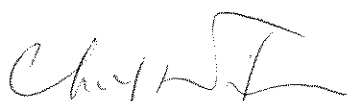


Civil Engineering and Development Department

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)

January 2018

Approved By 
(Dr. Priscilla Choy,
Environmental Team Leader)

REMARKS:

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

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 15th Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in 1 – 31 January 2018.
2. During the reporting month, the major site activities undertaken in the reporting month included:

Portion A: Construction of Retaining wall;

Portion B: Construction of Subway A;

Portion C: Construction of Retaining Wall;

Portion D: Construction of Retaining Wall, Construction of stream decking;

Portion E: Construction of Retaining Wall, Construction of Utilities Works;

Portion F: Construction of Utilities Works;

Portion G: Abutment Construction, Load test;

Portion H: Construction of Retaining Wall;

Portion I: Construction of Subway D;

Portion N: Construction of Utilities Works;

Portion J: Construction of Retaining Work;

Portion K: Construction of Retaining Wall;

Portion L: Construction of Public Toilet;

Portion M: Construction of Retaining Wall, Construction of Piling work, Loading Test for pile; and

Portion P: Construction of Drainage Work

Environmental Monitoring Works

3. Environmental monitoring for the Project shall be performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
4. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table I**.

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

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

Key Information in the Reporting Month

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

Table II Summary Table for Key Information in the Reporting Month

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

Environmental License and Permits

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

Future Key Issues

7. The future key environmental issues in the coming two months include:
- Wastewater and runoff generation on-site;
 - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for excavation works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
 - Water spraying for dust generating activities and on haul road;

- Proper storage of construction materials on-site;
- Storage of chemicals/fuel and chemical waste/ waste oil on-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 23rd November 2016. This is the 15th Monthly EM&A Report summarizing the EM&A works for the Project from 1 – 31 January 2018.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
 - Project Proponent – Civil Engineering and Development Department (CEDD)
 - Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings)
 - Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR)
 - Contractor – Sang Hing – Kuly Joint Venture (SKJV)
- 1.7 The Organizational Structure for Environmental Management is shown in **Figure 3**.

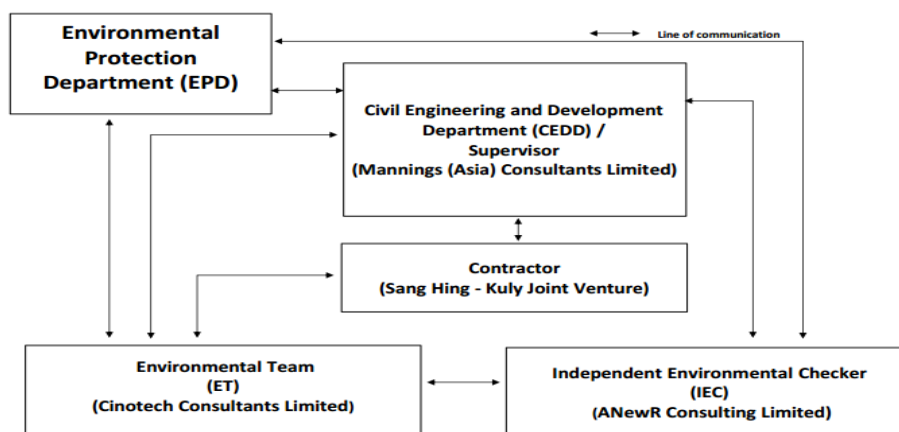


Figure 3 Organization Structure (Environmental Aspects)

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

Table 1.1 Key Project Contacts

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

Construction Activities undertaken during the Reporting Month

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

- Portion A: Construction of Retaining wall;
- Portion B: Construction of Subway A;
- Portion C: Construction of Retaining Wall;
- Portion D: Construction of Retaining Wall, Construction of stream decking;
- Portion E: Construction of Retaining Wall, Construction of Utilities Works;
- Portion F: Construction of Utilities Works;
- Portion G: Abutment Construction, Load test;
- Portion H: Construction of Retaining Wall;
- Portion I: Construction of Subway D;
- Portion N: Construction of Utilities Works;
- Portion J: Construction of Retaining Work;
- Portion K: Construction of Retaining Wall;

Portion L: Construction of Public Toilet;

Portion M: Construction of Retaining Wall, Construction of Piling work, Loading Test for pile; and

Portion P: Construction of Drainage Work

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

Summary of EM&A Requirements

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

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

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

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required noise monitoring and audit works for the Project in 1 – 31 January 2018.

2 AIR QUALITY

Monitoring Requirements

- 2.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.
- 2.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

3 WATER QUALITY

Monitoring Requirements

- 3.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no water quality monitoring is required for the Project.
- 3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

4 NOISE

Monitoring Requirements

- 4.1 In accordance with approved EM&A Manuals for Stage 1 works in Year 2015, no noise impact monitoring is required for Stage 1 works of the Project.
- 4.2 According to approved EM&A Manual for Stage 2 works (Year 2015), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities under the Stage 2 works of the Project. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

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

Table 4.1 Noise Monitoring Stations

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

Monitoring Equipment

- 4.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications.
- 4.5 Acoustic Calibrator was used to check the accuracy of the sound level meter. The calibrators generate a continuous and highly stable sound pressure level at known frequency of 1 kHz that also complied with IEC 942: 1988 Class 1 specifications. **Table 4.2** summarizes the noise monitoring equipment in reporting period. Copies of calibration certificates are provided in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model No.	Qty.
Integrating Sound Level Meter	SVAN 955, 957	2
Acoustic Calibrator	SV 30A, B&K 4231	2

Monitoring Parameters and Frequency

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

Table 4.3 Frequency and Parameters of Noise Monitoring

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

Monitoring Methodology and QA/QC Procedures

4.7 The monitoring procedures are as follows:

- The monitoring station were normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB (A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting : A
 - Time weighting : Fast
 - Measurement time : 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- At the end of the monitoring period, the L_{eq}, L₉₀ and L₁₀ were recorded. In addition, noise sources were recorded on a standard record sheet.
- Noise measurement would be paused temporarily during periods of high intrusive noise if possible and observation would be recorded when intrusive noise was not avoided.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

- 4.8 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 4.9 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 4.10 Immediately prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 4.11 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in the reporting month is shown in **Appendix F**.
- 4.12 The baseline noise level and the Noise Limit Level at each designated noise monitoring stations are presented in **Table 4.5**.
- 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

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

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

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

5 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

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

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

Stations	Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)	Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)	Reporting Month (January 18), L_{eq} (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 ⁽¹⁾	53.1-62.0
N2 – Bethel High School	57-64	64 ⁽¹⁾	50.2-61.1
N3 – No. 159 Mai Po San Tsuen	70-73	74 ⁽²⁾	68.6-73.4
N5 – Block 2, Dills Corner Garden	73-75	75 ⁽²⁾	65.3-69.7
N6 – Home of Loving Faithfulness	64-73	74 ⁽¹⁾	62.9-71.6
N7 – Village House in Shek Wu Wai	N/A ⁽³⁾	70 ⁽²⁾	57.4-72.2

Remark:

(1) With adoptions of quiet PMEs, temporary noise barrier and enclosure

(2) With sub-grouping of construction activities

(3) No construction noise level was predicted in EIA Report (2009)

5.2 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results at N1, N2, N5 and N6 were lower than the range of the predicted mitigated construction noise levels in the EIA Report. Moreover, the noise monitoring results at N3 was slightly higher than the range of the predicted mitigated construction noise levels in the EIA Report.

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

6 ECOLOGY AND FISHERIES

- 6.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, no specific ecological or fisheries monitoring is required during the construction phase of the Project.
- 6.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of ecology and fisheries mitigation measure. The summaries of site audits are attached in **Appendix G**.

7 LANDSCAPE AND VISUAL IMPACT

- 7.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, regular audits should be carried out to ensure all the recommended landscape and visual mitigation measures in EIA Report, Environmental Review Reports and EM&A Manuals were effectively implemented.
- 7.2 ET Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measure. The summaries of site audits are attached in **Appendix G**.

8 ENVIRONMENTAL AUDIT

Site Audits

- 8.1 Site audit was carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix G**.
- 8.2 Site audits were conducted on 3, 10, 16, 23 and 31 January 2018 in the reporting month. IEC joint site inspection was conducted on 16 January 2018. No non-compliance was observed during the site audit.

Review of Environmental Monitoring Procedures

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

Noise Monitoring

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

Statues of Environmental Licensing and Permitting

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

Table 8.1 Summary of Environmental Licensing and Permit Status

Permit No.	Valid Period		Details	Status
	From	To		
Environmental Permit (EP)				
EP-450/2013/A	25/08/2015	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
Billing Account for Construction Waste Disposal				
A/C No.: 7025411	N/A	N/A	Billing Account for construction waste disposal under Waste Disposal (Charges for Disposal of Construction Waste) Regulation	Valid
Effluent Discharge License				
WT00027672-2017	--	31/3/2022	Discharge License for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain	Valid
WT00027661-2017				
WT00027606-2017				
WT00027510-2017				
WT00027509-2017				
WT00027603-2017				

Permit No.	Valid Period		Details	Status
	From	To		
WT00027508-2017				
WT00027582-2017		30/6/2018		
WT00027584-2017		31/7/2019		
WT00027431-2017		30/6/2020		
WT00027605-2017	--	31/3/2022		
WT00027607-2017				
WT00027834-2017		30/4/2022		
WT00028748-2017	17/08/2017	31/08/2022		
WT00028850-2017	14/08/2017	31/08/2022		
Registration of Chemical Waste Producer				
No.:WPN5213-524-K3261-01	--	N/A	Registration of chemical waste producer for chemical waste produced during construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
Construction Noise Permit (CNP)				
GW-RN0702-17	5/11/17	21/1/2018	Construction Noise Permit for loading, unloading or handling of wood in San Tin Highway near Man Tin Cheung Park	Expired
GW-RN0852-17	2/1/18	31/3/2018	Construction Noise Permit for the use of powered mechanical equipment for carry out construction work at a construction site at Shek Sheung River nearby Choi Shun Street	Valid

Status of Waste Management

- 8.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix K**.
- 8.6 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

- 8.7 According to the Environmental Review Reports, Environmental Permits and the EM&A Manuals of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix I**.
- 8.8 During site inspections in the reporting month, no non-conformance was identified. The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 8.2**.

Table 8.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	6, 11, 17, 24 October, 2, 8, 15, 21, 29 November, 6, 12, 19, 27 December 2017, 3, 10, 16, 23, 31 January 2018	Unsatisfactory water quality of Wheel Washing Bay at Portion A was found. The Contractor is reminded to maintain the water quality by regular checking and cleaning.	Follow up actions will be reported in the next month.
	6, 11, 17, 24 October, 2, 8, 15, 21, 29 November, 6, 12, 19, 27 December 2017, 3, 10, 16, 23, 31 January 2018	The silt and sediment of the sedimentation tank at Portion A should be disposed regularly to maintain the quality of the system.	Follow up actions will be reported in the next month.
	15, 21, 29 November, 6, 12, 19, 27 December 2017, 3 January 2018	A proper and well-designed wheel washing bay is needed at Portion C to wash off dusts/contaminated soil from vehicles.	The condition was observed to be improved/rectified by the contractor during the audit session on 10 January 2018
	10, 16 January 2018	The sedimentation tank was not well designed near Subway A. The Contractor was asked to re-design in full compliance with the Water Discharge License.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 January 2018

Parameters	Date	Observations and Recommendations	Follow-up
	16, 23, 31 January 2018	The Contractor was reminded to avoid stagnant water at Portion M.	Follow up actions will be reported in the next month.
	23, 31 January 2018	Stagnant water was observed accumulating behind the retaining wall at Portion C. The Contractor was reminded to remove the stagnant water regularly to prevent mosquito breeding.	Follow up actions will be reported in the next month.
	23, 31 January 2018	The wastewater treatment facility was not properly connected before discharging to the storm water drains. The Contractor should review the connection for the entire wastewater treatment facility at Portion I according to the Discharge License and in full compliance with the WPCO.	Follow up actions will be reported in the next month.
	23, 31 January 2018	Wheel washing bay should be in use at Portion I. The Contractor was reminded to fill water back and implement regular visual checking for the water quality.	Follow up actions will be reported in the next month.
<i>Air Quality</i>	12, 19, 27 December 2017	Dusty surface was observed at Portion C. The Contractor was reminded to keep spraying water for the haul road to minimize the dust generation. Keeping clean and free from dust around the site entrance near the public road is needed.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 January 2018
	27 December 2017, 3, 10, 16 January 2018	NRMMs were found without proper labels at Portion E regarding to the air quality regulation. The Contractor was reminded to check all the NRMMs before operation.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 January 2018
	16 January 2018	The Contractor was reminded to ensure the stockpiles of dusty material is cover with tarpaulin sheet at Portion M.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 January 2018
	31 January 2018	Excavated dusty area should be covered by impervious material or maintained wet at Portion M.	Follow up actions will be reported in the next month.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste/ Chemical Management</i>	29 November, 6, 12, 19, 27 December 2017	Chemical container was observed without drip tray at Portion I. The Contractor was reminded to provide drip tray to prevent leakage.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 January 2018
	3, 10, 16, 23 January 2018	General refuse was found. It is observed that no bin was provided at Portion M for the general refuse to prevent visual impacts and nuisance to the sensitive surroundings.	The condition was observed to be improved/rectified by the contractor during the audit session on 31 January 2018
	10, 16 January 2018	Chemical Container was found on the ground without drip tray at Portion C. The Contractor was reminded to keep chemical container properly stored, treated and disposed.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 January 2018
	16 January 2018	Stagnant water was found in the drip tray at Portion I. The Contractor was reminded to clean it up.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 January 2018
	16, 23, 31 January 2018	General refuse and stagnant water were found in the drip tray at Portion C. The Contractor	Follow up actions will be reported in the next month.

Parameters	Date	Observations and Recommendations	Follow-up
		was reminded to keep the drip tray well-maintained.	
<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.

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

8.11 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix J**.

9 FUTURE KEY ISSUES

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

Portion A – Construction of Cycle Track, Construction of Dwarf Wall, Construction of Drainage Pipe

Portion B – Construction of Subway A, Construction of Drainage Pipe

Portion C – Construction of Retaining Wall Retaining Wall, Resting Station R7, Construction of Drainage Pipe

Portion D – Tree Felling, Construction of Drainage Pipe, Construction of Retaining Wall, Construction of Stream Decking D4

Portion E – Construction of Retaining Wall, Construction of Drainage Pipe,

Portion F – Site Clearance, Construction of Drainage Pipe, Construction of Road Kerb

Portion G – Construction of Bridge C

Portion H – Construction of Retaining Wall Retaining Wall,

Portion I – Construction of Subway D

Portion J – Site Clearance, Construction of Retaining Wall

Portion K – Construction of Retaining Wall Retaining Wall, Construction of Dwarf Wall, Construction of Drainage Pipe, Construction of Road Kerb

Portion L – Construction of Public Toilet

Portion M – Construction of Abutment of Bridge E, Construction of Retaining Wall, Plate Load Test for Retaining Wall

Portion P – Construction of Cycle Track, Planting

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. February 2018 to March 2018, are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 9.1	Air quality impact (dust)	(a) Frequent watering of haul road and unpaved/exposed areas; (b) Frequent watering or covering stockpiles with

		tarpaulin or similar means; and (c) Watering of any earth moving activities.
	Water quality impact (surface run-off)	(d) Diversion of the collected effluent to de-silting facilities for treatment in compliance with valid Discharge License prior to discharge to public storm water drains; (e) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; (f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and (g) Provision of measures to prevent discharge into the stream.
	Noise impact	(h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; (i) Controlling the number of plants use on site; (j) Regular maintenance of machines (k) Use of quiet 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 5 times of ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint and Prosecution

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

Recommendations

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

Air Quality

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

Water Quality

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

Waste/Chemical Management

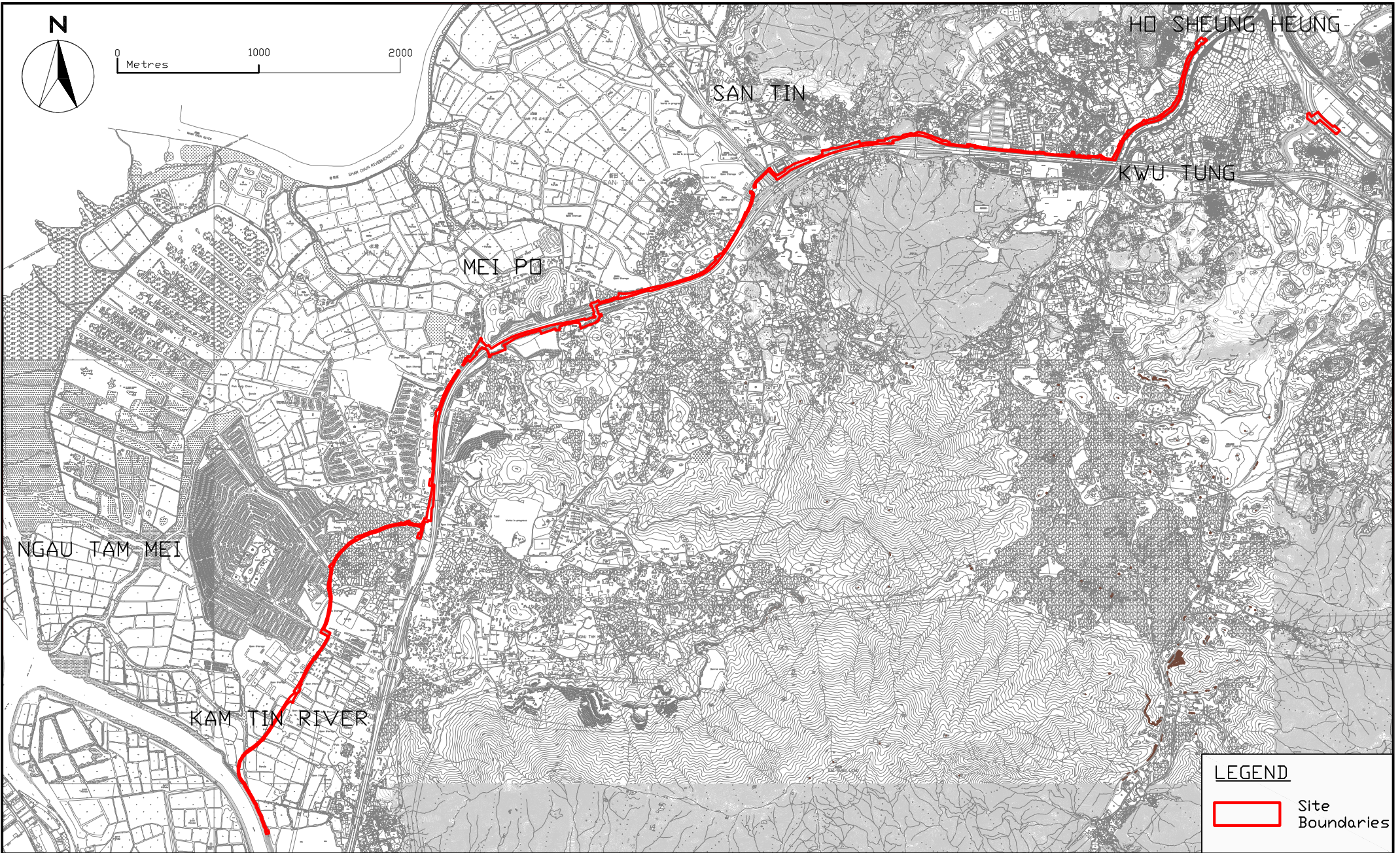
- General refuse should be removed regularly to prevent accumulation on-site. Proper enclosed bin should be provided with maintenance for collection of general refuse from workforce.
- Drip tray should be provided to oil/chemical containers and generator to avoid oil leakage. Any oil stain observed on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

chemical waste.

Landscape and Visual

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

FIGURES



LEGEND

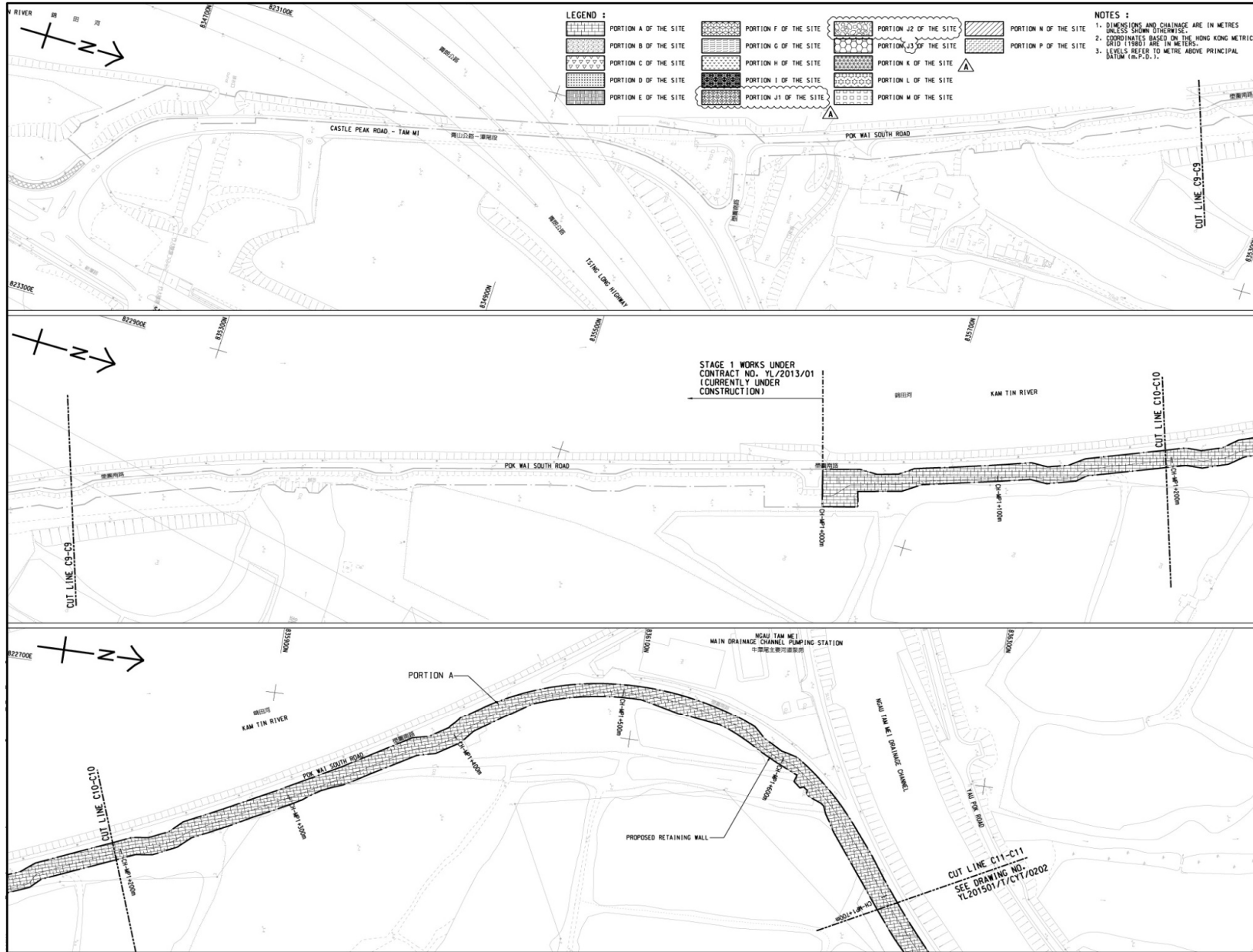
Site Boundaries



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

SITE LAYOUT PLAN

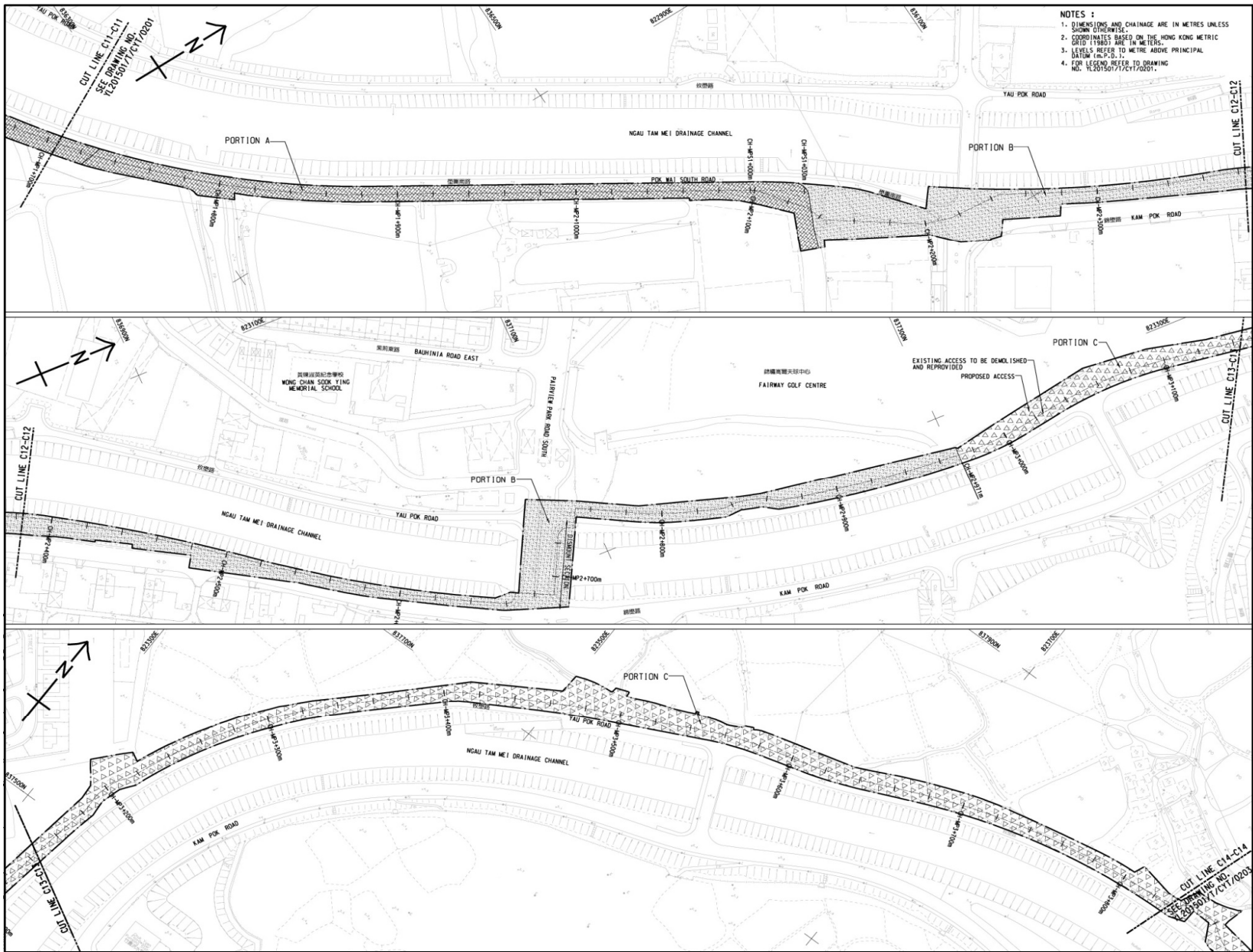
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CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	1a
		REV	-



