Civil Engineering and Development Department

EP-510/2016 – Police Facilities in Kong Nga Po

Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Monthly Environmental Monitoring and Audit Report for October 2020

(Version 2.0)

Certified By

Ms. Ivy Tam

(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.

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

WELLAB LIMITED
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong
Tel: (852) 2898 7388 Fax: (852) 2898 7076
Website: www.wellab.com.hk

ACUITY
SUSTAINABILITY
CONSULTING LIMITED

Website: www.acityhk.com

Unit C, 11/F., Ford Glory Plaza,
Nos. 37-39 Wing Hong Street,
Cheung Sha Wan, Kowloon, HK

Tel. : (852) 2698 6833
Fax.: (852) 2698 9383

Our Ref.: PL-202103039

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
NORTH DEVELOPMENT OFFICE
UNIT 2320, LEVEL 23, TOWER 1, METROPLAZA,
223 HING FONG ROAD,
KWAI FONG, NEW TERRITORIES,
HONG KONG

Attention: Mr. William WONG

24 March 2020

Dear William,

Contract No. NDO/02/2018
Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Monthly Environmental Monitoring and Audit Report for October 2020

I refer to the email dated 16 March 2021 of the Environmental Team concerning the captioned. I have no adverse comment on the revised Monthly Environmental Monitoring and Audit Report for October 2020 (Version 2) and verify the report according to section 1.9 of Environmental Permit with permit number EP-510/2016.

Yours faithfully,

Kevin W.M. Li
Independent Environmental Checker

cc. CEDD - Andrew CHEUNG
AECOM - Gloria TANG
ET Leader – Ivy TAM

TABLE OF CONTENTS

Page

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

EXECUTIVE SUMMARY

Introduction

1. This is the 4th monthly Environmental Monitoring and Audit (EM&A) Report under the Work Contract (Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po) (the Project). This report was prepared by Wellab Limited (Wellab) under "Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po" (hereinafter called the "Service Contract"). This report documents the findings of Environmental Monitoring and Audit (EM&A) work conducted from 1st to 31st October 2020.

Summary of Construction Works undertaken during the Reporting Month

2. The major site activities undertaken in the reporting month include:

- Tree felling works
- Transplantation of *Aquilaria sinensis*
- Predrilling works
- Site formation at Portion D
- Piling works (foundation socketed H-piles for vehicular bridge)
- Retaining walls construction
- Slope upgrading works

Environmental Monitoring and Audit Progress

3. A summary of the EM&A activities in this reporting month is listed in **Table I** below:

Table I Summary Table for EM&A Activities in the Reporting Month

EM&A Activities	Date
Air Quality Monitoring	5th, 6th, 9th, 12th, 15th, 16th, 21st, 22nd, 27th, 28th October 2020
Noise Monitoring	6th, 9th, 12th, 15th, 21st, 22nd, 27th, 28th October 2020
Ecological Monitoring	8th October 2020
Environmental Site Inspection	9th, 16th, 23rd, 30th October 2020

Breaches of Action and Limit Levels

4. Summary of the environmental exceedances of the reporting month is tabulated in **Table II**.

Table II Summary Table for Events Recorded in the Reporting Month

Environmental Monitoring	Parameter	No. of Non-Project related Exceedances		No. of Exceedance related to the Construction Works of the Contract		Action Taken
		Action Level	Limit Level	Action Level	Limit Level	
Air Quality	1-hr TSP	0	0	0	0	N/A
Noise	$L_{eq(30min)}$	1	0	0	0	Refer to Appendix M

Air Quality

5. All construction air quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

6. All construction noise monitoring was conducted as scheduled in the reporting month. One Action Level exceedance was recorded due to documented complaints received in this reporting month. No Limit Level exceedance was recorded in the reporting month.

Ecological Monitoring

7. All ecological monitoring was conducted as scheduled in the reporting month. The ecological monitoring result in the reporting month is shown in **Appendix H**.

Environmental Non-Compliance

8. No environmental non-compliance was recorded in the reporting month

Environmental Complaint

9. Three environmental complaints were received in the reporting month.

Notification of Summons and Successful Prosecutions

10. No notification of summons or successful prosecutions was received in the reporting month.

Reporting Changes

11. No reporting change was made in the reporting month.

Future Key Issues

12. The major site activities for the coming three months include**:**

- Tree felling works
- Predrilling works
- Site formation at Portion D
- Retaining walls construction

- Pilling works (foundation socketed H-piles)
- Road and associated works at Kong Nga Po Road
- Slope upgrading works

13. Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality and waste management.

1 INTRODUCTION

1.1 Wellab Limited was commissioned by the Civil Engineering Development Department (CEDD) as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) works for the Work Contract (Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po) to ensure that the environmental performance of the Works Contracts comply with the requirements specified in the Environmental Permits (EPs), Environmental Impact Assessment (EIA) Report and Environmental Monitoring & Audit (EM&A) Manual of the Police Facilities in Kong Nga Po Project and other relevant statutory requirements.

Purpose of the report

1.2 This is the 4th EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1st to 31st October 2020. The major construction works for the Project commenced on 3rd July 2020.

Structure of the report

1.3 The structure of the report is as follows:

Section 1: **Introduction -** purpose and structure of the report.

Section 2: **Project Information –** summarises background and scope of the Project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting month.

Section 3: **Air Quality Monitoring –** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 4: **Noise Monitoring –** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 5: **Ecological Monitoring –** summarises the monitoring results of the monthly monitoring undertaken within the reporting month.

Section 6: **Landscape and Visual Monitoring –** summarises the audit results of the site inspection undertaken within the reporting month.

Section 7: **Environmental Site Inspection –** summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 8: **Environmental Non-conformance –** summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.

Section 9: **Future Key Issues –** summarises the impact forecast and monitoring schedule for the next three months.

Section 10: **Conclusions and Recommendations**

2 PROJECT INFORMATION

Background

2.1 The Project consists of site formation works and building works for the co-location of various police facilities in the Project site at Kong Nga Po as well as road improvement works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road. The police facilities include:

- Lo Wu Firing Range (LWFR) to be relocated from Lo Wu;
- Ma Tso Lung Firing Range (MTLFR) to be relocated from Ma Tso Lung;
- Weapons Training Facilities (WTF) and Police Driving and Traffic Training Facilities (PD&TTF) to be relocated from Fan Garden;
- Helipad to be relocated from Lo Wu;
- A Proposed Police Training Facility (PTF); and
- A new internal access road network with underpass within the Project site

2.2 The improvement works to Kong Nga Po Road between the police facilities and Man Kam To Road includes roadworks, viaduct of less than 100m between abutments, and associated works such as slopeworks and retaining walls.

2.3 In addition to the above, associated supporting infrastructure and utilities including an underground stormwater storage tank, sewage pumping station, petrol / diesel filling station, a multi-storey training complex associated with the PD&TFF, and other ancillary facilities will also be provided.

2.4 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Report (Report No.: AEIAR-201/2016) for the Project was approved under EIAO in October 2016 in accordance with the EIA Study Brief (No. ESB-276/2014) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit was issued (EP no.: EP-510/2016) by the Director of Environmental Protection (DEP) in November 2016.

2.5 The Works Contract (Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po) generally consists of site formation & infrastructure works for the co-location of various police facilities at Kong Nga Po as well as upgrading works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road (hereinafter called "the Project").

2.6 The major construction activities of the Project are site formation and infrastructure works which will include site clearance, excavation and filling, construction of access road, utilities laying and landscaping works. As such, an air quality and noise monitoring programme is recommended in the approved Environmental Monitoring and Audit (EM&A) Manual during the construction phases of this Project to monitor the expected dust and noise nuisances. Baseline air quality and noise monitoring were conducted by ET from 14th March 2020 to 2nd April 2020 to establish the background conditions of the designated sensitive receivers prior to the commencement of the Project's construction works.

2.7 The site layout plan for the Project is shown in **Figure 1**.

Project Organization

2.8 Different parties with different levels of involvement in the Project organization include:

- Project Proponent – Civil Engineering and Development Department (CEDD)
- *Supervisor / Supervisor's* Representative – AECOM
- Environmental Team (ET) – Wellab Limited
- Independent Environmental Checker (IEC) – Acuity Sustainability Consulting Limited

2.9 The key personnel contact names and numbers are summarised in **Table 2.1**.

Table 2.1 Key Contacts of the Project

Party	Role	Contact Person	Phone No.	Fax No.
Civil Engineering and Development Department, HKSAR (CEDD)	Project Proponent	Mr. Andrew Cheung	3152 3500	3547 1658
Supervisor / Supervisor's Representative (AECOM)	Chief Resident Engineer	Ms. Gloria Tang	9325 0836	3922 9797
Environmental Team (Wellab Limited)	Environmental Team Leader	Ms. Ivy Tam	2151 2090	2898 7076
Independent Environmental Checker (Acuity Sustainability Consulting Limited)	Independent Environmental Checker	Mr. Kevin Li	9779 2247	2693 9383
Contractor (Build King Construction Limited)	Site Agent	Mr. Book Kin Man	2272 3128	2528 1751
	Environmental Officer	Mr. Kyan Yan	5308 4367	

Summary of Construction Works Undertaken During Reporting Month

2.10 The major site activities undertaken in the reporting month included**:**

- Tree felling works
- Transplantation of *Aquilaria sinensis*
- Predrilling works
- Site formation at Portion D
- Piling works (foundation socketed H-piles for vehicular bridge)
- Retaining walls construction
- Slope upgrading works

Construction Programme

2.11 A copy of Contractors' construction programme is provided in **Appendix A**.

Status of Environmental Licences, Notifications and Permits

2.12 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.2**.

Table 2.2 Status of Environmental Licences, Notifications and Permits

Permit / Licence No.	Valid Period		Status
	From	To	
Environmental Permit (EP)			
EP-510/2016	N/A	N/A	Valid
Construction Noise Permit (CNP)			
GW-RN0585-20	15-8-2020	14-2-2021	Valid
GW-RN0584-20	15-8-2020	14-2-2021	Valid
GW-RN0579-20	12-8-2020	2-12-2020	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation			
EPD Ref no.: 451555	N/A	N/A	N/A
Billing Account for Construction Waste Disposal			
Account No. 7036173	24-12-2019	N/A	Valid
Registration of Chemical Waste Producer			
Waste Producer No. 5213-641-B2590-01	18-5-2020	N/A	Valid
Effluent Discharge Licence under Water Pollution Control Ordinance			
WT00035709-2020	11-5-2020	31-5-2025	Valid

Summary of EM&A Requirement

2.13 The EM&A programme requires construction noise monitoring, air quality monitoring, ecological monitoring and environmental site audits. The EM&A requirements are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event / Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

Status of Compliance with Environmental Permits Conditions

2.14 The status of compliance with Environmental Permit (EP) No. EP-510/2016 and required submission related to this Project under the EP is summarised in **Table 2.3**:

Table 2.3 Summary Table for Status of Compliance / Required Submission under EP No. EP-510/2016

EP Conditions	Submission	Submission Date	Approval Status
1.12	Notification of Commencement Date of Construction	3rd June 2020	*
2.7	Proposal on the Reporting Mechanism and Curriculum Vitae of the IEC	6th February 2020	*
2.11	Management Organizations	9th March 2020	*
2.12	Construction Works Schedule and Location Plans	20th March 2020	*
2.13 & 2.14	Detailed Vegetation Survey Report (Version 1.0)	2nd April 2020	Approved
	Detailed Vegetation Survey Report (Version 2.0)	8th May 2020	
	Detailed Vegetation Survey Report (Version 3.0)	9th July 2020	
2.4 & 2.14	Transplantation Proposal (Version 1.0)	2nd April 2020	Approved
	Transplantation Proposal (Version 2.0)	8th May 2020	
	Transplantation Proposal (Version 3.0)	9th July 2020	
2.15	Baseline Survey Report for Golden-Headed Cisticola	9th March 2020	Approved
2.16	Explanatory Statement for Revised Layout Plan of Kong Nga Po Road	10th March 2020	Approved
2.18 & 2.19	Landscape and Visual Mitigation Plan	7th April 2020	*
	Landscape and Visual Mitigation Plan (Revised Final Rev. 4)	28th September 2020	Pending for approval
2.20	Plan for Perimeter Walls/ Boundary Walls at Project Site and Side Walls of Firing Range	To be submitted at least one month before the commencement of construction of relevant part(s) of the Project	N/A
2.23	Helicopter Flight Plan	To be submitted at least one month before the commencement of operation of the Helipad	N/A
3.4	Baseline Air Quality and Noise Monitoring Report	20th April 2020	*
3.4	Baseline Monitoring Report for Landscape and Visual Resources	21st April 2020	*

Remarks: * Approval not required in EP-510/2016
N/A – Not applicable at this stage

3 AIR QUALITY MONITORING

Monitoring Requirements

3.1 In accordance with the EM&A Manual, impact 1-hour TSP monitoring was conducted to monitor the air quality for the Works Contracts. **Appendix B** shows the established Action/Limit Levels for the air quality monitoring works.

3.2 Impact 1-hour TSP monitoring was conducted for at least three times every 6 day at one air quality monitoring station.

Monitoring Location

3.3 According to Section 2.2.5 of the EM&A Manual, impact air quality monitoring was conducted at the two designated monitoring stations for the Project as shown in **Figure 2**. **Table 3.1** describes the location of the air quality monitoring stations.

Table 3.1 Location for Air Quality Monitoring Stations

Monitoring Station	Location of Measurement
AM1	Village House, Kong Nga Po
AM2	Village House, Kong Nga Po

Monitoring Equipment

3.4 **Table 3.2** summarises the equipment used in the impact air quality monitoring programme. Copies of calibration certificates are attached in **Appendix C**.

Table 3.2 Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Dust Monitor	AEROCET-831	5

3.5 Meteorological information was extracted from "Hong Kong Observatory - Ta Kwu Ling Weather Station" as the alternative method to obtain representative wind data. For Ta Kwu Ling Weather Station, it is located nearby the Project site and situated at approximately 15m above mean sea level. The station's wind data monitoring equipment is set above the existing ground ten meters in compliance with the general setting up requirement. Furthermore, this station also provides other meteorological information, such as the humidity, rainfall, air pressure and temperature etc. The general meteorological conditions and the meteorological data at Ta Kwu Ling Weather Station is presented in **Appendix G**.

3.6 The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staffs during the monitoring day.

Monitoring Parameters, Frequency and Duration

3.7 **Table 3.3** summarises the monitoring parameters and frequencies of impact dust monitoring during the Works Contracts activities. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 3.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times/ 6 days

Monitoring Methodology and QA/QC Procedure

1-hour TSP Air Quality Monitoring

Instrumentation

3.8 Direct reading dust meter was deployed for the air quality monitoring as shown in **Table 3.2**.

3.9 The measuring procedures of the dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(AEROCET-831)

- The dust meter is placed at least 1.3 meters above ground.
- Remove the red rubber cap from the AEROCET-831 inlet nozzle.
- Turn on the power switch that is located on the right side of the AEROCET-831.
- On power up the product intro screen is displayed for 3 seconds. The intro screen displays the product name and firmware version.
- Then the main counter screen will be displayed.
- Press the START button. Internal vacuum pump start running. After 1 minute the pump will stop and the 0.5µm and 5µm channels will show the cumulative counts of particles larger than 0.5µm and 5µm per cubic foot.
- The AEROCET-831 is now checked out and ready for use.
- To switch off the AEROCET-831 power to stop the measuring after sampling.
- Information such as sampling date, time, and display value and site condition were recorded during the monitoring period.

Maintenance/Calibration

3.10 The following maintenance/calibration was required for the direct dust meters:

- Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

Results and Observations

3.11 The monitoring results for 1-hour TSP monitoring are summarised in **Table 3.4**. Detailed monitoring results and graphical presentations of 1-hour TSP monitoring results are shown in **Appendix E**.

Table 3.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	Concentration (µg/m³)		Action Level, µg/m³	Limit Level, µg/m³
	Average	Range		
AM1	154.4	98.1 – 202.0	308	500
AM2	105.8	67.7 – 153.3	311	

3.12 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances were recorded.

3.13 According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are shown in **Table 3.5**:

Table 3.5 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Source
AM1	Breaker, road traffic, backhoe
AM2	Road traffic

Event and Action Plan

3.14 Should project-related non-compliance of the criteria occur, action in accordance with the Action Plan in **Appendix I** shall be carried out.

4 NOISE MONITORING

Monitoring Requirements

4.1 In accordance with EM&A Manual, construction noise monitoring was conducted in terms of the A-weighted equivalent continuous sound pressure level (Leq) to monitor the construction noise arising from the construction activities. 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/Limit Levels for the environmental monitoring works.

Monitoring Location

4.2 According to Section 3.2.3 of the EM&A manual, impact noise monitoring was conducted at fourteen designated noise monitoring stations as shown in **Figure 3**. **Table 4.1** describes the locations of the noise monitoring stations.

Table 4.1 Location of Noise Monitoring Stations

Monitoring Station	Location of Measurement
NM1	Village House, Sha Ling
NM2	Village House, Sha Ling
NM3	Village House No. 248, Sha Ling
NM4	Village House, Sha Ling
NM5	*Village House No. 270, Sha Ling
NM6	Village House, Sha Ling
NM7	Village House, Sha Ling
NM8	Village House, Sha Ling
NM9	Village House, Kong Nga Po
NM10	Village House, Kong Nga Po
NM11	Village House, Kong Nga Po
NM12	Village House, Kong Nga Po
NM13	Village House, Kong Nga Po
NM14	Village House, near Man Kam To Road

Note: *The location of NM5 as shown in Figure 3.1 of EM&A Manual and Figure 4.2 of the EIA Report is Village House No.270, Sha Ling, not Village No. 272, Sha Ling according to https://www.map.gov.hk/gm/map/s/B/1107625418

Monitoring Equipment

4.3 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 (Leq) and percentile sound pressure level (Lx) that

also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 4.2** summarises the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	SVAN 957, SVAN 977, BSWA 308 and BSWA 801	6
Acoustical Calibrator	SV30A	3

Monitoring Parameters, Frequency and Duration

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

Table 4.3 Noise Monitoring Parameters, Duration and Frequency

Monitoring Stations	Parameter	Duration	Frequency	Measurement
NM1	$L_{10(30\ min.)}$ dB(A)[2] $L_{90(30\ min.)}$ dB(A)[2] $L_{eq(30\ min.)}$ dB(A)[2] (as six consecutive $L_{eq,\ 5min}$ readings)	0700-1900 hrs on normal weekdays	Once per week	Free field[1]
NM2				Free field[1]
NM3				Facade
NM4				Facade
NM5				Facade
NM6				Free field[1]
NM7				Facade
NM8				Free field[1]
NM9				Free field[1]
NM10				Free field[1]
NM11				Facade
NM12				Facade
NM13				Free field[1]
NM14				Free field[1]

Remarks:
[1]: Correction of +3dB (A) for Free-field Measurement.
[2]: A-weighted equivalent continuous sound pressure level (L_{eq}). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.
L_{10} is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L_{10}.
L_{90} is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

Monitoring Methodology and QA/QC Procedures

4.5 The monitoring procedures are as follows:

- The sound level meter was set on a tripod at a point 1m from the exterior of the noise sensitive facade and at the position of 1.2m above the ground;
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. Free field noise levels was 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
— time measurement	: $L_{eq(30\ min.)}$ dB(A) (as six consecutive $L_{eq,\ 5min}$ readings) during non-restricted hours (i.e. 0700-1900 hrs on normal weekdays)

- 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 was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re- calibration or repair of the equipment;
- During the monitoring period, the L_{eq}, L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record during measurement period should be provided; and
- Noise monitoring was 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. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

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

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

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

Results and Observations

4.9 The noise monitoring results are summarised in **Table 4.4**. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix F**. The weather information for the reporting month is summarised in **Appendix G**.

