+/- 0.2dB for probability not less than 95%.

## Conformity

- 1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5.The calibrations certificate may not be reproduced.

Measured value(s) **within** the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager

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**APPENDIX D  
ENVIRONMENTAL MONITORING  
SCHEDULES**

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**Agreement No. CE 67/2015 (HY)**  
**Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction**  
**Impact Noise Monitoring Schedule (March 2020)**

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



**Agreement No. CE 67/2015 (HY)**  
**Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction**  
**Tentative Impact Noise Monitoring Schedule (April 2020)**

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

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**APPENDIX E  
NOISE MONITORING RESULTS AND  
GRAPHICAL PRESENTATIONS**

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## Appendix E - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

N1 - HKMLC Wong Chan Sook Ying Memorial School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
3/3/2020	9:00	Fine	55.9	57.3	52.1	62.2	55.9 measured $\leq$ Baseline
12/3/2020	16:30	Sunny	62.0	65.2	57.7		62 measured $\leq$ Baseline
17/3/2020	9:00	Fine	58.5	62.1	55.7		58.5 measured $\leq$ Baseline
24/3/2020	16:00	Sunny	59.9	61.9	56.4		59.9 measured $\leq$ Baseline
31/3/2020	9:00	Fine	58.6	61.2	55.9		58.6 measured $\leq$ Baseline

N2 - Bethel High School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
3/3/2020	10:30	Fine	60.7	63.1	57.2	55.2	59.3
12/3/2020	11:10	Sunny	65.7	67.7	62.9		65.3
17/3/2020	10:30	Fine	62.6	65.7	60.1		61.7
24/3/2020	15:00	Sunny	51.2	52.5	48.3		51.2 measured $\leq$ Baseline
31/3/2020	10:00	Fine	53.3	55.7	50.2		53.3 measured $\leq$ Baseline

N3 - No.159 Mai Po San Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
3/3/2020	13:00	Fine	72.9	74.7	70.2	68.8	70.8
12/3/2020	14:05	Sunny	69.1	71.8	67.4		57.3
17/3/2020	13:00	Fine	71.1	73.5	68.2		67.2
24/3/2020	14:00	Sunny	73.0	74.9	70.2		70.9
31/3/2020	13:00	Fine	72.2	74.2	69.5		69.5