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

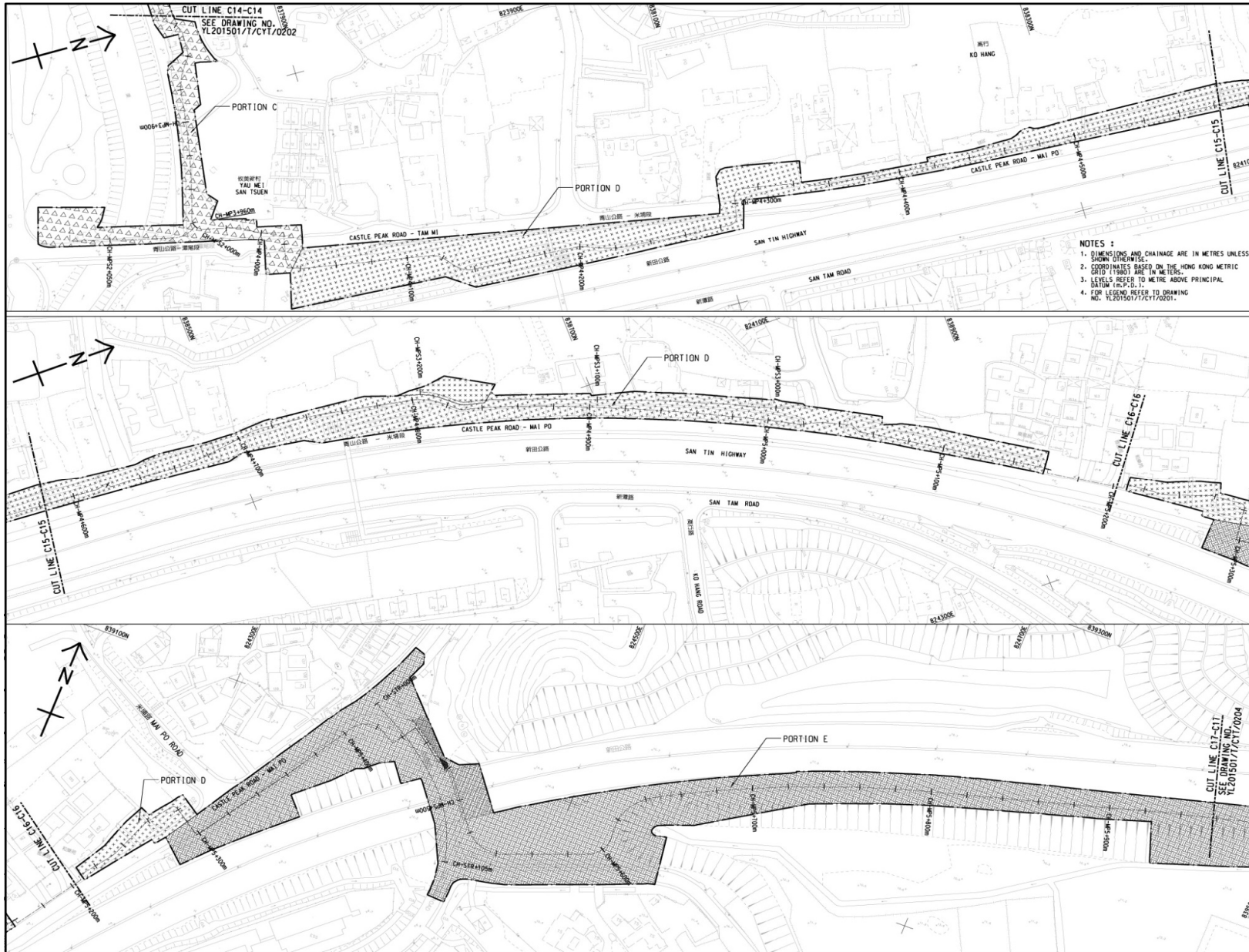
CINOTECH



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



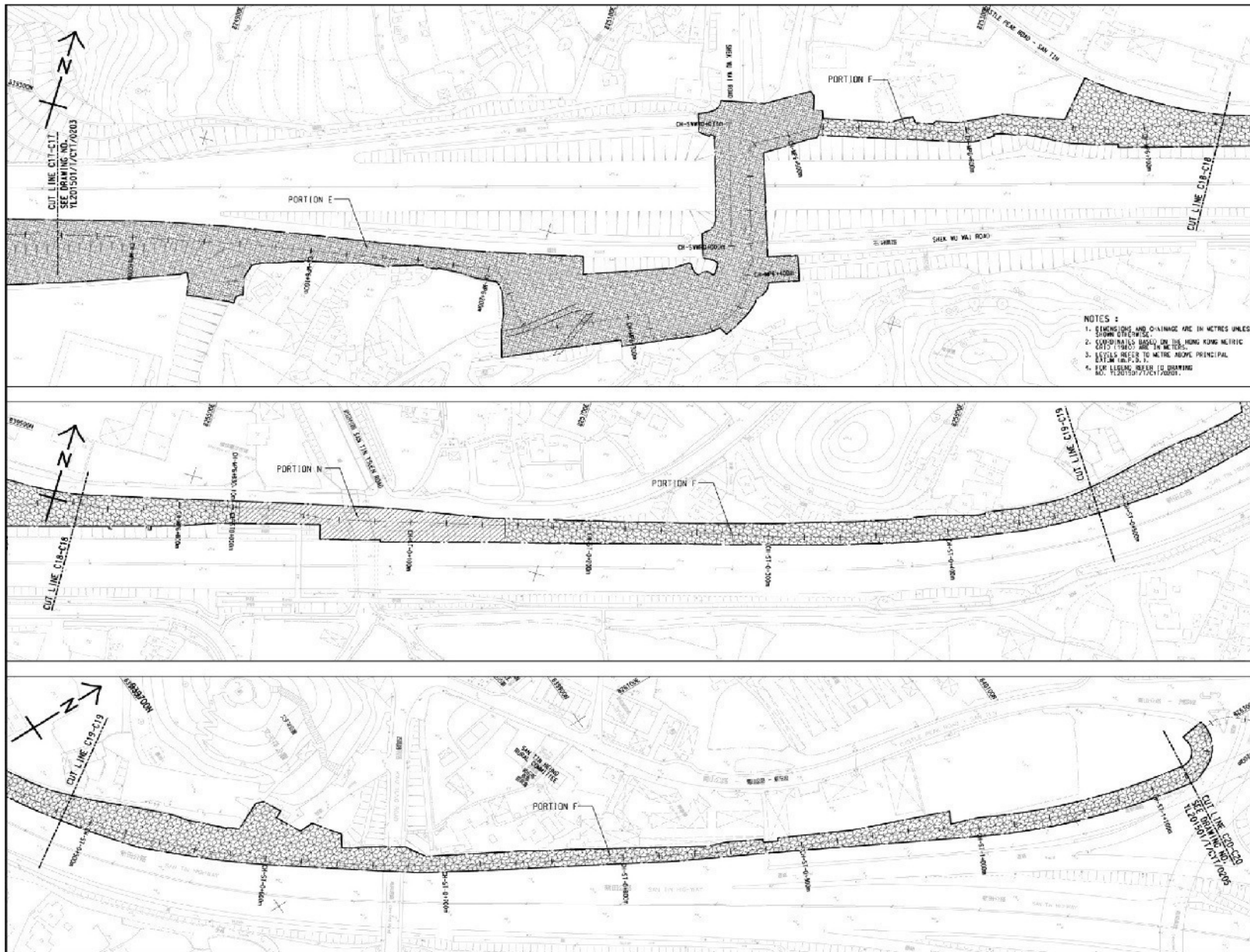


Title

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

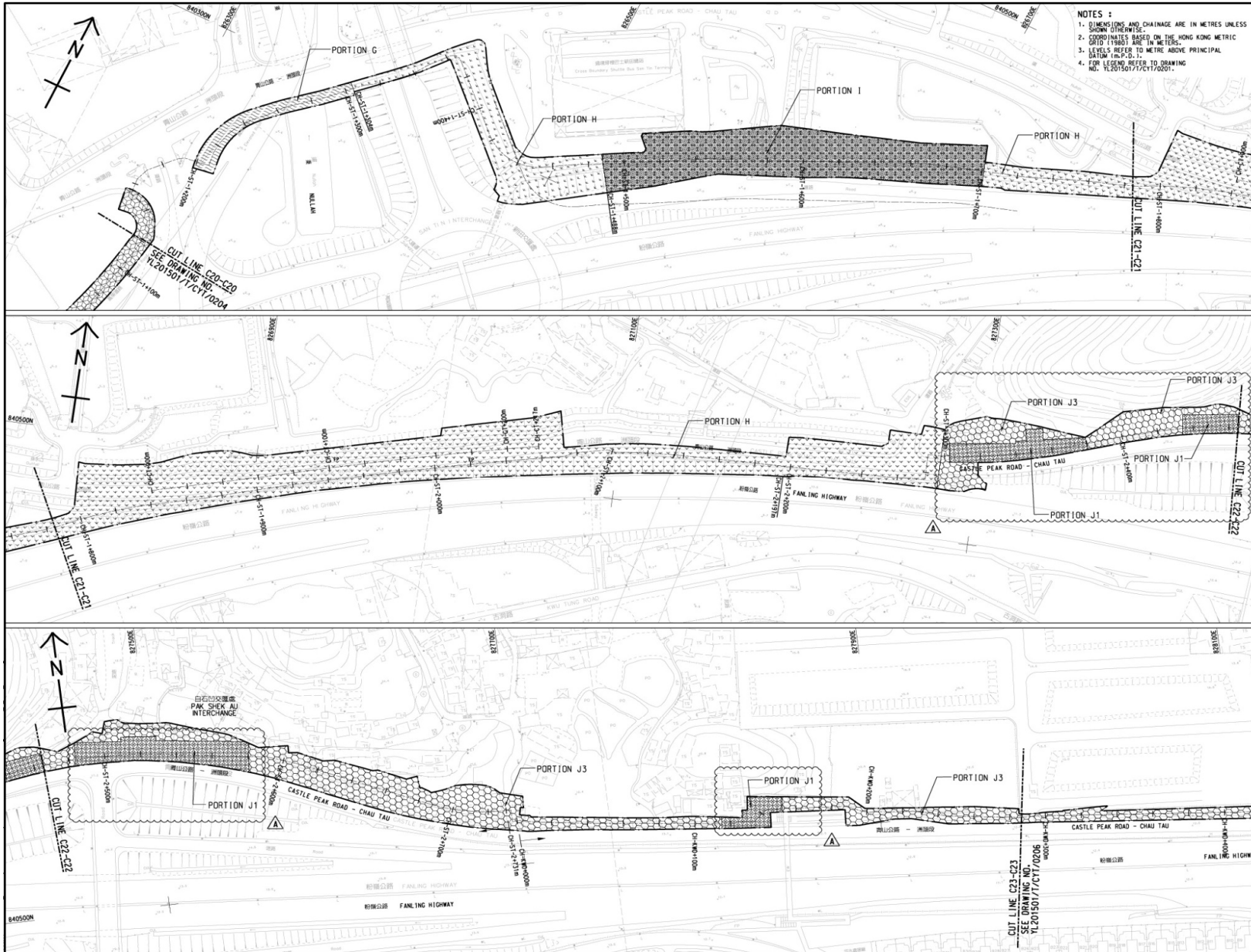




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

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

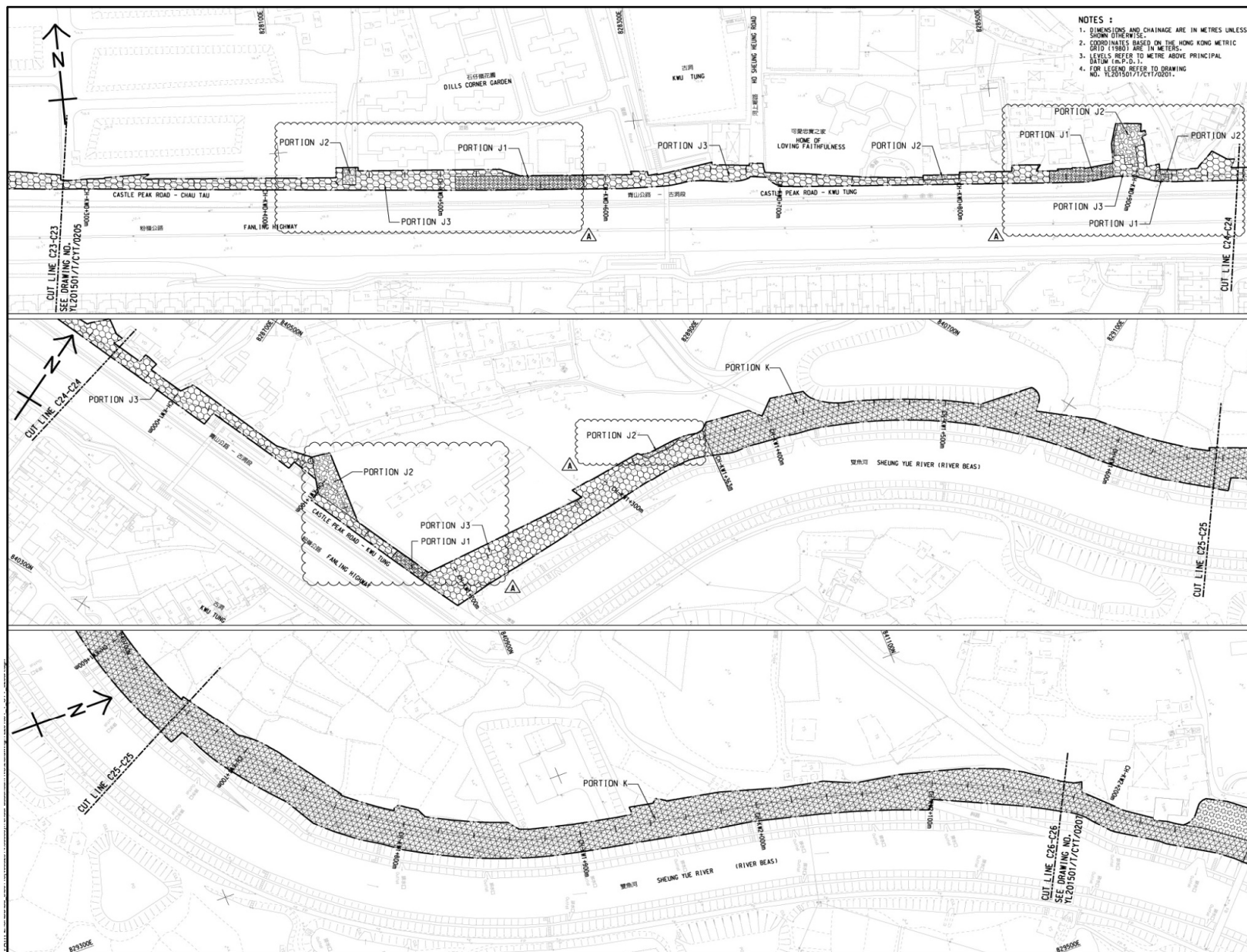




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

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





LEGEND	
	Site Boundary
	Noise Monitoring Stations



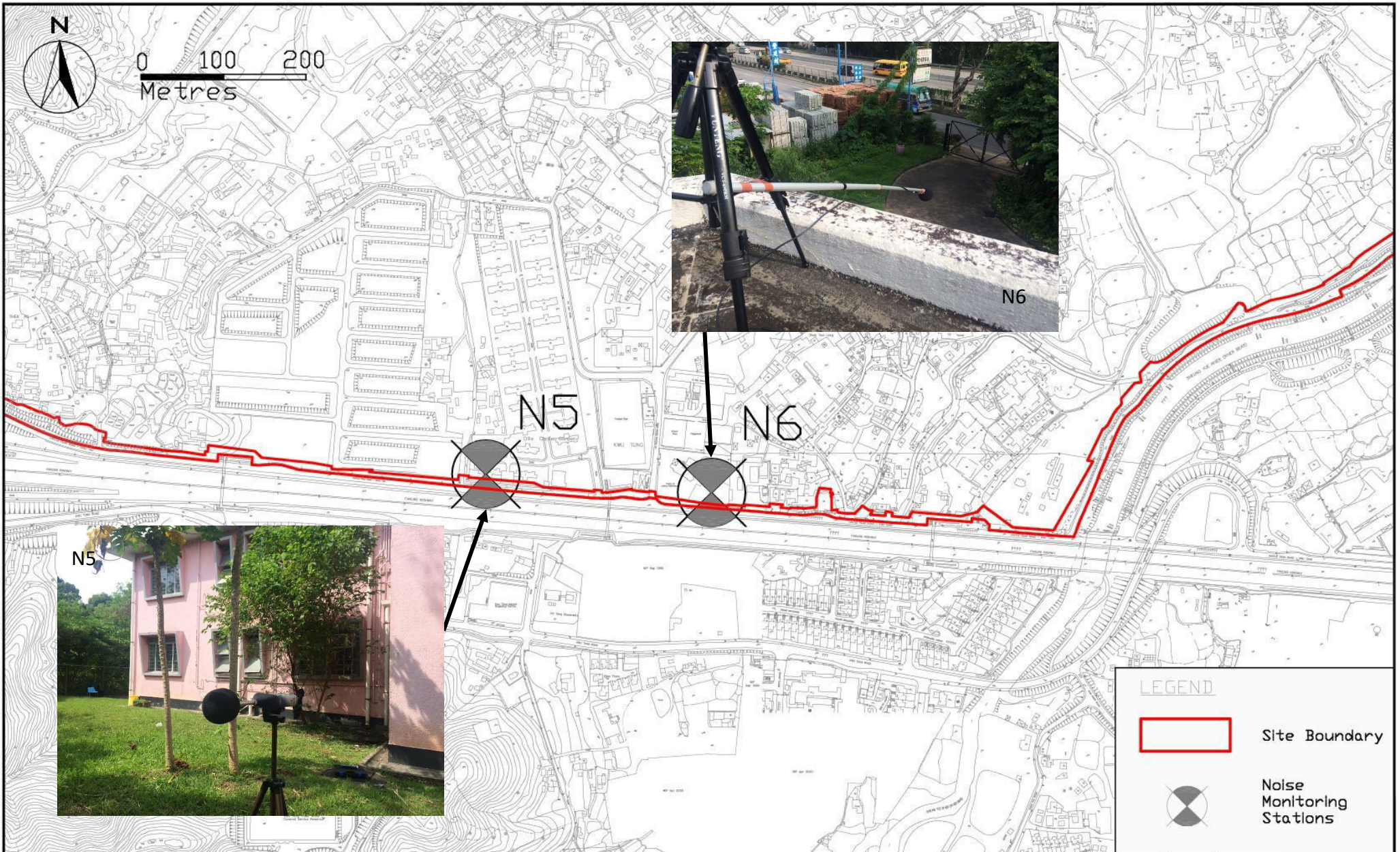
Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

Locations of the Noise Monitoring Stations (N1, N2)

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CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2a
		REV	-



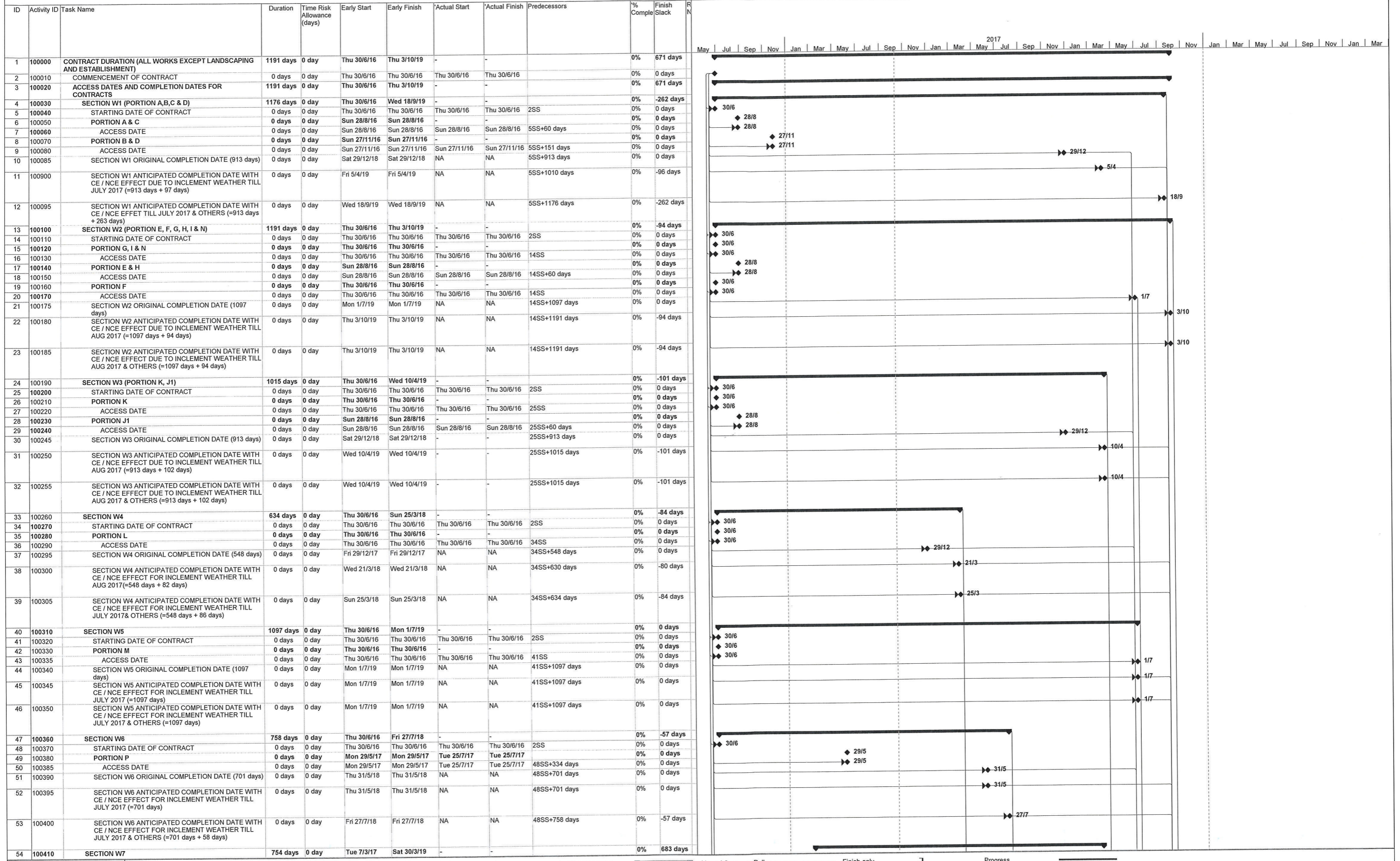
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CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2b
		REV	-