Table 4.4 Summary Table of Noise Monitoring Results during the Reporting Month

Monitoring Station	Range $L_{eq\ (30\ min)}$ dB(A)	Baseline Level dB(A)	Limit Level dB(A)
NM1[1]	53.8 – 57.4	54.9	75.0
NM2[1]	52.7 – 60.0	56.7	
NM3	53.2 – 54.8	54.5	
NM4	54.9 – 64.2	58.7	
NM5	56.6 – 61.3	57.0	
NM6[1]	51.9 – 62.1	56.0	
NM7	46.6 – 53.9	49.8	
NM8[1]	50.0 – 59.0	57.6	
NM9[1]	55.4 – 62.5	55.9	
NM10[1]	55.1 – 57.9	52.8	
NM11	45.9 – 55.1	46.4	
NM12	51.3 – 61.0	54.7	
NM13[1]	49.8 – 60.4	61.3	
NM14[1]	52.8 – 59.7	59.6	

Remarks:
[1]: Correction of +3dB (A) for Free-field Measurement.

4.10 All noise monitoring was conducted as scheduled in the reporting month. One Action Level exceedance was recorded due to the documented complaints received in this reporting month. No Limit Level exceedance was recorded in the reporting month. The summary of exceedance record in reporting month is shown in **Appendix J**.

4.11 According to our field observations, the major noise sources identified at the designated noise monitoring stations in the reporting month are as follows:

Table 4.5 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source
NM1	Road traffic
NM2	Road traffic
NM3	Road traffic
NM4	Road traffic, excavator, mobile crane, breaker, tree felling works
NM5	Road traffic, other construction site (loading and unloading)
NM6	Road traffic, excavator, tree felling works
NM7	Road traffic, tree felling works
NM8	Road traffic
NM9	Road traffic, excavator
NM10	Road traffic, breaker, backhoe, mobile crane, piling
NM11	Road traffic
NM12	Road traffic, excavator, other construction site (crane)
NM13	Road traffic
NM14	Road traffic

Event and Action Plan

4.12 Should any project related non-compliance of the criteria occur, action in accordance with the Action Plan in **Appendix I** shall be carried out.

5 ECOLOGICAL MONITORING

Monitoring of Flora Species of Conservation Interest

5.1 As required under Section 8.3.2.1 of EM&A Manual, monitoring of flora species of conservation interest was conducted by ET on monthly basis to make sure that the flora species of conservation interest identified in the detailed vegetation survey are not affected by the construction activities of the Project.

5.2 The purpose of the monitoring is to monitor the timely implementation of proper environmental management practices and mitigation measures for the retained and transplanted individuals of flora species of conservation interest. The implementation of erection and maintenance of the temporary protective fence enclosing the flora species of conservation interest was reviewed for the effectiveness. The conditions of the individuals of flora species of conservation interest were recorded.

Results and Observations

5.3 Monthly monitoring of flora species of conservation interest was conducted on 8th October 2020. The flora species of conservation interest identified under the detailed vegetation survey include *Brainea insignis*, *Spiranthes sinensis*, *Keteleeria fortunei* and *Aquilaria sinensis*. Temporary protective fence was properly erected and maintained for enclosing the flora species of conservation interest. No construction activity such as material storage was observed at the location of the flora species of conservation interest. The implementation of protection measures as stated in Transplantation Proposal was inspected. The ecological monitoring result and status of implementation of protection measures are presented in **Appendix H**.

5.4 In addition, post-transplantation monitoring was conducted by the Contractor for the transplanted species to inspect the health condition of the plants according to approved transplantation proposal. The post-transplantation monitoring was conducted once per week in the first three months (June to August 2020) and once per month starting from September 2020 after the transplantation of *Brainea insignis*, *Spiranthes sinensis* from 21 to 26 May 2020. The transplantation of *Aquilaria sinensis* were conducted from 3rd to 19th October 2020. The post-transplantation monitoring for *Aquilaria sinensis* will be conducted once per week in the first three month (October to January 2020) and once per month starting from February 2020. No sign of construction activity within and nearby the receptor site and no environmental change of receptor site was identified. The post-transplantation monitoring records were submitted to the *Supervisor*, ET and IEC for review and record.

Mitigation Measure for Golden-headed Cisticola

5.5 According to EP Condition 2.15, a baseline survey-for Golden-headed Cisticola for the Project was conducted and the baseline survey report was submitted. The mitigation measures detailed in the documents are recommended to minimise the noise, light and water quality impact from construction works to avifauna. Good site practice measures shall be implemented throughout the construction period. The recommended mitigation measures are summarised as following:

Noise

- Silencers or mufflers on well-maintained construction equipment should be utilized and properly maintained during the construction program
- Noise enclosure or acoustic shed should be effectively utilized, where practicable
- Machines or equipment known to emit noise or light strongly in one direction should, wherever possible, be orientated the noise away from the adjacent habitat

Light

- Adjusting the outdoor lighting to lower intensity
- Use of directional lighting to avoid light spill into sensitive areas
- Control/timing of lighting periods of some facilities, particularly those close to the ecological sensitive receivers

Water:

- Proper drainage system installed to collect and dispose rainwater.
- Installation of sediment/rubbish trapping facilities (e.g. catch pits or sand/silt traps to contain the increase in suspended solids and materials in the storm water drainage system so as to avoid pollutants being washed out during heavy rainstorms)

Good Site Practice Measures

- Placement of stockpiling into designated area should be selected at disturbed area in order to minimize the disturbance to wildlife
- Open fire should be strictly prohibited
- The boundary of project boundary should be clearly demarcated
- General drainage system arrangement should include sediment and oil trapper to collect the site run-off
- Waste bin should be provided to collect the general refuse and construction waste

5.6 Site audit were conducted by ET on weekly basis to monitor the timely implementation of the recommended mitigation measures by the Contractor on the Contract site. The observations are summarised in **Table 7.1** and the implementation status is given in **Appendix K**.

Precautionary Measure for Butterfly Species of Conservation Interest

5.7 According to EP Condition 2.21, with consideration of minimizing impact on butterfly species of conservation interest recorded at the grassland in the Project site, planting of common grass species which are the larval food plants for butterfly species such as Small Three-Ring are included in Landscape and Visual Mitigation Plan.

5.8 The re-establishment of grassland areas in the Project shall be implemented before Commencement of Operation of the Project. Details of the plant species as larval food plants of butterflies including design and implementation arrangement will be further submitted under ArchSD's building works contract.

Precautionary Measures to Minimize Indirect Disturbance on Ecology

5.9 In accordance with Section 9.7.3 of EIA Report, mitigation measures for air, noise, water,

waste and landscape aspects could act as precautionary measures to prevent and minimize any indirect disturbance impact or pollution arisen from the construction activities on the local ecology and offsite habitats. Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Contract site and the observations are summarised in Section 7.3.

6 LANDSCAPE AND VISUAL MONITORING

Monitoring Requirements

6.1 The EIA Report has recommended mitigation measures for landscape and visual resources to be undertaken during the construction and operation phases of the Project.

6.2 These measures include the consideration of a number of development options and the provision of mitigation measures to directly offset unavoidable impacts. The measures include strategies for reducing, offsetting and compensating impacts during construction and operation phases according to Section 10.13 in EIA Report.

6.3 The implementation and maintenance of landscape compensatory planting measures is a key aspect of this and shall be checked to ensure that they are fully realised and that potential conflicts between the proposed landscape measures and any other project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures. In addition, implementation of the mitigation measures recommended by the EIA shall be monitored throughout the construction phase site audit programme.

6.4 Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted by ET during weekly site audit. The observation and recommendations made during the audit sessions are summarised in **Table 7.1**. The implementation status is given in **Appendix K**.

7 ENVIRONMENTAL SITE INSPECTION

Site Audits

7.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Contract site.

7.2 Site audits were conducted on 9th, 16th, 23rd and 30th October 2020 in the reporting month. A joint site audit with the representative of the *Supervisor*'s Representative, the Contractor and IEC was carried out on 23rd October 2020.

7.3 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in **Table 7.1**.

Table 7.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations	Follow Up Action
Air Quality	9/10/2020	To enhance dust suppression measure at exposed area at Portion D.	Rectification was in progress. Follow-up action is needed to be reviewed.
	16/10/2020	Reminder Keep implement sufficient dust suppression measures for the exposed site area, stockpiles of dusty materials, loading and unloading activities etc.	Improvement/Rectification was observed during follow-up audit session on 23/10/2020.
	23/10/2020	Reminder Contractor was reminded to display valid NRMM label on regulated machinery at Portion C and dead end road near Platform E.	Improvement/Rectification was observed during follow-up audit session on 30/10/2020.
	30/10/2020	Reminder Grouting machine should be sheltered on the top and the three sides.	Follow-up action is needed to be reported in the following month.
Construction Noise Impact	--	No environmental deficiency was identified during the reporting month.	--
Water Quality	9/10/2020	To enhance sediment control measure at DA-M Bay 30-39.	Improvement/Rectification was observed during follow-up audit session on 16/10/2020.
	16/10/2020	Reminder Properly review the capacity of the sedimentation facilities at Portion C to ensure all site discharge is treated comply with the WPCO license.	Improvement/Rectification was observed during follow-up audit session on 23/10/2020.
	23/10/2020	Reminder Cut-off drain at entrance of dead end road should be regularly cleared to avoid overflow.	Rectification was in progress. Follow-up action is needed to be reviewed.

Parameters	Date	Observations	Follow Up Action
	30/10/2020	Reminder To enhance sediment control measure at edge at Bay 43.	Follow-up action is needed to be reported in the following month.
	30/10/2020	Reminder Cut-off drain at entrance of dead end road should be regularly cleared to avoid overflow.	Follow-up action is needed to be reported in the following month.
Waste/ Chemical Management	23/10/2020	Reminder To regularly clear the drip tray at Portion C and properly treat the oily water as chemical waste.	Improvement/Rectification was observed during follow-up audit session on 30/10/2020.
Landscape and Visual	23/10/2020	Reminder Contractor was reminded to avoid stockpiling near retained trees for tree protection. (at dead end road)	Rectification was in progress. Follow-up action is needed to be reviewed.
	30/10/2020	Reminder Contractor was reminded to avoid stockpiling near retained trees for tree protection. (at dead end road)	Follow-up action is needed to be reported in the following month.
Ecology	--	No environmental deficiency was identified during the reporting month.	--
Permit/Licences	--	No environmental deficiency was identified during the reporting month.	--

Implementation Status of Environmental Mitigation Measures

7.4 According to the EIA Report, Environmental Permit and the EM&A Manual 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 K**.

Solid and Liquid Waste Management Status

7.5 In accordance with the EM&A Manual, waste management was audited during weekly site audit to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project and the relevant legislative and contractual requirements. Waste management practice including waste handling, storage, transportation and disposal were audited.

7.6 The Contractor have nominated on-site Environmental Officers to oversee the environmental management, pollution control measures, good site practices and training of site personnel in waste management. Proactive measures have been undertaken to make use of construction and demolition (C&D) materials to minimize the waste generated. On-site sorting and screening of excavated materials have been carried out to recover any recyclable portions. Inert C&D materials were used on-site for backfilling works and hard paving of haul road. In addition, inert C&D materials generated from excavation works were reused as fill materials in other local projects. The surplus inert C&D materials were disposed of at the Government's public fill reception facilities (PFRFs) for beneficial use by other projects. In order to monitor the disposal of inert and non-inert C&D materials and to control fly-tipping, every excavated materials before leaving the site are weighted by a weight bridge and Trip Ticket System is

strictly followed.

7.7 The Contractors are advised to minimize the wastes generated through the recycling or reusing. All mitigation measures stipulated in the EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures are summarised in **Appendix K**.

7.8 Waste generated from this Project includes inert C&D materials and non-inert C&D materials. Non-inert C&D materials are made up of general refuse and waste that cannot be reused or recycle and has to be disposed of at the designated landfill sites. The amount of wastes generated by the construction works of the Project during the reporting month is shown in **Appendix L**.

8 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

8.1 One Action Level exceedance for noise monitoring was recorded due to the documented complaints received in this reporting month. No exceedance of Limit Level of construction noise was recorded in the reporting month.

8.2 No exceedance of Action and Limit Levels of air quality was recorded in the reporting month.

8.3 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix I** be carried out. The summary of exceedance record in reporting month is shown in **Appendix J**.

Summary of Environmental Non-Compliance

8.4 No environmental non-compliance was recorded in the reporting month.

Summary of Environmental Complaint

8.5 In accordance with the EM&A Manual, Section 11.3, complaints should be referred to the ET for action. During the complaint investigation works, the ET and IEC as established according to EP Condition 2.1 and 2.6 can carry out *Ad-hoc* site inspections to identify the source of the complaint, review the effectiveness of the Contractor's remedial measures and the updated situation once received the complaint. In addition, additional monitoring and audit can also be arranged immediately to verify the situation if necessary. ET and IEC will also oversee the circumstances that leading to the complaint do not recur. Moreover, ET and IEC can cooperate efficiently with the Contractor and *Supervisor* on site for completion of the investigation.

8.6 In October 2020, three environmental complaints about water and noise issue were received in the reporting month. Complaint investigation were being conducted by ET and IEC in accordance with the EM&A Manual of the Project. The findings of investigation for the complaint will be reported in the next Monthly EM&A Report. The Cumulative Complaint Log since the commencement of the Project is presented in **Appendix M**.

Summary of Environmental Summon and Successful Prosecution

8.7 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution since the commencement of the Project is presented in **Appendix N**.

9 FUTURE KEY ISSUES

Key Issues in the Coming Two Months

9.1 The tentative construction programme for the Project is provided in **Appendix A**. The major construction activities undertaken in the coming three months will include:

- Tree felling works
- Predrilling works
- Site formation at Portion D
- Retaining walls construction
- Pilling works (foundation socketed H-piles)
- Road and associated works at Kong Nga Po Road
- Slope upgrading works

9.2 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality, waste management and ecology. The major site activities, potential environmental impacts and recommended mitigation measures for the coming three months is shown in **Appendix O**.

Monitoring Schedule for the Next Month

9.3 The tentative environmental monitoring schedule for the next month is shown in **Appendix D**.

10 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

10.1 This Monthly EM&A Report presents the EM&A work undertaken in October 2020 in accordance with EM&A Manual.

10.2 One Action Level exceedance for noise monitoring was recorded due to the documented complaints received in this reporting month. No exceedance of Limit Level of construction noise was recorded in the reporting month.

10.3 No exceedance of Action and Limit Levels of air quality was recorded in the reporting month.

10.4 Environmental site inspections were conducted on 9th, 16th, 23rd and 30th October 2020 by ET in the reporting month. No environmental non-compliance was recorded in the reporting month.

10.5 Three environmental complaints and no notification of summons or successful prosecutions were received in the reporting month.

10.6 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

10.7 According to the environmental audits performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To check and display valid NRMM label on regulated machinery;
- To enhance the dust suppression measures such as water spraying on all haul roads, exposed work site area and stockpile of soil; and
- To provide dust mitigation measures for dusty work like grouting during operation.

Construction Noise Impact

- Regular inspection and maintenance of plant and equipment in good condition;
- Deployment of quality powered mechanical equipment as possible; and
- Deployment of noise isolating mat and noise barrier for noisy work.

Water Impact

- Regular clearance of sedimentation tank and drainage system to avoid any chance of overflowing.
- Regular inspection and maintenance on water pump and wastewater treatment facilities to make sure they are in good condition;
- Maintenance and inspection on drainage system and sediment control measure before

rainstorm; and

- To keep review on and enhance the sediment control measures regarding the storm water management, especially during the rainy season.

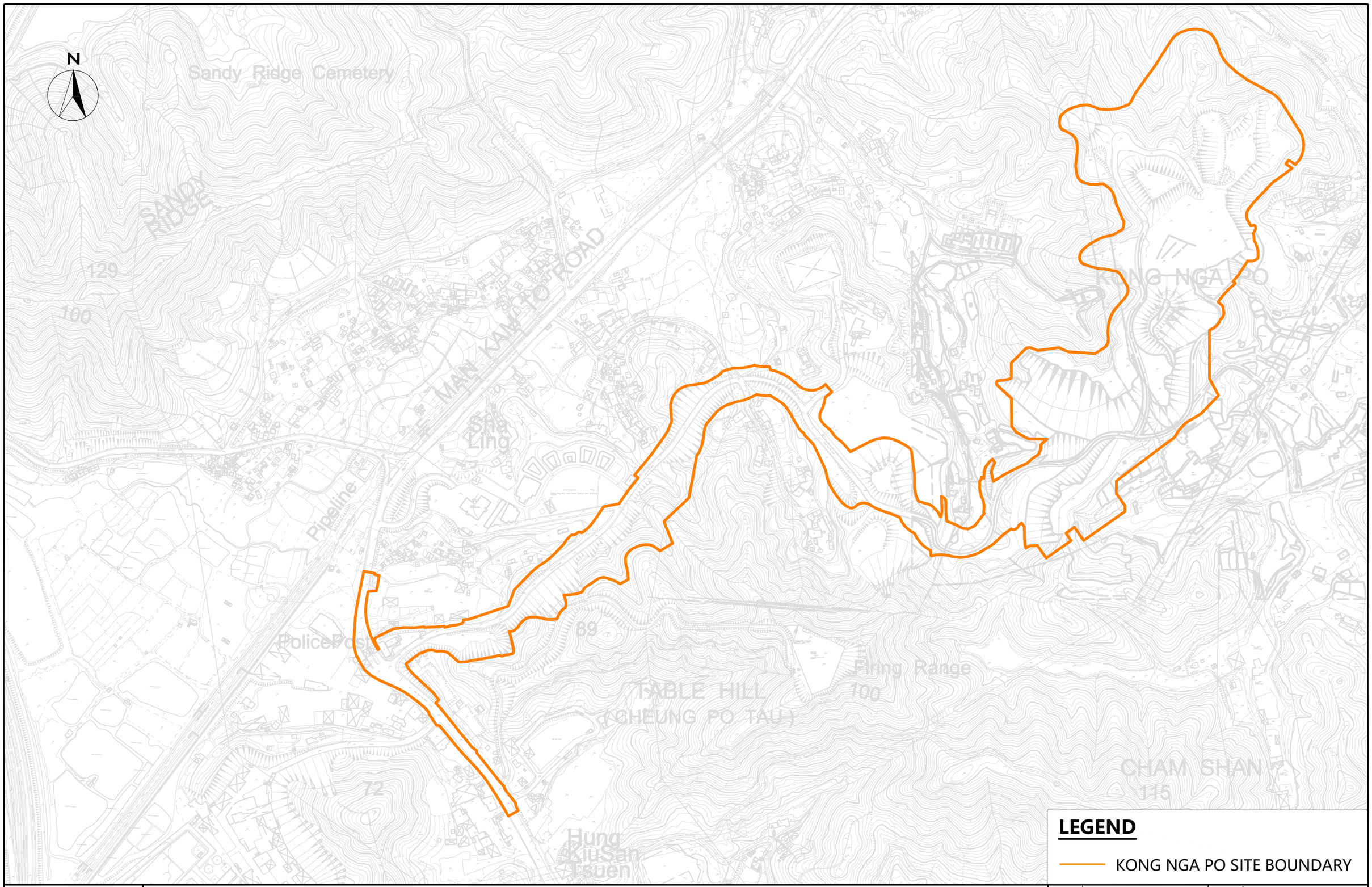
Waste/Chemical Management

- To maintain the drip tray well to prevent oil and chemical leakage.

Landscape and Visual

- To avoid stockpiling near retained trees and protect the retained trees carefully.