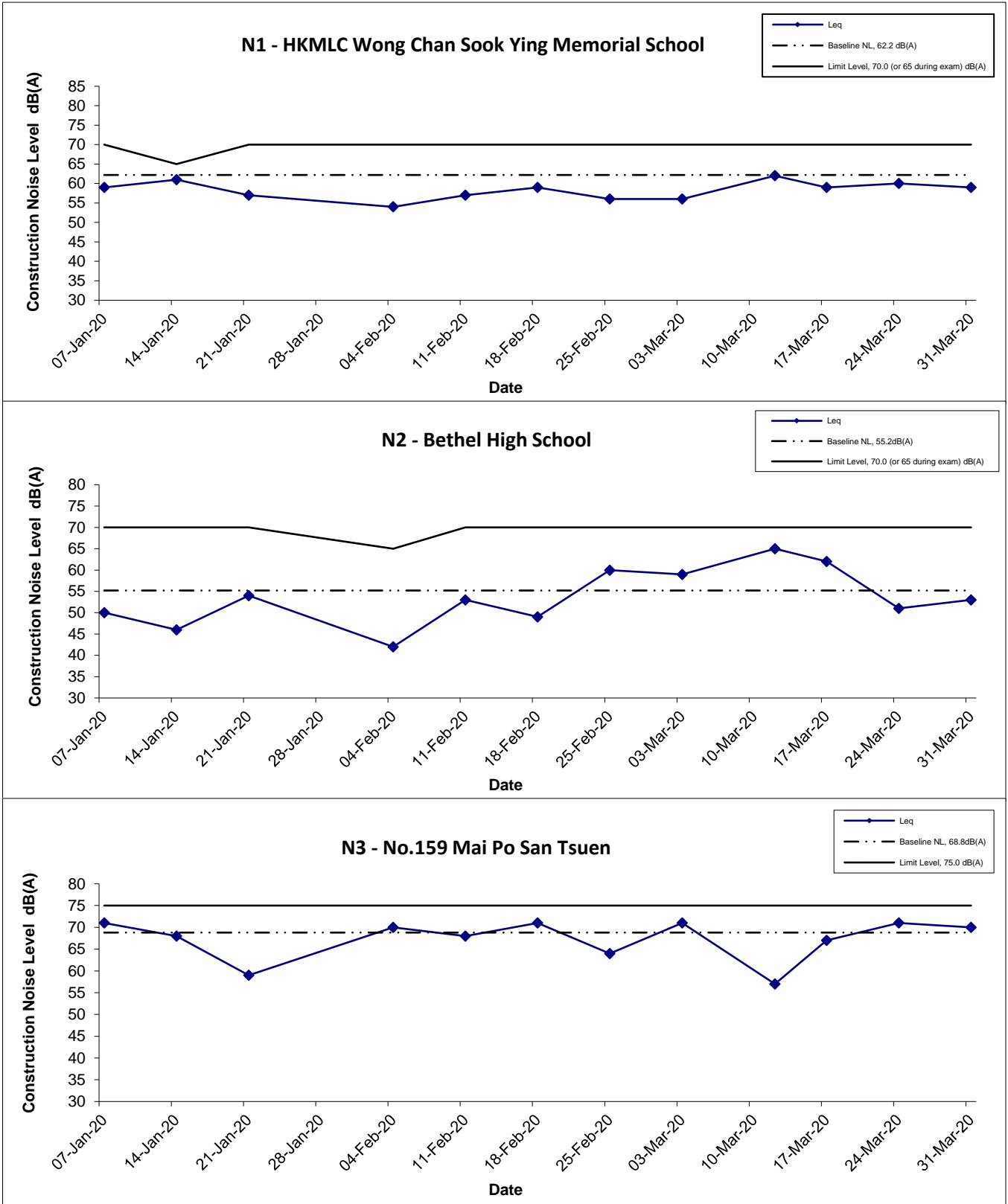
N5 - Block 2, Dills Corner Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
3/3/2020	15:00	Fine	72.1	75.2	70.5	70.7	66.5
12/3/2020	15:20	Sunny	70.3	72.3	65.4		70.3 measured $\leq$ Baseline
17/3/2020	15:30	Fine	73.4	76.6	69.9		70.1
24/3/2020	10:30	Sunny	71.8	74.2	68.2		65.3
31/3/2020	15:00	Fine	72.4	75.1	69.2		67.5

N6 - Home of Loving Faithfulness							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
3/3/2020	16:00	Fine	72.3	74.7	69.9	72.0	60.5
12/3/2020	10:30	Sunny	61.7	63.1	59.0		61.7 measured $\leq$ Baseline
17/3/2020	16:15	Fine	71.9	74.8	67.2		71.9 measured $\leq$ Baseline
24/3/2020	9:00	Sunny	73.2	75.8	70.4		67.0
31/3/2020	16:00	Fine	71.9	73.8	68.5		71.9 measured $\leq$ Baseline

N7 - Village House in Shek Wu Wai							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
3/3/2020	14:00	Fine	73.2	75.2	71.8	70.7	69.6
12/3/2020	13:10	Sunny	72.3	75.9	65.0		67.2
17/3/2020	14:00	Fine	72.2	75.7	68.2		66.9
24/3/2020	13:00	Sunny	72.7	74.8	68.6		68.4
31/3/2020	14:00	Fine	73.1	75.3	71.7		69.4