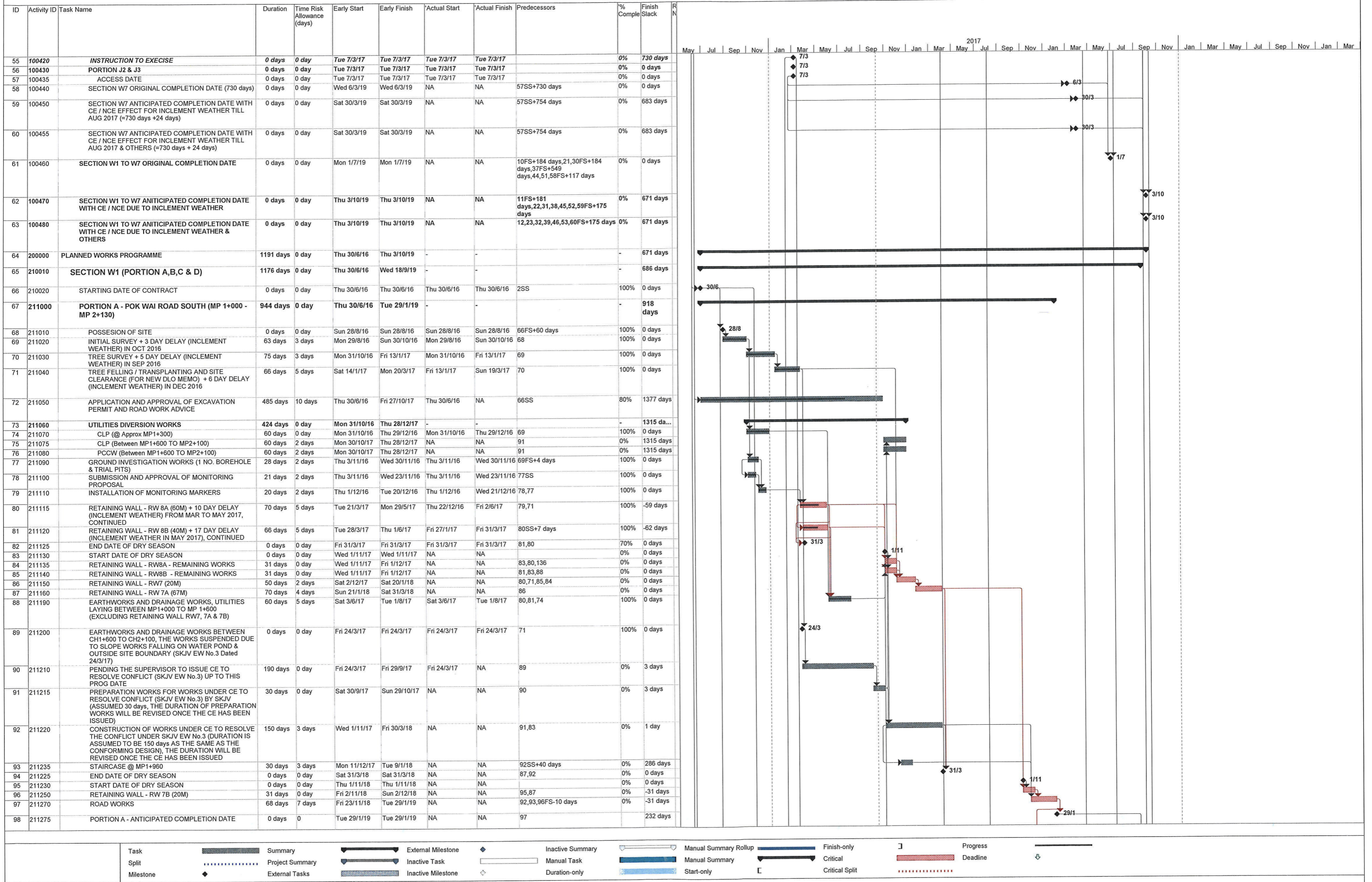
SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2c
		REV	-

**APPENDIX A
WORK PROGRAMME**

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

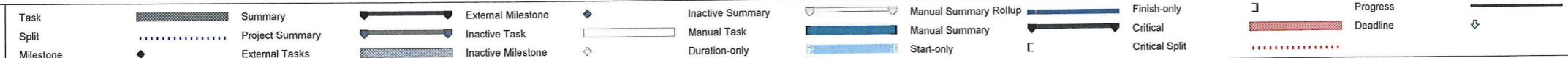
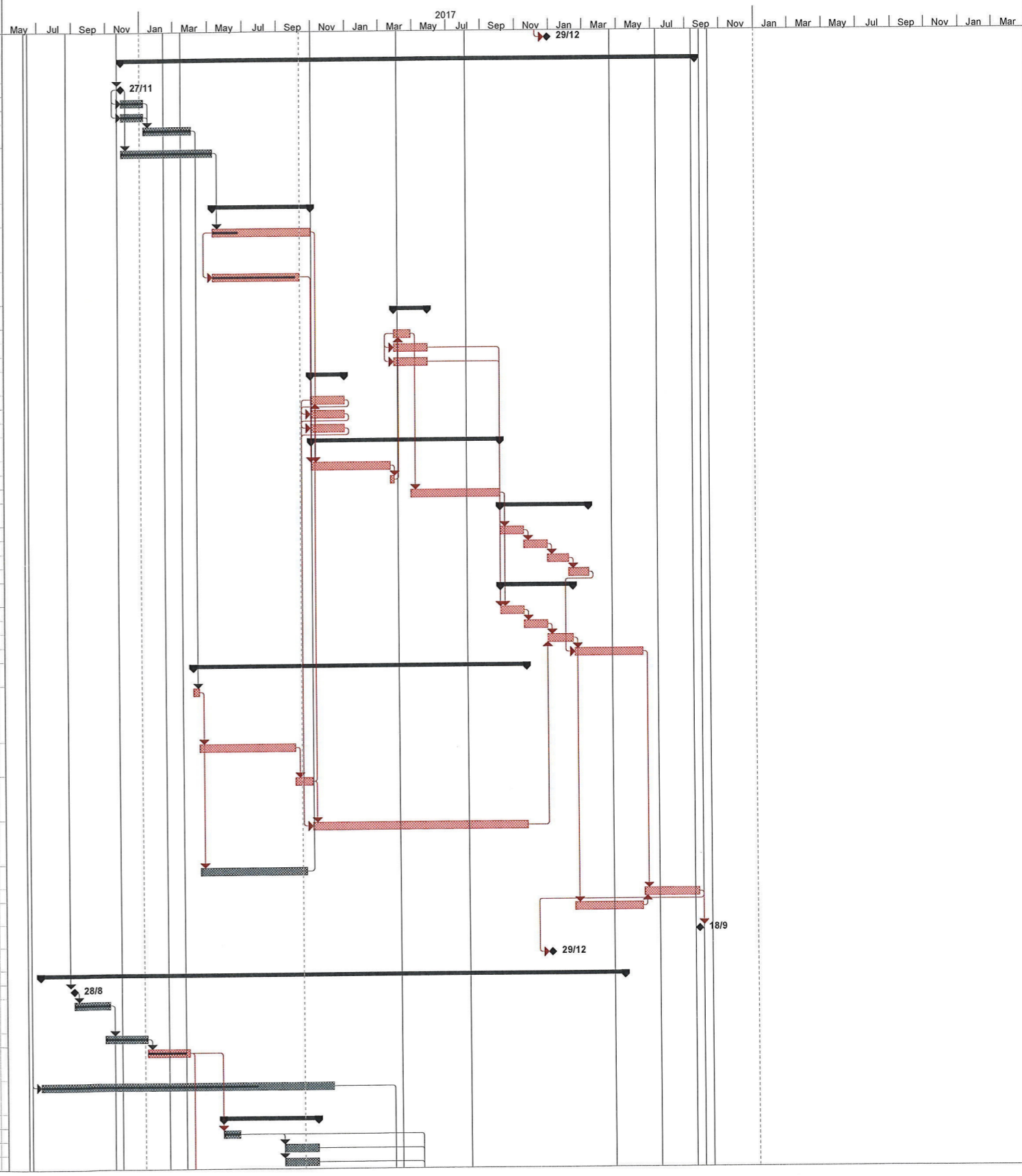


REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



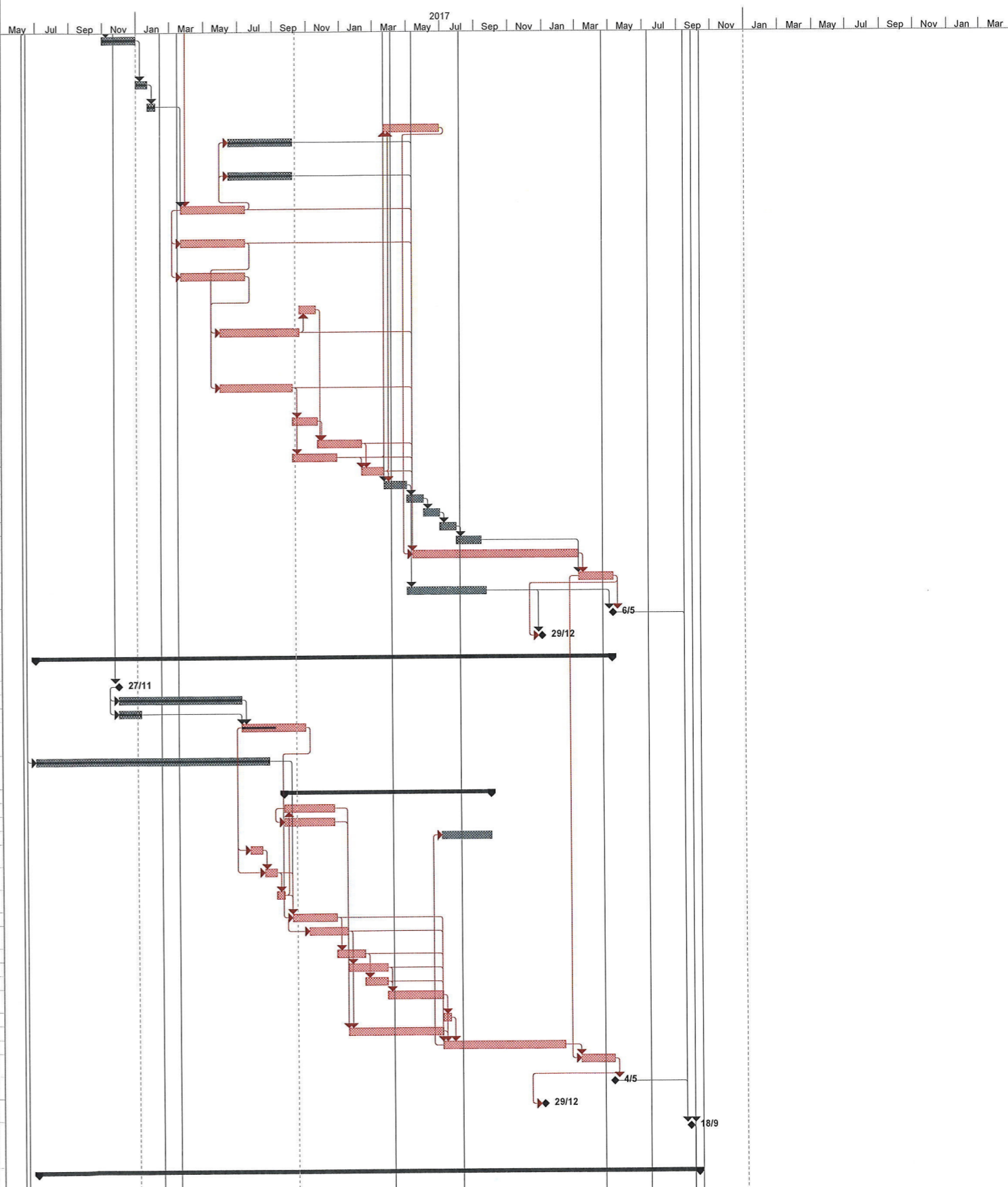
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	R
99	211280	PORTION A - ORIGINAL COMPLETION DATE	0 days	0 day	Sat 29/12/18	Sat 29/12/18	NA	NA	97	0%	0 days	
100	212000	PORTION B (MP 2+130 - MP 2+950)	1025 days		Sun 27/11/16	Wed 18/9/19	-	-	-	-	0 days	
101	212010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	66FS+151 days	100%	0 days	
102	212020	INITIAL SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	101SS	100%	0 days	
103	212030	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	101SS	100%	0 days	
104	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	103,102	100%	0 days	
105	212070	TTM PREPARATION BY SKJV & APPROVAL BY SUPREVISOR/PM/TMLG & 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	101	100%	0 days	
106	212100	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY PW1 TO PW9)	175 days		Tue 9/5/17	Mon 30/10/17	-	-	-	-	0 days	
107	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)	175 days	2 days	Tue 9/5/17	Mon 30/10/17	Tue 9/5/17	NA	105	30%	-263 days	
108	212140	WSD PIPE + Anticipated 95 Days Delay of Works Due to Delay in Diversion of WSD pipes (SKJV NCE No.40)	155 days	2 days	Tue 9/5/17	Tue 10/10/17	Tue 9/5/17	NA	107SS	95%	-243 days	
109	212200	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY PW10 TO PW16)	60 days		Tue 27/3/18	Fri 25/5/18	-	-	-	-	-130 days	
110	212210	CLP	30 days	1 day	Tue 27/3/18	Wed 25/4/18	NA	NA	119	0%	-263 days	
111	212220	HCL	60 days	1 day	Tue 27/3/18	Fri 25/5/18	NA	NA	110SS	0%	-130 days	
112	212230	WSD	60 days	1 day	Tue 27/3/18	Fri 25/5/18	NA	NA	110SS	0%	-130 days	
113	212240	UTILITIES DIVERSION WORKS (FOR CYCLE TRACK CONSTRUCTION)	60 days		Mon 30/10/17	Thu 28/12/17	-	-	-	-	-162 days	
114	212250	CLP	60 days	1 day	Mon 30/10/17	Thu 28/12/17	NA	NA	134	0%	-162 days	
115	212260	HCL	60 days	1 day	Mon 30/10/17	Thu 28/12/17	NA	NA	114SS	0%	-162 days	
116	212270	WSD	60 days	1 day	Mon 30/10/17	Thu 28/12/17	NA	NA	114SS	0%	-162 days	
117	212280	SUBWAY A BARRELS WITH PUMP ROOM (4 BAYS) CONSTRUCTION	337 days		Tue 31/10/17	Tue 2/10/18	-	-	-	-	-263 days	
118	212300	BAY PW7, 8 & 9	140 days	5 days	Tue 31/10/17	Mon 19/3/18	NA	NA	107,108	0%	-263 days	
119	212310	TTA FOR BAY PW9, 10, & 11	7 days	3 days	Tue 20/3/18	Mon 26/3/18	NA	NA	118	0%	-263 days	
120	212320	BAY PW9 & 10 WITH PUMP HOUSE, PW11	160 days	5 days	Thu 26/4/18	Tue 2/10/18	NA	NA	110	0%	-263 days	
121	212330	SOUTHERN RAMP (7 BAYS) CONSTRUCTION	157 days		Wed 3/10/18	Fri 8/3/19	-	-	-	-	-263 days	
122	212340	BAY PW6&7	42 days	2 days	Wed 3/10/18	Tue 13/11/18	NA	NA	120	0%	-263 days	
123	212350	BAY PW4&5	42 days	2 days	Wed 14/11/18	Tue 25/12/18	NA	NA	122	0%	-263 days	
124	212360	BAY PW2&3	38 days	2 days	Wed 26/12/18	Fri 1/2/19	NA	NA	123	0%	-263 days	
125	212370	BAY PW1 AND ASSOCIATED WORKS	35 days	2 days	Sat 2/2/19	Fri 8/3/19	NA	NA	124	0%	-263 days	
126	212380	NORTHERN RAMP (5 BAYS) CONSTRUCTION	129 days		Wed 3/10/18	Fri 8/2/19	-	-	-	-	-260 days	
127	212390	BAY PW12 & 13	42 days	2 days	Wed 3/10/18	Tue 13/11/18	NA	NA	120,111,112	0%	-260 days	
128	212400	BAY PW14 & 15	42 days	2 days	Wed 14/11/18	Tue 25/12/18	NA	NA	127	0%	-260 days	
129	212410	BAY PW16 AND ASSOCIATED WORKS	45 days	2 days	Wed 26/12/18	Fri 8/2/19	NA	NA	128,135	0%	-260 days	
130	212415	FINISHING WORKS AND E&M WORKS	120 days	5 days	Tue 12/2/19	Tue 11/6/19	NA	NA	129,125FS-25 days	0%	-263 days	
131	212420	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+350 TO 2+650	595 days		Sun 2/4/17	Sat 17/11/18	-	-	-	-	-222 days	
132	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, M&AL 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	104	0%	-222 days	
133	212430	PENDING SUPERVISOR TO ISSUE CE TO RESOLVE CONFLICT (SKJV NCE No.45) UP TO THIS PROG DATE	171 days	0 day	Wed 12/4/17	Fri 29/9/17	Wed 12/4/17	NA	132	0%	-222 days	
134	212435	PREPARATION WORKS FOR WORKS UNDER CE TO RESOLVE CONFLICT (SKJV NCE No.45) BY SKJV (ASSUMED 30 days)	30 days	0 day	Sat 30/9/17	Sun 29/10/17	NA	NA	133	0%	-222 days	
135	212440	CONSTRUCTION WORKS UNDER CE (SKJV NCE No.45), DUARTION WAS ASSUMED TO BE THE SAME AS THE DURATION AS CONFORMING DESIGN OF 384 days	384 days	0 day	Mon 30/10/17	Sat 17/11/18	NA	NA	134,114FS-120 days,115FS-120 days,116FS-120 days	0%	-222 days	
136	212450	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+650 TO 2+930	190 days	0 day	Wed 12/4/17	Wed 18/10/17	Fri 7/4/17	NA	132	0%	13 days	
137	212455	ROAD WORKS	99 days	7 days	Wed 12/6/19	Wed 18/9/19	NA	NA	130,138	0%	-263 days	
138	212460	RESTING STATION R6	120 days	7 days	Sat 9/2/19	Sat 8/6/19	NA	NA	129	0%	-260 days	
139	212465	PORTION B - ANTICIPATED COMPLETION DATE	0 days	0 day	Wed 18/9/19	Wed 18/9/19	NA	NA	137	0%	0 days	
140	212470	PORTION B - ORIGINAL COMPLETION DATE	0 days	0 day	Sat 29/12/18	Sat 29/12/18	NA	NA	137	0%	0 days	
141	213000	PORTION C (MP 2+950 - MP 4+010)	1041 days		Thu 30/6/16	Mon 6/5/19	-	-	-	-	135 da...	
142	213010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	66FS+60 days	100%	0 days	
143	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	142	100%	0 days	
144	213030	TREE SURVEY	75 days	7 days	Sat 22/10/16	Wed 4/1/17	Sat 22/10/16	Wed 4/1/17	143	100%	0 days	
145	213040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE + 8 DAY DELAY (INCLEMENT WEATHER) IN DEC 17	75 days	5 days	Thu 5/1/17	Mon 20/3/17	Thu 5/1/17	Mon 13/3/17	144	100%	-128 days	
146	213050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVISE	520 days	0 day	Thu 30/6/16	Fri 1/12/17	Thu 30/6/16	NA	66SS	80%	156 days	
147	213060	UTILITIES DIVERSION WORKS	170 days	0 day	Thu 18/5/17	Fri 3/11/17	-	-	-	-	59 days	
148	213070	CLP	30 days	3 days	Thu 18/5/17	Fri 16/6/17	Thu 18/5/17	Fri 16/6/17	145FS+65 days	100%	0 days	
149	213080	PCCW	60 days	3 days	Tue 5/9/17	Fri 3/11/17	NA	NA	148FS+80 days	0%	59 days	
150	213085	WSD	60 days	3 days	Tue 5/9/17	Fri 3/11/17	NA	NA	148FS+80 days	0%	59 days	