FIGURE(S)



WELLAB

Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Site Layout Plan

SCALE	A3 @1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	FIGURE No. 1	REV –

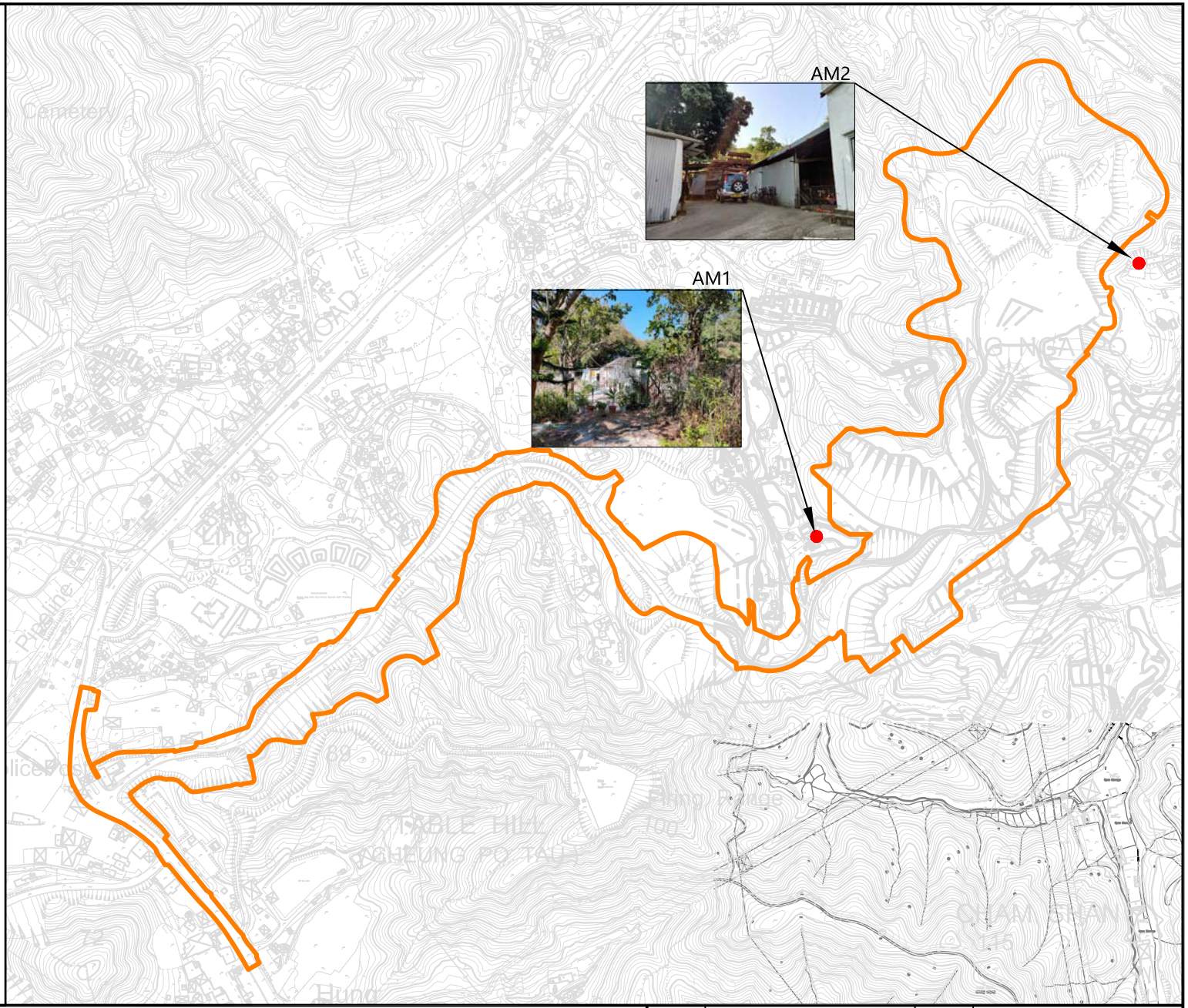
N

LEGEND

SITE BOUNDARY

AIR QUALITY MONITORING STATIONS

AIR QUALITY MONITORING STATIONS	
I.D	Description
AM1	Village House, Kong Nga Po
AM2	Village House, Kong Nga Po



WELLAB

Service Contract No. NDO 07/2019

Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Air Quality Monitoring Stations

SCALE	A4 @ 1:50000	DATE	JUL 2020
CHECK	IT	DRAWN	NL
JOB No.	WMA20001	FIGURE NO. 2	REV –

LEGEND

SITE BOUNDARY

NOISE MONITORING STATIONS

NOISE MONITORING STATIONS	
I.D	Description
NM1	Village House, Sha Ling
NM2	Village House, Sha Ling
NM3	Village House No. 248, Sha Ling
NM4	Village House, Sha Ling
NM5	Village House No. 270, Sha Ling
NM6	Village House, Sha Ling
NM7	Village House, Sha Ling
NM8	Village House, Sha Ling
NM9	Village House, Kong Nga Po
NM10	Village House, Kong Nga Po
NM11	Village House, Kong Nga Po
NM12	Village House, Kong Nga Po
NM13	Village House, Kong Nga Po
NM14	Village House, near Man Kam To Road













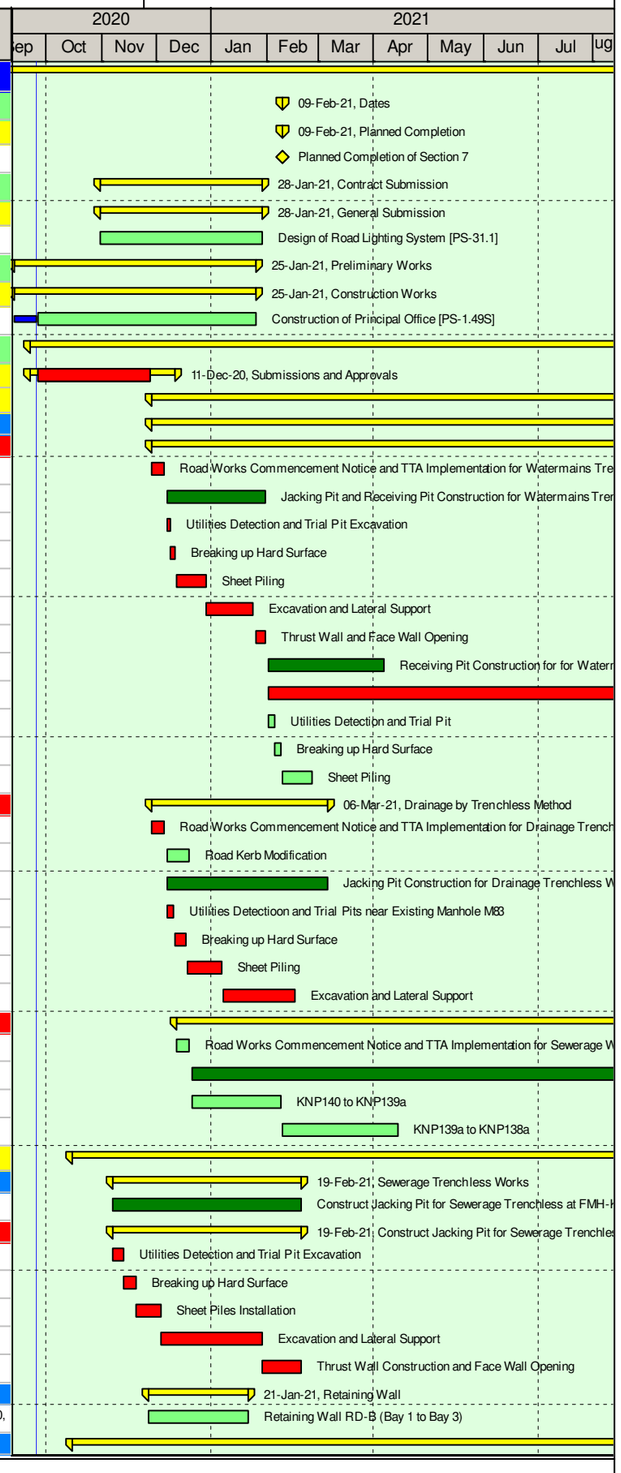

NM13 NM14 NM4 NM6 NM7 NM11 NM12 NM3 NM2 NM5 NM8 NM9 NM10 NM1

N

WELLAB	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Noise Monitoring Stations	SCALE: A4 @ 1:50000	DATE: JUL 2020
		CHECK: IT	DRAWN: NL
		JOB No.: WMA20001	FIGURE NO.: 3
			REV: –

APPENDIX A
CONSTRUCTION PROGRAMME

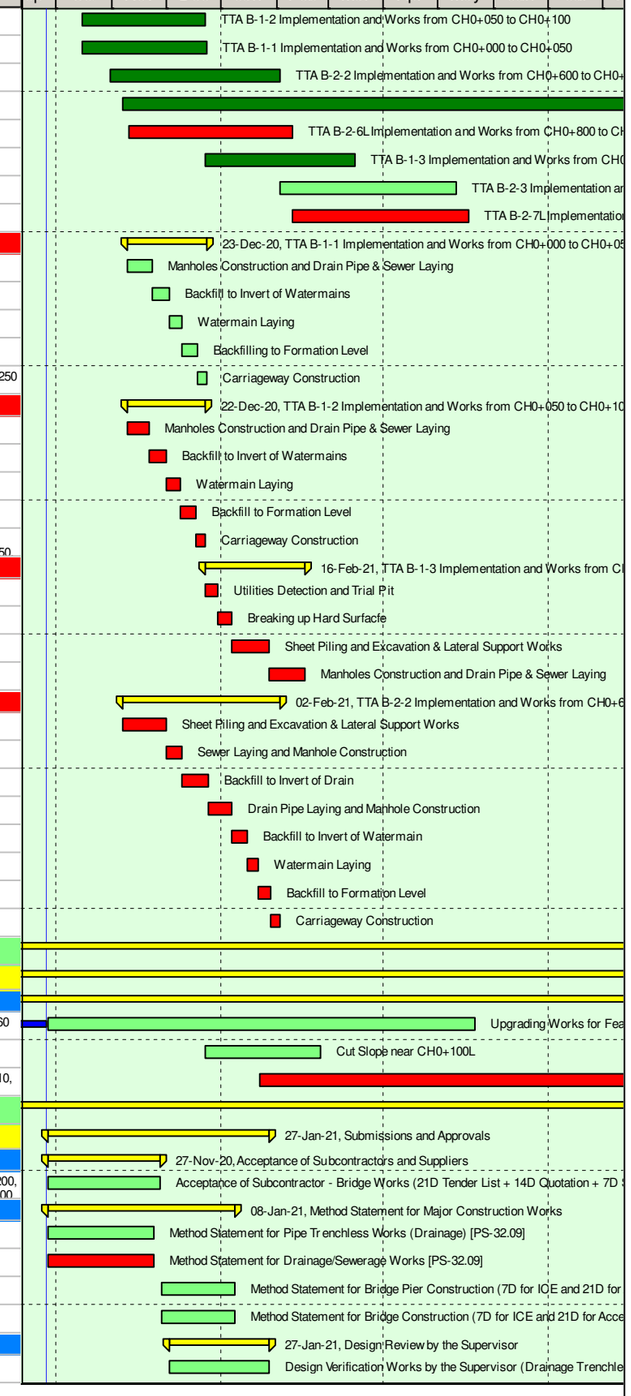
Activity ID	Activity Name	Calendar	Original Duration	Actual Duration	Total Float	Start	Finish	Activity % Complete	Predecessors	Successors
Site Formation and Infrastructure Works for Police Facilities in Kon			1015	257	26	27-Nov-19 A	15-Jan-23			
Dates		ND201801_7d	0	0	28	09-Feb-21	09-Feb-21			
Planned Completion		ND201801_7d	0	0	28	09-Feb-21	09-Feb-21			
PC.S7	Planned Completion of Section 7	ND201801_7d	0	0	28		09-Feb-21	0%		S7.R1
Contract Submission		ND201801_7d	90	0	750	31-Oct-20	28-Jan-21			
General Submission		ND201801_7d	90	0	750	31-Oct-20	28-Jan-21			
GS-1750	Design of Road Lighting System [PS-31.1]	ND201801_7d	90	0	750	31-Oct-20	28-Jan-21	0%	GS-1700	
Preliminary Works		ND201801_6d	140	11	610	14-Sep-20 A	25-Jan-21			
Construction Works		ND201801_6d	140	11	610	14-Sep-20 A	25-Jan-21			
PW.C-1100	Construction of Principal Office [PS-1.49S]	ND201801_6d	140	11	610	14-Sep-20 A	25-Jan-21	30%	PW.MS-1020, PW.C-1250, AD-P6, PW.MS-1010.02	
Works in KD1 and KD2 (Portion A, A1, B, B1, & B2)			403	14	305	22-Sep-20 A	07-Feb-22			
Submissions and Approvals			63	14	645	22-Sep-20 A	11-Dec-20			
Portion Aand A1		ND201801_6d	352	0	305	28-Nov-20	07-Feb-22			
Road, Drain and Utilities Works		ND201801_6d	352	0	305	28-Nov-20	07-Feb-22			
Watermains by Trenchless Method		ND201801_6d	352	0	-26	28-Nov-20	07-Feb-22			
KD.A.RD-1400	Road Works Commencement Notice and TTA Implementation for Watermains Trenchless Works	ND201801_6d	7	0	-26	28-Nov-20	05-Dec-20	0%	KD.AS-1500, KD.XP-1150	KD.A.RD-1450.01, KD.A.RD-1470.01
KD.A.RD-1450	Jacking Pit and Receiving Pit Construction for Watermains Trenchless at Man Kam To Road	ND201801_6d	45	0	-26	07-Dec-20	30-Jan-21	0%	KD.A.RD-1450.01, KD.A.RD-1450.80	
KD.A.RD-1450.01	Utilities Detection and Trial Pit Excavation	ND201801_6d	2	0	-26	07-Dec-20	08-Dec-20	0%	KD.A.RD-1400	KD.A.RD-1450, KD.A.RD-1450.10
KD.A.RD-1450.10	Breaking up Hard Surface	ND201801_6d	3	0	-26	09-Dec-20	11-Dec-20	0%	KD.A.RD-1450.01	KD.A.RD-1450.20
KD.A.RD-1450.20	Sheet Piling	ND201801_6d	12	0	-26	12-Dec-20	28-Dec-20	0%	KD.A.RD-1450.10	KD.A.RD-1450.30
KD.A.RD-1450.30	Excavation and Lateral Support	ND201801_6d	22	0	-26	29-Dec-20	23-Jan-21	0%	KD.A.RD-1450.20	KD.A.RD-1450.80
KD.A.RD-1450.80	Thrust Wall and Face Wall Opening	ND201801_6d	6	0	-26	25-Jan-21	30-Jan-21	0%	KD.A.RD-1450.30	KD.A.RD-1500, KD.A.RD-1450
KD.A.RD-1470	Receiving Pit Construction for for Watermains Trenchless at Man Kam To Road	ND201801_6d	50	0	224	01-Feb-21	06-Apr-21	0%	KD.A.RD-1470.01, KD.A.RD-1470.80	
KD.A.RD-1500	DN400 Watermains by Trenchless Method	ND201801_6d	300	0	-26	01-Feb-21	07-Feb-22	0%	KD.A.RD-1470.80, KD.A.RD-1450.80	KD.A.RD-1550
KD.A.RD-1470.01	Utilities Detection and Trial Pit	ND201801_6d	4	0	224	01-Feb-21	04-Feb-21	0%	KD.A.RD-1450.80, KD.A.RD-1400	KD.A.RD-1470, KD.A.RD-1470.10
KD.A.RD-1470.10	Breaking up Hard Surface	ND201801_6d	3	0	224	05-Feb-21	08-Feb-21	0%	KD.A.RD-1470.01	KD.A.RD-1470.20
KD.A.RD-1470.20	Sheet Piling	ND201801_6d	12	0	224	09-Feb-21	25-Feb-21	0%	KD.A.RD-1470.10	KD.A.RD-1470.30
Drainage by Trenchless Method		ND201801_6d	79	0	578	28-Nov-20	06-Mar-21			
KD.A.RD-1700	Road Works Commencement Notice and TTA Implementation for Drainage Trenchless Works at MKTR North Bound	ND201801_6d	7	0	-10	28-Nov-20	05-Dec-20	0%	KD.AS-1550, KD.XP-1150	KD.A.RD-1750.01, KD.A.RD-2500
KD.A.RD-2500	Road Kerb Modification	ND201801_6d	12	0	638	07-Dec-20	19-Dec-20	0%	KD.A.RD-1700	
KD.A.RD-1750	Jacking Pit Construction for Drainage Trenchless Works	ND201801_6d	72	0	-10	07-Dec-20	06-Mar-21	0%	KD.A.RD-1750.01, KD.A.RD-1750.40	
KD.A.RD-1750.01	Utilities Detectioon and Trial Pits near Existing Manhole M83	ND201801_6d	4	0	-10	07-Dec-20	10-Dec-20	0%	KD.A.RD-1700, KD.AS-1550	KD.A.RD-1750, KD.A.RD-1750.10
KD.A.RD-1750.10	Breaking up Hard Surface	ND201801_6d	6	0	-10	11-Dec-20	17-Dec-20	0%	KD.A.RD-1750.01	KD.A.RD-1750.20
KD.A.RD-1750.20	Sheet Piling	ND201801_6d	14	0	-10	18-Dec-20	06-Jan-21	0%	KD.A.RD-1750.10	KD.A.RD-1750.30
KD.A.RD-1750.30	Excavation and Lateral Support	ND201801_6d	32	0	-10	07-Jan-21	16-Feb-21	0%	KD.A.RD-1750.20	KD.A.RD-1750.40
Sewerage		ND201801_6d	307	0	102	12-Dec-20	23-Dec-21			
KD.A.RD-1900	Road Works Commencement Notice and TTA Implementation for Sewerage Works	ND201801_6d	7	0	102	12-Dec-20	19-Dec-20	0%	KD.AS-1650, KD.XP-1150	KD.A.RD-1950.01
KD.A.RD-1950	Sewerage Works adjacent to Footpath of Man Kam To Road	ND201801_6d	300	0	102	21-Dec-20	23-Dec-21	0%	KD.A.RD-1950.40, KD.A.RD-1950.01	
KD.A.RD-1950.01	KNP140 to KNP139a	ND201801_6d	40	0	102	21-Dec-20	08-Feb-21	0%	KD.A.RD-1900, KD.AS-1650	KD.A.RD-1950.10, KD.A.RD-1950
KD.A.RD-1950.10	KNP139a to KNP138a	ND201801_6d	50	0	102	09-Feb-21	14-Apr-21	0%	KD.A.RD-1950.01	KD.A.RD-1950.20
Portion B, B1 and B2)		ND201801_6d	382	0	75	15-Oct-20	27-Jan-22			
Sewerage Trenchless Works		ND201801_6d	84	0	0	07-Nov-20	19-Feb-21			
KD.B.TR-1000	Construct Jacking Pit for Sewerage Trenchless at FMH-KNP125	ND201801_6d	84	0	0	07-Nov-20	19-Feb-21	0%	KD.B.TR-1000.40, KD.B.TR-1000.01	
Construct Jacking Pit for Sewerage Trenchless at FMH-KNP125		ND201801_6d	84	0	0	07-Nov-20	19-Feb-21			
KD.B.TR-1000.01	Utilities Detection and Trial Pit Excavation	ND201801_6d	5	0	0	07-Nov-20	12-Nov-20	0%	KD.B.TR-0000, KD.B.RD-1200	KD.B.TR-1000.10, KD.B.TR-1000
KD.B.TR-1000.10	Breaking up Hard Surface	ND201801_6d	6	0	0	13-Nov-20	19-Nov-20	0%	KD.B.TR-1000.01	KD.B.TR-1000.20
KD.B.TR-1000.20	Sheet Piles Installation	ND201801_6d	12	0	0	20-Nov-20	03-Dec-20	0%	KD.B.TR-1000.10	KD.B.TR-1000.30
KD.B.TR-1000.30	Excavation and Lateral Support	ND201801_6d	45	0	0	04-Dec-20	28-Jan-21	0%	KD.B.TR-1000.20	KD.B.TR-1000.40
KD.B.TR-1000.40	Thrust Wall Construction and Face Wall Opening	ND201801_6d	16	0	0	29-Jan-21	19-Feb-21	0%	KD.B.TR-1000.30	KD.B.TR-1020.01, KD.B.TR-1000
Retaining Wall		ND201801_6d	45	0	16	26-Nov-20	21-Jan-21			
KD.B.RW-RD-B-1000	Retaining Wall RD-B (Bay 1 to Bay 3)	ND201801_6d	45	0	16	26-Nov-20	21-Jan-21	0%	KD.B.GI-1000, KD.B.RW-RD-0000	S1.B.SF-1010, KD.KE-1050, KD.B.RD-1150.01
Road, Drain and Utilities Works		ND201801_6d	382	0	75	15-Oct-20	27-Jan-22			