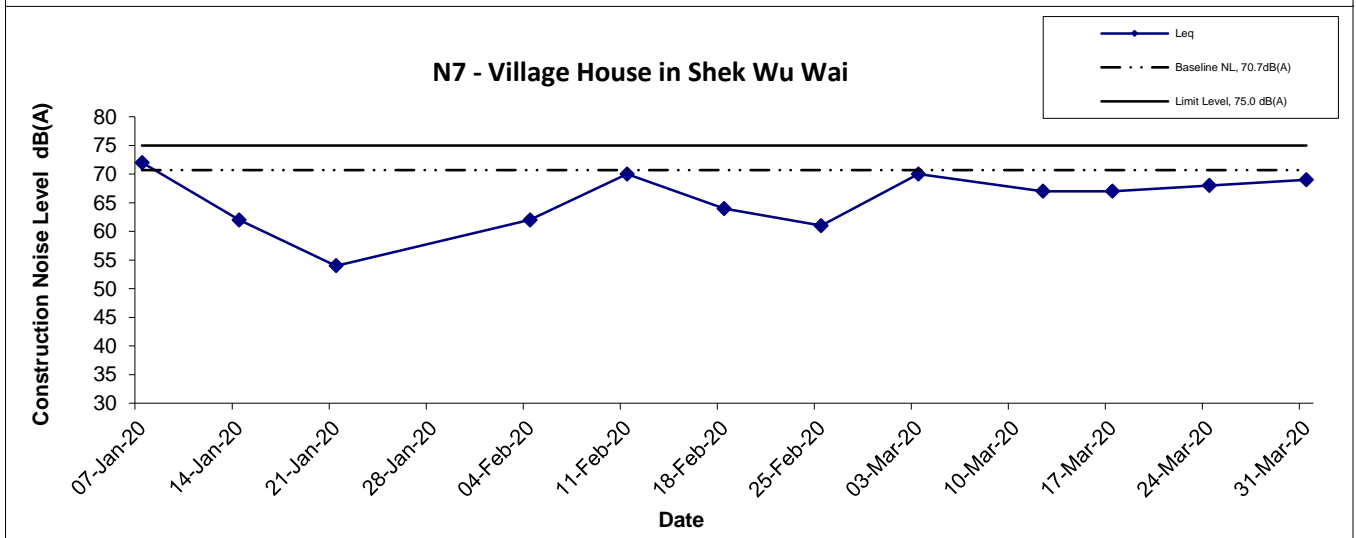
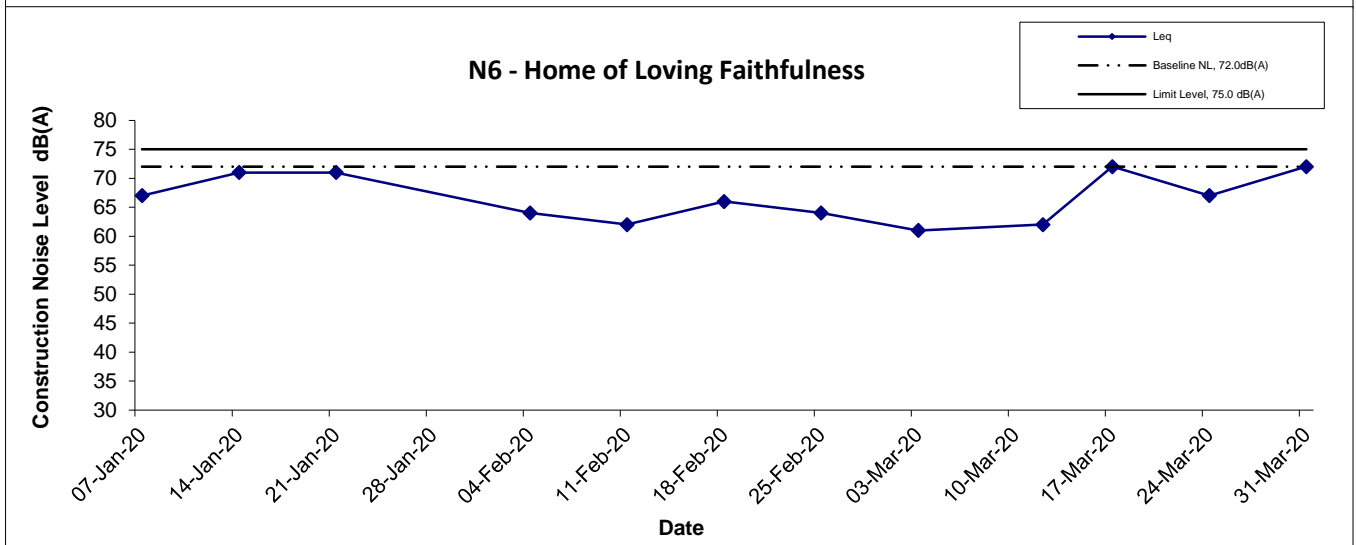
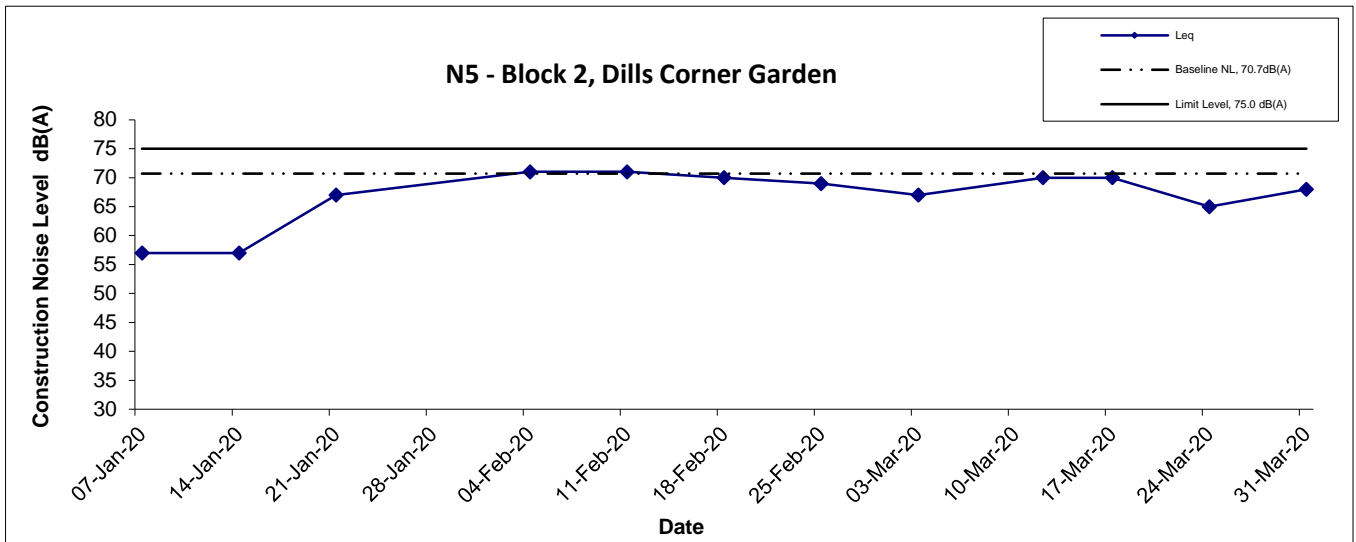