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

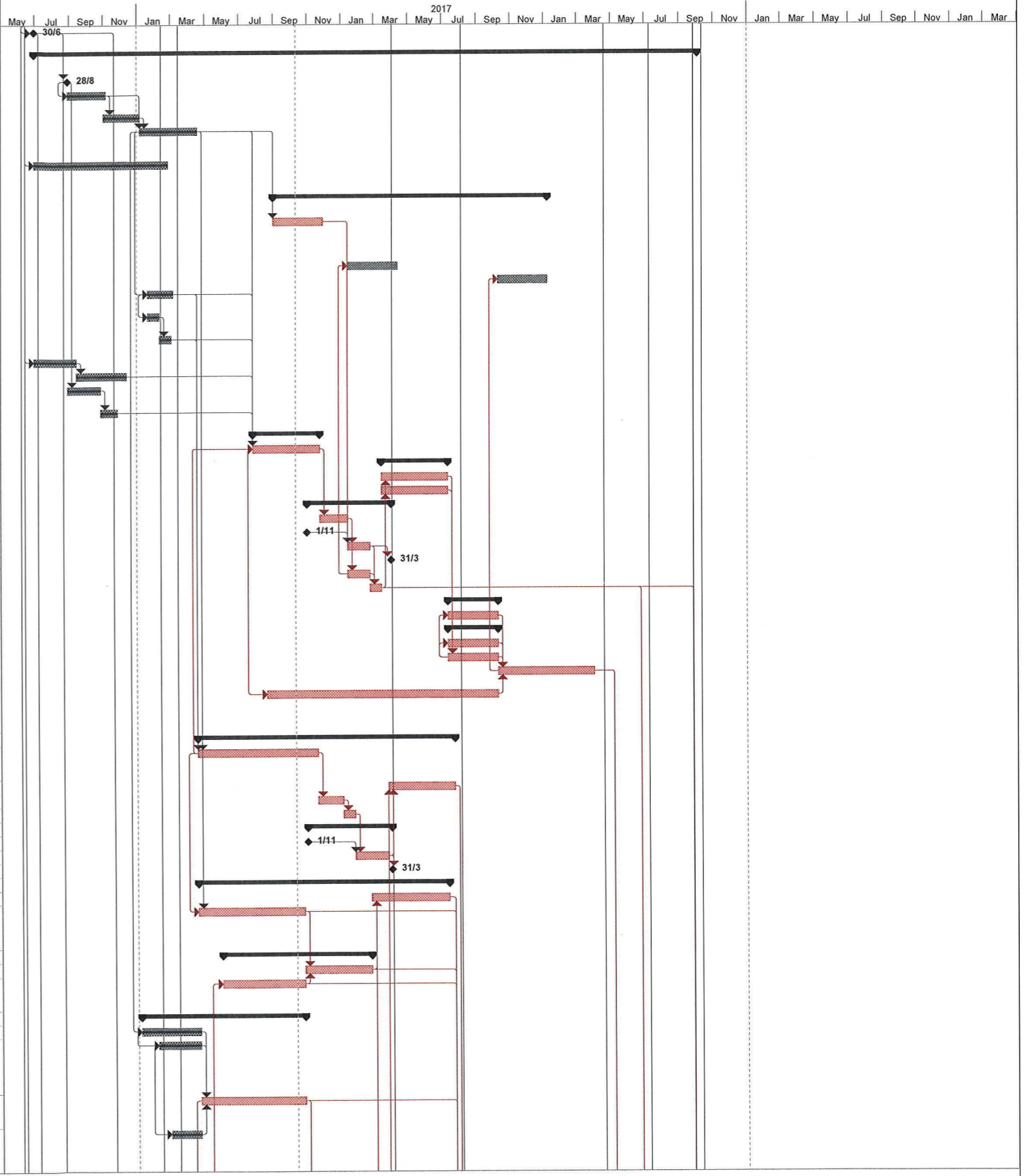
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	R	N
151	213090	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS) + 1 day DELAY (INCLEMENT WEATHER IN OCT 16)	61 days	5 days	Mon 31/10/16	Fri 30/12/16	Mon 31/10/16	Fri 30/12/16	143	100%	0 days		
152	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	151	100%	0 days		
153	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	152	100%	0 days		
154	213120	RETAINING WALL - RW 11A (50M)	100 days	5 days	Wed 21/3/18	Thu 28/6/18	NA	NA	165,166	0%	-128 days		
155	213130	RETAINING WALL - RW 11B : BAY 1 - BAY 6 (60M) + 50 days DELAY (INCLEMENT WEATHER FROM MAY TO JUL 17)	115 days	5 days	Wed 14/6/17	Fri 6/10/17	Tue 30/5/17	Sat 16/9/17	157FS-30 days	100%	0 days		
156	213140	RETAINING WALL - RW 11B : BAY 7 - BAY 12 (60M) + 50 days DELAY (INCLEMENT WEATHER FROM MAY TO JUL 17)	115 days	5 days	Wed 14/6/17	Fri 6/10/17	Tue 30/5/17	Sat 16/9/17	157FS-30 days	100%	0 days		
157	213150	RETAINING WALL - RW 11C : BAY 1 - BAY 7 (70M), 50 Days DELAY (INCLEMENT WEATHER FROM MAR TO JUN 2017)	115 days	7 days	Tue 21/3/17	Thu 13/7/17	Tue 21/3/17	Wed 28/6/17	153,145	100%	-128 days		
158	213160	RETAINING WALL - RW 11C : BAY 8 - BAY 14 (70M) + 50 days DELAY (INCLEMENT WEATHER FROM MAR TO JUN 17)	115 days	5 days	Tue 21/3/17	Thu 13/7/17	Tue 21/3/17	Wed 28/6/17	157SS	100%	-128 days		
159	213170	RETAINING WALL - RW 11C : BAY 15 - BAY 21 (70M) + 50 days DELAY (INCLEMENT WEATHER FROM MAR TO JUN 17)	115 days	7 days	Tue 21/3/17	Thu 13/7/17	Tue 21/3/17	Wed 28/6/17	157SS	100%	-128 days		
160	213175	RETAINING WALL - RW 12 : BAY 0 (SKJV NCE)	30 days	2 days	Thu 19/10/17	Fri 17/11/17	NA	NA	161	0%	-125 days		
161	213180	RETAINING WALL - RW 12 : BAY 1 - BAY 8 (80M) + DELAY OF WORKS DUE TO CONFLICT OF CLP'S POLE + 44 days DELAY (INCLEMENT WEATHER FROM MAY TO AUG 17)	142 days	7 days	Tue 30/5/17	Wed 18/10/17	Tue 30/5/17	NA	159FS-45 days,158FS-45 days	16%	-125 days		
162	213190	RETAINING WALL - RW 12 : BAY 9 - BAY 16 (80M) + 30 days DELAY (INCLEMENT WEATHER FROM MAY TO JUL 17)	130 days	7 days	Tue 30/5/17	Fri 6/10/17	Tue 30/5/17	NA	159FS-45 days,158FS-45 days	50%	-128 days		
163	213195	RETAINING WALL - RW 12 : BAY 17 to 18 (SKJV NCE)	45 days	2 days	Sat 7/10/17	Mon 20/11/17	NA	NA	162		-128 days		
164	213200	RETAINING WALL - RW 13 (40M)	80 days	5 days	Tue 21/11/17	Thu 8/2/18	NA	NA	163,160	0%	-128 days		
165	213210	RETAINING WALL - RW 14, STAIRCASE S4 (55M)	80 days	5 days	Sat 7/10/17	Mon 25/12/17	NA	NA	162	30%	-83 days		
166	213220	RETAINING WALL - RW 15A (7.5M)	40 days	2 days	Fri 9/2/18	Tue 20/3/18	NA	NA	165,164	0%	-128 days		
167	213230	RAMP NEAR YAU POK ROAD	40 days	2 days	Wed 21/3/18	Sun 29/4/18	NA	NA	166,146	0%	47 days		
168	213240	STAIRCASE S1	30 days	0 day	Mon 30/4/18	Tue 29/5/18	NA	NA	167	0%	47 days		
169	213250	STAIRCASE S2	30 days	0 day	Wed 30/5/18	Thu 28/6/18	NA	NA	168	0%	47 days		
170	213260	STAIRCASE S3	30 days	0 day	Fri 29/6/18	Sat 28/7/18	NA	NA	169	0%	47 days		
171	213270	RAMP AND STAIRCASE - CSR1	45 days	0 day	Sun 29/7/18	Tue 11/9/18	NA	NA	170	0%	47 days		
172	213280	EARTHWORKS AND DRAINAGE WORKS (CH3+701 TO 4+010)	300 days	10 days	Thu 10/5/18	Tue 5/3/19	NA	NA	148,149,150,154FS-50 days,155,156,157,158,161,162,164	0%	-128 days		
173	213290	ROAD WORKS	62 days	5 days	Wed 6/3/19	Mon 6/5/19	NA	NA	172,171	0%	-128 days		
174	213300	RESTING STATION R7	144 days	10 days	Mon 30/4/18	Thu 20/9/18	NA	NA	167	0%	100 days		
175	213310	PORTION C - ANTICIPATED COMPLETION DATE	0 days	0 day	Mon 6/5/19	Mon 6/5/19	NA	NA	173,174		135 days		
176	213320	PORTION C - ORIGINAL COMPLETION DATE	0 days	0 day	Sat 29/12/18	Sat 29/12/18	NA	NA	173,174	0%	0 days		
177	214000	PORTION D (MP 4+010 - MP 5+280)	1039 days		Thu 30/6/16	Sat 4/5/19	-	-	-	-	823 days		
178	214010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	66FS+151 days	100%	0 days		
179	214020	INITIAL SURVEY	220 days	3 days	Mon 28/11/16	Wed 6/7/17	Mon 28/11/16	Wed 5/7/17	178SS	100%	0 days		
180	214030	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	178SS	100%	0 days		
181	214040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE + 14 days DELAY (INCLEMENT WEATHER IN AUG 17)	114 days	5 days	Thu 6/7/17	Fri 27/10/17	Thu 6/7/17	NA	180,179	60%	-97 days		
182	214050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	420 days	0 day	Thu 30/6/16	Wed 23/8/17	Thu 30/6/16	NA	66SS	100%	0 days		
183	214060	UTILITIES DIVERSION WORKS	374 days	0 day	Tue 19/9/17	Thu 27/9/18	-	-	-	-	1042 da...		
184	214070	CLP	90 days	3 days	Tue 19/9/17	Sun 17/12/17	Tue 19/9/17	NA	189	0%	-73 days		
185	214080	HCL	90 days	3 days	Tue 19/9/17	Sun 17/12/17	Tue 19/9/17	NA	184SS	0%	-73 days		
186	214085	WSD	90 days	3 days	Sat 30/6/18	Thu 27/9/18	NA	NA	198SS	0%	1047 days		
187	214090	GROUND INVESTIGATION WORKS (3 NOS. BOREHOLE & TRIAL PITS)	21 days	2 days	Thu 20/7/17	Wed 9/8/17	Wed 15/2/17	Tue 7/3/17	181SS+14 days	100%	-78 days		
188	214100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 15/8/17	Mon 4/9/17	Tue 15/8/17	NA	181SS+40 days,187	50%	-83 days		
189	214110	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Tue 5/9/17	Mon 18/9/17	NA	NA	188	0%	-83 days		
190	214120	RETAINING WALL - RW 15B (40M)	80 days	7 days	Tue 3/10/17	Thu 21/12/17	NA	NA	181FS-25 days,188,189,182	0%	-97 days		
191	214130	RETAINING WALL - RW 15C (45M) & STAIRCASE S6	70 days	7 days	Thu 2/11/17	Wed 10/1/18	NA	NA	190SS+30 days	0%	-97 days		
192	214140	STREAM DECKING D1	50 days	3 days	Fri 22/12/17	Fri 9/2/18	NA	NA	190	0%	-97 days		
193	214150	STREAM DECKING D2	70 days	3 days	Thu 11/1/18	Wed 21/3/18	NA	NA	191	0%	-97 days		
194	214160	STREAM DECKING D3	40 days	3 days	Sat 10/2/18	Wed 21/3/18	NA	NA	192	0%	-97 days		
195	214170	PEDSTRIAN RAMP CONSTRUCTION & PROVIDE SAFETY ACCESS TO RESIDENT	100 days	7 days	Thu 22/3/18	Fri 29/6/18	NA	NA	194,193	0%	-97 days		
196	214190	DEMOLITION OF EXISTING STRUCTURE	14 days	2 days	Sat 30/6/18	Fri 13/7/18	NA	NA	195	0%	-61 days		
197	214200	RW16A (80M)	170 days	10 days	Thu 11/1/18	Fri 29/6/18	NA	NA	191,184,185	0%	-97 days		
198	214210	EARTHWORKS AND DRAINAGE WORKS	220 days	30 days	Sat 30/6/18	Mon 4/2/19	NA	NA	190,191,197,192,193,194,195,196F0	0%	-97 days		
199	214220	ROAD WORKS	60 days	14 days	Wed 6/3/19	Sat 4/5/19	NA	NA	198,173SS	0%	-126 days		
200		PORTION D - ANTICIPATED COMPLETION DATE	0 days	0	Sat 4/5/19	Sat 4/5/19	NA	NA	199		137 days		
201	214225	PORTION D - ORIGINAL COMPLETION DATE	0 days	0 day	Sat 29/12/18	Sat 29/12/18	NA	NA	199	0%	0 days		
202	210030	SECTION W1 - ANTICIPATED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT WEATHER & OTHER ISSUES	0 days	0 day	Wed 18/9/19	Wed 18/9/19	NA	NA	98,139,175,200	-	0 days		
203		SECTION W2 (PORTION E, F, G, H, I & N)	1191 days	days	Thu 30/6/16	Thu 3/10/19	-	-	-	-	671 days		



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

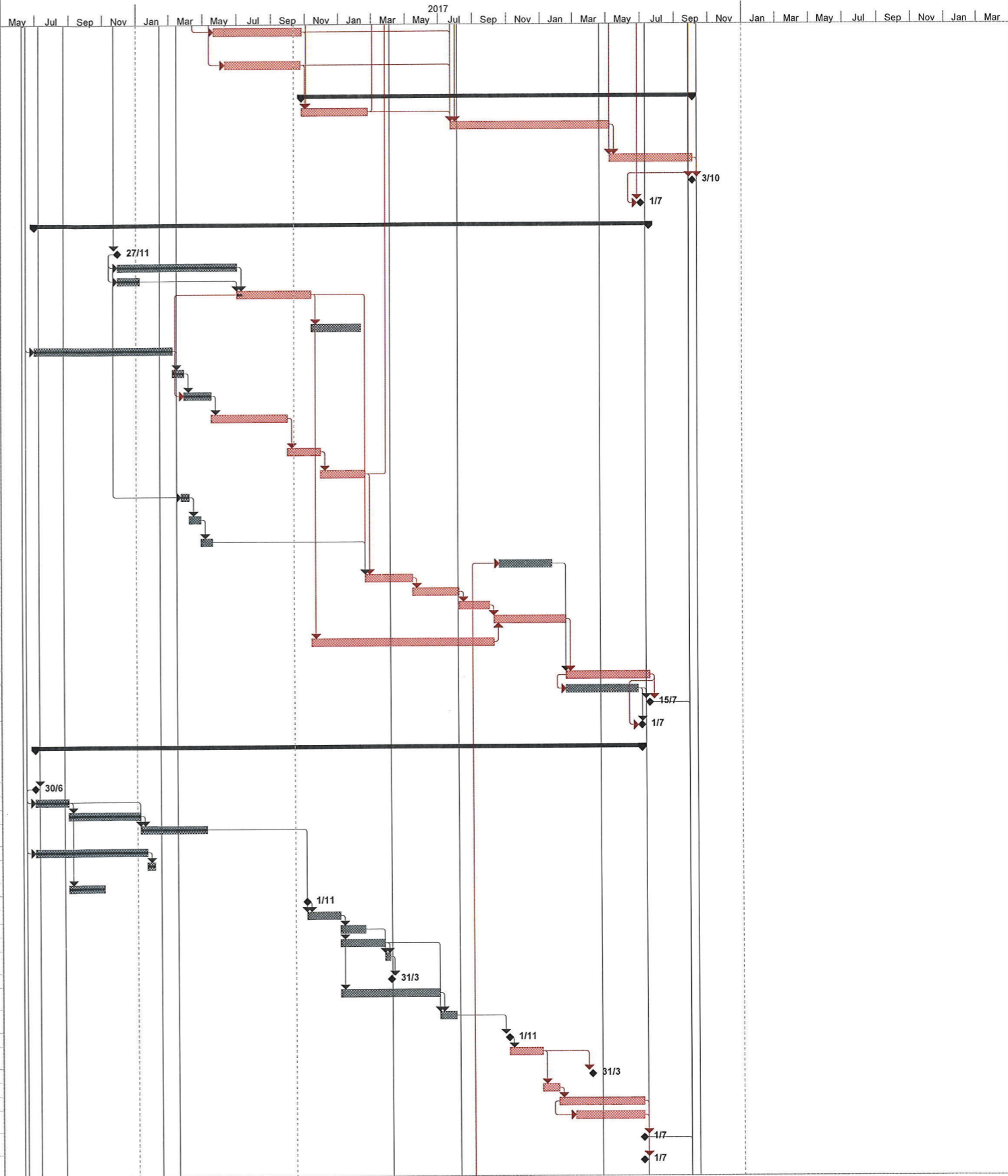
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	R	N
204	220010	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days		
205	221000	PORTION E (MP 5+280 - MP 6+530)	1191 days	days	Thu 30/6/16	Thu 3/10/19	-	-	-	-	671 days		
206	221010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	204FS+60 days	100%	0 days		
207	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	206SS	100%	0 days		
208	221030	TREE SURVEY	65 days	5 days	Wed 2/11/16	Thu 5/1/17	Wed 2/11/16	Thu 5/1/17	207	100%	0 days		
209	221040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE + 8 DAY DELAY (INCLEMENT WEATHER) IN DEC 17	102 days	5 days	Fri 6/1/17	Mon 17/4/17	Fri 6/1/17	Sat 4/3/17	207,208	100%	0 days		
210	221050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	240 days	0 day	Thu 30/6/16	Fri 24/2/17	Thu 30/6/16	Fri 24/2/17	204SS	100%	0 days		
211	221060	UTILITIES DIVERSION WORKS (GAS MAIN, CLP, WSD)	494 days	0 day	Fri 1/9/17	Mon 7/1/19	-	-	-	-	940 days		
212	221070	GAS MAIN (Culvert D4), Liaison for Gas Main Diversion will be conducted once the realignment of Cycle Track at Culvert D4 is fixed	90 days	5 days	Fri 1/9/17	Wed 29/11/17	NA	NA	209FS+136 days	0%	-14 days		
213	221080	CLP	90 days	5 days	Sat 13/1/18	Thu 12/4/18	NA	NA	232SS	0%	1210 days		
214	221080	WSD	90 days	5 days	Wed 10/10/18	Mon 7/1/19	NA	NA	239SS	0%	940 days		
215	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	209SS+14 days	100%	0 days		
216	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	215SS	100%	0 days		
217	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	216	100%	0 days		
218	221120	TTM PREPARATION	76 days	7 days	Thu 30/6/16	Tue 13/9/16	Thu 30/6/16	Tue 13/9/16	2SS	100%	0 days		
219	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	218	100%	0 days		
220	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	206	100%	0 days		
221	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	220	100%	0 days		
222	221160	MP 5+465 - MP 5+515	120 days	2 days	Thu 27/7/17	Thu 23/11/17	-	-	-	-	-58 days		
223	221170	RETAINING WALL - RW D02 & D04 (80M)	120 days	2 days	Thu 27/7/17	Thu 23/11/17	Thu 30/6/17	Sat 7/10/17	209,219,221,215,217,242SS+100	10%	-58 days		
224	221180	MP 5+515 - MP 5+595	120 days	2 days	Wed 14/3/18	Wed 11/7/18	-	-	-	-	-58 days		
225	221190	RETAINING WALL - RW D05 & D06 (50M)	120 days	2 days	Wed 14/3/18	Wed 11/7/18	NA	NA	233	0%	-58 days		
226	221200	RETAINING WALL - RW D07 (70M)	120 days	3 days	Wed 14/3/18	Wed 11/7/18	NA	NA	233	0%	-58 days		
227	221210	MP 5+280 - MP 6+020	151 days	2 days	Wed 11/1/17	Sat 31/3/18	-	-	-	-	0 days		
228	221220	RETAINING WALL - RW D03 (11M)	50 days	3 days	Fri 24/11/17	Fri 12/1/18	NA	NA	223	0%	-58 days		
229	221225	START DATE OF DRY SEASON	0 days	0 day	Wed 1/11/17	Wed 1/11/17	NA	NA	229,212,228	0%	15 days		
230	221230	BOX CULVERT D4	40 days	4 days	Sat 13/1/18	Wed 21/2/18	NA	NA	230	0%	0 days		
231	221235	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	NA	NA	230	0%	0 days		
232	221250	ROAD WORKS FOR REALIGNMENT	40 days	3 days	Sat 13/1/18	Wed 21/2/18	NA	NA	228	0%	-58 days		
233	221260	REALIGNMENT SAN TAM ROAD	20 days	2 days	Thu 22/2/18	Tue 13/3/18	NA	NA	232,230	0%	-58 days		
234	221270	MP 5+900 - MP 6+020	90 days	2 days	Thu 12/7/18	Tue 9/10/18	-	-	-	-	-58 days		
235	221280	RETAINING WALL - RW D15 (113M)	90 days	10 days	Thu 12/7/18	Tue 9/10/18	NA	NA	238SS	0%	-58 days		
236	221290	MP 5+ 595 - MP 5+900	90 days	2 days	Thu 12/7/18	Tue 9/10/18	-	-	-	-	-58 days		
237	221300	RETAINING WALL - RW D10 (50M)	90 days	7 days	Thu 12/7/18	Tue 9/10/18	NA	NA	238SS	0%	-58 days		
238	221310	RETAINING WALL - RW D08 (66M)	90 days	8 days	Thu 12/7/18	Tue 9/10/18	NA	NA	226,225	0%	-58 days		
239	221320	DRAINAGE WORKS, EARTHWORKS FOR RWD15, D10 & D8	173 days	8 days	Wed 10/10/18	Sun 31/3/19	NA	NA	238FS-18 days,237,235,240	10%	-58 days		
240	221325	DRAINAGE WORKS, EARTHWORKS FROM MP5+280 TO 6+020 (Excluding RWD15, 10 & D8)	415 days	3 days	Mon 21/8/17	Tue 9/10/18	Mon 21/8/17	NA	223SS+25 days	-	-58 days		
241	221330	MP 6+420 - MP 6+530	462 days	2 days	Tue 18/4/17	Mon 23/7/18	-	-	-	-	-94 days		
242	221340	RETAINING WALL - RW D25 + 60 Day DELAY (INCLEMENT WEATHER FROM MAY TO AUG 17)	216 days	3 days	Tue 18/4/17	Sun 19/11/17	NA	NA	215,217FS+46 days,209	65%	-94 days		
243	221342	RETAINING WALL - RW D26	120 days	2 days	Mon 26/3/18	Mon 23/7/18	NA	NA	248,280	0%	-94 days		
244	221344	ROAD WORKS FOR REALIGNMENT	45 days	2 days	Mon 20/11/17	Wed 3/1/18	NA	NA	242	0%	-94 days		
245	221346	REALIGNMENT SHEK WU WAI ROAD	21 days	2 days	Thu 4/1/18	Wed 24/1/18	NA	NA	244	0%	-94 days		
246	221350	MP 6+020 - MP 6+530	151 days	2 days	Wed 1/11/17	Sat 31/3/18	-	-	-	-	0 days		
247	221355	START DATE OF DRY SEASON	0 days	0 day	Wed 1/11/17	Wed 1/11/17	NA	NA	247,245	0%	-9 days		
248	221360	BOX CULVERT D7	60 days	3 days	Thu 25/1/18	Sun 25/3/18	NA	NA	248	0%	-94 days		
249	221365	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	NA	NA	248	0%	0 days		
250	221400	MP 6+020 - MP 6+160	451 days	2 days	Tue 18/4/17	Thu 12/7/18	-	-	-	-	-83 days		
251	221410	RETAINING WALL - RW D18 (98M)	140 days	10 days	Fri 23/2/18	Thu 12/7/18	NA	NA	254,264	0%	-83 days		
252	221420	RETAINING WALL - RW D17 (65M) + REVISED ALIGNMENT (SKJV NCE No. 33) + 59 days DELAY (INCLEMENT WEATHER FROM APR TO JUL 2017)	191 days	10 days	Tue 18/4/17	Wed 25/10/17	NA	NA	242SS,209	65%	-83 days		
253	221430	MP 6+160 - MP 6+230	268 days	2 days	Wed 31/5/17	Thu 22/2/18	-	-	-	-	-83 days		
254	221440	RETAINING WALL - RW D19A, B (53M)	120 days	7 days	Thu 26/10/17	Thu 22/2/18	NA	NA	255,252	0%	-83 days		
255	221450	RETAINING WALL - RW D20 (U) (22M) + 47 DAY DELAY (INCLEMENT WEATHER FROM APR TO AUG 2017)	148 days	5 days	Wed 31/5/17	Wed 25/10/17	Wed 31/5/17	NA	261SS+10 days	90%	-83 days		
256	221460	MP 6+230 - MP 6+330	293 days	2 days	Fri 6/1/17	Wed 25/10/17	-	-	-	-	-83 days		
257	221470	RECTANGULAR CHANNEL	105 days	5 days	Fri 6/1/17	Thu 20/4/17	Fri 6/1/17	Thu 20/4/17	209SS	100%	0 days		
258	221480	BOX CULVERT D5 + 4 DAY DELAY (INCLEMENT WEATHER) IN MAR & APR 17 + DELAY OF WORKS DUE TO REVISED DETAILS & ALIGNMENT OF STREAM DECKING (SKJV NCE No.20 & 32)	75 days	4 days	Sun 5/2/17	Thu 20/4/17	Sun 5/2/17	Thu 20/4/17	257SS+30 days	100%	0 days		
259	221490	RETAINING WALL - RW D21(U) (26M) + 48 days DELAY (INCLEMENT WEATHER FROM MAY TO JUL 2017)	188 days	4 days	Fri 21/4/17	Wed 25/10/17	Fri 21/4/17	Sun 9/7/17	260,258,257	90%	-83 days		
260	221500	BOX CULVERT D6 + 8 DAY DELAY (INCLEMENT WEATHER) IN MAR & APR 17 + DELAY OF WORKS DUE TO REVISED DETAILS & ALIGNMENT OF STREAM DECKING (SKJV NCE No. 20 & 32)	53 days	4 days	Mon 27/2/17	Thu 20/4/17	Mon 27/2/17	Thu 20/4/17	258SS+22 days	100%	0 days		