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

Construction Programme (Oct 2020 - Jan 2021)

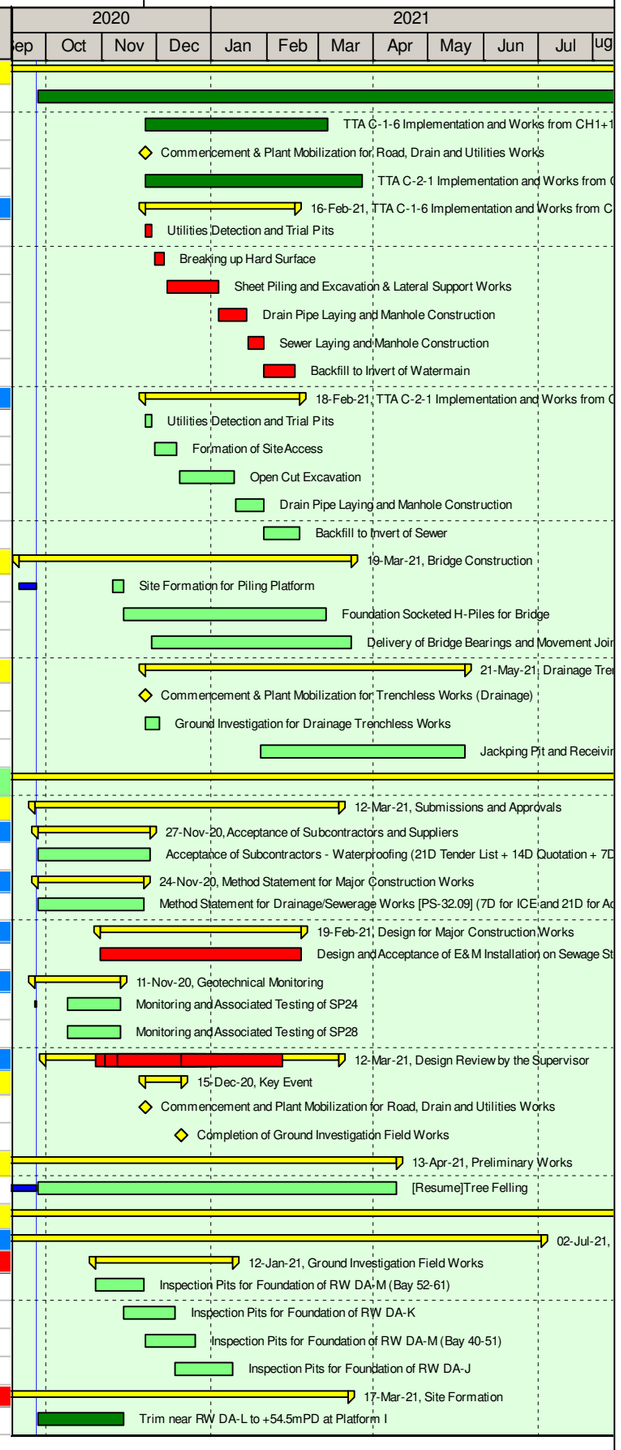
Activity ID	Activity Name	Calendar	Original Duration	Actual Duration	Total Float	Start	Finish	Activity % Complete	Predecessors	Successors
KD.B.RD-1250.01	TTA B-1-2 Implementation and Works from CH0+050 to CH0+100	ND201801_6d	57	0	0	15-Oct-20	22-Dec-20	0%	KD.B.RD-1250.01-60, KD.B.RD-1250.01-10	
KD.B.RD-1250	TTA B-1-1 Implementation and Works from CH0+000 to CH0+050	ND201801_6d	58	0	399	15-Oct-20	23-Dec-20	0%	KD.B.RD-1250-30, KD.B.RD-1250-80	
KD.B.RD-1500	TTA B-2-2 Implementation and Works from CH0+600 to CH0+650	ND201801_6d	77	0	0	31-Oct-20	02-Feb-21	0%	KD.B.RD-1500-01, KD.B.RD-1500-90	
KD.B.RD-1200	CH0+500 to CH0+600 (Sewerage Trenchless Works)	ND201801_6d	364	0	0	07-Nov-20	27-Jan-22	0%	KD.B.TR-1050, KD.B.TR-1000.40	KD.B.TR-1000.01
KD.B.RD-1150	TTA B-2-6L Implementation and Works from CH0+800 to CH0+850	ND201801_6d	75	0	0	10-Nov-20	09-Feb-21	0%	KD.PW-1000, KD.B.RD-1600.01	KD.B.RD-1150.01, KD.KE-1150
KD.B.RD-1300	TTA B-1-3 Implementation and Works from CH0+100 to CH0+150	ND201801_6d	65	0	0	22-Dec-20	15-Mar-21	0%	KD.B.RD-1300-80, KD.B.RD-1300-01	
KD.B.RD-1500.01	TTA B-2-3 Implementation and Works from CH0+650 to CH0+700	ND201801_6d	77	0	291	02-Feb-21	11-May-21	0%	KD.B.RD-1500-90	KD.KE-1150
KD.B.RD-1150.01	TTA B-2-7L Implementation and Works from CH0+850 to CH0+900	ND201801_6d	77	0	0	09-Feb-21	18-May-21	0%	KD.B.RD-1150, KD.B.RW-RD.B-1000	KD.KE-1150, KD.B.RD-1350.01
TTA B-1-1 Implementation and Works from CH0+000 to CH0+050		ND201801_6d	38	0	399	09-Nov-20	23-Dec-20			
KD.B.RD-1250-40	Manholes Construction and Drain Pipe & Sewer Laying	ND201801_6d	12	0	399	09-Nov-20	23-Nov-20	0%	KD.B.RD-1250-30, KD.B.RD-1250-01	KD.B.RD-1250-50
KD.B.RD-1250-50	Backfill to Invert of Watermains	ND201801_6d	8	0	399	23-Nov-20	02-Dec-20	0%	KD.B.RD-1250-40	KD.B.RD-1250-60
KD.B.RD-1250-60	Watermain Laying	ND201801_6d	6	0	399	02-Dec-20	09-Dec-20	0%	KD.B.RD-1250-50	KD.B.RD-1250-70
KD.B.RD-1250-70	Backfilling to Formation Level	ND201801_6d	8	0	399	09-Dec-20	18-Dec-20	0%	KD.B.RD-1250-60	KD.B.RD-1250-80
KD.B.RD-1250-80	Carriageway Construction	ND201801_6d	4	0	399	18-Dec-20	23-Dec-20	0%	KD.B.RD-1250-70	KD.KE-1150, KD.B.RD-1250
TTA B-1-2 Implementation and Works from CH0+050 to CH0+100		ND201801_6d	37	0	0	09-Nov-20	22-Dec-20			
KD.B.RD-1250.01-20	Manholes Construction and Drain Pipe & Sewer Laying	ND201801_6d	11	0	0	09-Nov-20	21-Nov-20	0%	KD.B.RD-1250.01-10	KD.B.RD-1250.01-30
KD.B.RD-1250.01-30	Backfill to Invert of Watermains	ND201801_6d	8	0	0	21-Nov-20	01-Dec-20	0%	KD.B.RD-1250.01-20	KD.B.RD-1250.01-40
KD.B.RD-1250.01-40	Watermain Laying	ND201801_6d	6	0	0	01-Dec-20	08-Dec-20	0%	KD.B.RD-1250.01-30	KD.B.RD-1250.01-50
KD.B.RD-1250.01-50	Backfill to Formation Level	ND201801_6d	8	0	0	08-Dec-20	17-Dec-20	0%	KD.B.RD-1250.01-40	KD.B.RD-1250.01-60
KD.B.RD-1250.01-60	Carriageway Construction	ND201801_6d	4	0	0	17-Dec-20	22-Dec-20	0%	KD.B.RD-1250.01-50	KD.B.RD-1250.01, S1.B.SF-1100, KD.KE-1150
TTA B-1-3 Implementation and Works from CH0+100 to CH0+150		ND201801_6d	42	0	0	22-Dec-20	16-Feb-21			
KD.B.RD-1300-01	Utilities Detection and Trial Pit	ND201801_6d	4	0	0	22-Dec-20	29-Dec-20	0%	KD.B.RD-1250.01-60	KD.B.RD-1300-20, KD.B.RD-1300
KD.B.RD-1300-20	Breaking up Hard Surfacfe	ND201801_6d	6	0	0	29-Dec-20	06-Jan-21	0%	KD.B.RD-1300-01	KD.B.RD-1300-30
KD.B.RD-1300-30	Sheet Piling and Excavation & Lateral Support Works	ND201801_6d	18	0	0	06-Jan-21	27-Jan-21	0%	KD.B.RD-1300-20	KD.B.RD-1300-40
KD.B.RD-1300-40	Manholes Construction and Drain Pipe & Sewer Laying	ND201801_6d	14	0	0	27-Jan-21	16-Feb-21	0%	KD.B.RD-1300-30	KD.B.RD-1300-50
TTA B-2-2 Implementation and Works from CH0+600 to CH0+650		ND201801_6d	71	0	0	07-Nov-20	02-Feb-21			
KD.B.RD-1500-20	Sheet Piling and Excavation & Lateral Support Works	ND201801_6d	20	0	0	07-Nov-20	01-Dec-20	0%	KD.B.RD-1500-10	KD.B.RD-1500-30
KD.B.RD-1500-30	Sewer Laying and Manhole Construction	ND201801_6d	8	0	0	01-Dec-20	10-Dec-20	0%	KD.B.RD-1500-20	KD.B.RD-1500-40
KD.B.RD-1500-40	Backfill to Invert of Drain	ND201801_6d	12	0	0	10-Dec-20	24-Dec-20	0%	KD.B.RD-1500-30	KD.B.RD-1500-50
KD.B.RD-1500-50	Drain Pipe Laying and Manhole Construction	ND201801_6d	8	0	0	24-Dec-20	06-Jan-21	0%	KD.B.RD-1500-40	KD.B.RD-1500-60
KD.B.RD-1500-60	Backfill to Invert of Watermain	ND201801_6d	8	0	0	06-Jan-21	15-Jan-21	0%	KD.B.RD-1500-50	KD.B.RD-1500-70
KD.B.RD-1500-70	Watermain Laying	ND201801_6d	5	0	0	15-Jan-21	21-Jan-21	0%	KD.B.RD-1500-60	KD.B.RD-1500-80
KD.B.RD-1500-80	Backfill to Formation Level	ND201801_6d	6	0	0	21-Jan-21	28-Jan-21	0%	KD.B.RD-1500-70	KD.B.RD-1500-90
KD.B.RD-1500-90	Carriageway Construction	ND201801_6d	4	0	0	28-Jan-21	02-Feb-21	0%	KD.B.RD-1500-80	KD.KE-1150, KD.B.RD-1500
Section 1 (Portions A, A1, B, B1 and B2)		ND201801_6d	331	39	345	12-Aug-20 A	02-Nov-21			
Portion B, B1 and B2		ND201801_6d	331	39	345	12-Aug-20 A	02-Nov-21			
Site Formation and Slope Works		ND201801_6d	331	39	345	12-Aug-20 A	02-Nov-21			
S1.B.SF-1020	Upgrading Works for Feature No. 3NW-C/C8_Kong Nga Po Road CH0+000 to CH0+120 B	ND201801_6d	188	39	200	12-Aug-20 A	21-May-21	0%	S1.B.SF-1020.NCE24, KD.SDR.FT-1300.01	S1.KE-1300, S1.B.SF-1060
S1.B.SF-1100	Cut Slope near CH0+100L	ND201801_6d	49	0	549	22-Dec-20	24-Feb-21	0%	S1.B.SF-0000, KD.XP-1200, KD.B.RD-1250.01-60	S1.KE-1300
S1.B.SF-1200	Cut Slope near 3NW-C/C37	ND201801_6d	230	0	0	22-Jan-21	02-Nov-21	0%	S1.B.SF-0000, KD.B.RD-1500-90	S1.KE-1300, S1.B.SF-1210, S1.B.SF-1300
Section 2 (Portions C and C1)			679	80	38	23-Jun-20 A	29-Nov-22			
Submissions and Approvals		ND201801_7d	124	0	398	26-Sep-20	27-Jan-21			
Acceptance of Subcontractors and Suppliers		ND201801_7d	63	0	268	26-Sep-20	27-Nov-20			
S2.AS-1250	Acceptance of Subcontractor - Bridge Works (21D Tender List + 14D Quotation + 7D Selection + 21D acceptance)	ND201801_7d	63	0	268	26-Sep-20	27-Nov-20	0%	S2.C.AS-1000	S2.C.BG-1700, S2.MS-1200, S2.MS-1150, S2.C.BG-1400
Method Statement for Major Construction Works		ND201801_7d	105	0	417	26-Sep-20	08-Jan-21			
S2.MS-1000	Method Statement for Pipe Trenchless Works (Drainage) [PS-32.09]	ND201801_7d	60	0	33	26-Sep-20	24-Nov-20	0%	AD-P2, S2.AS-1150	S2.C.TD-0000
S2.MS-1250	Method Statement for Drainage/Sewerage Works [PS-32.09]	ND201801_7d	60	0	0	26-Sep-20	24-Nov-20	0%	AD-P2	S2.C.RD.0000
S2.MS-1150	Method Statement for Bridge Pier Construction (7D for ICE and 21D for Acceptance)	ND201801_7d	42	0	334	28-Nov-20	08-Jan-21	0%	AD-P2, S2.AS-1250	S2.C.BG-1400
S2.MS-1200	Method Statement for Bridge Construction (7D for ICE and 21D for Acceptance)	ND201801_7d	42	0	417	28-Nov-20	08-Jan-21	0%	S2.AS-1250, AD-P2	S2.C.BG-1450
Design Review by the Supervisor		ND201801_7d	56	0	34	03-Dec-20	27-Jan-21			
S2.SDR.T-1000	Design Verification Works by the Supervisor (Drainage Trenchless)	ND201801_7d	56	0	34	03-Dec-20	27-Jan-21	0%	S2.C.TD-0050	S2.C.TD-1050



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

Construction Programme (Oct 2020 - Jan 2021)