# Noise Levels



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	Project No. MA16036	
	Date Mar 20	Appendix E	

## 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	Project No. MA16036	
	Date Mar 20	Appendix E	

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**APPENDIX F**  
**SUMMARY OF EXCEEDANCE**

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**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)**

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**APPENDIX G  
SITE AUDIT SUMMARY**

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**Agreement No. CE 67/2015 (HY)**

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

**Contract No. YL/2015/01**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**



**Weekly Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	200304
Date	4 March 2020 (Wednesday)
Time	09:45 – 12:00
Location	All Portions

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

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b> No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b> <ul style="list-style-type: none"> <li>Stockpile of dusty material should be covered by impervious materials at Portion E.</li> <li>Stockpile of dusty material should be covered by impervious material at Subway A.</li> <li>The site vehicles should use wheel washing facility at Bridge B.</li> <li>Stockpile of dusty material should be covered and not placed outside the site boundary at Portion J.</li> </ul>	C7 C7 C8 C7
200205-R1	<b>D. Construction Noise Impact</b> <ul style="list-style-type: none"> <li>Powered mechanical equipment should be covered or shielded by appropriate materials. Noise enclosures or noise barriers should be provided by contractor at Bridge B.</li> </ul>	D7
200205-R2 200226-R1	<b>E. Waste / Chemical Management</b> <ul style="list-style-type: none"> <li>Construction waste should be removed. Construction site should be kept clean at Portion F.</li> <li>Accumulation of general refuse should be avoided at Portion E.</li> </ul>	E4 E1
	<b>F. Ecology and Fisheries</b> No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b> No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b> No environmental deficiency was identified during site inspection.	
	<b>I. Others</b> Follow up on the previous session (Ref. No: 200226), follow up actions are needed to be reviewed for item 200205-R1 &R2, 200219-R2 and 200226-R1. Item 200212-O2, 200226-R2 &R3 were rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		4 March 2020
Checked by	Ms. Jennifer Mok		4 March 2020



**Agreement No. CE 67/2015 (HY)**

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

**Contract No. YL/2015/01**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**



**Weekly Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	200312
Date	12 March 2020 (Thursday)
Time	09:45 – 12:00
Location	Portion G: CH-ST-1200m to CH-ST-1300m, Portion H: CH-ST-1304m to CH-ST-1488m & CH-ST-1700m to CH-ST-2300m, Portion I: CH-ST-1500m to CH-MP-1700m, Portion J: CH-KW-1363m to CH-ST-2300m