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

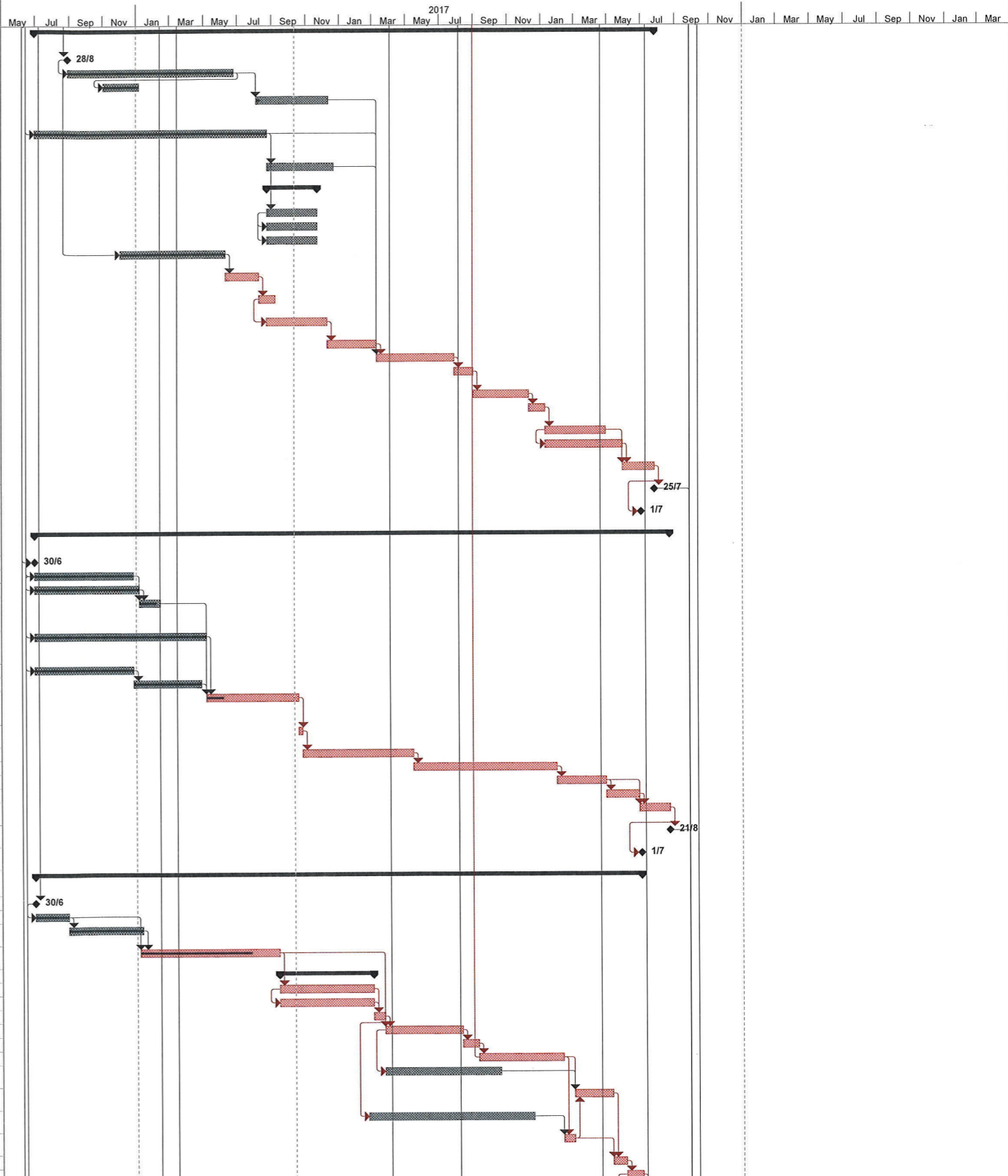
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Comple	Finish Slack	R	N
261	221510	RETAINING WALL - RW D22 (U) (26M) + 46 days DELAY (INCLEMENT WEATHER FROM MAY TO AUG 2017)	158 days	4 days	Sun 21/5/17	Wed 25/10/17	Sun 21/5/17	NA	259SS+30 days	50%	-83 days		
262	221520	RETAINING WALL - RW D23 (U) (21M) + 32 days DELAY (INCLEMENT WEATHER FROM MAY TO AUG 2017)	136 days	4 days	Sat 10/6/17	Mon 23/10/17	Sat 10/6/17	NA	261SS+20 days	50%	-81 days		
263	221530	MP 6+372 - MP 6+410	708 days		Thu 26/10/17	Thu 3/10/19	-	-		-	141 days		
264	221540	RETAINING WALL - RW D24 (44M)	120 days	5 days	Thu 26/10/17	Thu 22/2/18	NA	NA	262,259,261	0%	-83 days		
265	221545	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS FROM MP6+020 TO 6+530	287 days	10 days	Tue 24/7/18	Mon 6/5/19	NA	NA	251,252,254,255,259,261,262,264,265	0%	-94 days		
266	221550	ROAD WORKS	150 days	5 days	Tue 7/5/19	Thu 3/10/19	NA	NA	265,239	0%	-94 days		
267	221555	PORTION E - ANTICIPATED COMPLETION DATE	0 days	0 day	Thu 3/10/19	Thu 3/10/19	NA	NA	233,266	0%	141 days		
268	221560	PORTION E - ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	233,266	0%	0 days		
269	222000	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1111 days		Thu 30/6/16	Mon 15/7/19	-	-		-	751 days		
270	222010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	204FS+151 days	100%	0 days		
271	222020	INITIAL SURVEY	215 days	4 days	Mon 28/11/16	Fri 30/6/17	Mon 28/11/16	Fri 30/6/17	270SS	100%	0 days		
272	222030	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	270SS	100%	0 days		
273	222040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE + 14 days DELAY (INCLEMENT WEATHER IN AUG 17)	134 days	5 days	Sat 1/7/17	Sat 11/11/17	Sat 1/7/17	NA	272,271	10%	-14 days		
274	222050	UTILITIES DIVERSION WORKS (CLP, TOWN GAS)	90 days	0 day	Sun 12/11/17	Fri 9/2/18	-	-	273	-	1272 days		
275	222120	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	250 days	0 day	Thu 30/6/16	Mon 6/3/17	Thu 30/6/16	Mon 6/3/17	2SS	100%	0 days		
276	222130	ARRANGEMENT OF SITE INVESTIGATION WORKS	21 days	2 days	Tue 7/3/17	Mon 27/3/17	Tue 7/3/17	Mon 27/3/17	275	100%	0 days		
277	222140	SITE INVESTIGATION WORKS AND TESTING	49 days	3 days	Tue 28/3/17	Mon 15/5/17	Tue 28/3/17	Mon 15/5/17	276,273SS+60 days	100%	0 days		
278	222145	AWAITING FOR INSTRUCTION FOR REMEDIAL WORKS FOR CONTAMINATED SOIL UP TO THIS PROG DATE	137 days	2 days	Tue 16/5/17	Fri 29/9/17	Tue 16/5/17	Mon 29/5/17	277	0%	-57 days		
279	222150	PREPARATION OF REMEDIAL WORKS FOR CONTAMINATED SOIL (ASSUMED)	60 days	3 days	Sat 30/9/17	Tue 28/11/17	NA	NA	278	0%	-57 days		
280	222155	IMPLEMENTATION OF REMEDIAL WORKS (ASSUMED)	80 days	5 days	Wed 29/11/17	Fri 16/2/18	NA	NA	279	0%	-57 days		
281	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	271SS+115 days	100%	0 days		
282	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	281	100%	269 days		
283	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	282	100%	269 days		
284	222180	RW 42 (60M)	95 days	7 days	Thu 18/10/18	Sun 20/1/19	NA	NA	371SS+40 days	0%	11 days		
285	222190	RW 43 (50M)	85 days	5 days	Sat 17/2/18	Sat 12/5/18	NA	NA	283,273,280	0%	-6 days		
286	222200	RW 44 (36M U)	85 days	5 days	Sun 13/5/18	Sun 5/8/18	NA	NA	285	0%	-6 days		
287	222210	RAMP PR3 CONSTRUCTION	55 days	3 days	Mon 6/8/18	Sat 29/9/18	NA	NA	286	0%	-6 days		
288	222215	EARTHWORKS AND DRAINAGE WORKS FOR RW42, 43 & 44	130 days	10 days	Mon 8/10/18	Thu 14/2/19	NA	NA	287,289	0%	-14 days		
289	222220	EARTHWORKS AND DRAINAGE WORKS (Excluding RW42, 43 & 44) + 14 days due to inclement weather in Aug 17	330 days	10 days	Sun 12/11/17	Sun 7/10/18	NA	NA	273	0%	-14 days		
290	222230	ROAD WORKS (1.3 KM)	151 days	10 days	Fri 15/2/19	Mon 15/7/19	NA	NA	284,288	0%	-14 days		
291	222240	RESTING STATION R8	130 days	10 days	Fri 15/2/19	Mon 24/6/19	NA	NA	290SS	0%	7 days		
292	222250	PORTION F - ANTICIPATED COMPLETION DATE	0 days	0 day	Mon 15/7/19	Mon 15/7/19	NA	NA	290,291	0%	221 days		
293	222260	PORTION F - ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	290,291	0%	0 days		
294	223000	PORTION G - (BRIDGE C) CH ST 1+210 - CH ST 1+310)	1097 days		Thu 30/6/16	Mon 1/7/19	-	-		-	235 days		
295	223010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	204	100%	0 days		
296	223020	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	Thu 30/6/16	Sun 28/8/16	295SS	100%	0 days		
297	223030	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	Mon 29/8/16	Thu 5/1/17	296	100%	0 days		
298	223040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	Fri 6/1/17	Fri 5/5/17	297,296	100%	0 days		
299	223080	PREPARATION OF TDMP FOR GI WORKS	202 days	10 days	Thu 30/6/16	Tue 17/1/17	Thu 30/6/16	Tue 17/1/17	295SS	100%	0 days		
300	223090	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Wed 18/1/17	Tue 31/1/17	Wed 18/1/17	Tue 31/1/17	299	100%	0 days		
301	223100	PREDRILLING WORKS FOR PILES	65 days	3 days	Mon 29/8/16	Tue 1/11/16	Mon 29/8/16	Tue 1/11/16	296	100%	0 days		
302	223110	STARTING DATE OF DRY SEASON	0 days	0 day	Wed 1/11/17	Wed 1/11/17	NA	NA		0%	0 days		
303	223120	PRE-BORE H-PILE (8 NOS)	60 days	5 days	Wed 1/11/17	Sat 30/12/17	NA	NA	302,298	0%	2 days		
304	223130	LOAD TEST	45 days	5 days	Sun 31/12/17	Tue 13/2/18	NA	NA	303	0%	37 days		
305	223140	ABUTMENT CONSTRUCTION	80 days	7 days	Sun 31/12/17	Tue 20/3/18	NA	NA	303	0%	2 days		
306	223150	REMOVAL OF DRAINAGE DIVERSION WORKS	9 days	2 days	Wed 21/3/18	Thu 29/3/18	NA	NA	305,304	0%	2 days		
307	223160	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	NA	NA	306	0%	0 days		
308	223170	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	180 days	21 days	Sun 31/12/17	Thu 28/6/18	NA	NA	303	0%	95 days		
309	223180	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	30 days	2 days	Fri 29/6/18	Sat 28/7/18	NA	NA	308,305	0%	95 days		
310	223185	START DATE OF DRY SEASON	0 days	0 day	Thu 1/11/18	Thu 1/11/18	NA	NA	309	0%	0 days		
311	223190	BRIDGE DECK CONSTRUCTION WITH TDMP	60 days	5 days	Thu 1/11/18	Sun 30/12/18	NA	NA	310	0%	0 days		
312	223195	END DATE OF DRY SEASON	0 days	0 day	Sun 31/3/19	Sun 31/3/19	NA	NA	311	0%	0 days		
313	223200	EARTHWORKS AND DRAINAGE WORKS	30 days	2 days	Mon 31/12/18	Tue 29/1/19	NA	NA	311	0%	0 days		
314	223210	ROAD WORKS	153 days	10 days	Wed 30/1/19	Mon 1/7/19	NA	NA	313	0%	0 days		
315	223220	BRIDGE ASSOCIATED WORKS, WATERMAIN WORKS	123 days	10 days	Fri 1/3/19	Mon 1/7/19	NA	NA	314SS+30 days	0%	0 days		
316	223230	PORTION G - ANTICIPATED COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	314,315	0%	235 days		
317	223240	PORTION G - ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	314,315	0%	0 days		



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

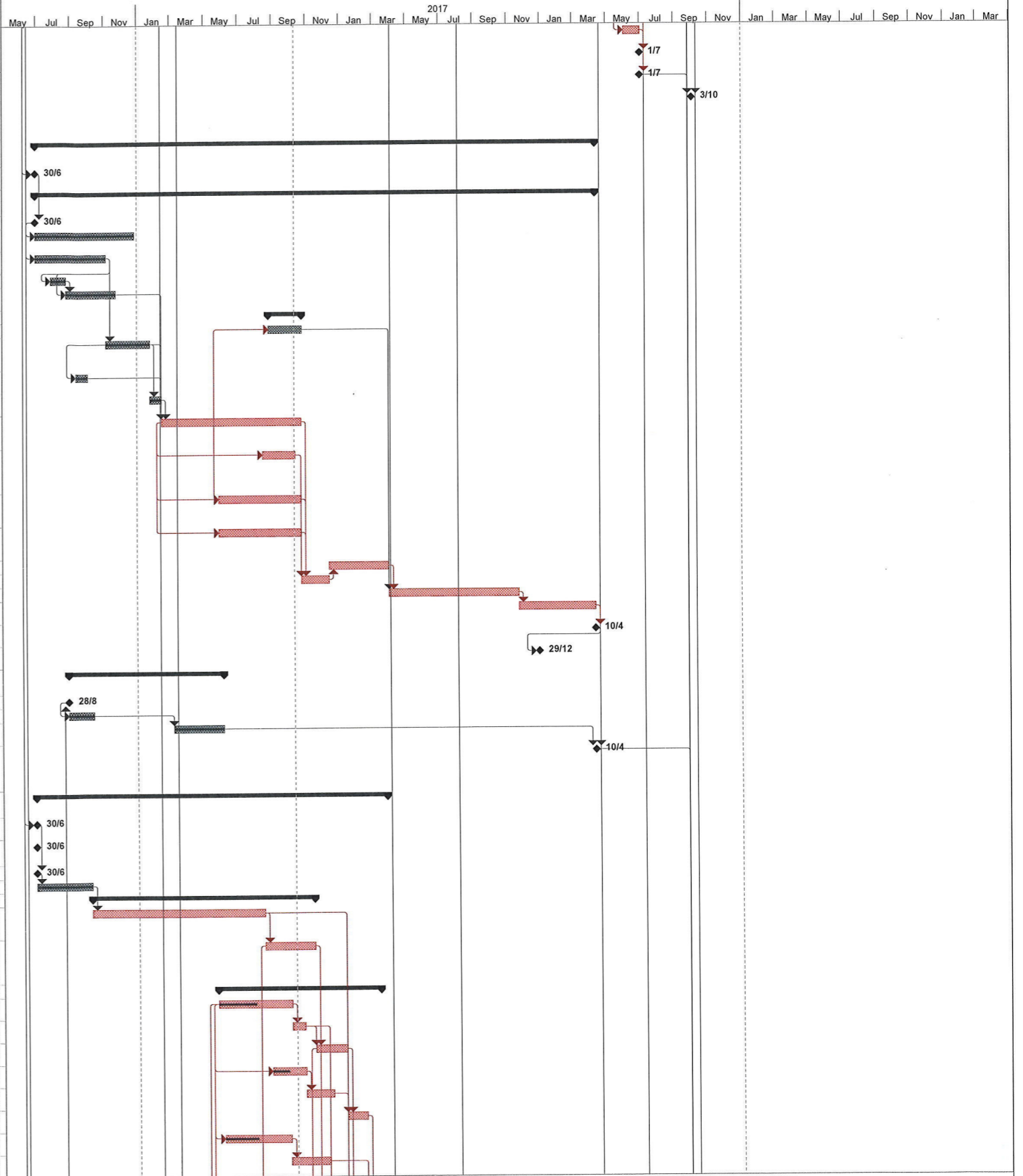
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	R N
318	224000	PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)	1121 days		Thu 30/6/16	Thu 25/7/19	-	-		-	741 days	
319	224010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	204FS+60 days	100%	0 days	
320	224020	INITIAL SURVEY	300 days	4 days	Mon 29/8/16	Sat 24/6/17	Mon 29/8/16	Sat 24/6/17	319SS	100%	0 days	
321	224030	TREE SURVEY	65 days	4 days	Wed 2/11/16	Thu 5/1/17	Wed 2/11/16	Thu 5/1/17	320	100%	0 days	
322	224040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE + 14 days DELAY (INCLEMENT WEATHER IN AUG 17)	130 days	7 days	Fri 4/8/17	Mon 11/12/17	Fri 4/8/17	NA	320FS+40 days	20%	64 days	
323	224050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	420 days	10 days	Thu 30/6/16	Wed 23/8/17	Thu 30/6/16	Wed 23/8/17	204SS	100%	0 days	
324	224060	APPLIED TTA APPROVAL FOR REALIGNMENT FOR RW49	120 days	14 days	Thu 24/8/17	Thu 21/12/17	Thu 24/8/17	NA	323	10%	54 days	
325	224070	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	90 days	0 day	Thu 24/8/17	Tue 21/11/17	-	-		-	1352 days	
326	224080	HKB	90 days	5 days	Thu 24/8/17	Tue 21/11/17	Thu 24/8/17	NA	323	0%	1352 days	
327	224090	TGT	90 days	5 days	Thu 24/8/17	Tue 21/11/17	Thu 24/8/17	NA	326SS	0%	1352 days	
328	224100	CLP	90 days	5 days	Thu 24/8/17	Tue 21/11/17	Thu 24/8/17	NA	326SS	0%	1352 days	
329	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	320SS+95 days	100%	0 days	
330	224120	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	60 days	2 days	Sat 10/6/17	Tue 8/8/17	Sat 10/6/17	Tue 8/8/17	329	0%	-24 days	
331	224130	INSTALLATION OF MONITORING MARKERS	30 days	2 days	Wed 9/8/17	Thu 7/9/17	Wed 9/8/17	Thu 7/9/17	330	0%	-24 days	
332	224140	RW 45A (73M) + 24 Day DELAY DUE TO INCLEMENT WEATHER FROM JUL TO AUG 17	109 days	10 days	Wed 23/8/17	Sat 9/12/17	Wed 23/8/17	NA	331SS+14 days	10%	-24 days	
333	224150	RW 45B (58M)	90 days	10 days	Sun 10/12/17	Fri 9/3/18	NA	NA	332	0%	-24 days	
334	224160	RW 49 (130M)	140 days	5 days	Sat 10/3/18	Fri 27/7/18	NA	NA	322,323,324,333	0%	-24 days	
335	224165	ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY FOR RW49	35 days	0 day	Sat 28/7/18	Fri 31/8/18	NA	NA	334	0%	-24 days	
336	224170	DW1 & DW1A (130M)	100 days	10 days	Sat 1/9/18	Sun 9/12/18	NA	NA	335	0%	-24 days	
337	224175	ROAD WORKS FOR REALIGNMENT CARRIAGEWAY FOR DW1	30 days	0 day	Mon 10/12/18	Tue 8/1/19	NA	NA	336	0%	-24 days	
338	224180	DW2 (92M)	110 days	10 days	Wed 9/1/19	Sun 28/4/19	NA	NA	337	0%	-24 days	
339	224190	EARTHWORKS AND DRAINAGE WORKS FOR DW2	140 days	14 days	Wed 9/1/19	Tue 28/5/19	NA	NA	338SS	0%	-24 days	
340	224220	ROAD WORKS	58 days	5 days	Wed 29/5/19	Thu 25/7/19	NA	NA	339,338	0%	-24 days	
341	224230	PORTION H - ANTICIPATED COMPLETION DATE	0 days	0 day	Thu 25/7/19	Thu 25/7/19	NA	NA	340		211 days	
342	224240	PORTION H - ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	340	0%	0 days	
343	225000	PORTION I (SUBWAY D)	1148 days		Thu 30/6/16	Wed 21/8/19	-	-		-	184 days	
344	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	
345	225020	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	344SS	100%	0 days	
346	225030	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	Thu 30/6/16	Thu 5/1/17	345SS	100%	0 days	
347	225040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE + 8 DAY DELAY (INCLEMENT WEATHER) IN DEC 17	38 days	2 days	Fri 6/1/17	Sun 12/2/17	Fri 6/1/17	Sun 12/2/17	346,345	100%	113 days	
348	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	204SS	100%	0 days	
349	225060	TTM PREPARATION	180 days	4 days	Thu 30/6/16	Mon 28/12/16	Thu 30/6/16	Mon 28/12/16	2SS	100%	0 days	
350	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	349	100%	0 days	
351	225080	SUBWAY D CONSTRUCTION, BAY 9 - 11, WITH PUMP ROOM + 53 Days DELAY (INCLEMENT WEATHER TILL JUL TO AUG 2017)	166 days	10 days	Sat 6/5/17	Wed 18/10/17	Sat 6/5/17	NA	350,347,348	20%	-51 days	
352	225085	TTA FOR SUBWAY D CONSTRUCTION, BAY 6 TO 8	7 days	0 day	Thu 19/10/17	Wed 25/10/17	NA	NA	351	0%	-51 days	
353	225090	SUBWAY D CONSTRUCTION, BAY 6 TO-8	200 days	5 days	Thu 26/10/17	Sun 13/5/18	NA	NA	352	0%	-51 days	
354	225100	REMAINING RAMP (TOTAL : 11 BAYS)	260 days	15 days	Mon 14/5/18	Mon 28/1/19	NA	NA	353	0%	-51 days	
355	225110	FINISHING WORKS AND E&M WORKS	90 days	6 days	Tue 29/1/19	Sun 28/4/19	NA	NA	354	0%	-51 days	
356	225120	EARTHWORKS AND DRAINAGE WORKS	60 days	3 days	Mon 29/4/19	Thu 27/6/19	NA	NA	355	0%	-51 days	
357	225130	ROAD WORKS	55 days	3 days	Fri 28/6/19	Wed 21/8/19	NA	NA	356,355	0%	-51 days	
358	225140	PORTION I - ANTICIPATED COMPLETION DATE	0 days	0 day	Wed 21/8/19	Wed 21/8/19	NA	NA	357		184 days	
359	225150	PORTION I - ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	357	0%	0 days	
360	226000	PORTION N (BRIDGE B)	1097 days		Thu 30/6/16	Mon 1/7/19	-	-		-	765 days	
361	226010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	204	100%	0 days	
362	226020	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	Thu 30/6/16	Sun 28/8/16	361SS	100%	0 days	
363	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	362	100%	0 days	
364	226040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	250 days	5 days	Fri 6/1/17	Tue 12/9/17	Fri 6/1/17	NA	363,362	80%	0 days	
365	226050	UTILITIES DIVERSION WORKS (CLP & TOWN GAS)	170 days	10 days	Wed 13/9/17	Thu 1/3/18	-	-		-	0 days	
366	226080	CLP	170 days	0 days	Wed 13/9/17	Thu 1/3/18	NA	NA	364	0%	0 days	
367	226090	TOWN GAS	170 days	0 days	Wed 13/9/17	Thu 1/3/18	NA	NA	366SS	0%	0 days	
368	226100	PRE-DRILLING WORKS FOR PILES	20 days	1 days	Fri 2/3/18	Wed 21/3/18	NA	NA	366,367	0%	0 days	
369	226110	PILE WORKS	140 days	4 days	Thu 22/3/18	Wed 8/8/18	NA	NA	368,364	0%	0 days	
370	226120	PILE LOAD TEST	30 days	1 days	Thu 9/8/18	Fri 7/9/18	NA	NA	369	0%	0 days	
371	226130	ABUTMENT CONSTRUCTION	153 days	5 days	Sat 8/9/18	Thu 7/2/19	NA	NA	370	0%	0 days	
372	226140	OFFSITE FABRICATION OF STEEL BRIDGE MEMBERS	210 days	10 days	Thu 22/3/18	Wed 17/10/18	NA	NA	369SS	0%	133 days	
373	226150	STEEL TRUSS AND DECK CONSTRUCTION ON SITE	70 days	2 days	Thu 28/2/19	Wed 8/5/19	NA	NA	372,371,375	0%	0 days	
374	226160	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	300 days	10 days	Tue 20/2/18	Sun 16/12/18	NA	NA	368FS-30 days	0%	53 days	
375	226170	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	20 days	2 days	Fri 8/2/19	Wed 27/2/19	NA	NA	374,371	0%	0 days	
376	226180	EARTHWORKS AND DRAINAGE WORKS	24 days	2 days	Thu 9/5/19	Sat 1/6/19	NA	NA	373,375	0%	0 days	
377	226190	ROAD WORKS	30 days	2 days	Sun 2/6/19	Mon 1/7/19	NA	NA	376	0%	0 days	