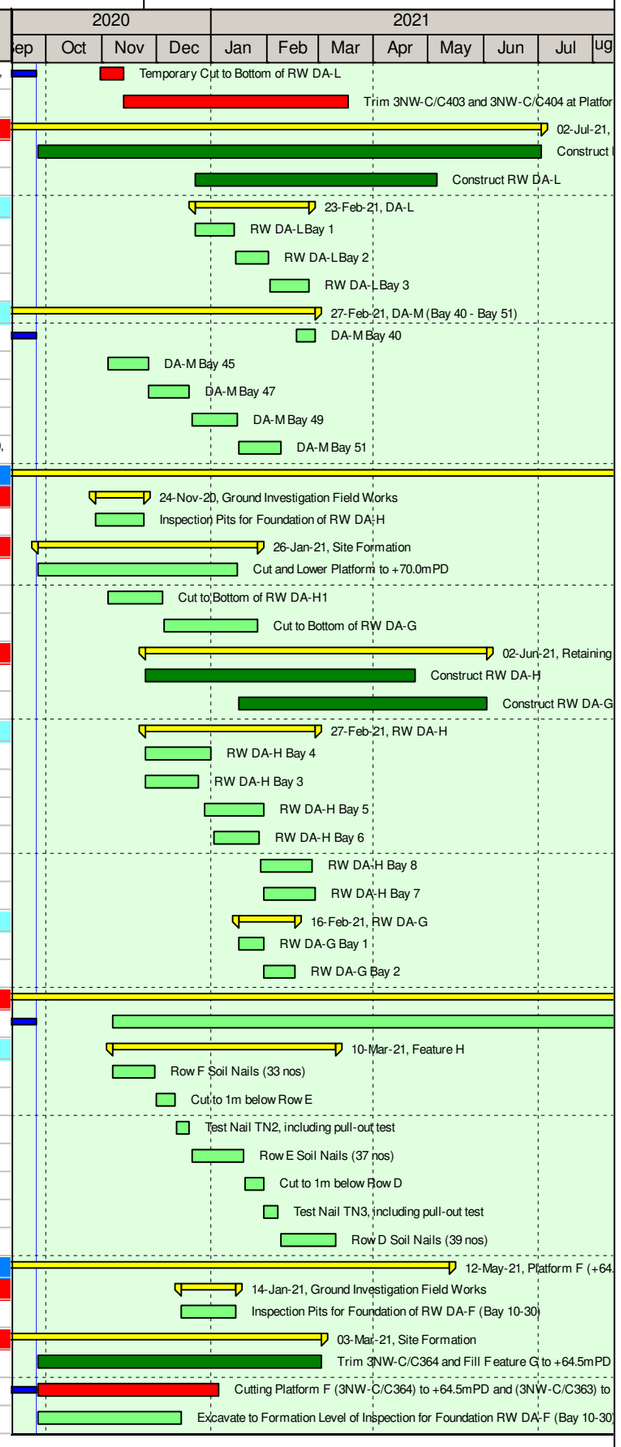
Activity ID	Activity Name	Calendar	Original Duration	Actual Duration	Total Float	Start	Finish	Activity % Complete	Predecessors	Successors
Road, Drain and Utilities Works			679	80	38	23-Jun-20 A	29-Nov-22			
S2.C.RD.1100	CH1+200 to CH1+300 (Bridge Construction)	ND201801_6d	679	80	38	23-Jun-20 A	29-Nov-22	5.13%	S2.C.BG-1000, S2.C.BG-1100	
S2.C.RD.1200.01	TTA C-1-6 Implementation and Works from CH1+150 to CH1+200	ND201801_6d	82	0	0	25-Nov-20	06-Mar-21	0%	S2.C.RD.1200.01-01, S2.C.RD.1200.01-80	
S2.C.RD.0000	Commencement & Plant Mobilization for Road, Drain and Utilities Works	ND201801_7d	0	0	0	25-Nov-20		0%	S2.MS-1350, GS-1050, S2.DS-1100, S2.AS-1000.01	S2.C.RD.1050-01, S2.C.RD.1200.01-01
S2.C.RD.1050	TTA C-2-1 Implementation and Works from CH1+300 to CH1+350	ND201801_6d	98	0	88	25-Nov-20	25-Mar-21	0%	S2.C.RD.1050-80, S2.C.RD.1050-01	
TTA C-1-6 Implementation and Works from CH1+150 to CH1+200		ND201801_6d	66	0	0	25-Nov-20	16-Feb-21			
S2.C.RD.1200.01-01	Utilities Detection and Trial Pits	ND201801_6d	4	0	0	25-Nov-20	28-Nov-20	0%	S2.C.RD.0000	S2.C.RD.1200.01, S2.C.RD.1200.01-10
S2.C.RD.1200.01-10	Breaking up Hard Surface	ND201801_6d	6	0	0	30-Nov-20	05-Dec-20	0%	S2.C.RD.1200.01-01	S2.C.RD.1200.01-20
S2.C.RD.1200.01-20	Sheet Piling and Excavation & Lateral Support Works	ND201801_6d	22	0	0	07-Dec-20	04-Jan-21	0%	S2.C.RD.1200.01-10	S2.C.RD.1200.01-30
S2.C.RD.1200.01-30	Drain Pipe Laying and Manhole Construction	ND201801_6d	14	0	0	05-Jan-21	20-Jan-21	0%	S2.C.RD.1200.01-20	S2.C.RD.1200.01-40
S2.C.RD.1200.01-40	Sewer Laying and Manhole Construction	ND201801_6d	8	0	0	21-Jan-21	29-Jan-21	0%	S2.C.RD.1200.01-30	S2.C.RD.1200.01-50
S2.C.RD.1200.01-50	Backfill to Invert of Watermain	ND201801_6d	12	0	0	30-Jan-21	16-Feb-21	0%	S2.C.RD.1200.01-40	S2.C.RD.1200.01-60
TTA C-2-1 Implementation and Works from CH1+300 to CH1+350		ND201801_6d	68	0	88	25-Nov-20	18-Feb-21			
S2.C.RD.1050-01	Utilities Detection and Trial Pits	ND201801_6d	4	0	88	25-Nov-20	28-Nov-20	0%	S2.C.RD.0000	S2.C.RD.1050-10, S2.C.RD.1050
S2.C.RD.1050-10	Formation of Site Access	ND201801_6d	12	0	88	30-Nov-20	12-Dec-20	0%	S2.C.RD.1050-01	S2.C.RD.1050-20
S2.C.RD.1050-20	Open Cut Excavation	ND201801_6d	24	0	88	14-Dec-20	13-Jan-21	0%	S2.C.RD.1050-10	S2.C.RD.1050-30
S2.C.RD.1050-30	Drain Pipe Laying and Manhole Construction	ND201801_6d	14	0	88	14-Jan-21	29-Jan-21	0%	S2.C.RD.1050-20	S2.C.RD.1050-40
S2.C.RD.1050-40	Backfill to Invert of Sewer	ND201801_6d	14	0	88	30-Jan-21	18-Feb-21	0%	S2.C.RD.1050-30	S2.C.RD.1050-50
Bridge Construction		ND201801_6d	108	9	216	16-Sep-20 A	19-Mar-21			
S2.C.BG-1050	Site Formation for Piling Platform	ND201801_6d	52	9	29	16-Sep-20 A	13-Nov-20	90%	S2.C.BG-1000, S2.C.BG-1020, S2.DS-1250	S2.C.BG-1200
S2.C.BG-1200	Foundation Socketed H-Piles for Bridge	ND201801_6d	90	0	29	13-Nov-20	05-Mar-21	0%	GS-1650, S2.AS-1200, S2.SDR.FD-1000.01	S2.C.BG-1300, S2.C.BG-1250
S2.C.BG-1700	Delivery of Bridge Bearings and Movement Joints	ND201801_6d	90	0	216	28-Nov-20	19-Mar-21	0%	S2.AS-1250	S2.C.BG-1400
Drainage Trenchless Works			142	0	26	25-Nov-20	21-May-21			
S2.C.TD-0000	Commencement & Plant Mobilization for Trenchless Works (Drainage)	ND201801_7d	0	0	33	25-Nov-20		0%	GS-1500, CS-0000, AD-P2, S2.AS-1150, S2.C.PW-1100	S2.C.TD-1050, S2.C.TD-0050
S2.C.TD-0050	Ground Investigation for Drainage Trenchless Works	ND201801_6d	7	0	26	25-Nov-20	02-Dec-20	0%	S2.C.TD-0000	S2.SDR.T-1000
S2.C.TD-1050	Jackping Pit and Receiving Pit Construction	ND201801_6d	90	0	26	28-Jan-21	21-May-21	0%	S2.C.TD-0000, S2.SDR.T-1000	S2.C.TD-1100
Section 3 (Portion D, D1)			484	78	394	26-Jun-20 A	19-Oct-21			
Submissions and Approvals			135	1	573	25-Sep-20 A	12-Mar-21			
Acceptance of Subcontractors and Suppliers		ND201801_7d	63	0	63	26-Sep-20	27-Nov-20			
S3.AS-1350	Acceptance of Subcontractors - Waterproofing (21D Tender List + 14D Quotation + 7D Selection + 21D acceptance)	ND201801_7d	63	0	63	26-Sep-20	27-Nov-20	0%	S3.AS-1000	S3.D.SWT-1150, S3.D.SWT-1250
Method Statement for Major Construction Works		ND201801_7d	60	0	113	26-Sep-20	24-Nov-20			
S3.MS-1450	Method Statement for Drainage/Sewerage Works [PS-32.09] (7D for ICE and 21D for Acceptance)	ND201801_7d	60	0	113	26-Sep-20	24-Nov-20	0%	S3.AS-1410	S3.D.RD-0000
Design for Major Construction Works		ND201801_6d	90	0	0	31-Oct-20	19-Feb-21			
GS-1800	Design and Acceptance of E&M Installation on Sewage Storage Tank [PS-30.01]	ND201801_6d	90	0	0	31-Oct-20	19-Feb-21	0%	GS-1700	S3.D.SEW-1300
Geotechnical Monitoring		ND201801_7d	37	1	828	25-Sep-20 A	11-Nov-20			
S3.GM-2250	Monitoring and Associated Testing of SP24	ND201801_7d	30	1	829	25-Sep-20 A	11-Nov-20	3.3%	S3.D.GI-2450	
S3.GM-2350	Monitoring and Associated Testing of SP28	ND201801_7d	30	0	828	13-Oct-20	11-Nov-20	0%	S3.D.GI-2550	
Design Review by the Supervisor			135	0	573	01-Oct-20 A	12-Mar-21			
Key Event			18	0	274	25-Nov-20	15-Dec-20			
S3.D.RD-0000	Commencement and Plant Mobilization for Road, Drain and Utilities Works	ND201801_6d	0	0	91	25-Nov-20		0%	S3.D.PW-1100, S3.MS-1450, S3.MS-1250, GS-1500	S3.D.RD-1250, S3.D.RD-1650
S3.KE-1000	Completion of Ground Investigation Field Works	ND201801_7d	0	0	338		15-Dec-20	0%	S3.D.GI-1450, S3.D.GI-1300, S3.D.GI-1700	S3.KE-1500
Preliminary Works		ND201801_6d	406	39	550	12-Aug-20 A	13-Apr-21			
S3.D.PW-1250.01	[Resume]Tree Felling	ND201801_6d	406	39	550	12-Aug-20 A	13-Apr-21	61%	S3.D.PW-1250.NCE24	
Portion D		ND201801_6d	416	78	394	26-Jun-20 A	19-Oct-21			
Platform I (+54.5mPD), Platform H (+64.5mPD) & Platofrm J (+64.5mPD)		ND201801_6d	287	77	56	27-Jun-20 A	02-Jul-21			
Ground Investigation Field Works		ND201801_6d	63	0	80	28-Oct-20	12-Jan-21			
S3.D.GI-3650	Inspection Pits for Foundation of RW DA-M (Bay 52-61)	ND201801_6d	24	0	53	28-Oct-20	24-Nov-20	0%	S3.D.GI-3200	S3.SDR.FD-1650, S3.D.GI-3700
S3.D.GI-3150	Inspection Pits for Foundation of RW DA-K	ND201801_6d	24	0	31	13-Nov-20	11-Dec-20	0%	S3.D.SF-1350	S3.SDR.FD-1500, S3.D.GI-3400
S3.D.GI-3700	Inspection Pits for Foundation of RW DA-M (Bay 40-51)	ND201801_6d	24	0	53	25-Nov-20	22-Dec-20	0%	S3.D.GI-3650	S3.SDR.FD-1600
S3.D.GI-3400	Inspection Pits for Foundation of RW DA-J	ND201801_6d	24	0	80	11-Dec-20	12-Jan-21	0%	S3.D.GI-3150, S3.D.SF-1350	S3.SDR.FD-1450
Site Formation		ND201801_6d	216	77	0	27-Jun-20 A	17-Mar-21			
S3.D.SF-1250	Trim near RW DA-L to +54.5mPD at Platform I	ND201801_6d	75	77	0	27-Jun-20 A	13-Nov-20	48.59%	S3.D.SF-1250.03, S3.D.SF-1250.01	



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

Construction Programme (Oct 2020 - Jan 2021)

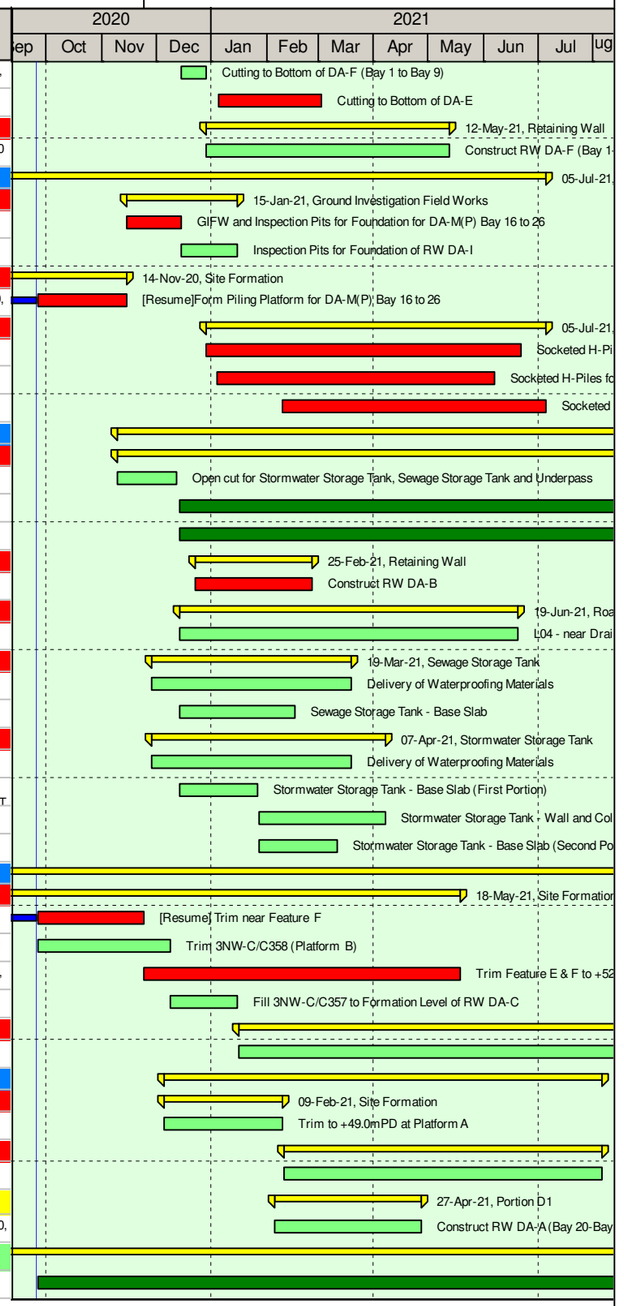
Activity ID	Activity Name	Calendar	Original Duration	Actual Duration	Total Float	Start	Finish	Activity % Complete	Predecessors	Successors
S3.D.SF-1250.03	Temporary Cut to Bottom of RW DA-L	ND201801_6d	19	57	0	22-Jul-20 A	13-Nov-20	40%	S3.D.SF-1250.02.01	S3.KE-1150, S3.D.SF-1250, S3.D.RW-DA-L-1100-01
S3.D.SF-1350	Trim 3NW-C/C403 and 3NW-C/C404 at Platform H/J	ND201801_6d	100	0	0	13-Nov-20	17-Mar-21	0%	S3.D.SF-1250.03	S3.D.GI-3150, S3.D.RW-DA-K-1000
Retaining Wall		ND201801_6d	237	31	56	21-Aug-20 A	02-Jul-21			
S3.D.RW-DA-M-1300	Construct RW DA-M (Bay 40-51)	ND201801_6d	120	31	56	21-Aug-20 A	02-Jul-21	0%	S3.D.RW-DA-M-1300-50, S3.D.RW-DA-M-1300-55	
S3.D.RW-DA-L-1000	Construct RW DA-L	ND201801_6d	105	0	73	23-Dec-20	05-May-21	0%	S3.D.RW-DA-L-1100-50, S3.D.RW-DA-L-1100-01	
DA-L		ND201801_6d	48	0	73	23-Dec-20	23-Feb-21			
S3.D.RW-DA-L-1100-01	RW DA-L Bay 1	ND201801_6d	16	0	73	23-Dec-20	13-Jan-21	0%	S3.SDR.FD-1550, S3.D.RW-DA-L-1050	S3.D.RW-DA-L-1100-10, S3.D.RW-DA-L-1000
S3.D.RW-DA-L-1100-10	RW DA-L Bay 2	ND201801_6d	16	0	73	14-Jan-21	01-Feb-21	0%	S3.D.RW-DA-L-1100-01	S3.D.RW-DA-L-1100-20
S3.D.RW-DA-L-1100-20	RW DA-L Bay 3	ND201801_6d	16	0	73	02-Feb-21	23-Feb-21	0%	S3.D.RW-DA-L-1100-10	S3.D.RW-DA-L-1100-30
DA-M (Bay 40 - Bay 51)		ND201801_6d	137	31	156	21-Aug-20 A	27-Feb-21			
S3.D.RW-DA-M-1300-01	DA-M Bay 40	ND201801_6d	20	31	56	21-Aug-20 A	27-Feb-21	50%	S3.SDR.FD-1600, S3.D.RW-0000, S3.GM-1150	S3.D.RW-DA-M-1300-05, S3.D.RW-DA-M-1300
S3.D.RW-DA-M-1300-25	DA-M Bay 45	ND201801_6d	20	0	170	04-Nov-20	26-Nov-20	0%	S3.D.RW-DA-M-1300-15	S3.D.RW-DA-M-1300-35
S3.D.RW-DA-M-1300-35	DA-M Bay 47	ND201801_6d	20	0	170	27-Nov-20	19-Dec-20	0%	S3.D.RW-DA-M-1300-25	S3.D.RW-DA-M-1300-45
S3.D.RW-DA-M-1300-45	DA-M Bay 49	ND201801_6d	20	0	170	21-Dec-20	15-Jan-21	0%	S3.D.RW-DA-M-1300-35	S3.D.RW-DA-M-1300-55
S3.D.RW-DA-M-1300-55	DA-M Bay 51	ND201801_6d	20	0	170	16-Jan-21	08-Feb-21	0%	S3.D.RW-DA-M-1300-45	S3.D.SF-2200, S3.KE-1200, S3.D.RW-DA-M-1300
Platform G (+70.0mPD)		ND201801_6d	338	54	425	25-Jul-20 A	09-Sep-21			
Ground Investigation Field Works		ND201801_6d	24	0	172	28-Oct-20	24-Nov-20			
S3.D.GI-3300	Inspection Pits for Foundation of RW DA-H	ND201801_6d	24	0	172	28-Oct-20	24-Nov-20	0%	S3.D.GI-3250, S3.D.SF-1150.01	S3.SDR.FD-1350
Site Formation		ND201801_6d	99	0	609	26-Sep-20	26-Jan-21			
S3.D.SF-1150.02	Cut and Lower Platform to +70.0mPD	ND201801_6d	90	0	4	26-Sep-20	15-Jan-21	0%	S3.D.SF-0000, S3.D.SF-1150.01	S3.D.RW-DA-G-1000-10, S3.KE-1150
S3.D.SF-1150.05	Cut to Bottom of RW DA-H1	ND201801_6d	27	0	217	04-Nov-20	04-Dec-20	0%	S3.D.SF-1150.04	S3.D.RW-DA-H-1000-50, S3.D.RW-DA-H-1000-80
S3.D.SF-1150.06	Cut to Bottom of RW DA-G	ND201801_6d	42	0	609	05-Dec-20	26-Jan-21	0%	S3.D.SF-1150.05, S3.D.SF-1150.03.01	
Retaining Wall		ND201801_6d	152	0	140	25-Nov-20	02-Jun-21			
S3.D.RW-DA-H-1000	Construct RW DA-H	ND201801_6d	120	0	172	25-Nov-20	23-Apr-21	0%	S3.D.RW-DA-H-1000-20, S3.D.RW-DA-H-1000-10	
S3.D.RW-DA-G-1000	Construct RW DA-G	ND201801_6d	110	0	140	16-Jan-21	02-Jun-21	0%	S3.D.RW-DA-G-1000-10, S3.D.RW-DA-G-1000-90	
RW DA-H		ND201801_6d	76	0	194	25-Nov-20	27-Feb-21			
S3.D.RW-DA-H-1000-30	RW DA-H Bay 4	ND201801_6d	30	0	196	25-Nov-20	31-Dec-20	0%	S3.GM-1200, S3.D.RW-DA-H-1150	S3.D.RW-DA-H-1000-50
S3.D.RW-DA-H-1000-20	RW DA-H Bay 3	ND201801_6d	26	0	172	25-Nov-20	24-Dec-20	0%	S3.D.SF-1150.04, S3.GM-1200	S3.D.RW-DA-H-1000, S3.D.RW-DA-H-1000-40
S3.D.RW-DA-H-1000-40	RW DA-H Bay 5	ND201801_6d	28	0	172	28-Dec-20	29-Jan-21	0%	S3.D.RW-DA-H-1000-20	S3.D.RW-DA-H-1000-60
S3.D.RW-DA-H-1000-50	RW DA-H Bay 6	ND201801_6d	22	0	196	02-Jan-21	27-Jan-21	0%	S3.D.SF-1150.05, S3.D.RW-DA-H-1000-30	S3.D.RW-DA-H-1000-70
S3.D.RW-DA-H-1000-70	RW DA-H Bay 8	ND201801_6d	22	0	196	28-Jan-21	25-Feb-21	0%	S3.D.RW-DA-H-1000-50, S3.D.SF-1150.05	S3.D.RW-DA-H-1000-80
S3.D.RW-DA-H-1000-60	RW DA-H Bay 7	ND201801_6d	22	0	172	30-Jan-21	27-Feb-21	0%	S3.D.RW-DA-H-1000-40, S3.D.SF-1150.05	S3.D.RW-DA-H-1000-01
RW DA-G		ND201801_6d	24	0	4	16-Jan-21	16-Feb-21			
S3.D.RW-DA-G-1000-10	RW DA-G Bay 1	ND201801_6d	12	0	4	16-Jan-21	29-Jan-21	0%	S3.D.SF-1150.02, S3.D.SF-1150.04	S3.D.RW-DA-G-1000, S3.D.RW-DA-G-1000-20
S3.D.RW-DA-G-1000-20	RW DA-G Bay 2	ND201801_6d	12	0	4	30-Jan-21	16-Feb-21	0%	S3.D.RW-DA-G-1000-10	S3.D.RW-DA-G-1000-30
Slope Upgrading Works		ND201801_6d	305	54	57	25-Jul-20 A	09-Sep-21			
S3.D.SL-1050	Upgrading Works for Slope at Platform +70mPD for Platform G (Feature H & J)	ND201801_6d	250	54	57	25-Jul-20 A	09-Sep-21	0%	S3.D.SL-0000, S3.D.GI-1250, S3.SDR.FT-1600	S3.KE-1450
Feature H		ND201801_6d	100	0	74	07-Nov-20	10-Mar-21			
S3.D.SL-1050-03	Row F Soil Nails (33 nos)	ND201801_6d	20	0	74	07-Nov-20	30-Nov-20	0%	S3.D.SL-1050-02	S3.D.SL-1050-04
S3.D.SL-1050-04	Cut to 1m below Row E	ND201801_6d	10	0	74	01-Dec-20	11-Dec-20	0%	S3.D.SL-1050-03	S3.D.SL-1050-05
S3.D.SL-1050-05	Test Nail TN2, including pull-out test	ND201801_6d	7	0	74	12-Dec-20	19-Dec-20	0%	S3.D.SL-1050-04	S3.D.SL-1050-06
S3.D.SL-1050-06	Row E Soil Nails (37 nos)	ND201801_6d	22	0	74	21-Dec-20	18-Jan-21	0%	S3.D.SL-1050-05	S3.D.SL-1050-07
S3.D.SL-1050-07	Cut to 1m below Row D	ND201801_6d	10	0	74	19-Jan-21	29-Jan-21	0%	S3.D.SL-1050-06	S3.D.SL-1050-08
S3.D.SL-1050-08	Test Nail TN3, including pull-out test	ND201801_6d	7	0	74	30-Jan-21	06-Feb-21	0%	S3.D.SL-1050-07	S3.D.SL-1050-09
S3.D.SL-1050-09	Row D Soil Nails (39 nos)	ND201801_6d	24	0	74	08-Feb-21	10-Mar-21	0%	S3.D.SL-1050-08	S3.D.SL-1050-10
Platform F (+64.5mPD)		ND201801_6d	261	78	30	26-Jun-20 A	12-May-21			
Ground Investigation Field Works		ND201801_6d	24	0	6	15-Dec-20	14-Jan-21			
S3.D.GI-3500	Inspection Pits for Foundation of RW DA-F (Bay 10-30)	ND201801_6d	24	0	6	15-Dec-20	14-Jan-21	0%	S3.D.SF-1450.30	S3.SDR.FD-1250
Site Formation		ND201801_6d	204	78	0	26-Jun-20 A	03-Mar-21			
S3.D.SF-1450	Trim 3NW-C/C364 and Fill Feature G to +64.5mPD at Platform F(Southern)	ND201801_6d	175	78	0	26-Jun-20 A	03-Mar-21	27.95%	S3.D.SF-1450.50, S3.D.SF-1450.10	
S3.D.SF-1450.20	Cutting Platform F (3NW-C/C364) to +64.5mPD and (3NW-C/C363) to +54.30)	ND201801_6d	104	36	0	15-Aug-20 A	05-Jan-21	23%	S3.D.SF-1450.10	S3.D.SF-1450.50
S3.D.SF-1450.30	Excavate to Formation Level of Inspection for Foundation RW DA-F (Bay 10-30)	ND201801_6d	65	0	6	26-Sep-20	14-Dec-20	0%	S3.D.SF-1450.10	S3.D.SF-1450.40, S3.D.GI-3500