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

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b>	
	No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
200219-R2	• Stockpile of dusty material should be covered by impervious materials at Portion E.	C7
200304-R1	• Stockpile of dusty material should be covered by impervious material at Subway A.	C7
200304-R2	• The site vehicles should use wheel washing facility at Bridge B.	C8
200304-O1	• Stockpile of dusty material should be covered and not placed outside the site boundary at Portion J.	C7
200312-R1	• The slope of earth should be covered well by tarpaulin at Portion J.	C7
	<b>D. Construction Noise Impact</b>	
200205-R1	• Powered mechanical equipment should be covered or shielded by appropriate materials. Noise enclosures or noise barriers should be provided by contractor at Bridge B.	D7
	<b>E. Waste / Chemical Management</b>	
200205-R2	• Construction waste should be removed. Construction site should be kept clean at Portion F.	E4
200226-R1	• Accumulation of general refuse should be avoided at Portion E.	E1
	<b>F. Ecology and Fisheries</b>	
	No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b>	
	No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b>	
	No environmental deficiency was identified during site inspection.	
	<b>I. Others</b>	
	Follow up on the previous session (Ref. No: 200304), follow up actions are needed to be reviewed for item 200205-R1 & R2, 200219-R2, 200226-R1 and 200304-R1, R2 & O1.	
	No environmental observation was improved/rectified during the environmental site inspection.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		12 March 2020
Checked by	Ms. Jennifer Mok		12 March 2020

**Agreement No. CE 67/2015 (HY)**

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

**Contract No. YL/2015/01**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**



**Weekly Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	200318
Date	18 March 2020 (Wednesday)
Time	09:45 – 12:00
Location	All portions

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

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b> No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
200219-R2 200304-O1	<ul style="list-style-type: none"><li>Stockpile of dusty material should be covered by impervious materials at Portion E.</li><li>Stockpile of dusty material should be covered and not placed outside the site boundary at Portion J.</li></ul>	C7 C7
200312-R1	<ul style="list-style-type: none"><li>The slope of earth should be covered well by tarpaulin at Portion J.</li></ul>	C7
	<b>D. Construction Noise Impact</b>	
200205-R1	<ul style="list-style-type: none"><li>Powered mechanical equipment should be covered or shielded by appropriate materials. Noise enclosures or noise barriers should be provided by contractor at Bridge B.</li></ul>	D7
	<b>E. Waste / Chemical Management</b>	
200205-R2 200318-R1	<ul style="list-style-type: none"><li>Construction waste should be removed. Construction site should be kept clean at Portion F.</li><li>Construction waste should be removed at Portion E.</li></ul>	E4 E4
	<b>F. Ecology and Fisheries</b> No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b> No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b> No environmental deficiency was identified during site inspection.	
	<b>I. Others</b> Follow up on the previous session (Ref. No: 200312), follow up actions are needed to be reviewed for item 200205-R1 & R2, 200219-R2 and 200304-O1 and 200312-R1. Item 200226-R1 and 200304-R1 & R2 were rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		18 March 2020
Checked by	Ms. Jennifer Mok		18 March 2020

**Agreement No. CE 67/2015 (HY)**

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

**Contract No. YL/2015/01**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**



**Weekly Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	200325
Date	25 March 2020 (Wednesday)
Time	09:45 – 12:00
Location	All portions

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

Ref. No.	Remarks/Observations	Related Item No.
200304-O1	<b>B. Water Quality</b> No environmental deficiency was identified during site inspection.	C7
	<b>C. Air Quality</b> <ul style="list-style-type: none"> <li>Stockpile of dusty material should be covered and not placed outside the site boundary at Portion J.</li> </ul>	
200312-R1	<ul style="list-style-type: none"> <li>The slope of earth should be covered well by tarpaulin at Portion J.</li> </ul>	C7
200325-R2	<ul style="list-style-type: none"> <li>Stockpile of dusty material should be covered by impervious material or maintained wet at Portion I.</li> </ul>	C7
200205-R1	<b>D. Construction Noise Impact</b> <ul style="list-style-type: none"> <li>Powered mechanical equipment should be covered or shielded by appropriate materials. Noise enclosures or noise barriers should be provided by contractor at Bridge B.</li> </ul>	D7
	<b>E. Waste / Chemical Management</b> <ul style="list-style-type: none"> <li>Construction waste should be removed. Construction site should be kept clean at Portion F.</li> <li>Oil leakage from excavator should be avoided at Portion E.</li> </ul>	
200205-R2		E1, E4 E8
200325-R1		
	<b>F. Ecology and Fisheries</b> No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b> No environmental deficiency was identified during site inspection.	
	<b>H. Permits/Licences</b> No environmental deficiency was identified during site inspection.	
	<b>I. Others</b> Follow up on the previous session (Ref. No: 200318), follow up actions are needed to be reviewed for item 200205-R1 & R2, 200304-O1 and 200312-R1. Item 200318-R1 and 200219-R2 were rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		25 March 2020
Checked by	Ms. Jennifer Mok		25 March 2020