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

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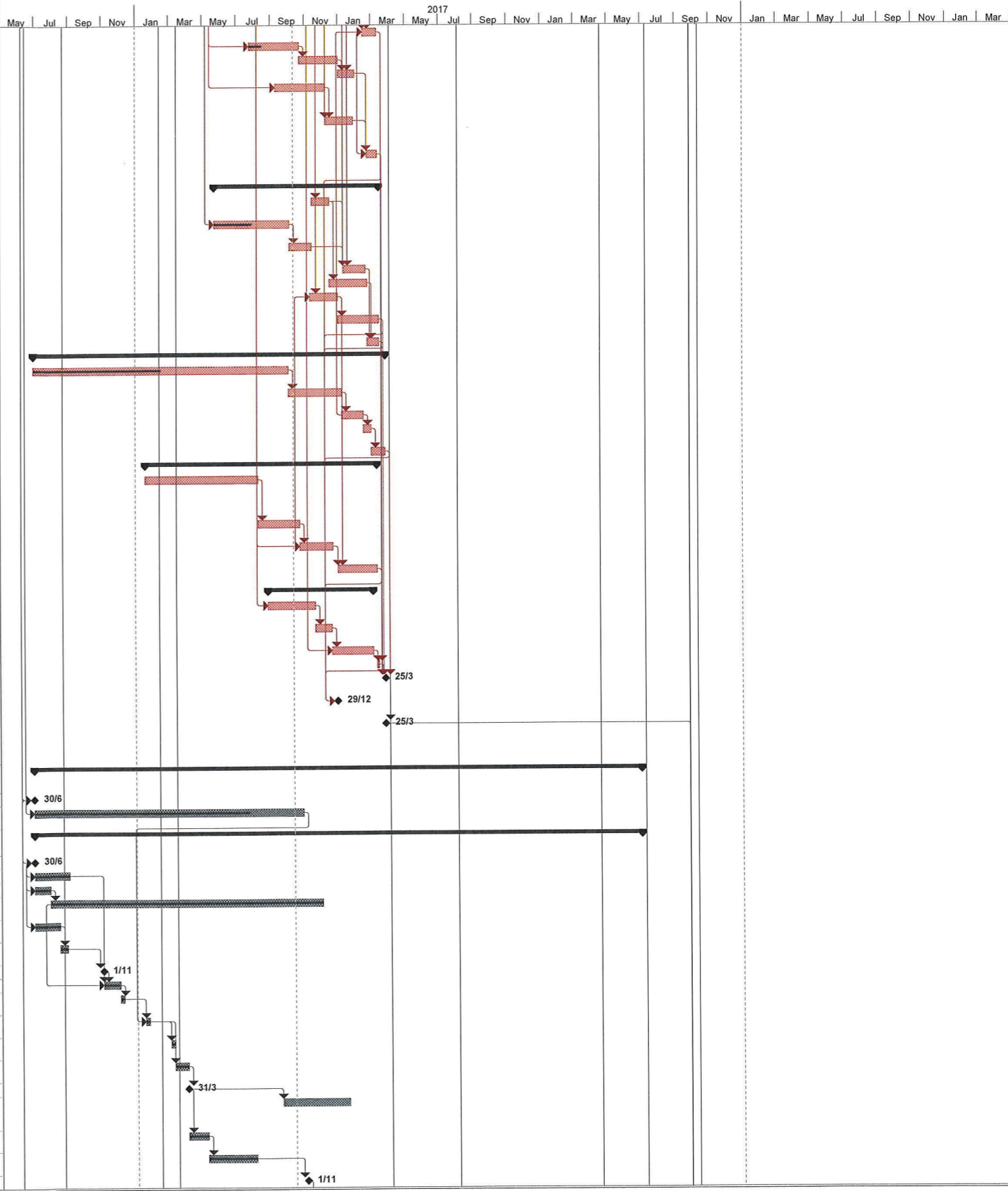
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Comple	Finish Slack	R	N
376	226200	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	30 days	2 days	Sun 2/6/19	Mon 1/7/19	NA	NA	377SS		0 days		
379	226210	PORTION N - ANTICIPATED COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	377,378		765 days		
380	226220	PORTION N - ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	377,378		0 days		
381	220030	SECTION W2 - ANTICIPATED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT WEATHER & OTHERS ISSUE	0 days	0 day	Thu 3/10/19	Thu 3/10/19	NA	NA	292,316,341,358,380,267		141 days		
382		SECTION W3 (PORTION K & J1)	1015 days		Thu 30/6/16	Wed 10/4/19	-	-			-		
383	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		
384	231000	PORTION K (CH KW 1+360 - CH KW 2+070)	1015 days		Thu 30/6/16	Wed 10/4/19	-	-			-102 days		
385	231010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	383	100%	0 days		
386	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	385SS	100%	0 days		
387	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	385SS	100%	0 days		
388	231040	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	Thu 28/7/16	Wed 24/8/16	387	100%	0 days		
389	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	388,387	100%	0 days		
390	231060	UTILITIES DIVERSION WORKS (CLP)	60 days	0 day	Sat 26/8/17	Tue 24/10/17	-	-			-55 days		
391	231070	CLP	60 days	5 days	Sat 26/8/17	Tue 24/10/17	Sun 27/8/17	NA	397SS+90 days	30%	55 days		
392	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 23/11/17	Sat 5/11/16	Mon 23/11/17	387	100%	0 days		
393	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	392SS	100%	0 days		
394	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	392	100%	0 days		
395	231130	RW 29C (66m) + 59 Days DELAY DUE TO INCLEMENT WEATHER (MAR TO AUG 2017)	252 days	7 days	Tue 14/2/17	Mon 23/10/17	Sat 10/12/16	NA	389,392,394,393	95%	-102 days		
396	231135	EARTHWORKS AND DRAINAGE WORKS, KW1+360-KW1+460; KW 1+600-KW1+900; KW1+2140 - KW2+450 + 14 days Delay due to Inclement Weather in Aug 17	59 days	0 day	Tue 15/8/17	Thu 12/10/17	Sat 12/8/17	NA	395SS+182 days	10%	-91 days		
397	231140	RW 29B (50m) + 59 Days DELAY DUE TO INCLEMENT WEATHER (MAY TO AUG 2017)	149 days	7 days	Sun 28/5/17	Mon 23/10/17	Mon 29/5/17	NA	395SS+103 days	85%	-102 days		
398	231150	RW 29A (90m) + 59 Days DELAY DUE TO INCLEMENT WEATHER (MAY TO AUG 2017)	149 days	7 days	Sun 28/5/17	Mon 23/10/17	Mon 29/5/17	NA	395SS+103 days	40%	-102 days		
399	231160	RW 27 (90m)	108 days	7 days	Wed 13/12/17	Fri 30/3/18	NA	NA	400	0%	-102 days		
400	231170	STREAM DECKING D9	50 days	7 days	Tue 24/10/17	Tue 12/12/17	NA	NA	397,398,396,395	0%	-102 days		
401	231180	EARTHWORKS AND DRAINAGE WORKS	236 days	21 days	Sat 31/3/18	Wed 21/11/18	NA	NA	399,391	0%	-102 days		
402	231190	ROAD WORKS	140 days	21 days	Thu 22/11/18	Wed 10/4/19	NA	NA	401	0%	-102 days		
403		PORTION K - ANTICIPATED COMPLETION DATE	0 days	0	Wed 10/4/19	Wed 10/4/19	NA	NA	402	0%	-102 days		
404	231195	PORTION K - ORIGINAL COMPLETION DATE	0 days	0 day	Sat 29/12/18	Sat 29/12/18	NA	NA	403	0%	0 days		
405	232000	PORTION J1	280 days		Sun 28/8/16	Sun 4/6/17	-	-			-		
406	232010	POSSESSION OF SITE (J1)	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	523FS+60 days	0%	0 days		
407	232020	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	Mon 29/8/16	Wed 12/10/16	406SS	100%	0 days		
408	232030	SITE INVESTIGATION	90 days	10 days	Tue 7/3/17	Sun 4/6/17	Tue 7/3/17	Sun 4/6/17	407	100%	0 days		
409	230040	SECTION W3 - ANTICIPATED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT WEATHER TILL JULY 2017 & OTHERS ISSUE	0 days	0 day	Wed 10/4/19	Wed 10/4/19	NA	NA	403,408		-143 days		
410	230050	SECTION W4 PUBLIC TOILET	634 days		Thu 30/6/16	Sun 25/3/18	-	-			-147 days		
411	230060	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		
412	230070	PORTION L	0 days		Thu 30/6/16	Thu 30/6/16	-	-			-		
413	230080	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	411	100%	0 days		
414	230090	DOCUMENT SUBMISSION	100 days	7 days	Thu 30/6/16	Fri 7/10/16	Thu 30/6/16	Fri 7/10/16	413	100%	0 days		
415	230100	R.C. WORKS AND U/G DRAINAGE	402 days		Sat 8/10/16	Mon 13/11/17	-	-			-75 days		
416	241040	R.C. STRUCTURE UP TO ROOF + 80 DAYS INCLEMENT WEATHER DELAY (TILL AUG 2017)	312 days	10 days	Sat 8/10/16	Tue 15/8/17	Sat 8/10/16	15/8/17	414	100%	-75 days		
417	241050	INTERNAL WALL, GROUND SLAB, CABLE TROUGH AND DRAINAGE WORKS + 1 days Delay due to Inclement Weather in Aug 2017	90 days	4 days	Wed 16/8/17	Mon 13/11/17	16/8/17	NA	416	10%	-75 days		
418	241060	INTERNAL FINISHING	293 days		Tue 23/5/17	Sun 11/3/18	-	-			-72 days		
419	241070	SUBMISSION AND APPROVAL OF INTERNAL FINISHES (PAINTING, TILES)	133 days	0 day	Tue 23/5/17	Mon 2/10/17	Tue 23/5/17	NA		70%	-55 days		
420	241080	ORDER & DELIVERY OF INTERNAL FINISHES (PAINTING, TILES)	23 days	2 days	Tue 3/10/17	Wed 25/10/17	NA	NA	419	0%	-55 days		
421	241090	INSTALLATION OF INTERNAL FINISHES (PAINTING, TILES)	57 days	3 days	Tue 14/11/17	Tue 9/1/18	NA	NA	420,417	0%	-74 days		
422	241100	SUBMISSION AND APPROVAL OF CUBICLE PARTITION SYSTEM	60 days	0 day	Mon 28/8/17	Thu 26/10/17	Mon 28/8/17	NA	419SS+97 days	50%	-49 days		
423	241110	ORDER & DELIVERY OF CUBICLE PARTITION SYSTEM	50 days	2 days	Fri 27/10/17	Fri 15/12/17	NA	NA	422	0%	-49 days		
424	241120	INSTALLATION OF CUBICLE PARTITION SYSTEM	35 days	2 days	Wed 10/1/18	Tue 13/2/18	NA	NA	421,423	0%	-74 days		
425	241130	SUBMISSION AND APPROVAL OF SANITARY FITTING	120 days	0 day	Fri 2/6/17	Fri 29/9/17	Fri 2/6/17	NA	419SS+10 days	50%	-7 days		
426	241140	ORDER & DELIVERY OF SANITARY FITTING	70 days	2 days	Sat 30/9/17	Fri 8/12/17	NA	NA	425	0%	-7 days		



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

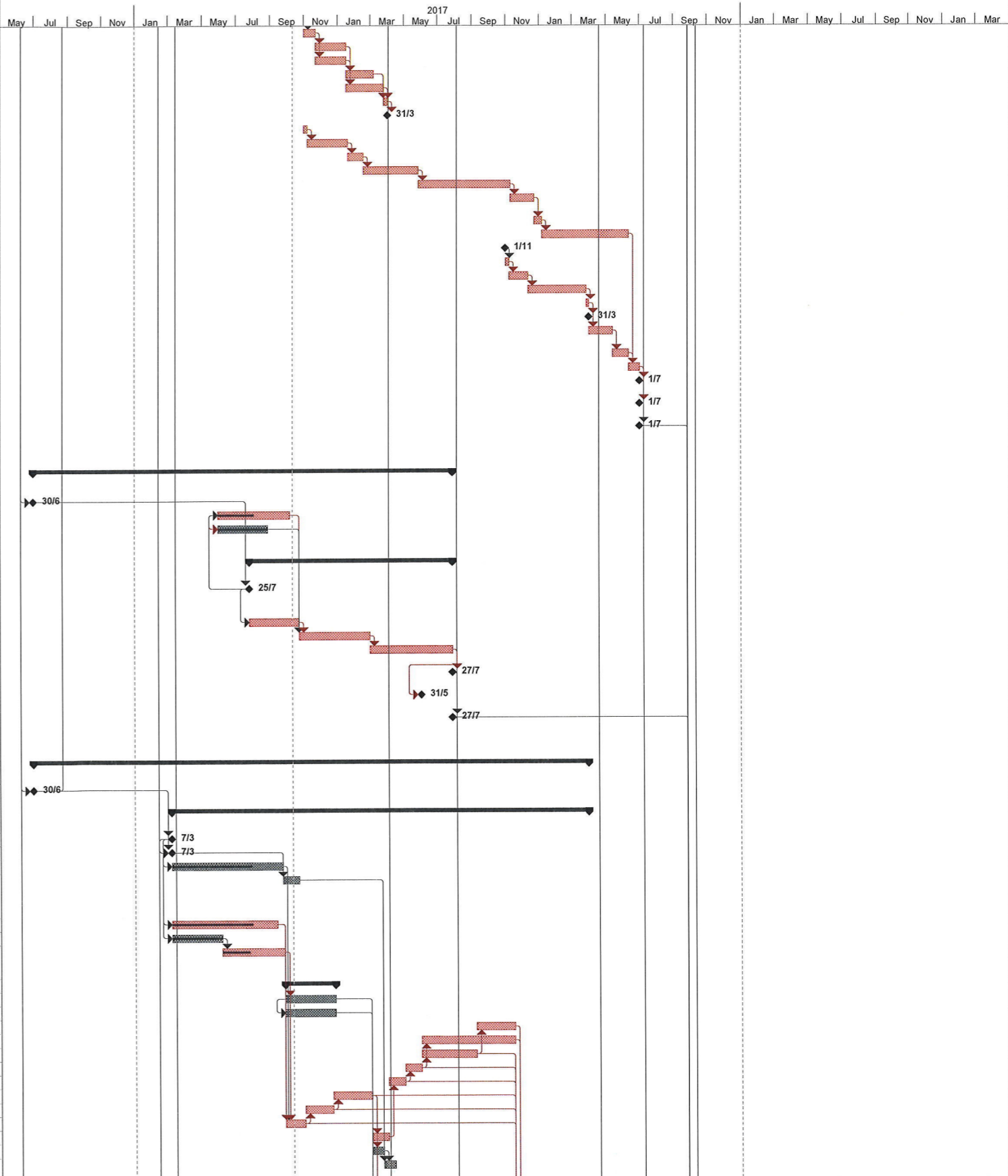
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	R	N
427	241150	INSTALLATION OF SANITARY FITTING	25 days	2 days	Wed 14/2/18	Sat 10/3/18	NA	NA	426,424,446SS	0%	-74 days		
428	241160	SUBMISSION AND APPROVAL OF DOORS & LOUVER	90 days	0 day	Tue 25/7/17	Sun 22/10/17	Thu 27/7/17	NA	419SS+63 days	25%	-51 days		
429	241170	ORDER & DELIVERY OF DOORS & LOUVER	70 days	2 days	Mon 23/10/17	Sun 31/12/17	NA	NA	428	0%	-51 days		
430	241180	INSTALLATION OF DOORS & LOUVER	30 days	1 day	Mon 1/1/18	Tue 30/1/18	NA	NA	429,421FS-10 days	0%	-51 days		
431	241190	SUBMISSION AND APPROVAL OF OTHER INTERNAL FINISHING (e.g. WASH HAND BASIN, SIGNAGE & SO ON)	90 days	0 day	Sun 10/9/17	Fri 8/12/17	NA	NA	419SS+110 days	0%	-48 days		
432	241200	ORDER & DELIVERY OF OTHER INTERNAL FINISHING (e.g. WASH HAND BASIN, SIGNAGE& SO ON)	50 days	2 days	Sat 9/12/17	Sat 27/1/18	NA	NA	431,420	0%	-48 days		
433	241210	INSTALLATION OF OTHER INTERNAL FINISHING (e.g. WASH HAND BASIN, SIGNAGE& SO ON)	19 days	2 days	Wed 21/2/18	Sun 11/3/18	NA	NA	432,427SS+7 days,430	0%	-72 days		
434	241220	EXTERNAL FINISHING	296 days		Tue 23/5/17	Wed 14/3/18					-75 days		
435	241230	WATERPROOFING FOR EXTERNAL SURFACE	32 days	3 days	Tue 14/11/17	Fri 15/12/17	NA	NA	417	0%	-75 days		
436	241240	SUBMISSION AND APPROVAL OF EXTERNAL FINISHING	135 days	3 days	Tue 23/5/17	Wed 4/10/17	Tue 23/5/17	NA	419SS	50%	-15 days		
437	241250	ORDER & DELIVERY OF EXTERNAL FINISHING	40 days	2 days	Thu 5/10/17	Mon 13/11/17	NA	NA	436	0%	-15 days		
438	241260	INSTALLATION OF EXTERNAL FINISHING	40 days	3 days	Wed 10/1/18	Sun 18/2/18	NA	NA	435,437,416,421	0%	-72 days		
439	241270	STEEL HOLLOW SECTION AT ROOF	68 days	3 days	Sat 16/12/17	Wed 21/2/18	NA	NA	435	0%	-75 days		
440	241280	EQUALIZATION & SLUDE HOLDING TANKS, SOAP AWAY PIT	50 days	5 days	Sat 11/11/17	Sat 30/12/17	NA	NA	452SS+7 days,417FS-3 days	0%	-75 days		
441	241290	EARTHWORKS, PAVEMENT & LANDSCAPING WORKS	74 days	3 days	Sun 31/12/17	Wed 14/3/18	NA	NA	440	0%	-75 days		
442	241300	EXTERNAL MISC. WORK	21 days	2 days	Thu 22/2/18	Wed 14/3/18	NA	NA	438,439	0%	-75 days		
443	241310	WATERWORKS	634 days		Thu 30/6/16	Sun 25/3/18					-86 days		
444	241320	SUBMISSION AND APPROVAL OF WA FORM WWO 542 (BY SUPERVISOR / PM)	460 days	0 day	Thu 30/6/16	Mon 2/10/17	Thu 30/6/16	Tue 6/6/17		50%	-86 days		
445	241330	SUBMISSION AND APPROVAL OF WA FORM WWO 046 (BY SKJV)	96 days	0 day	Tue 3/10/17	Sat 6/1/18	NA	NA	444	0%	-86 days		
446	241340	INSTALLATION OF PLUMBING WORKS	39 days	2 days	Sun 7/1/18	Wed 14/2/18	NA	NA	445	0%	-86 days		
447	241350	WSD INSPECTION ON COMPLETED PLUMBING WORKS	14 days	1 day	Thu 15/2/18	Wed 28/2/18	NA	NA	446	0%	-86 days		
448	241360	WSD METER CONNECTION BY WSD	25 days	1 days	Thu 1/3/18	Sun 25/3/18	NA	NA	447	0%	-86 days		
449	241370	BIO-TREATMENT PLANT	417 days		Wed 18/1/17	Sat 10/3/18					-71 days		
450	241380	SUBMISSION AND APPROVAL OF BIO-TREATMENT PLANT (BTP) + DELAY OF THE WORKS DUE TO BELATED APPROVAL OF BTP (SKJV NCE No.47)	203 days	0 day	Wed 18/1/17	Tue 8/8/17	Wed 18/1/17	Tue 8/8/17		100%	-63 days		
451	241390	ORDER AND DELIVERY OF BIO-TREATMENT PLANT	75 days	2 days	Wed 9/8/17	Sun 22/10/17	Wed 9/8/17	NA	450	25%	-63 days		
452	241400	INSTALLATION OF BIO-TREATMENT PLANT	60 days	3 days	Mon 23/10/17	Thu 21/12/17	NA	NA	451,417SS+20 days	0%	-63 days		
453	241410	TESTING & COMMISSIONING FOR BIO-TREATMENT PLANT	70 days	2 days	Sun 31/12/17	Sat 10/3/18	NA	NA	452,440	0%	-71 days		
454	241420	E&M and MVAC WORKS	189 days		Sun 27/8/17	Sat 3/3/18					-67 days		
455	241430	SUBMISSION AND APPROVAL OF E&M and MVAC WORKS	85 days	0 day	Sun 27/8/17	Sun 19/11/17	Fri 11/8/17	NA	417SS+11 days		-67 days		
456	241440	ORDER & DELIVERY OF E&M and MVAC WORKS	30 days	2 days	Mon 20/11/17	Tue 19/12/17	NA	NA	455	0%	-67 days		
457	241450	INSTALLATION OF E&M and MVAC WORKS	74 days	5 days	Wed 20/12/17	Sat 3/3/18	NA	NA	421SS,456	0%	-67 days		
458	241455	FINAL TESTING & COMMISSIONING	3 days	1 days	Sun 11/3/18	Tue 13/3/18	NA	NA	457,427	0%	-74 days		
459	241460	PORTION L - ANTICIPATED COMPLETION DATE	0 days	0 day	Sun 25/3/18	Sun 25/3/18	NA	NA	433,441,442,448,458,453		147 days		
460	241465	PORTION L - ORIGINAL COMPLETION DATE	0 days	0 day	Fri 29/12/17	Fri 29/12/17	NA	NA	433,441,442,448,458,453		0 days		
461	241480	SECTION W4 - ANTICIPATED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT WEATHER & OTHERS ISSUE	0 days	0 day	Sun 25/3/18	Sun 25/3/18	NA	NA	459		147 days		
462	250000	SECTION W5 (PORTION M)	1097 days		Thu 30/6/16	Mon 1/7/19					-765 days		
463	250010	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		
464	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	80%	1377 days		
465	251000	PORTION M (BRIDGE E)	1097 days		Thu 30/6/16	Mon 1/7/19					-765 days		
466	251010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	463SS	100%	0 days		
467	251020	INITIAL SURVEY	63 days	2 days	Thu 30/6/16	Wed 31/8/16	Thu 30/6/16	Wed 31/8/16	466SS	100%	0 days		
468	251030	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	Thu 30/6/16	Wed 27/7/16	466SS	100%	0 days		
469	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	468	100%	0 days		
470	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	466SS	100%	0 days		
471	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	470	100%	0 days		
472	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	471	100%	0 days		
473	251080	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/11/16	Tue 1/11/16	Wed 30/11/16	472,467,469SS+10 days	100%	0 days		
474	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	473	100%	0 days		
475	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	474,464	100%	0 days		
476	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	475	100%	0 days		
477	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	475FS+7 days	100%	0 days		
478	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	477	100%	0 days		
479	251140	SUBMISSION, APPROVAL, PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	120 days	30 days	Mon 18/9/17	Mon 15/1/18	NA	NA	478FS+170 days	0%	1297 days		
480	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	478	100%	0 days		
481	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	480	100%	0 days		
482	251170	STARTING DATE OF DRY SEASON	0 days	0 day	Wed 1/11/17	Wed 1/11/17	NA	NA	481	0%	0 days		