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

Construction Programme (Oct 2020 - Jan 2021)

Activity ID	Activity Name	Calendar	Original Duration	Actual Duration	Total Float	Start	Finish	Activity % Complete	Predecessors	Successors
S3.D.SF-1450.40	Cutting to Bottom of DA-F (Bay 1 to Bay 9)	ND201801_6d	10	0	30	15-Dec-20	28-Dec-20	0%	S3.D.SF-1450.30	S3.KE-1150, S3.D.SF-1300, S3.D.RW-DA-F-1000
S3.D.SF-1450.50	Cutting to Bottom of DA-E	ND201801_6d	46	0	0	05-Jan-21	03-Mar-21	0%	S3.D.SF-1450.20	S3.D.SF-1450, S3.D.RW-DA-F-1000
Retaining Wall		ND201801_6d	108	0	30	29-Dec-20	12-May-21			
S3.D.RW-DA-F-1000	Construct RW DA-F (Bay 1-9)	ND201801_6d	108	0	30	29-Dec-20	12-May-21	0%	S3.SDR.FD-1200, S3.D.RW-0000	S3.KE-1200, S3.D.RD-1200
Platform K (+64.5mPD) & Platform L (+62.5mPD)		ND201801_6d	226	39	-10	12-Aug-20 A	05-Jul-21			
Ground Investigation Field Works		ND201801_6d	50	0	104	14-Nov-20	15-Jan-21			
S3.D.GI-1700	GIFW and Inspection Pits for Foundation for DA-M(P) Bay 16 to 26	ND201801_6d	26	0	-10	14-Nov-20	15-Dec-20	0%	S3.D.GI-1050.01	S3.KE-1000, S3.SDR.FD-1750
S3.D.GI-3600	Inspection Pits for Foundation of RW DA-I	ND201801_6d	24	0	104	15-Dec-20	15-Jan-21	0%	S3.D.GI-1700	S3.SDR.FD-1400
Site Formation		ND201801_6d	45	39	-10	12-Aug-20 A	14-Nov-20			
S3.D.GI-1050.01	[Resume]Form Piling Platform for DA-M(P) Bay 16 to 26	ND201801_6d	45	39	-10	12-Aug-20 A	14-Nov-20	12%	S3.D.GI-1050.NCE24	S3.D.F-1100, S3.D.GI-1700, S3.KE-1150
Foundation Works		ND201801_6d	151	0	-10	28-Dec-20	05-Jul-21			
S3.D.F-1000	Socketed H-Piles for DA-M(P) Bay 30 to 35	ND201801_6d	140	0	-16	28-Dec-20	21-Jun-21	0%	S3.SDR.FD-1850, GS-1650, S3.AS-1200	S3.D.F-1150, S3.KE-1050
S3.D.F-1050	Socketed H-Piles for DA-M(P) Bay 2 to 9	ND201801_6d	124	0	-4	04-Jan-21	07-Jun-21	0%	S3.D.GI-1100, S3.AS-1200, S3.SDR.FD-1800, GS-1650	S3.KE-1050, S3.D.F-1200, S3.D.F-1150, S3.D.F-1210
S3.D.F-1100	Socketed H-Piles for DA-M(P) Bay 16 to 26	ND201801_6d	115	0	-10	09-Feb-21	05-Jul-21	0%	GS-1650, S3.D.GI-1050.01, S3.SDR.FD-1750	S3.D.F-1300, S3.KE-1050, S3.D.F-1310, S3.D.F-1250
Platform C (+48.0mPD) & Tanks/Underpass		ND201801_6d	280	0	26	09-Nov-20	19-Oct-21			
Site Formation		ND201801_6d	280	0	26	09-Nov-20	19-Oct-21			
S3.D.SF-1500	Open cut for Stormwater Storage Tank, Sewage Storage Tank and Underpass	ND201801_6d	30	0	7	09-Nov-20	12-Dec-20	0%	S3.D.SF-1650, S3.D.SF-1200	S3.D.SEW-1000, S3.D.RD-1450
S3.D.SEW	Sewerage Storage Tank	ND201801_6d	238	0	0	14-Dec-20	04-Oct-21	0%	S3.D.SEW-1250, S3.D.SEW-1000	
S3.D.SWT	Stormwater Storage Tank	ND201801_6d	250	0	26	14-Dec-20	19-Oct-21	0%	S3.D.SWT-1200, S3.D.SWT-1000	
Retaining Wall		ND201801_6d	50	0	-1	23-Dec-20	25-Feb-21			
S3.D.RW-DA-B-1000	Construct RW DA-B	ND201801_6d	50	0	-1	23-Dec-20	25-Feb-21	0%	S3.SDR.FD-1050, S3.D.RW-0000	S3.D.UP-1000
Road, Drainage and Utilities		ND201801_6d	150	0	126	14-Dec-20	19-Jun-21			
S3.D.RD-1450	L04 - near Drainage SMH-S1301 to SMH-S1304	ND201801_6d	150	0	126	14-Dec-20	19-Jun-21	0%	S3.D.SF-1500, S3.D.RD-0000	S3.KE-1250
Sewage Storage Tank		ND201801_6d	90	0	51	28-Nov-20	19-Mar-21			
S3.D.SEW-1400	Delivery of Waterproofing Materials	ND201801_6d	90	0	51	28-Nov-20	19-Mar-21	0%	S3.AS-1350	S3.D.SEW-1150
S3.D.SEW-1000	Sewage Storage Tank - Base Slab	ND201801_6d	50	0	18	14-Dec-20	16-Feb-21	0%	S3.D.SF-1500, S3.DS-1250, S3.MS-1350	S3.D.SEW-1050, S3.D.SEW
Stormwater Storage Tank		ND201801_6d	103	0	61	28-Nov-20	07-Apr-21			
S3.D.SWT-1250	Delivery of Waterproofing Materials	ND201801_6d	90	0	74	28-Nov-20	19-Mar-21	0%	S3.AS-1350	S3.D.SWT-1150
S3.D.SWT-1000	Stormwater Storage Tank - Base Slab (First Portion)	ND201801_6d	35	0	7	14-Dec-20	26-Jan-21	0%	S3.MS-1400, S3.DS-1300, S3.D.SF-1500	S3.D.SWT-1000.01, S3.D.SWT-1050, S3.D.SWT
S3.D.SWT-1050	Stormwater Storage Tank - Wall and Columns (First Portion)	ND201801_6d	55	0	7	27-Jan-21	07-Apr-21	0%	S3.D.SWT-1000	S3.D1.SF-1000, S3.D.RD-1150
S3.D.SWT-1000.01	Stormwater Storage Tank - Base Slab (Second Portion)	ND201801_6d	35	0	7	27-Jan-21	11-Mar-21	0%	S3.D.SWT-1000	S3.D.SWT-1050.01
Platform B (+52.5mPD)		ND201801_6d	290	39	50	12-Aug-20 A	17-Sep-21			
Site Formation		ND201801_6d	188	39	-7	12-Aug-20 A	18-May-21			
S3.D.SF-1200.01	[Resume] Trim near Feature F	ND201801_6d	53	39	-7	12-Aug-20 A	24-Nov-20	10%	S3.D.SF-1200.NCE24, S3.D.SF-1700	S3.D.SF-1100
S3.D.SF-2000	Trim 3NW-C/C358 (Platform B)	ND201801_6d	60	0	50	26-Sep-20	08-Dec-20	0%	S3.GM-1850, S3.D.SF-1200, S3.SDR.FT-1100	S3.KE-1150, S3.D.SF-1800
S3.D.SF-1100	Trim Feature E & F to +52.5mPD at Platform B	ND201801_6d	140	0	-7	24-Nov-20	18-May-21	0%	S3.AS-1150, S3.GM-1000, S3.D.SF-1200.01	S3.KE-1150, S3.D.SF-1400, S3.D.SL-1000
S3.D.SF-1800	Fill 3NW-C/C357 to Formation Level of RW DA-C	ND201801_6d	30	0	50	09-Dec-20	15-Jan-21	0%	S3.GM-1800, S3.SDR.FT-1050.01	S3.D.RW-DA-C-1000, S3.KE-1150
Retaining Wall		ND201801_6d	200	0	50	16-Jan-21	17-Sep-21			
S3.D.RW-DA-C-1000	Construct RW DA-C	ND201801_6d	200	0	50	16-Jan-21	17-Sep-21	0%	S3.GM-1400, S3.SDR.FD-1100.01	S3.KE-1200
Platform A(+49.0mPD)		ND201801_6d	196	0	87	05-Dec-20	05-Aug-21			
Site Formation		ND201801_6d	54	0	14	05-Dec-20	09-Feb-21			
S3.D.SF-1550	Trim to +49.0mPD at Platform A	ND201801_6d	54	0	14	05-Dec-20	09-Feb-21	0%	S3.GM-1700.01, S3.D.RW-1450	S3.KE-1150, S3.D1.RW-DA-A-1050
Retaining Wall		ND201801_6d	142	0	87	10-Feb-21	05-Aug-21			
S3.D.RW-DA-A-1000	Construct RW DA-A(Bay 15-Bay 19)	ND201801_6d	142	0	87	10-Feb-21	05-Aug-21	0%	S3.D.RW-0000, S3.GM-1550, S3.D.SF-1550	S3.KE-1200
Portion D1		ND201801_6d	64	0	14	05-Feb-21	27-Apr-21			
S3.D1.RW-DA-A-1050	Construct RW DA-A(Bay 20-Bay 22)	ND201801_6d	64	0	14	05-Feb-21	27-Apr-21	0%	S3.GM-1550, AD-P4, S3.D.SF-1550	S3.KE-1200, S3.D.RD-1650, S3.D.SF-1900
Section 4 (Preservation and Protection of Existing Trees, other than Estal		ND201801_7d	1248	304	33	27-Nov-19 A	15-Jan-23			
S4-1000	Preservation and Protection of Existing Trees, other than Establishment Works	ND201801_7d	1248	304	33	27-Nov-19 A	15-Jan-23	32.53%	SD, PC.S2, PC.S1	



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

Construction Programme (Oct 2020 - Jan 2021)

APPENDIX B
ACTION AND LIMIT LEVELS

Appendix B - Action and Limit Levels

Table B-1 Action and Limit Levels for 1-hour TSP

Monitoring station	Action Level (ug/m^3)	Limit Level (ug/m^3)
AM1	308	500
AM2	311	

TableB-2 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

Noted:
If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

APPENDIX C
COPIES OF CALIBRATION CERTIFCATES

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	34033A
Date of Issue:	2020-09-07
Date Received:	2020-09-04
Date Tested:	2020-09-04
Date Completed:	2020-09-07
Next Due Date:	2020-11-06
Page:	1 of 1

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

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23808
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-02

Test Conditions:

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

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.162

****

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

PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	34033B
Date of Issue:	2020-09-07
Date Received:	2020-09-04
Date Tested:	2020-09-04
Date Completed:	2020-09-07
Next Due Date:	2020-11-06
Page:	1 of 1

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

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23809
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-03

Test Conditions:

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

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.130

****

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

PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	34033C
Date of Issue:	2020-09-07
Date Received:	2020-09-04
Date Tested:	2020-09-04
Date Completed:	2020-09-07
Next Due Date:	2020-11-06
Page:	1 of 1

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

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23810
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-04

Test Conditions:

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

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.114

****

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

PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33964C
Date of Issue:	2020-08-24
Date Received:	2020-08-21
Date Tested:	2020-08-21
Date Completed:	2020-08-24
Next Due Date:	2020-10-23
Page:	1 of 1

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

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23811
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-09

Test Conditions:

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

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.116

****

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

Patrick Tse
PATRICK TSE
Laboratory Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33964D
Date of Issue:	2020-08-24
Date Received:	2020-08-21
Date Tested:	2020-08-21
Date Completed:	2020-08-24
Next Due Date:	2020-10-23
Page:	1 of 1

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

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24478
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-10

Test Conditions:

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

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.139

****

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

PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	34223D
Date of Issue:	2020-10-27
Date Received:	2020-10-23
Date Tested:	2020-10-23
Date Completed:	2020-10-27
Next Due Date:	2020-12-26
Page:	1 of 1

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

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24478
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-10

Test Conditions:

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

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.101

****

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

PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33962
Date of Issue:	2020-08-15
Date Received:	2020-08-13
Date Tested:	2020-08-13
Date Completed:	2020-08-15
Next Due Date:	2021-08-14
Page:	1 of 1

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

Certificate of Calibration

Item for Calibration:

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

Test Conditions:

Room Temperatre	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

****

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

Patrick Tse
PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	34065A
Date of Issue:	2020-09-18
Date Received:	2020-09-15
Date Tested:	2020-09-15
Date Completed:	2020-09-18
Next Due Date:	2021-09-17
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 977
Serial No.	: 45482
Microphone No.	: 63626
Equipment No.	: N-08-14

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

PATRICK TSE
General Manager

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 1214, 1502, 1516, 1701 & 1716,
Technology Park, 18 On Lai Street,
Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	32667B
Date of Issue:	2019-12-06
Date Received:	2019-12-04
Date Tested:	2019-12-04
Date Completed:	2019-12-06
Next Due Date:	2020-12-05
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

Description	: Sound & Vibration Analyser
Manufacturer	: BSWA
Model No.	: BSWA 801
Serial No.	: 35927
Equipment No.	: N-13-03

Test conditions:

Room Temperatre	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

Patrick Tse

PATRICK TSE
General Manager

WELLAB LIMITED
Rms 1214, 1502, 1516, 1701 & 1716,
Technology Park, 18 On Lai Street,
Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33250B
Date of Issue:	2020-03-11
Date Received:	2020-03-10
Date Tested:	2020-03-10
Date Completed:	2020-03-11
Next Due Date:	2021-03-10
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580005
Equipment No.	: WN-01-03

Test conditions:

Room Temperatre	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

Patrick Tse

PATRICK TSE
General Manager

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 1214, 1502, 1516, 1701 & 1716,
Technology Park, 18 On Lai Street,
Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33250C
Date of Issue:	2020-03-11
Date Received:	2020-03-10
Date Tested:	2020-03-10
Date Completed:	2020-03-11
Next Due Date:	2021-03-10
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580006
Equipment No.	: WN-01-04

Test conditions:

Room Temperatre	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

PATRICK TSE
General Manager

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 1214, 1502, 1516, 1701 & 1716,
Technology Park, 18 On Lai Street,
Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33251A
Date of Issue:	2020-03-13
Date Received:	2020-03-12
Date Tested:	2020-03-12
Date Completed:	2020-03-13
Next Due Date:	2021-03-12
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580013
Equipment No.	: WN-01-09

Test conditions:

Room Temperatre	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

Patrick Tse

PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	34136
Date of Issue:	2020-10-03
Date Received:	2020-09-29
Date Tested:	2020-09-29
Date Completed:	2020-10-03
Next Due Date:	2021-10-02
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

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

Test conditions:

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

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
PATRICK TSE
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33963A
Date of Issue:	2020-08-21
Date Received:	2020-08-19
Date Tested:	2020-08-19
Date Completed:	2020-08-21
Next Due Date:	2021-08-20
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

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

Test conditions:

Room Temperatre	: 17-22 degree Celsius
Relative Humidity	: 40-70%

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
General Manager

WELLAB 匯力
consulting . testing . research

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

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	34136A
Date of Issue:	2020-10-03
Date Received:	2020-09-29
Date Tested:	2020-09-29
Date Completed:	2020-10-03
Next Due Date:	2021-10-02
Page:	1 of 1

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

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24780
Equipment No.	: N-09-05

Test conditions:

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

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
General Manager

APPENDIX D
ENVIRONMENTAL MONITORING SCHEDULES

Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Impact Air Quality, Noise and Ecological Monitoring Schedule (October 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Oct	2-Oct	3-Oct
4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct
	1 hr TSP X3 AM2	**1 hr TSP X3** AM1 **Noise** NM1 to NM7, NM10		Monitoring of Flora Species of Conservation Interest	**1 hr TSP X3** AM2 **Noise** NM8 to NM9, NM11 to NM14	
11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct
	1 hr TSP X3 AM1 **Noise** NM1 to NM7, NM10			**1 hr TSP X3** AM2 **Noise** NM8 to NM9, NM11 to NM14	**1 hr TSP X3** AM1	
18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct
			1 hr TSP X3 AM2 **Noise** NM8 to NM9, NM11 to NM14	**1 hr TSP X3** AM1 **Noise** NM1 to NM7, NM10		
25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct
		1 hr TSP X3 AM2 **Noise** NM8 to NM9, NM11 to NM14	**1 hr TSP X3** AM1 **Noise** NM1 to NM7, NM10			

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

Air Quality Monitoring Station(s)
AM1 - Village House, Kong Nga Po
AM2 - Village House, Kong Nga Po

Noise Monitoring Station(s)

NM1 - Village House, Sha Ling	NM8 - Village House, Sha Ling
NM2 - Village House, Sha Ling	NM9 - Village House, Kong Nga Po
NM3 - Village House No. 248, Sha Ling	NM10 - Village House, Kong Nga Po
NM4 - Village House, Sha Ling	NM11 - Village House, Kong Nga Po
NM5 - Village House No. 270, Sha Ling	NM12 - Village House, Kong Nga Po
NM6 - Village House, Sha Ling	NM13 - Village House, Kong Nga Po
NM7 - Village House, Sha Ling	NM14 - Village House, near Man Kam To Road

Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Tentative Impact Air Quality, Noise and Ecological Monitoring Schedule (November 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov
	1 hr TSP X3 AM2	**1 hr TSP X3** AM1 **Noise** NM1 to NM7, NM10			**1 hr TSP X3** AM2 **Noise** NM8 to NM9, NM11 to NM14	
8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov
	1 hr TSP X3 AM1 **Noise** NM1 to NM7, NM10			**1 hr TSP X3** AM2 **Noise** NM8 to NM9, NM11 to NM14	**1 hr TSP X3** AM1	
15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov
	Monitoring of Flora Species of Conservation Interest		**1 hr TSP X3** AM2 **Noise** NM8 to NM9, NM11 to NM14	**1 hr TSP X3** AM1 **Noise** NM1 to NM7, NM10		
22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov
		1 hr TSP X3 AM2 **Noise** NM8 to NM9, NM11 to NM14	**1 hr TSP X3** AM1 **Noise** NM1 to NM7, NM10			
29-Nov	30-Nov					
	1 hr TSP X3 AM2 **Noise** NM8 to NM9, NM11 to NM14					

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

Air Quality Monitoring Station(s)
AM1 - Village House, Kong Nga Po
AM2 - Village House, Kong Nga Po

Noise Monitoring Station(s)

NM1 - Village House, Sha Ling	NM8 - Village House, Sha Ling
NM2 - Village House, Sha Ling	NM9 - Village House, Kong Nga Po
NM3 - Village House No. 248, Sha Ling	NM10 - Village House, Kong Nga Po
NM4 - Village House, Sha Ling	NM11 - Village House, Kong Nga Po
NM5 - Village House No. 270, Sha Ling	NM12 - Village House, Kong Nga Po
NM6 - Village House, Sha Ling	NM13 - Village House, Kong Nga Po
NM7 - Village House, Sha Ling	NM14 - Village House, near Man Kam To Road