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**APPENDIX H**  
**EVENT AND ACTION PLANS**

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## Appendix H - Event and Action Plans

### Event and Action Plan for Construction Noise

EVENT	ACTION			
	ET LEADER	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none"> <li>1. Notify IC(E) and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IC(E) and Contractor;</li> <li>4. Discuss with the Contractor and formulate remedial measures;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IC(E);</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level being exceeded	<ol style="list-style-type: none"> <li>1. Notify IC(E), ER, EPD and Contractor;</li> <li>2. Identify source;</li> <li>3. Repeat measurement to confirm findings</li> <li>4. Increase monitoring frequency;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Inform IC(E), ER and EPD the causes &amp; actions taken for the exceedances;</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented;</li> <li>5. If exceedance continues, consider what portion of the</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IC(E) within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

## Appendix H - Event and Action Plans

	<p>7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring</p>		<p>work is responsible and instruct the Contractor to stop that portion of the work until the exceedance is abated.</p>	
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**APPENDIX I  
ENVIRONMENTAL MITIGATION  
IMPLEMENTATION SCHEDULE (EMIS)**

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Air Quality</b>			
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	<ul style="list-style-type: none"> <li>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</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>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</li> </ul>	*
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>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</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate</li> </ul>	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>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</li> </ul>	#
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>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</li> </ul>	#



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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Noise Impact</b>			
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 CHMP5+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).	^

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

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	#

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> <li>- crane mounted auger</li> <li>- grout mixer</li> <li>- grout pump</li> <li>- drill</li> <li>- road ripper, excavator mounted</li> </ul>	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PME's where practicable: <ul style="list-style-type: none"> <li>- air compressor</li> <li>- hand-held breaker</li> </ul>	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 <sup>2</sup> .	^
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	^

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

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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
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.	^



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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Water Quality</b>			
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 hydro-seeded following completion to prevent erosion	N/A

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

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
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	#
-	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.	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Waste Management</b>			
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 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	<ul style="list-style-type: none"> <li>• The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>• 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 minimization</li> </ul>	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>• All waste materials shall be sorted on-site into inert and non-inert C&amp;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)</li> </ul>	^



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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>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&amp;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</li> </ul>	#
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>In order to monitor the disposal of C&amp;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”.</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>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;</li> </ul>	#

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>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;</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>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</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>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.</li> </ul>	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Land Contamination</b>			
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. 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: <ul style="list-style-type: none"> <li>• General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection;</li> <li>• Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used;</li> <li>• Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene;</li> <li>• Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants.</li> </ul>	N/A
S.8.7.5	S.7.3.1	<u>Management of Contaminated Soils</u> <ul style="list-style-type: none"> <li>• Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers;</li> <li>• The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site;</li> <li>• All temporary stockpiles of the materials shall be completely covered with plastic/tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete</li> </ul>	N/A

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

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
		<p>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;</p> <ul style="list-style-type: none"> <li>• Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of contaminated water requiring disposal and suspended solids in the wastewater stream</li> </ul>	



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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Ecological &amp; Fisheries Impact</b>			
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)	<i>In situ</i> 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 grove 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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	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 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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	<p>The following good work practices are recommended:</p> <ul style="list-style-type: none"> <li>• Avoid soil storage against trees;</li> <li>• Fence off any potentially ecologically sensitive areas;</li> <li>• Delineation of works area to prevent encroachment onto adjacent habitats;</li> <li>• Reinstatement of habitat after works;</li> <li>• No on-site burning of waste; Waste and refuse in appropriate receptacles;</li> <li>• Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible;</li> <li>• Regular ecological checks; and</li> <li>• Silt/ Sediment/ Oil traps for drainage to prevent site run-off</li> </ul>	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Cultural Heritage Impact</b>			
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
<b>Landscape and Visual</b>			
<i>Detailed Design Phase</i>			
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 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	^



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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		Survey Report and approval from relevant departments at that stage	
<i>Construction Phase</i>			
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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
	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 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.	^

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

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
	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 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.