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			

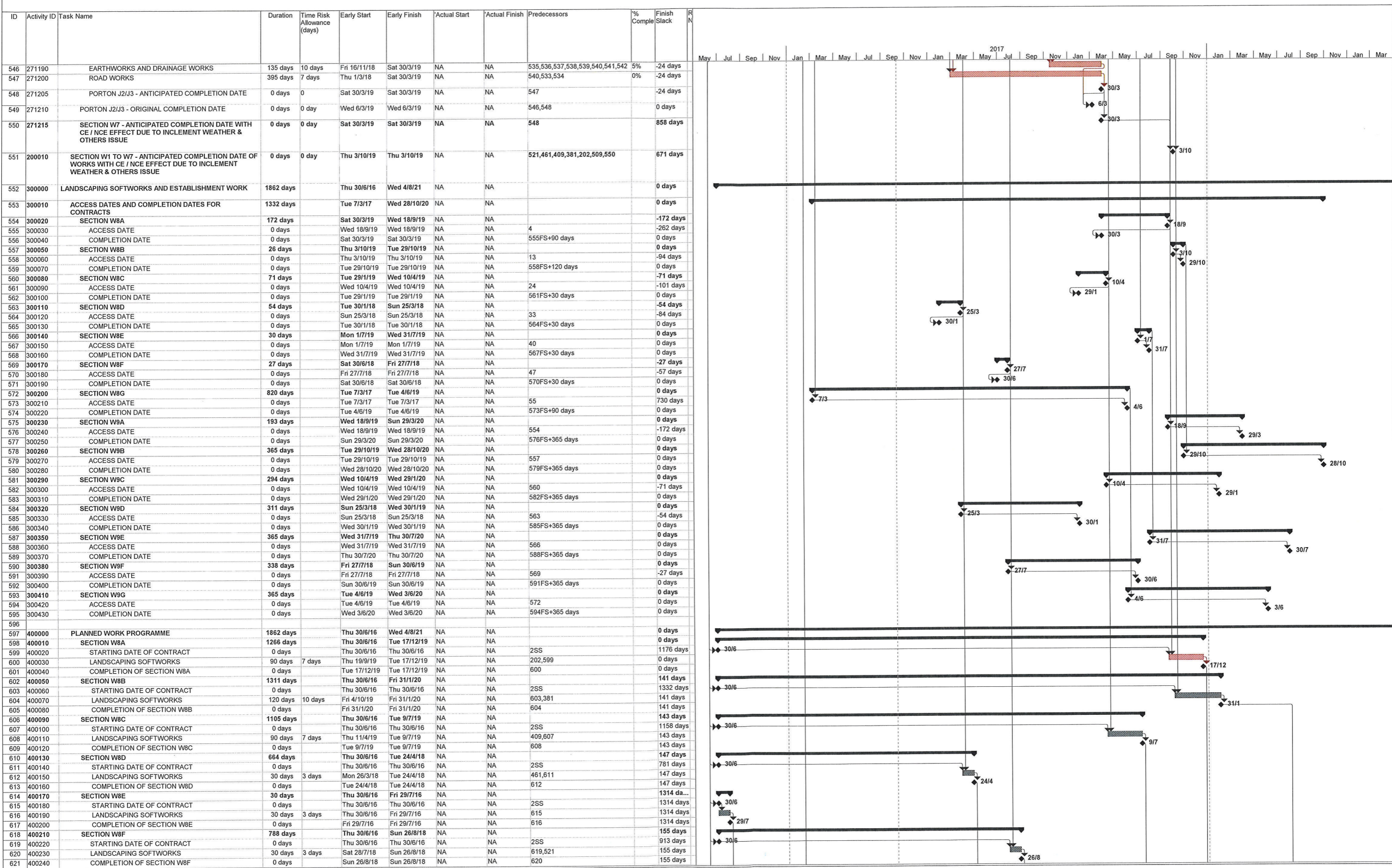
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	R	N
483	251180	TEMPORARY DRAINAGE WORKS	21 days	2 days	Wed 1/11/17	Tue 21/11/17	NA	NA	482	0%	0 days		
484	251190	PILING WORKS AT GRID 2	55 days	4 days	Wed 22/11/17	Mon 15/1/18	NA	NA	483	0%	0 days		
485	251220	PILING WORKS AT GRID 3	55 days	4 days	Wed 22/11/17	Mon 15/1/18	NA	NA	483	0%	0 days		
486	251225	PILE LOAD TEST	50 days	1 day	Tue 16/1/18	Tue 6/3/18	NA	NA	484,485	0%	0 days		
487	251230	PILE CAP CONSTRUCTION	68 days	1 day	Tue 16/1/18	Sat 24/3/18	NA	NA	484,485	0%	0 days		
488	251240	REMOVAL OF TEMPORARY DRAINAGE WORK	7 days	2 days	Sun 25/3/18	Sat 31/3/18	NA	NA	486FS+18 days,487	0%	0 days		
489	251250	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	NA	NA	488	0%	0 days		
490	251251	IMPLEMENTATION OF TTA AT GRID 1	7 days	0 day	Wed 1/11/17	Tue 7/11/17	NA	NA		0%	0 days		
491	251255	PILING WORKS AT GRID 1	72 days	2 days	Wed 8/11/17	Thu 18/1/18	NA	NA	490	0%	0 days		
492	251260	PILE LOAD TEST AT GRID 1	28 days	7 days	Fri 19/1/18	Thu 15/2/18	NA	NA	491	0%	0 days		
493	251270	PILE CAP & COLUMN AT GRID 1	100 days	3 days	Fri 16/2/18	Sat 26/5/18	NA	NA	492	0%	0 days		
494	251275	RAMP & RETAINING WALL AT GRID 1	167 days	2 days	Sun 27/5/18	Fri 9/11/18	NA	NA	493	0%	0 days		
495	251280	INSTALLATION OF STEEL ROOF AT GRID 1	43 days	1 days	Sat 10/11/18	Sat 22/12/18	NA	NA	494	0%	0 days		
496	251285	INSTALLATION OF MJ	14 days	0 day	Sun 23/12/18	Sat 5/1/19	NA	NA	495	0%	0 days		
497	251290	DRAINAGE & ROADWORKS AT GRID 1	157 days	4 days	Sun 6/1/19	Tue 11/6/19	NA	NA	496	0%	0 days		
498	251300	STARTING DATE OF DRY SEASON	0 days	0 day	Thu 1/11/18	Thu 1/11/18	NA	NA		0%	0 days		
499	251305	TEMPORARY DRAINAGE WORKS	7 days	2 days	Thu 1/11/18	Wed 7/11/18	NA	NA	498	0%	0 days		
500	251310	PIER AT GRID 2	34 days	2 days	Thu 8/11/18	Tue 11/12/18	NA	NA	499	0%	0 days		
501	251315	BRIDGE DECK CONSTRUCTION	105 days	10 days	Wed 12/12/18	Tue 26/3/19	NA	NA	500	0%	0 days		
502	251320	REMOVAL OF TEMPORARY DRAINAGE WORK	5 days	2 days	Wed 27/3/19	Sun 31/3/19	NA	NA	501	0%	0 days		
503	251330	END DATE OF DRY SEASON	0 days	0 day	Sun 31/3/19	Sun 31/3/19	NA	NA	502	0%	857 days		
504	251350	STEEL STRUCTURAL ROOF WORKS ON BRIDGE DECK	42 days	5 days	Mon 1/4/19	Sun 12/5/19	NA	NA	502	0%	0 days		
505	251360	RAILING, DRAINAGE & E&M WORKS	30 days	4 days	Mon 13/5/19	Tue 11/6/19	NA	NA	504	0%	0 days		
506	251370	ROAD WORKS	20 days	4 days	Wed 12/6/19	Mon 1/7/19	NA	NA	505,497	0%	0 days		
507	251385	PORTION M - ANTICIPATED COMPLETION DATE	0 days	0	Mon 1/7/19	Mon 1/7/19	NA	NA	506	0%	765 days		
508	251390	PORTION M - ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	506	0%	0 days		
509	251390	SECTION W5 - ANTICIPATED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT WEATHER & OTHERS ISSUE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	507	-	765 days		
510	260000	SECTION W6 (PORTION P)	758 days		Thu 30/6/16	Fri 27/7/18	-	-		-	155 days		
511	260010	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		
512	260020	APPLICATION OF EXCAVATION PERMIT	130 days	10 days	Tue 30/5/17	Fri 6/10/17	NA	NA	515SS	50%	-40 days		
513	260030	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	90 days	10 days	Tue 30/5/17	Sun 27/8/17	Tue 30/5/17	Sun 27/8/17	512SS	100%	0 days		
514	261000	PORTION P	367 days		Tue 25/7/17	Fri 27/7/18	-	-		-	155 days		
515	261010	POSSESSION OF SITE + DELAY OF WORKS DUE TO DELAY IN ALLOWING THE USE OF ACCESS (+56 days)	0 days	0 day	Tue 25/7/17	Tue 25/7/17	Tue 25/7/17	Tue 25/7/17	511FS+391 days	100%	0 days		
516	261020	DOCUMENT SUBMISSION	90 days	2 days	Wed 26/7/17	Mon 23/10/17	Wed 26/7/17	NA	515SS	0%	-57 days		
517	261030	DRAINAGE WORKS	127 days	5 days	Tue 24/10/17	Tue 27/2/18	NA	NA	516,512,513	0%	-57 days		
518	261040	ROAD WORKS	150 days	5 days	Wed 28/2/18	Fri 27/7/18	NA	NA	517	0%	-57 days		
519	261045	PORTION P - ANTICIPATED COMPLETION DATE	0 days	0 day	Fri 27/7/18	Fri 27/7/18	NA	NA	518		155 days		
520	261050	PORTION P - ORIGINAL COMPLETION DATE	0 days	0 day	Thu 31/5/18	Thu 31/5/18	NA	NA	518	0%	0 days		
521	261060	SECTION W6 - ANTICIPATED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT WEATHER & OTHERS ISSUE	0 days	0 day	Fri 27/7/18	Fri 27/7/18	NA	NA	519	-	155 days		
522	270000	SECTION W7 (PORTION J1, J2 & J3)	1004 days		Thu 30/6/16	Sat 30/3/19	-	-		-	858 days		
523	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		
524	271000	PORTION J2, J3	754 days		Tue 7/3/17	Sat 30/3/19	-	-		-	858 days		
525	271010	INSTRUCTION TO EXECISE	0 days	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	523	100%	0 days		
526	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	525SS,523FS+250 days	100%	0 days		
527	271030	APPLICATION OF EXCAVATION PERMIT	200 days	0 day	Tue 7/3/17	Fri 22/9/17	Tue 7/3/17	Sat 2/9/17	525SS	50%	26 days		
528	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	Sun 3/9/17	Mon 2/10/17	526FS+200 days	0%	1361 days		
529	271050	INITIAL SURVEY	190 days	2 days	Tue 7/3/17	Tue 12/9/17	Tue 7/3/17	Sat 29/7/17	526SS	80%	-10 days		
530	271060	TREE SURVEY	90 days	2 days	Tue 7/3/17	Sun 4/6/17	Tue 7/3/17	Sun 4/6/17	526SS	100%	0 days		
531	271070	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE + 24 days DELAY DUE TO INCLEMENT WEATHER FROM JULY TO AUG 2017	114 days	3 days	Mon 5/6/17	Tue 26/9/17	Mon 5/6/17	NA	530	20%	-24 days		
532	271072	UTILITIES DIVERSION WORKS (CLP, WSD)	90 days	3 day	Wed 27/9/17	Mon 25/12/17	-	-		-	41 days		
533	271074	CLP	90 days	3 days	Wed 27/9/17	Mon 25/12/17	NA	NA	531	0%	41 days		
534	271076	WSD	90 days	3 days	Wed 27/9/17	Mon 25/12/17	NA	NA	533SS	0%	41 days		
535	271080	RW 46 (67M)	70 days	7 days	Fri 7/9/18	Thu 15/11/18	NA	NA	537	0%	-24 days		
536	271090	RW 47 (83 NOS OF SOLDIER PILES)	170 days	0 day	Wed 30/5/18	Thu 15/11/18	NA	NA	538	0%	-24 days		
537	271100	RW 48 (110M)	100 days	5 days	Wed 30/5/18	Thu 6/9/18	NA	NA	538	0%	-24 days		
538	271110	RW 24A (20M)	30 days	2 days	Mon 30/4/18	Tue 29/5/18	NA	NA	539	0%	-24 days		
539	271120	RW 24B (18M)	30 days	2 days	Sat 31/3/18	Sun 29/4/18	NA	NA	543	0%	-24 days		
540	271130	RW 24C (82M)	70 days	7 days	Thu 21/12/17	Wed 28/2/18	NA	NA	541	0%	-24 days		
541	271140	RW 25 (83M)	50 days	7 days	Wed 1/11/17	Wed 20/12/17	NA	NA	542	0%	-24 days		
542	271150	RW 26 (20M)	35 days	2 days	Wed 27/9/17	Tue 31/10/17	NA	NA	529,531,527FS-46 days	0%	-24 days		
543	271160	STREAM DECKING D8	30 days	2 days	Thu 1/3/18	Fri 30/3/18	NA	NA	540	0%	-24 days		
544	271170	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Thu 1/3/18	Wed 21/3/18	NA	NA	540	0%	1211 days		
545	271180	DEMOLITION OF EXISTING STRUCTURE @ APPROX. CH.KW0+900	21 days	3 days	Thu 22/3/18	Wed 11/4/18	NA	NA	544,528	0%	1211 days		

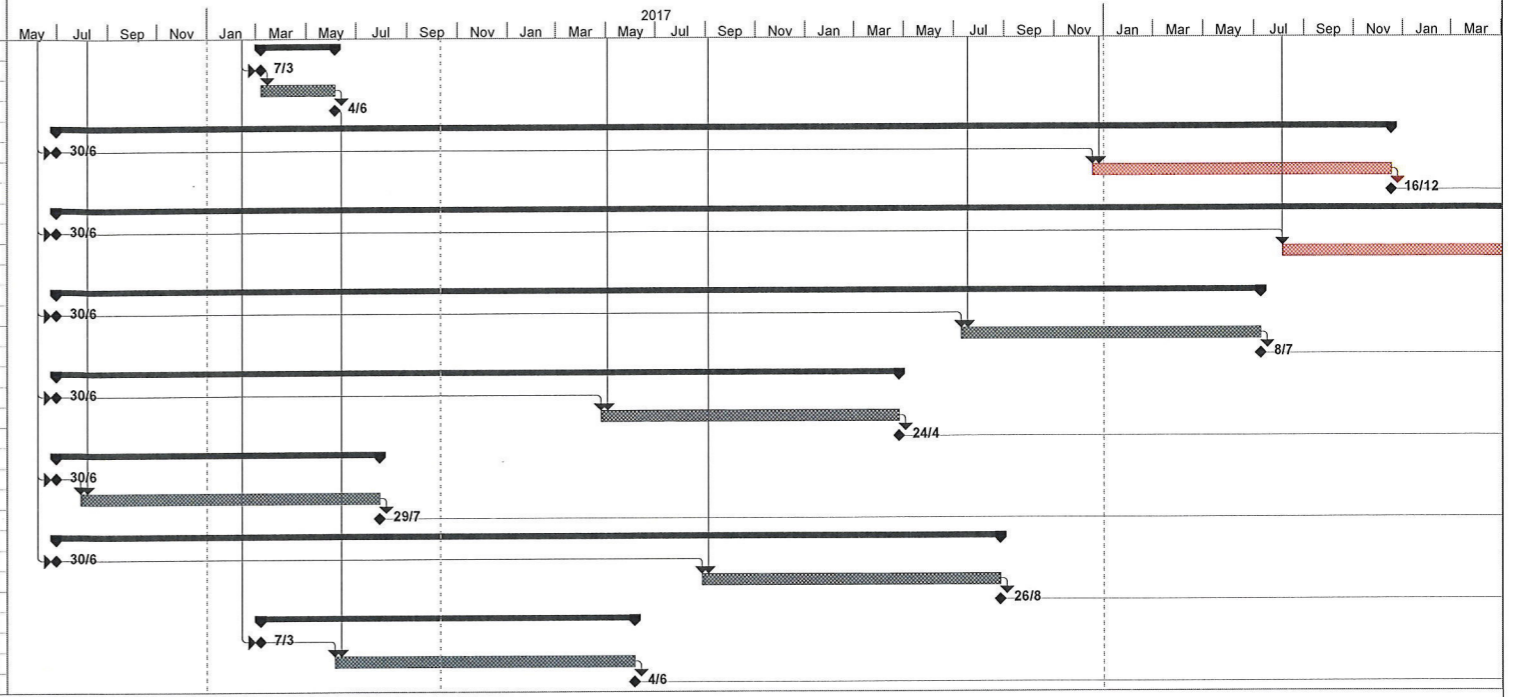


Task		Summary		External Milestone		Inactive Summary		Manual Summary Rollup		Finish-only		Progress	
Split		Project Summary		Inactive Task		Manual Task		Manual Summary		Critical		Deadline	
Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		Critical Split			

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	% Comple	Finish Slack	R N
622	400250	SECTION W8G	90 days		Tue 7/3/17	Sun 4/6/17	NA	NA			942 days	
623	400260	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	NA	NA	55SS		942 days	
624	400270	LANDSCAPING SOFTWORKS	90 days	7 days	Tue 7/3/17	Sun 4/6/17	NA	NA	623		942 days	
625	400280	COMPLETION OF SECTION W8G	0 days		Sun 4/6/17	Sun 4/6/17	NA	NA	624		942 days	
626	400290	SECTION W9A	1631 days		Thu 30/6/16	Wed 16/12/20	NA	NA			0 days	
627	400300	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS		1266 days	
628	400310	ESTABLISHMENT WORKS	365 days	30 days	Wed 18/12/19	Wed 16/12/20	NA	NA	601,627		0 days	
629	400320	COMPLETION OF SECTION W9A	0 days		Wed 16/12/20	Wed 16/12/20	NA	NA	628		0 days	
630	400330	SECTION W9B	1862 days		Thu 30/6/16	Wed 4/8/21	NA	NA			0 days	
631	400340	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS		1497 days	
632	400350	ESTABLISHMENT WORKS	365 days	30 days	Wed 5/8/20	Wed 4/8/21	NA	NA	631,629FF+231 days,637FF+249 d		0 days	
633	400360	COMPLETION OF SECTION W9B	0 days		Wed 4/8/21	Wed 4/8/21	NA	NA	632		0 days	
634	400370	SECTION W9C	1470 days		Thu 30/6/16	Wed 8/7/20	NA	NA			143 days	
635	400380	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS		1248 days	
636	400390	ESTABLISHMENT WORKS	365 days	30 days	Wed 10/7/19	Wed 8/7/20	NA	NA	609,635		143 days	
637	400400	COMPLETION OF SECTION W9C	0 days		Wed 8/7/20	Wed 8/7/20	NA	NA	636		143 days	
638	400410	SECTION W9D	1029 days		Thu 30/6/16	Wed 24/4/19	NA	NA			147 days	
639	400420	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS		811 days	
640	400430	ESTABLISHMENT WORKS	365 days	30 days	Wed 25/4/18	Wed 24/4/19	NA	NA	613,639		147 days	
641	400440	COMPLETION OF SECTION W9D	0 days		Wed 24/4/19	Wed 24/4/19	NA	NA	640		147 days	
642	400450	SECTION W9E	395 days		Thu 30/6/16	Sat 29/7/17	NA	NA			1314 da...	
643	400460	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS		1344 days	
644	400470	ESTABLISHMENT WORKS	365 days	30 days	Sat 30/7/16	Sat 29/7/17	NA	NA	617,643		1314 days	
645	400480	COMPLETION OF SECTION W9E	0 days		Sat 29/7/17	Sat 29/7/17	NA	NA	644		1314 days	
646	400490	SECTION W9F	1153 days		Thu 30/6/16	Mon 26/8/19	NA	NA			155 days	
647	400500	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS		943 days	
648	400510	ESTABLISHMENT WORKS	365 days	30 days	Mon 27/8/18	Mon 26/8/19	NA	NA	621,647		155 days	
649	400520	COMPLETION OF SECTION W9F	0 days		Mon 26/8/19	Mon 26/8/19	NA	NA	648		155 days	
650	400530	SECTION W9G	455 days		Tue 7/3/17	Mon 4/6/18	NA	NA			942 days	
651	400540	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	NA	NA	55SS		1032 da...	
652	400550	ESTABLISHMENT WORKS	365 days	30 days	Mon 5/6/17	Mon 4/6/18	NA	NA	625,651		942 days	
653	400560	COMPLETION OF SECTION W8A	0 days		Mon 4/6/18	Mon 4/6/18	NA	NA	652		942 days	



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

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

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

Appendix B - Action and Limit Levels

Table B-1 Action and Limit Levels for Construction Noise

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

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

**APPENDIX C
COPIES OF CALIBRATION
CERTIFICATES**

TEST REPORT

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

Test Report No.:	C/N/170915A
Date of Issue:	2017-09-18
Date Received:	2017-09-15
Date Tested:	2017-09-15
Date Completed:	2017-09-18
Next Due Date:	2018-09-17

ATTN: Mr. W.K. Tang

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 955
Serial No.	: 12563
Microphone No.	: 34377
Equipment No.	: N-08-03

Test conditions:

Room Temperature	: 22 degree Celsius
Relative Humidity	: 60%

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

TEST REPORT

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

Test Report No.:	C/N/170818
Date of Issue:	2017-08-21
Date Received:	2017-08-18
Date Tested:	2017-08-18
Date Completed:	2017-08-21
Next Due Date:	2018-08-20

ATTN: Mr. W.K. Tang

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21459
Microphone No.	: 43676
Equipment No.	: N-08-08

Test conditions:

Room Temperature	: 22 degree Celsius
Relative Humidity	: 61 %

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

TEST REPORT

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

Test Report No.:	C/N/170929
Date of Issue:	2017-09-30
Date Received:	2017-09-29
Date Tested:	2017-09-29
Date Completed:	2017-09-30
Next Due Date:	2018-09-29

ATTN: Mr. W.K. Tang

Page: 1 of 1

Item for calibration:

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

Test conditions:

Room Temperature	: 21 degree Celsius
Relative Humidity	: 60 %

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

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

Test Report No.:	C/N/170818C
Date of Issue:	2017-08-21
Date Received:	2017-08-18
Date Tested:	2017-08-18
Date Completed:	2017-08-21
Next Due Date:	2018-08-20

ATTN: Mr. W.K. Tang

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2412367
Equipment No.	: N-02-03

Test conditions:

Room Temperature	: 22 degree Celsius
Relative Humidity	: 61 %

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

**APPENDIX D
ENVIRONMENTAL MONITORING
SCHEDULES**

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction
Impact Noise Monitoring Schedule (January 2018)

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

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 (February 2018)

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

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

Noise Monitoring Station

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

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

Appendix E - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location N1 - HKMLC Wong Chan Sook Ying Memorial School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
3-Jan-18	9:00	Sunny	62.7	65.2	58.3	62.2	53.1
11-Jan-18	9:40	Sunny	62.0	64.5	58.1		62.0 Measured ≤ Baseline
18-Jan-18	9:30	Sunny	61.4	63.9	58.7		61.4 Measured ≤ Baseline
23-Jan-18	9:30	Sunny	61.7	64.0	57.8		61.7 Measured ≤ Baseline
30-Jan-18	14:30	Cloudy	62.8	65.6	58.2		53.9

Location N2 - Bethel High School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
3-Jan-18	14:00	Sunny	56.4	57.5	53.4	55.2	50.2
11-Jan-18	9:00	Sunny	57.0	59.4	52.8		52.3
18-Jan-18	10:20	Sunny	60.9	62.8	58.5		59.5
23-Jan-18	10:20	Sunny	62.1	64.3	58.9		61.1
30-Jan-18	15:15	Cloudy	54.6	57.0	51.0		54.6 Measured ≤ Baseline