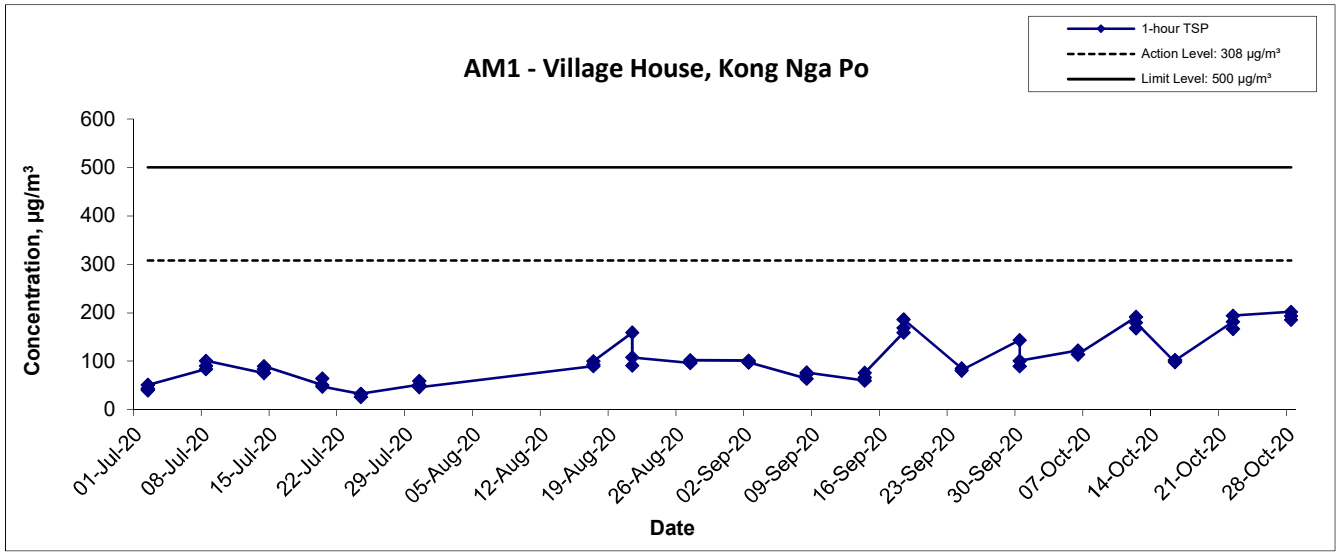
APPENDIX E
AIR QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

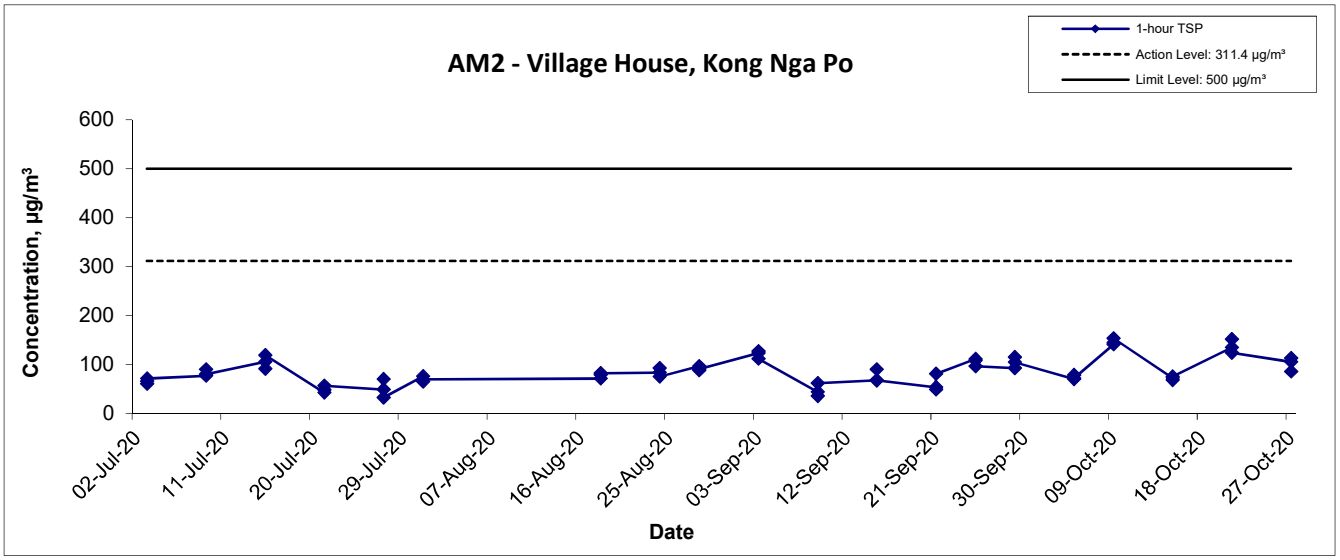
Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration (μg/m^3)
6-Oct-20	8:55	Cloudy	122.6
6-Oct-20	9:55	Cloudy	114.0
6-Oct-20	10:55	Cloudy	114.6
12-Oct-20	9:00	Sunny	191.8
12-Oct-20	10:00	Sunny	168.1
12-Oct-20	11:00	Sunny	179.6
16-Oct-20	13:00	Sunny	98.1
16-Oct-20	14:00	Sunny	102.7
16-Oct-20	15:00	Sunny	101.3
22-Oct-20	13:30	Sunny	181.6
22-Oct-20	14:30	Sunny	166.9
22-Oct-20	15:30	Sunny	194.1
28-Oct-20	13:00	Cloudy	202.0
28-Oct-20	14:00	Cloudy	193.4
28-Oct-20	15:00	Cloudy	185.5
		Minimum	98.1
		Maximum	202.0
		Average	154.4

Location AM2 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration (μg/m³)
5-Oct-20	9:00	Sunny	69.8
5-Oct-20	10:00	Sunny	78.1
5-Oct-20	11:00	Sunny	71.8
9-Oct-20	9:00	Sunny	141.1
9-Oct-20	10:00	Sunny	144.3
9-Oct-20	11:00	Sunny	153.3
15-Oct-20	14:00	Sunny	72.8
15-Oct-20	15:00	Sunny	67.7
15-Oct-20	16:00	Sunny	75.1
21-Oct-20	10:00	Sunny	134.5
21-Oct-20	11:00	Sunny	151.6
21-Oct-20	13:00	Sunny	124.0
27-Oct-20	9:45	Sunny	105.1
27-Oct-20	10:45	Sunny	85.1
27-Oct-20	13:00	Sunny	112.6
		Minimum	67.7
		Maximum	153.3
		Average	105.8

1-hr TSP Concentration Levels





Title	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of 1-hour TSP Monitoring Results	Scale: N.T.S Date: Oct 20	Project No.: WMA20001 Appendix: E	WELLAB 匯力 consulting . testing . research

APPENDIX F
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - Noise Monitoring Results

Location NM1 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	11:10	55.3	57.4	52.3	56.2	54.9
		11:15	55.1	57.1	51.9		
		11:20	54.7	55.8	52.4		
		11:25	54.9	57.1	52.3		
		11:30	58.4	61.8	54.4		
		11:35	57.3	59.5	52.2		
12-Oct-20	Sunny	11:05	54.3	58.2	50.0	56.6	
		11:10	56.2	58.6	50.2		
		11:15	59.7	63.9	50.8		
		11:20	53.8	58.5	50.8		
		11:25	57.7	62.1	50.6		
		11:30	55.1	55.7	50.9		
22-Oct-20	Sunny	16:00	55.8	57.4	53.4	57.4	
		16:05	55.9	58.0	53.2		
		16:10	57.2	59.6	56.7		
		16:15	57.3	59.2	55.0		
		16:20	58.1	60.6	54.8		
		16:25	59.1	61.9	55.0		
28-Oct-20	Cloudy	13:00	52.6	54.9	51.9	53.8	
		13:05	53.5	55.6	51.7		
		13:10	54.0	56.8	52.7		
		13:15	54.4	57.7	52.3		
		13:20	53.9	56.2	50.8		
		13:25	54.4	56.8	51.1		

Location NM2 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	11:05	56.4	58.8	47.8	55.3	56.7
		11:10	54.2	55.4	45.6		
		11:15	54.4	58.2	46.2		
		11:20	54.7	58.2	47.6		
		11:25	53.5	56.8	46.4		
		11:30	57.2	60.2	47.1		
12-Oct-20	Sunny	10:00	58.4	58.5	51.3	60.0	
		10:05	64.8	66.5	54.6		
		10:10	60.3	62.1	55.5		
		10:15	57.4	59.0	55.7		
		10:20	55.6	58.7	51.7		
		10:25	54.7	57.1	51.8		
22-Oct-20	Sunny	15:25	60.7	63.0	42.8	58.3	
		15:30	56.3	59.5	50.0		
		15:35	61.1	62.3	51.3		
		15:40	56.4	59.5	51.6		
		15:45	56.0	59.2	50.3		
		15:50	55.6	59.2	50.0		
28-Oct-20	Cloudy	13:10	52.5	55.2	46.9	52.7	
		13:15	53.2	54.3	42.3		
		13:20	51.4	55.5	43.7		
		13:25	52.1	54.0	42.0		
		13:30	52.9	54.5	42.9		
		13:35	53.5	54.9	43.0		

Appendix F - Noise Monitoring Results

Location NM3 - Village House No. 248, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	10:35	54.0	57.5	46.6	53.6	54.5
		10:40	54.5	58.2	46.7		
		10:45	54.3	57.1	46.6		
		10:50	53.4	56.7	45.6		
		10:55	52.6	55.5	44.7		
		11:00	52.6	56.5	44.0		
12-Oct-20	Sunny	10:45	52.3	55.7	46.9	53.2	
		10:50	50.4	52.4	46.3		
		10:55	53.6	57.8	43.3		
		11:00	55.9	59.6	42.4		
		11:05	50.6	54.5	42.2		
		11:10	54.0	56.8	42.6		
22-Oct-20	Sunny	14:40	54.4	56.5	46.4	54.4	
		14:45	54.2	57.6	47.3		
		14:50	55.5	58.3	46.2		
		14:55	52.3	55.9	45.8		
		15:00	55.0	57.8	47.2		
		15:05	54.3	58.3	45.4		
28-Oct-20	Cloudy	13:40	54.9	58.2	48.5	54.8	
		13:45	54.8	57.9	48.5		
		13:50	54.0	57.9	48.7		
		13:55	54.5	58.9	49.1		
		14:00	55.6	58.9	49.9		
		14:05	54.9	58.8	47.6		

Location NM4 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	9:30	61.6	69.4	51.6	58.6	58.7
		9:35	57.5	59.8	51.2		
		9:40	56.5	60.2	50.5		
		9:45	57.8	61.6	51.7		
		9:50	57.4	60.7	50.9		
		9:55	58.5	62.5	51.8		
12-Oct-20	Sunny	8:50	56.5	59.9	51.4	54.9	
		8:55	54.6	58.3	48.1		
		9:00	55.3	59.2	48.0		
		9:05	54.9	58.4	48.1		
		9:10	52.1	54.5	47.8		
		9:15	54.8	59.2	46.9		
22-Oct-20	Sunny	14:45	55.2	58.6	50.1	56.1	
		14:50	56.9	59.2	51.3		
		14:55	54.4	59.2	50.3		
		15:00	55.3	58.9	48.1		
		15:05	56.9	59.4	48.3		
		15:10	57.1	60.3	49.7		
28-Oct-20	Cloudy	14:20	57.3	60.8	52.5	64.2	
		14:25	58.1	58.8	51.4		
		14:30	55.2	58.3	51.4		
		14:35	56.4	59.4	51.8		
		14:40	62.4	67.1	52.3		
		14:45	70.8	75.0	55.7		

Appendix F - Noise Monitoring Results

Location NM5 - Village House No. 270, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	8:50	62.5	64.0	49.0	61.3	57.0
		8:55	59.2	61.6	48.9		
		9:00	59.8	63.1	50.3		
		9:05	61.1	64.9	49.8		
		9:10	61.9	65.2	50.0		
		9:15	62.2	66.9	49.7		
12-Oct-20	Sunny	9:05	55.2	60.3	51.3	57.3	
		9:10	57.5	60.8	51.2		
		9:15	55.2	57.3	51.4		
		9:20	58.2	60.5	54.7		
		9:25	58.0	61.3	54.4		
		9:30	58.5	61.1	54.6		
22-Oct-20	Sunny	13:20	59.4	61.6	53.7	58.5	
		13:25	58.1	60.8	53.1		
		13:30	58.8	62.5	53.2		
		13:35	58.6	61.9	52.5		
		13:40	56.2	57.1	52.2		
		13:45	59.1	63.3	51.0		
28-Oct-20	Cloudy	13:50	55.7	58.3	44.7	56.6	
		13:55	56.3	58.7	50.7		
		14:00	57.5	60.7	47.0		
		14:05	56.9	59.2	48.2		
		14:10	55.9	58.0	47.1		
		14:15	57.2	59.3	49.2		

Location NM6 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	10:25	53.9	59.9	49.5	57.8	56.0
		10:30	57.6	61.6	51.6		
		10:35	57.5	61.4	48.8		
		10:40	57.8	60.8	48.6		
		10:45	60.0	62.2	48.3		
		10:50	58.2	60.9	48.7		
12-Oct-20	Sunny	8:10	56.7	58.0	45.8	51.9	
		8:15	49.0	51.4	46.0		
		8:20	49.4	53.0	46.8		
		8:25	49.5	52.5	46.2		
		8:30	49.4	52.2	46.8		
		8:35	50.8	53.4	47.0		
22-Oct-20	Sunny	14:00	62.0	64.5	52.0	62.1	
		14:05	64.0	66.3	54.0		
		14:10	57.8	61.9	49.0		
		14:15	57.0	60.2	52.0		
		14:20	61.9	63.0	52.4		
		14:25	64.6	65.1	52.8		
28-Oct-20	Cloudy	14:30	57.9	61.6	43.7	60.6	
		14:35	63.5	66.3	43.8		
		14:40	62.1	65.3	43.8		
		14:45	56.4	60.1	44.9		
		14:50	58.7	62.0	48.7		
		14:55	61.1	62.6	46.6		

Appendix F - Noise Monitoring Results

Location NM7 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	9:40	53.3	53.8	44.0	51.0	49.8
		9:45	50.3	54.0	43.8		
		9:50	48.6	51.8	43.8		
		9:55	51.1	55.2	43.2		
		10:00	49.7	52.6	43.6		
		10:05	51.6	54.4	44.5		
12-Oct-20	Sunny	9:55	52.1	52.4	44.1	53.9	
		10:00	48.0	51.2	44.8		
		10:05	50.6	53.5	44.9		
		10:10	55.0	55.8	44.5		
		10:15	57.3	60.7	51.6		
		10:20	54.3	59.2	44.2		
22-Oct-20	Sunny	14:10	48.2	51.5	44.7	49.6	
		14:15	49.7	52.8	44.2		
		14:20	50.2	54.1	43.8		
		14:25	50.6	53.5	44.7		
		14:30	49.7	51.6	43.0		
		14:35	48.8	51.7	44.9		
28-Oct-20	Cloudy	14:55	47.0	49.1	43.2	46.6	
		15:00	46.5	48.5	42.8		
		15:05	45.0	47.4	40.1		
		15:10	46.2	48.4	42.4		
		15:15	47.7	51.0	40.6		
		15:20	46.8	49.0	42.1		

Location NM8 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Oct-20	Sunny	8:45	51.1	53.2	44.5	50.0	57.6
		8:50	49.1	53.0	44.4		
		8:55	47.5	49.1	43.3		
		9:00	48.1	50.7	44.7		
		9:05	48.8	52.1	43.9		
		9:10	53.0	57.6	44.9		
15-Oct-20	Sunny	10:45	60.9	52.0	44.1	57.2	
		10:50	57.9	61.5	48.2		
		10:55	57.9	62.7	46.4		
		11:00	54.2	57.3	47.1		
		11:05	54.9	59.3	46.4		
		11:10	50.0	52.1	43.2		
21-Oct-20	Sunny	11:30	51.2	55.0	43.0	54.7	
		11:35	49.7	53.2	41.0		
		11:40	47.4	49.8	40.5		
		11:45	51.1	53.9	43.0		
		11:50	57.1	59.1	43.2		
		11:55	59.3	60.1	44.2		
27-Oct-20	Sunny	10:20	56.7	59.5	51.6	59.0	
		10:25	58.8	58.8	50.3		
		10:30	58.9	59.7	49.5		
		10:35	60.8	61.4	53.3		
		10:40	59.3	60.0	52.7		
		10:45	58.7	59.3	51.7		

Appendix F - Noise Monitoring Results

Location NM9 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Oct-20	Sunny	9:45	63.4	60.3	53.8	62.5	55.9
		9:50	61.1	64.3	54.7		
		9:55	60.9	63.8	55.3		
		10:00	62.7	64.6	55.0		
		10:05	61.8	64.8	53.0		
		10:10	64.3	67.1	60.1		
15-Oct-20	Sunny	11:30	60.1	63.3	54.8	60.1	
		11:35	58.0	59.7	51.4		
		11:40	60.3	62.1	54.0		
		11:45	59.8	61.7	51.1		
		11:50	61.5	64.8	51.8		
		11:55	60.4	63.3	52.8		
21-Oct-20	Sunny	10:50	59.0	63.3	48.0	60.5	
		10:55	60.4	64.6	47.7		
		11:00	61.1	63.0	47.5		
		11:05	61.2	63.7	58.4		
		11:10	58.7	61.9	55.6		
		11:15	61.6	63.3	55.7		
27-Oct-20	Sunny	10:55	58.4	60.7	39.0	55.4	
		11:00	52.8	58.2	41.4		
		11:05	53.7	54.9	40.4		
		11:10	55.7	59.5	41.7		
		11:15	54.9	57.5	41.0		
		11:20	54.5	58.6	42.3		

Location NM10 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
6-Oct-20	Cloudy	9:00	57.7	60.6	51.1	55.1	52.8
		9:05	52.8	55.0	50.5		
		9:10	54.5	57.3	51.3		
		9:15	56.0	56.9	52.2		
		9:20	54.2	56.5	51.4		
		9:25	53.1	55.4	50.3		
12-Oct-20	Sunny	8:00	60.7	62.0	49.1	57.9	
		8:05	55.6	59.4	47.6		
		8:10	57.7	61.7	49.0		
		8:15	56.7	61.0	49.2		
		8:20	56.0	59.4	48.9		
		8:25	58.6	61.9	49.9		
22-Oct-20	Sunny	13:30	54.5	56.4	51.4	57.7	
		13:35	57.6	61.2	49.5		
		13:40	58.9	61.7	49.8		
		13:45	60.3	62.4	49.3		
		13:50	56.3	59.2	48.8		
		13:55	56.0	56.8	52.5		
28-Oct-20	Cloudy	15:15	56.0	56.5	53.6	56.4	
		15:20	56.3	57.6	54.7		
		15:25	56.2	56.3	53.4		
		15:30	57.1	57.9	54.0		
		15:35	55.9	56.5	53.9		
		15:40	56.6	57.0	53.7		

Appendix F - Noise Monitoring Results

Location NM11 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Oct-20	Sunny	11:30	50.2	52.1	41.9	45.9	46.4
		11:35	44.5	45.6	41.0		
		11:40	45.1	47.7	40.9		
		11:45	44.8	45.2	39.9		
		11:50	42.6	44.3	39.3		
		11:55	42.8	44.0	38.5		
15-Oct-20	Sunny	14:10	55.1	55.8	54.2	55.1	
		14:15	55.7	56.4	53.3		
		14:20	56.4	57.3	53.9		
		14:25	55.0	57.1	53.9		
		14:30	54.8	57.0	52.5		
		14:35	52.7	54.0	50.1		
21-Oct-20	Sunny	13:10	52.5	53.5	51.0	52.9	
		13:15	53.1	55.4	50.7		
		13:20	52.7	51.5	50.0		
		13:25	52.6	55.2	48.2		
		13:30	55.1	57.6	49.8		
		13:35	49.9	51.6	47.8		
27-Oct-20	Sunny	13:05	48.1	52.0	40.1	51.7	
		13:10	46.5	50.3	39.0		
		13:15	43.5	45.8	37.6		
		13:20	47.2	50.8	39.1		
		13:25	54.2	56.1	39.3		
		13:30	56.4	57.2	41.4		