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

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Agreement No. CE 67/2015 (HY)

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

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

Reporting Month: March 2020

Contract No. YL/2015/01

### Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Table I - Record of Environmental Complaints

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
1	Pok Wai South Road	8 <sup>th</sup> November 2018	The complaint is filed against extensive dusty stockpile being placed at the works site of Pok Wai South Road (Portion A), causing dust nuisance and affecting the passer-by and residents.	<ul style="list-style-type: none"><li>• Cover all the stockpile when stockpiling works was not being conducted;</li><li>• Arrange on-site personnel to wash the wheels of the vehicles immediately before they leave the site area; and</li><li>• Increase the frequency of water spraying on the stockpiles to dampen the dusty surface.</li></ul>	CIR was submitted in December
2	Mai Po San Tsuen (Portion D)	20 <sup>th</sup> December 2018	The complaint is filed against extensive dust nuisance by construction activities generated sand and dust, and may have caused the nearby village roads to look dusty and unclean.	<ul style="list-style-type: none"><li>• Increase the frequency of water spraying on the paved roads to minimize the dust generation; and</li><li>• Cover the temporary cut slopes by tarpaulin before any excavation works commence.</li></ul>	CIR was submitted in December
3	Mai Po San Tsuen (Portion D)	21 <sup>st</sup> December 2018	The complaint is filed against site effluent being pumped and discharge into the nearby surface channel from the same construction site.	<ul style="list-style-type: none"><li>• Cover the temporary cut slopes by tarpaulin before any excavation works commence.</li><li>• Clean the water in the channel and all broken covers are replaced by new decking covers</li><li>• 3 weirs have been installed at the downstream</li><li>• Use of sedimentation tank prior to discharge</li><li>• New cut-off plate next to the channel will be raised 200mm to prevent potential run-off</li><li>• A filter with aggregate is placed at the side channel</li></ul>	CIR was submitted in February



**Agreement No. CE 67/2015 (HY)**

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<ul style="list-style-type: none"> <li>Water and wastewater filtration system is installed to treat the site effluent.</li> </ul>	
4	Yau Mei San Tsuen	5 <sup>th</sup> December 2019	The complaint is filed against several stockpiles of dusty materials were not covered in the construction site ( Yau Mei San Tsuen, Portion D) on 19 November 2019, 1300hr. No dust suppression measures were observed on site. Moreover, earth moving by grabber on lorry also generated large amount of dust.	<ul style="list-style-type: none"> <li>Increased the frequency of water spraying on the exposed earth to minimize the dust generation</li> <li>Removed the stockpiles on site</li> <li>Installed sprinklers to keep the site clearance wet</li> </ul>	CIR was submitted in December

**Remarks:** Four environmental complaints were received in the previous reporting period. No environmental complaint was received in this reporting period.

**Table II - Record of Notification of Summon and Successful Prosecution**

Log Ref.	Received Date	Details of summon and prosecution	Status
1	5 <sup>th</sup> November 2019	Carrying out regulatory work not in accordance with the Schedule of the Air Pollution Control (Construction Dust) Regulation.	Acquitted
2	5 <sup>th</sup> November 2019	Constructing a designated project contrary to the condition of environmental permit.	The prosecution was successful

**Remarks:** Two notifications of summon and one successful prosecution were received in the previous reporting period. No notifications of summon nor prosecution was received in this reporting period.