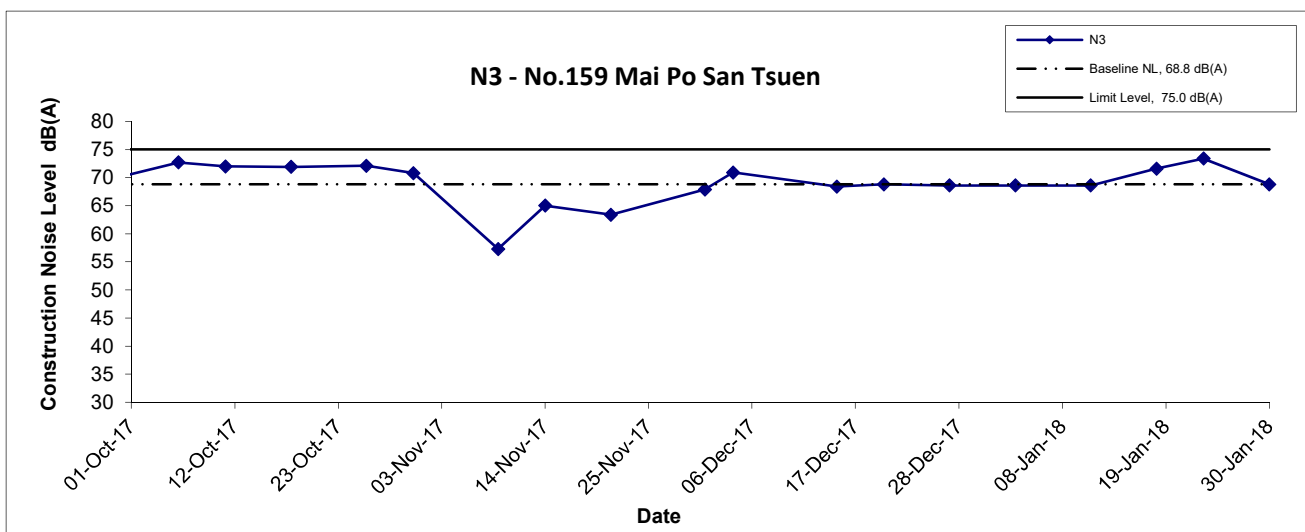
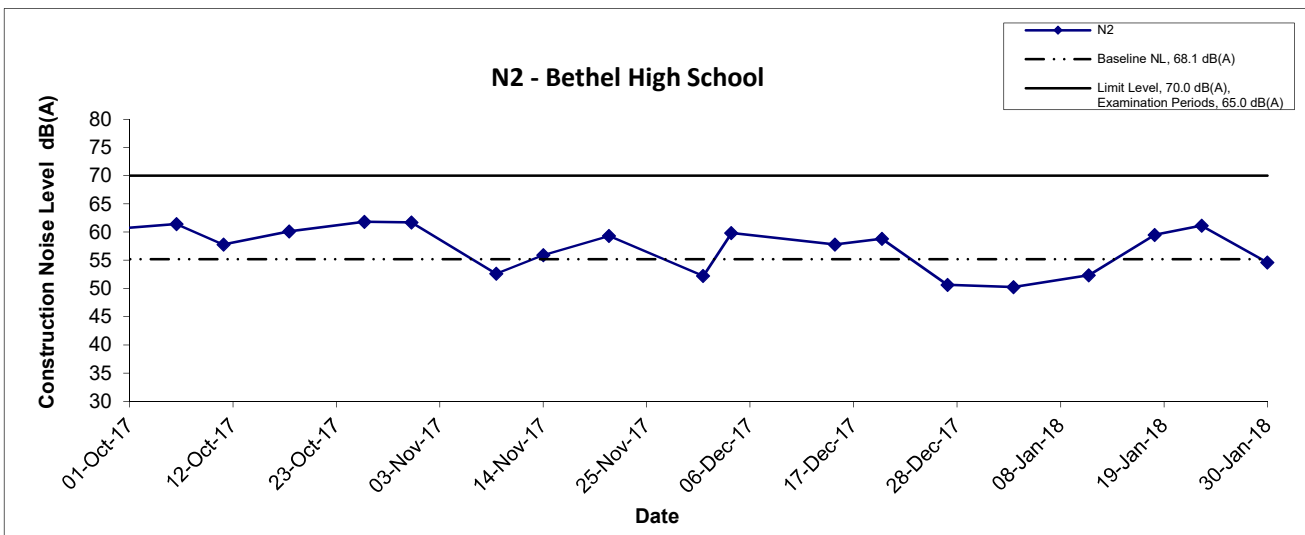
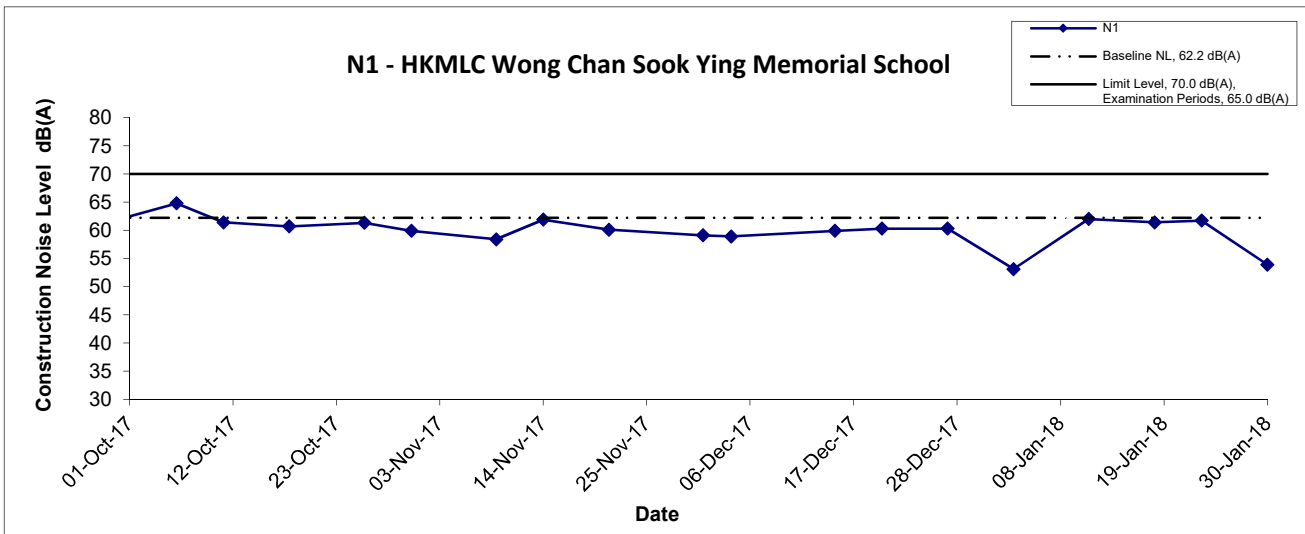
Location N3 - No.159 Mai Po San Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
3-Jan-18	10:00	Sunny	68.6	70.5	65.4	68.8	68.6 Measured ≤ Baseline
11-Jan-18	10:05	Sunny	68.6	70.4	65.7		68.6 Measured ≤ Baseline
18-Jan-18	11:15	Sunny	73.4	75.9	69.9		71.6
23-Jan-18	11:25	Sunny	74.7	76.5	70.1		73.4
30-Jan-18	13:40	Cloudy	71.8	73.4	69.6		68.8

Location N5 - Block 2, Dills Corner Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
3-Jan-18	13:00	Sunny	69.7	72.0	65.8	70.7	69.7 Measured ≤ Baseline
11-Jan-18	11:10	Sunny	69.2	71.4	63.1		69.2 Measured ≤ Baseline
18-Jan-18	14:10	Sunny	72.2	74.6	69.3		66.9
23-Jan-18	14:05	Sunny	72.3	74.6	69.1		67.2
30-Jan-18	10:20	Cloudy	71.8	74.0	68.3		65.3

Location N6 - Home of Loving Faithfulness							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
3-Jan-18	11:30	Sunny	71.6	73.6	68.3	72.0	71.6 Measured ≤ Baseline
11-Jan-18	13:25	Sunny	70.3	74.5	62.9		70.3 Measured ≤ Baseline
18-Jan-18	15:00	Sunny	72.5	74.4	70.0		62.9
23-Jan-18	14:45	Sunny	73.8	75.9	68.5		69.1
30-Jan-18	11:00	Rainy	69.0	71.3	65.5		69.0 Measured ≤ Baseline

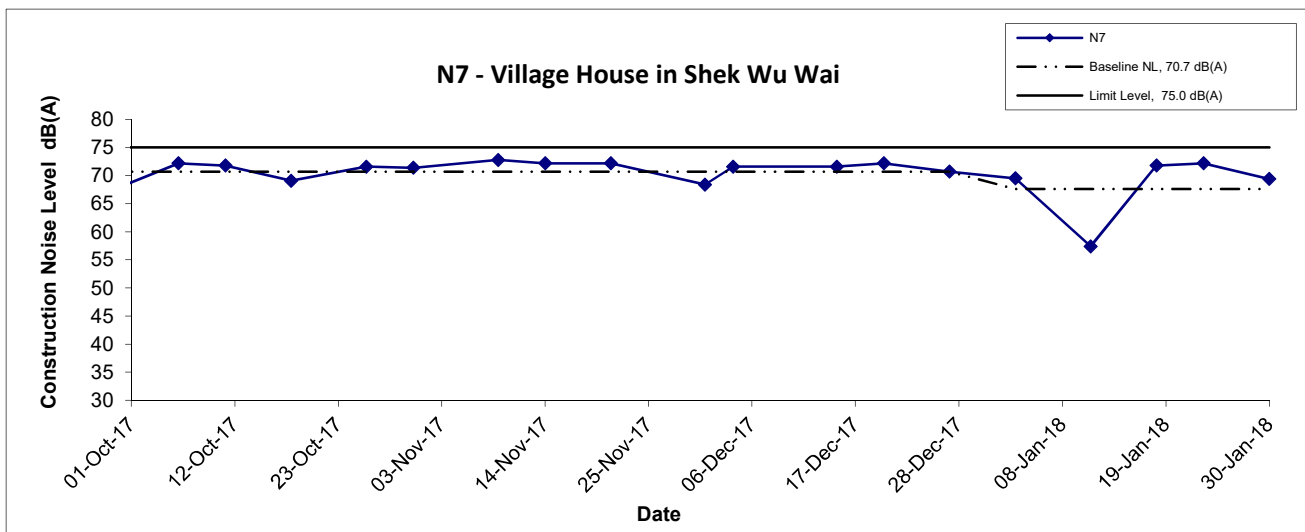
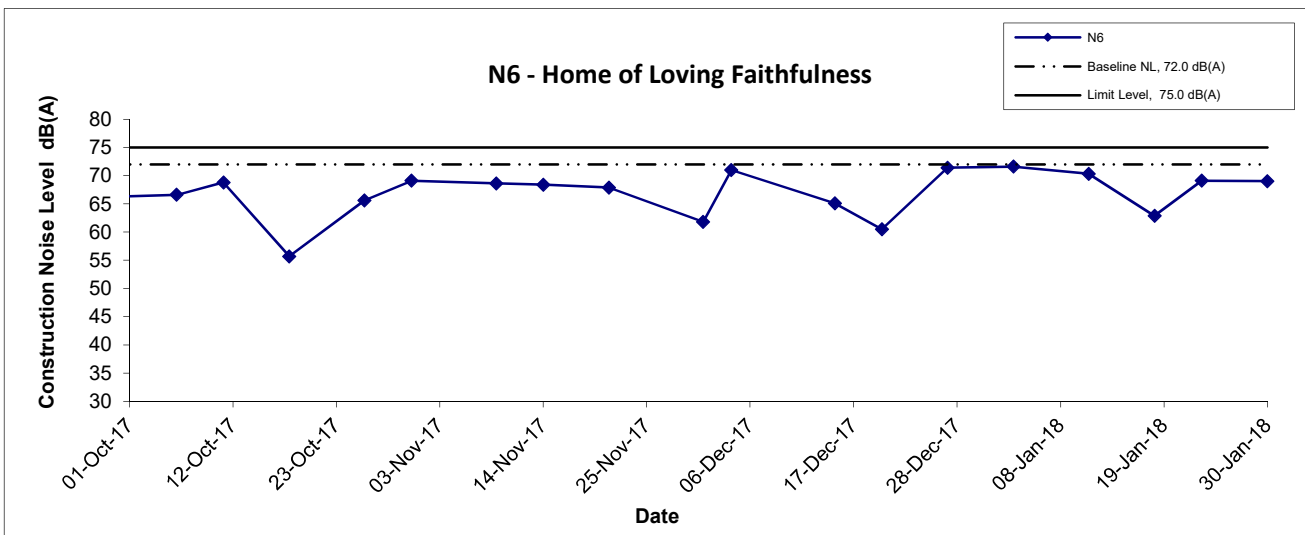
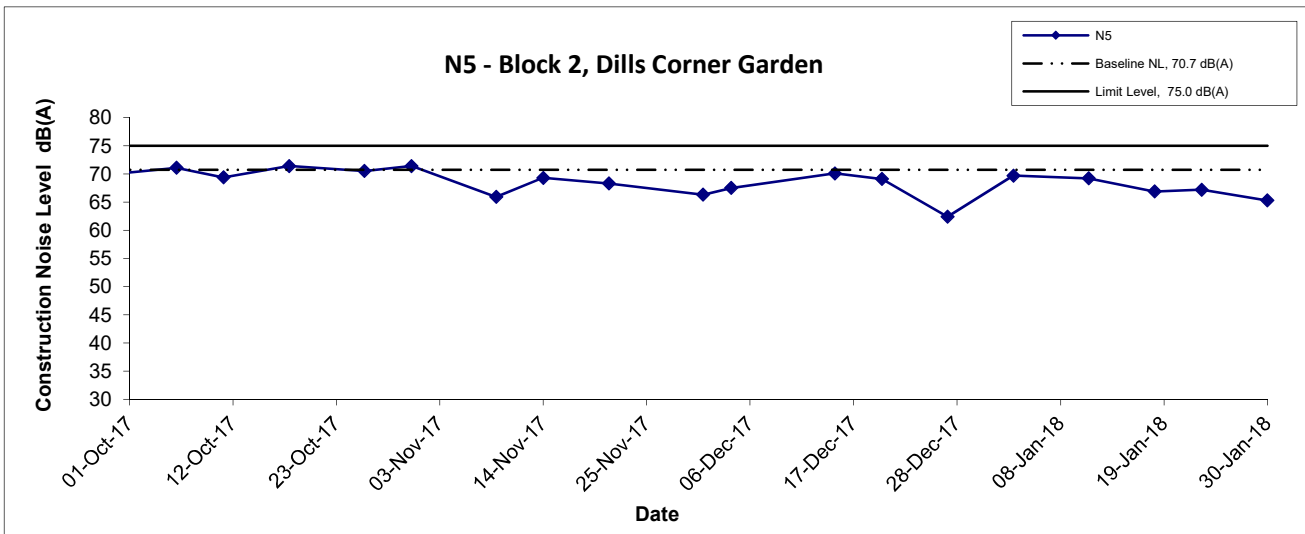
Location N7 - Village House in Shek Wui Wai							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
3-Jan-18	10:45	Sunny	69.5	71.8	65.9	70.7	69.5 Measured ≤ Baseline
11-Jan-18	10:45	Sunny	70.9	73.0	65.9		57.4
18-Jan-18	13:20	Sunny	74.3	77.2	70.1		71.8
23-Jan-18	13:10	Sunny	74.5	77.1	70.4		72.2
30-Jan-18	13:00	Cloudy	73.1	74.2	67.2		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	Project No.	CINOTECH
	N.T.S	MA16036	
	Date	Appendix	
	Jan-18	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	Project No.	CINOTECH
	N.T.S	MA16036	
	Date	Appendix	
	Jan-18	E	

APPENDIX F
SUMMARY OF EXCEEDANCE

Agreement No. CE 67/2015 (HY)

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

Appendix F – Summary of Exceedance

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

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

**APPENDIX G
SITE AUDIT SUMMARY**

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

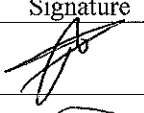
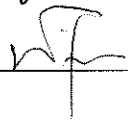
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	180103
Date	3 January 2018 (Wednesday)
Time	09:30-12:30

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

Ref. No.	Remarks/Observations	Related Item No.
180103-F04	B. Water Quality Unsatisfactory water quality of Wheel Washing Bay at Portion A was found. The Contractor is reminded to maintain the water quality by regular checking and cleaning.	B 10 iii & iv
180103-F03	A proper and well-designed wheel washing bay is needed at Portion C to wash off dusts/ contaminated soil from vehicles.	B 10 ii
180103-F05	The silt and sediment of the sedimentation tank at Portion A should be disposed regularly to maintain the quality of the system.	B 3 iv
180103-F02	C. Air Quality NRMMS were found without proper labels at Portion E regrading to the air quality regulation. The Contractor was reminded to check all the NRMMS before operation.	C 18
180103-O01	D. Construction Noise Impact No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management General refuse was found. It is observed that no bin was provided at Portion M for the general refuse to prevent visual impacts and nuisance to the sensitive surroundings.	E 1i & 7
	F. Ecology and Fisheries No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual No environmental deficiency was identified during site inspection.	
	H. Permits/Licences No environmental deficiency was identified during site inspection.	
	I. Others No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kinson Poon		3 January 2018
Checked by	Dr. Priscilla Choy		3 January 2018

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


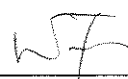
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	180110
Date	10 January 2018 (Tuesday)
Time	09:30-12:30

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
180110-F05	Unsatisfactory water quality of Wheel Washing Bay at Portion A was found. The Contractor is reminded to maintain the water quality by regular checking and cleaning.	B 10 iii & iv
180110-O02	The sedimentation tank was not well designed near Subway A. The Contractor was asked to re-design in full compliance with the Water Discharge License.	B 3 i
180110-F06	The silt and sediment of the sedimentation tank at Portion A should be disposed regularly to maintain the quality of the system.	B 3 iv
	C. Air Quality	
180110-F04	NRMMs were found without proper labels at Portion E regarding to the air quality regulation. The Contractor was reminded to check all the NRMMs before operation.	C 18
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
180110-F03	General refuse was found. It is observed that no bin was provided at Portion M for the general refuse to prevent visual impacts and nuisance to the sensitive surroundings.	E 1i & 7
180110-O01	Chemical Container was found on the ground without drip tray at Portion C. The Contractor was reminded to keep chemical container properly stored, treated and disposed.	E 9
	F. Ecology and Fisheries	
	No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kinson Poon		10 January 2018
Checked by	Dr. Priscilla Choy		10 January 2018

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

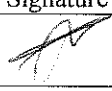
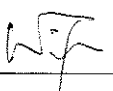
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	180116
Date	16 January 2018 (Tuesday)
Time	10:00-13:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Water Quality</i>	
180116-F09	Unsatisfactory water quality of Wheel Washing Bay at Portion A was found. The Contractor is reminded to maintain the water quality by regular checking and cleaning.	B 10 iii & iv
180116-F06	The sedimentation tank was not well designed near Subway A. The Contractor was asked to re-design in full compliance with the Water Discharge License.	B 3 i
180116-F10	The silt and sediment of the sedimentation tank at Portion A should be disposed regularly to maintain the quality of the system.	B 3 iv
180116-O02	The Contractor was reminded to avoid stagnant water at Portion M.	B 8
	<i>C. Air Quality</i>	
180116-F08	NRMMs were found without proper labels at Portion E regrading to the air quality regulation. The Contractor was reminded to check all the NRMMs before operation.	C 18
180116-O01	The Contractor was reminded to ensure the stockpiles of dusty material is cover with tarpaulin sheet at Portion M.	C7
	<i>D. Construction Noise Impact</i>	
	No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
180116-F07	General refuse was found. It is observed that no bin was provided at Portion M for the general refuse to prevent visual impacts and nuisance to the sensitive surroundings.	E 1i & 7
180116-F05	Chemical Container was found on the ground without drip tray at Portion C. The Contractor was reminded to keep chemical container properly stored, treated and disposed.	E 9
180116-O03	Stagnant water was found in the drip tray at Portion I. The Contractor was reminded to clean it up.	E 9
180116-O04	General refuse and stagnant water were found in the drip tray at Portion C. The Contractor was reminded to keep the drip tray well-maintained.	E 9
	<i>F. Ecology and Fisheries</i>	
	No environmental deficiency was identified during site inspection.	
	<i>G. Landscape & Visual</i>	
	No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kinson Poon		16 January 2018
Checked by	Dr. Priscilla Choy		16 January 2018

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	180123
Date	23 January 2018 (Tuesday)
Time	10:00-13:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
180123-F07	Unsatisfactory water quality of Wheel Washing Bay at Portion A was found. The Contractor is reminded to maintain the water quality by regular checking and cleaning.	B 10 iii & iv
180123-F08	The silt and sediment of the sedimentation tank at Portion A should be disposed regularly to maintain the quality of the system.	B 3 iv
180123-F04	The Contractor was reminded to avoid stagnant water at Portion M.	B 8
180123-O01	Stagnant water was observed accumulating behind the retaining wall at Portion C. The Contractor was reminded to remove the stagnant water regularly to prevent mosquito breeding.	B 8
180123-O02	The wastewater treatment facility was not properly connected before discharging to the storm water drains. The Contractor should review the connection for the entire wastewater treatment facility at Portion I according to the Discharge License and in full compliance with the WPCO.	B 3i
180123-R03	Wheel washing bay should be in use at Portion I. The Contractor was reminded to fill water back and implement regular visual checking for the water quality.	B 10i
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
180123-F06	General refuse was found. It is observed that no bin was provided at Portion M for the general refuse to prevent visual impacts and nuisance to the sensitive surroundings.	E 1i & 7
180123-F05	General refuse and stagnant water were found in the drip tray at Portion C. The Contractor was reminded to keep the drip tray well-maintained.	E 9
	F. Ecology and Fisheries	
	No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kinson Poon		23 January 2018
Checked by	Dr. Priscilla Choy		23 January 2018

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	180131
Date	31 January 2018 (Wednesday)
Time	10:00-13:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
180131-F07	Unsatisfactory water quality of Wheel Washing Bay at Portion A was found. The Contractor is reminded to maintain the water quality by regular checking and cleaning.	B 10 iii & iv
180131-F08	The silt and sediment of the sedimentation tank at Portion A should be disposed regularly to maintain the quality of the system.	B 3 iv
180131-F05	The Contractor was reminded to avoid stagnant water at Portion M.	B 8
180131-F02	Stagnant water was observed accumulating behind the retaining wall at Portion C. The Contractor was reminded to remove the stagnant water regularly to prevent mosquito breeding.	B 8
180131-F03	The wastewater treatment facility was not properly connected before discharging to the storm water drains. The Contractor should review the connection for the entire wastewater treatment facility at Portion I according to the Discharge License and in full compliance with the WPCO.	B 3i
180131-F04	Wheel washing bay should be in use at Portion I. The Contractor was reminded to fill water back and implement regular visual checking for the water quality.	B 10i
	C. Air Quality	
180131-O01	Excavated dusty area should be covered by impervious material or maintained wet at Portion M.	C 7
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
180131-F06	General refuse and stagnant water were found in the drip tray at Portion C. The Contractor was reminded to keep the drip tray well-maintained.	E 9
	F. Ecology and Fisheries	
	No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kinson Poon		31 January 2018
Checked by	Dr. Priscilla Choy		31 January 2018

APPENDIX H
EVENT AND ACTION PLANS

Appendix H - Event and Action Plans

Event and Action Plan for Construction Noise

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

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)**

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Air Quality			
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● The works area for site clearance shall be sprayed with water before, during and after the operation so as to maintain the entire surface wet 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Immediately before leaving a construction site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, all spraying of materials and surfaces should avoid excessive water usage 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides 	#

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet 	^
Construction Noise Impact			
S5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CH-MP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within “Recreation” (“REC”) zone and “Residential (Group C)” Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME): <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - mini excavator - mobile crane - dump truck - hand-held electric circular saw - bar bender - vibrating hammer - generator - concrete lorry mixer - lorry - vibratory poker - asphalt paver - compactor - road roller - crane mounted auger 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> - grout mixer - grout pump - drill - road ripper, excavator mounted 	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PME's where practicable: <ul style="list-style-type: none"> - air compressor - hand-held breaker 	N/A (1)
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m ² .	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	^
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures intended to be used at the site	^
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented	^
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	^
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided	^
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A

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

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation 	#
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance) 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”. 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD; 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works; 	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling. 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction. 	^
Land Contamination			
S.8.7.2 – S.8.7.3	S.7.2.2	Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD's approval.	
S.8.7.5	S.7.3.1	<p>The following control measures should be implemented when handling identified contaminated materials:</p> <ul style="list-style-type: none"> ▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; ▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; ▪ Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; ▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants. 	N/A
S.8.7.5	S.7.3.1	<p><u>Management of Contaminated Soils</u></p> <ul style="list-style-type: none"> ▪ Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers; ▪ The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site; ▪ All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area; ▪ Any vehicles transporting the material shall be suitably covered to limit potential dust emissions; ▪ Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of 	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
Ecological & Fisheries Impact			
S.9.11.4	S.8.2.2	Prior to tree felling, survey inspections should be made for their suitability for roosting bats. Once these trees have been highlighted, then appropriate checks of each tree for bats should be made prior to removal as a precautionary measure.	^
S.9.11.7	S.8.2.3 (Stage 1 only)	<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
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		be implemented practicable to minimize the noise disturbance to the foraging ardeids.	
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	^
S.10.5.4	S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	^
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	The following good work practices are recommended: <ul style="list-style-type: none"> ▪ Avoid soil storage against trees; ▪ Fence off any potentially ecologically sensitive areas; ▪ Delineation of works area to prevent encroachment onto adjacent habitats; ▪ Reinstatement of habitat after works; ▪ No on-site burning of waste; 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> ▪ Waste and refuse in appropriate receptacles; ▪ Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible; ▪ Regular ecological checks; and ▪ Silt/ Sediment/ Oil traps for drainage to prevent site run-off 	
Cultural Heritage Impact			
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
Landscape and Visual			
<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 fallen within the cycle track works area shall be incorporated in the final landscape design of this Project.	^
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree Survey Report and approval from relevant departments at that stage	
<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
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the	^

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

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

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

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

Agreement No. CE 67/2015 (HY)

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

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

Reporting Month: January 2018

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

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

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

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

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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	4.37	-	-	-	4.36	-	0.05	0.05	0.05	-	0.01
Sub-total	4.37	-	-	-	4.36	-	0.05	0.05	0.05	-	0.01
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
.
.
Total	18.365	-	-	-	18.295	0.986	0.83	0.83	0.83	-	0.45

*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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
5	2	1	1	1	10	3	3	1	1	3

*Remark: Figure to be revised if necessary

Notes:

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