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**APPENDIX K  
SUMMARY OF WASTE GENERATION  
AND DISPOSAL RECORDS**

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Sang Hing – Kuly Joint Venture  
Environmental Management Plan for Contract No. YL/2015/01  
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

**Monthly Summary Waste Flow Table for 2016 (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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Aug	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Sept	0.005	-	-	-	0.005	-	0.01	0.01	0.01	-	0.06
Oct	-	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Nov	0.35	-	-	-	0.35	-	0.05	0.05	0.05	-	0.05
Dec	0.4	-	-	-	0.4	-	0.05	0.05	0.05	-	0.05
Total	0.755	-	-	-	0.755	-	0.18	0.18	0.18	-	0.22

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

#Revised Figure

**Sang Hing – Kuly Joint Venture**  
**Environmental Management Plan for Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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
Aug	1.49	-	-	-	1.49	-	0.05	0.05	0.05	-	0.01
Sep	1.15	-	-	-	1.14	0.493	0.05	0.05	0.05	-	0.01
Oct	1.19	-	-	-	1.19	-	0.05	0.05	0.05	-	0.01
Nov	0.79	-	-	-	0.76	-	0.05	0.05	0.05	-	0.03
Dec	3.09	-	-	-	3.07	-	0.05	0.05	0.05	-	0.01
Total	13.24	-	-	-	13.18	0.986	0.6	0.6	0.6	-	0.22

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

#Revised Figure

**Sang Hing – Kuly Joint Venture**  
**Environmental Management Plan for Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

Name of Department: CEDD

Contract No.: YL/2015/01

**Monthly Summary Waste Flow Table for 2018 (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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	4.37	-	-	-	4.36	-	0.05	0.05	0.05	-	0.01
Feb	1.66	-	-	-	1.64	-	0.05	0.05	0.05	-	0.01
Mar	1.85	-	-	-	1.82	-	0.05	0.05	0.05	-	0.01
Apr	3.35	-	-	-	3.31	-	0.05	0.05	0.05	-	0.01
May	0.84	-	-	-	0.82	-	0.01	0.01	0.01	-	0.01
June	0.04	-	-	-	-	-	0.01	0.01	0.01	-	0.04
July	2.75	-	-	-	2.72	-	0.01	0.01	0.01	-	0.03
Aug	1.34	-	-	-	1.32	-	0.01	0.01	0.01	-	0.02
Sept	0.69	-	-	-	0.68	-	0.01	0.01	0.01	-	0.01
Oct	2.99	-	-	-	2.97	-	0.01	0.01	0.01	-	0.01
Nov	4.62	-	-	-	4.61	-	0.01	0.01	0.01	-	0.01
Dec	6.49	-	-	-	6.45	-	0.01	0.01	0.01	-	0.05
Total	30.99	-	-	-	30.70	-	0.28	0.28	0.28	-	0.22
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
Total	44.985	-	-	-	44.635	0.986	1.06	1.06	1.06	-	0.66

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

#Revised Figure



Sang Hing – Kuly Joint Venture  
 Environmental Management Plan for Contract No. YL/2015/01  
 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

**Monthly Summary Waste Flow Table for 2019 (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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	1.13	-	-	-	1.08	-	0.05	0.05	0.05	-	0.05
Feb	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Mar	0.06	-	-	-	-	-	0.05	0.05	0.05	-	0.06
Apr	0.06	-	-	-	0.03	-	0.05	0.05	0.05	-	0.03
May	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
June	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
July	0.05	-	-	-	-	-	0.05	0.05	0.05	-	0.05
Aug	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Sep	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Oct	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Nov	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
Dec	0.19	-	-	-	-	-	0.05	0.05	0.05	-	0.19
Sub-total	1.69	-	-	-	-	-	0.60	0.60	0.60	-	0.58
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
Total	46.675	-	-	-	45.745	0.986	1.61	1.61	1.61	-	1.24

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

#Revised Figure

Sang Hing – Kuly Joint Venture  
 Environmental Management Plan for Contract No. YL/2015/01  
 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

**Monthly Summary Waste Flow Table for 2020 (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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.13	-	-	-	-	-	0.05	0.05	0.05	-	0.13
Feb	0.16	-	-	-	-	-	0.05	0.05	0.05	-	0.16
Mar	0.07						0.05	0.05	0.05		0.07
Apr											
May											
June											
July											
Aug											
Sep											
Oct											
Nov											
Dec											
Sub-total	0.36						0.15	0.15	0.15		0.36
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
Total	46.774	-	-	-	45.745	0.986	1.76	1.76	1.76	-	1.60

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

#Revised Figure

**Sang Hing – Kuly Joint Venture**  
**Environmental Management Plan for Contract No. YL/2015/01**  
**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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 m<sup>3</sup>. (ETWB Technical Circular PS Clause 5(4)(b) refers).  
 [Delete Note (4) and the table above on the forecast, where inapplicable].