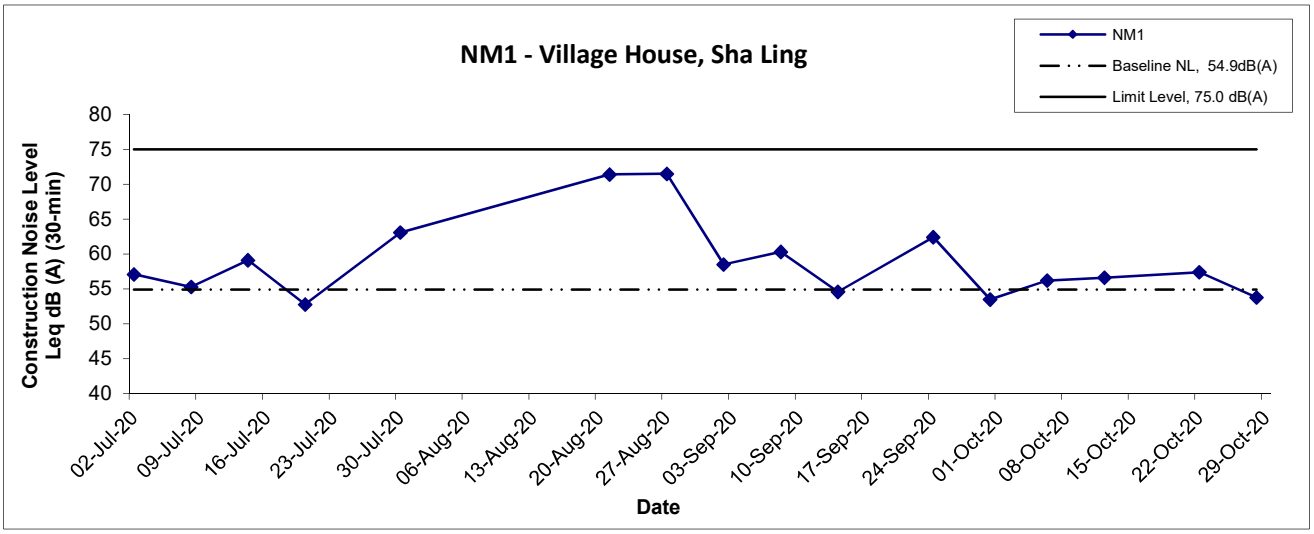
Location NM12 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Oct-20	Sunny	9:00	51.6	52.0	50.7	51.3	54.7
		9:05	51.4	52.0	50.8		
		9:10	51.2	51.7	50.6		
		9:15	51.4	52.0	50.8		
		9:20	51.1	51.7	50.7		
		9:25	51.1	51.6	50.6		
15-Oct-20	Sunny	16:00	61.9	62.9	52.3	61.0	
		16:05	60.6	62.5	54.3		
		16:10	60.7	62.5	55.6		
		16:15	61.4	63.1	55.8		
		16:20	60.4	61.9	54.2		
		16:25	61.0	62.6	54.0		
21-Oct-20	Sunny	10:00	56.1	60.3	45.1	59.7	
		10:05	57.5	61.7	43.6		
		10:10	58.2	62.1	43.4		
		10:15	58.3	60.8	55.4		
		10:20	58.0	60.7	55.2		
		10:25	64.2	63.2	55.5		
27-Oct-20	Sunny	9:45	59.5	60.7	57.6	60.9	
		9:50	60.3	61.5	58.2		
		9:55	63.6	63.5	59.2		
		10:00	59.8	60.9	55.3		
		10:05	61.2	61.9	58.6		
		10:10	59.3	59.9	58.0		

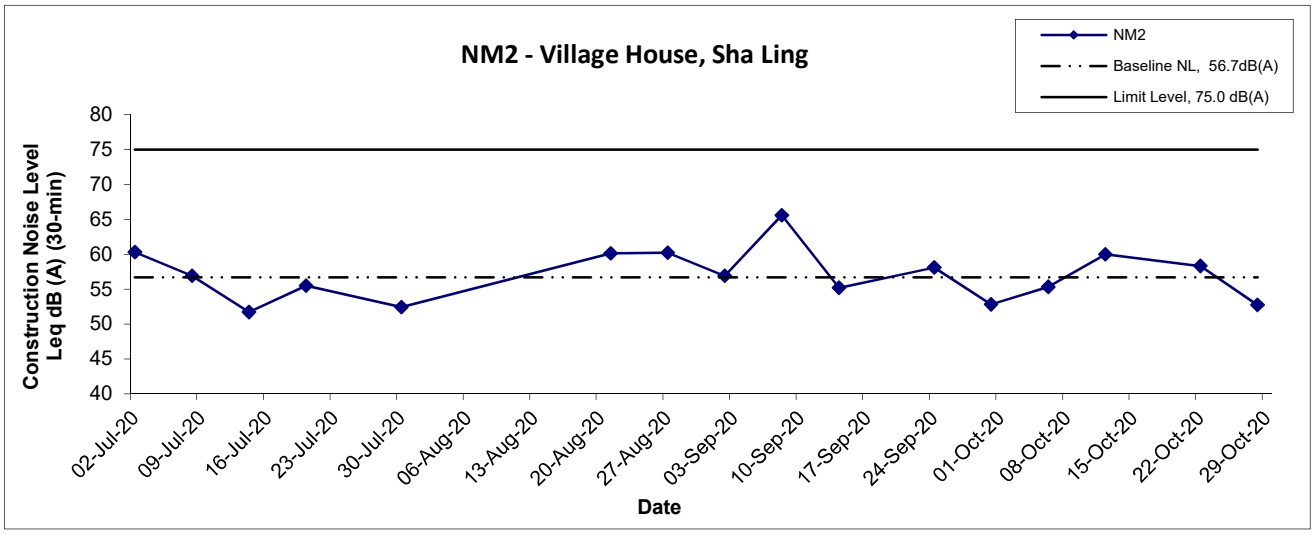
Appendix F - Noise Monitoring Results

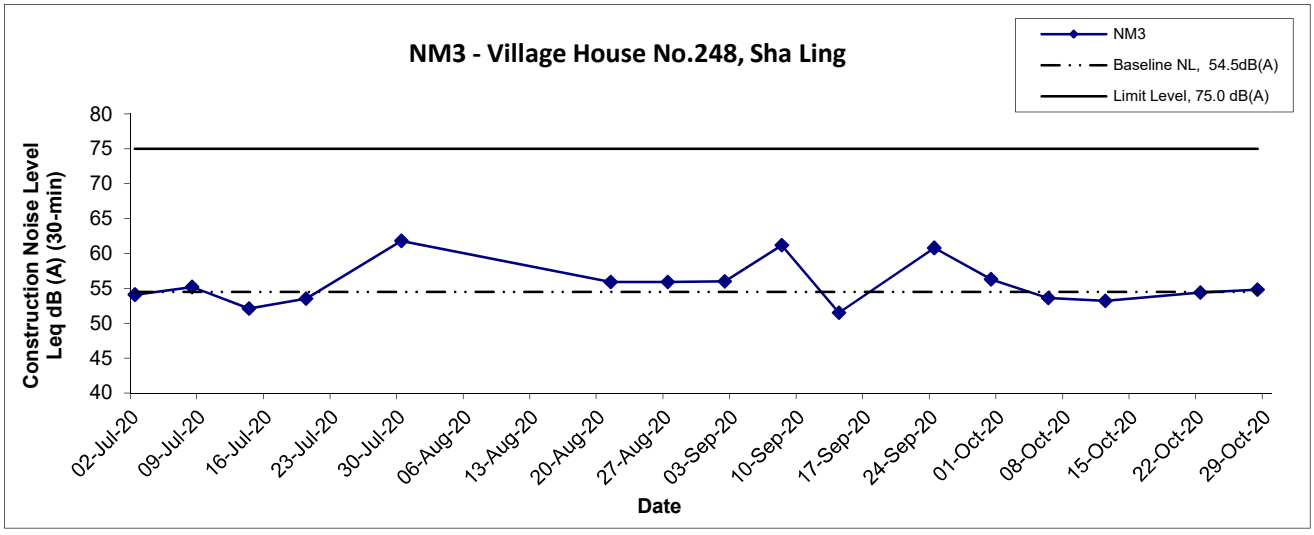
Location NM13 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Oct-20	Sunny	10:40	55.1	53.2	44.9	49.8	61.3
		10:45	47.5	48.6	44.0		
		10:50	48.1	50.7	43.9		
		10:55	47.8	48.2	42.9		
		11:00	45.6	47.3	42.3		
		11:05	45.8	47.0	41.5		
15-Oct-20	Sunny	13:30	49.0	52.1	40.2	51.5	
		13:35	48.5	50.9	39.3		
		13:40	47.0	49.0	38.1		
		13:45	47.1	50.8	39.1		
		13:50	53.1	56.2	39.5		
		13:55	56.0	57.3	41.4		
21-Oct-20	Sunny	14:00	54.7	59.4	47.2	55.2	
		14:05	54.8	59.6	43.4		
		14:10	54.1	57.1	47.0		
		14:15	51.8	55.3	41.8		
		14:20	53.6	57.0	47.1		
		14:25	58.7	59.7	48.1		
27-Oct-20	Sunny	11:30	57.0	61.3	48.0	60.4	
		11:35	60.4	62.6	47.7		
		11:40	59.2	62.0	47.4		
		11:45	58.2	61.7	57.4		
		11:50	59.3	61.8	56.2		
		11:55	64.3	63.8	55.5		

Location NM14 - Village House, near Man Kam To Road							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Oct-20	Sunny	13:00	56.1	57.0	55.2	57.3	59.6
		13:05	58.3	59.7	55.2		
		13:10	57.2	57.7	55.7		
		13:15	56.6	56.7	55.1		
		13:20	58.1	58.6	54.7		
		13:25	57.3	58.5	54.9		
15-Oct-20	Sunny	14:50	56.0	60.4	44.9	59.7	
		14:55	57.3	61.5	43.8		
		15:00	58.1	62.1	43.3		
		15:05	58.3	60.9	55.1		
		15:10	58.2	60.8	55.1		
		15:15	64.3	63.2	55.1		
21-Oct-20	Sunny	15:00	59.6	63.7	47.9	57.9	
		15:05	61.6	64.5	48.9		
		15:10	57.9	62.7	48.1		
		15:15	54.6	57.6	46.5		
		15:20	54.9	59.2	46.3		
		15:25	50.1	53.2	46.2		
27-Oct-20	Sunny	13:45	53.3	55.0	43.0	52.8	
		13:50	49.4	53.2	41.0		
		13:55	50.1	53.9	42.0		
		14:00	47.4	48.8	40.5		
		14:05	54.1	57.2	42.2		
		14:10	56.4	57.2	46.2		

Noise Levels

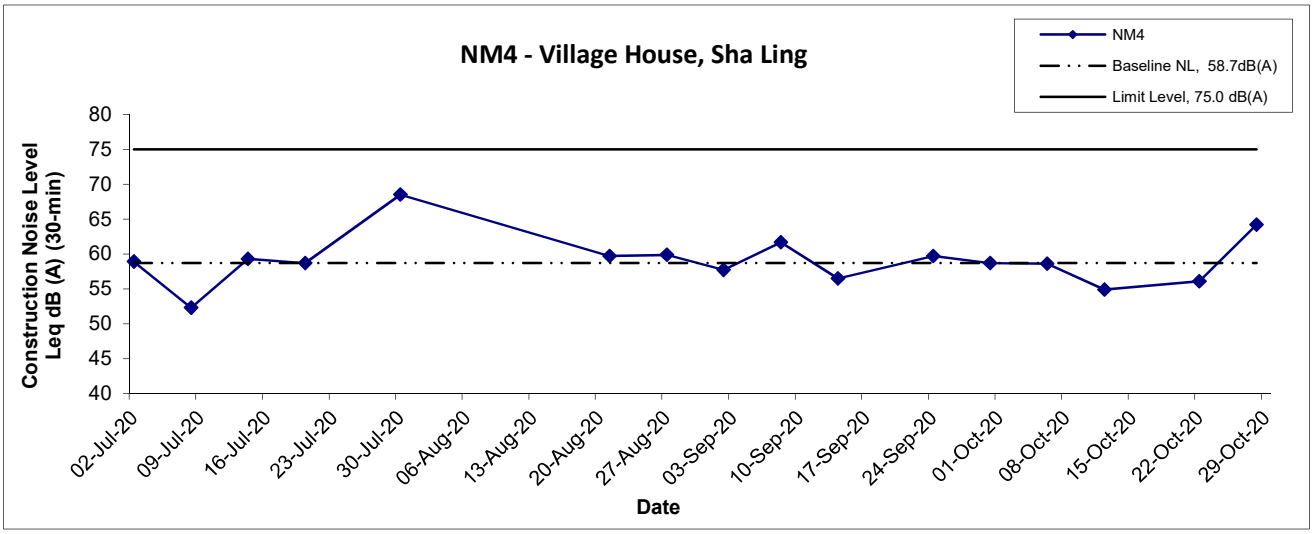


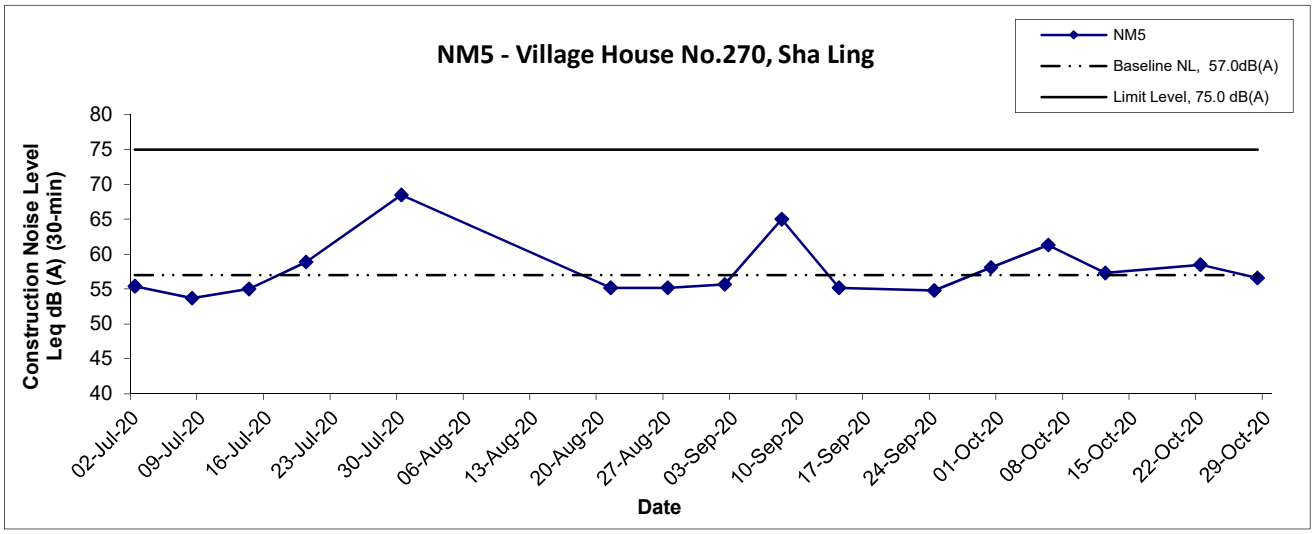


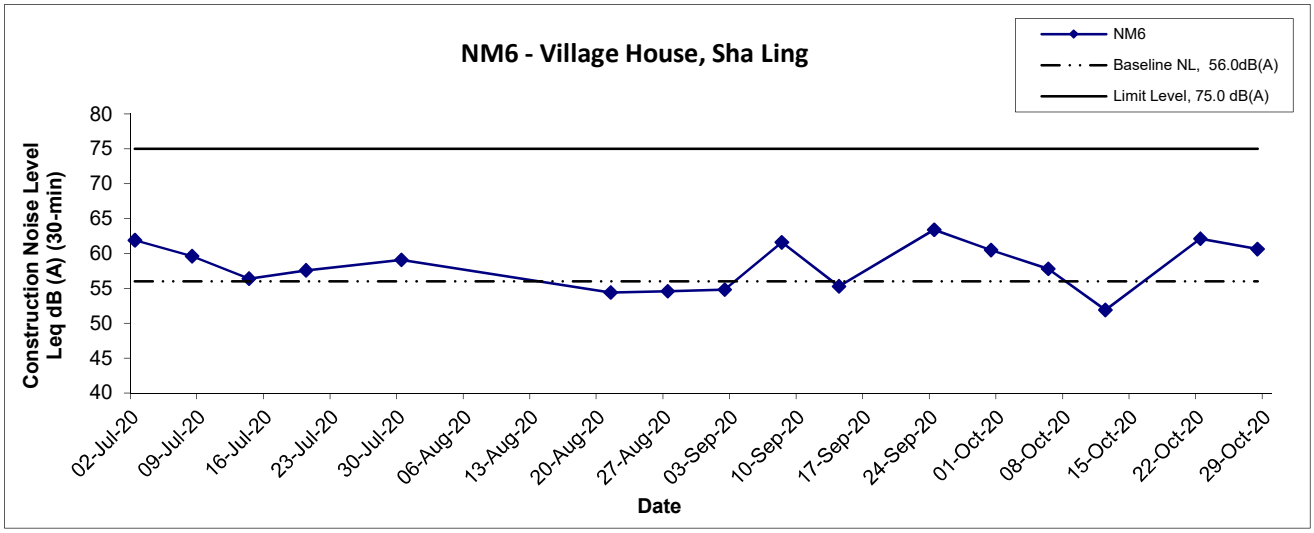


Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: F	

Noise Levels



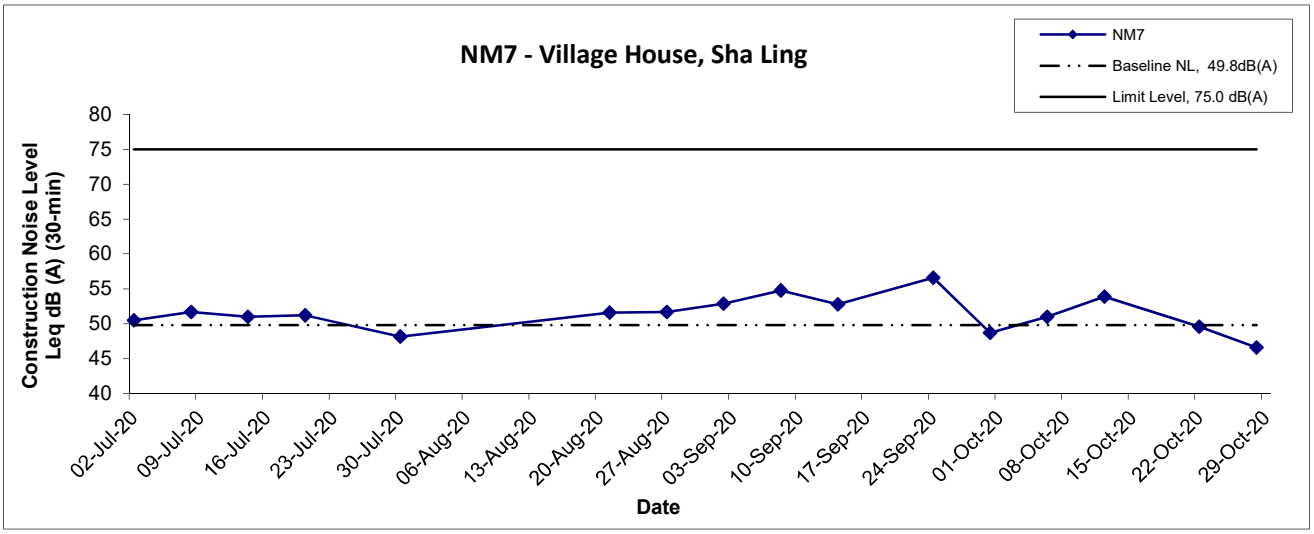


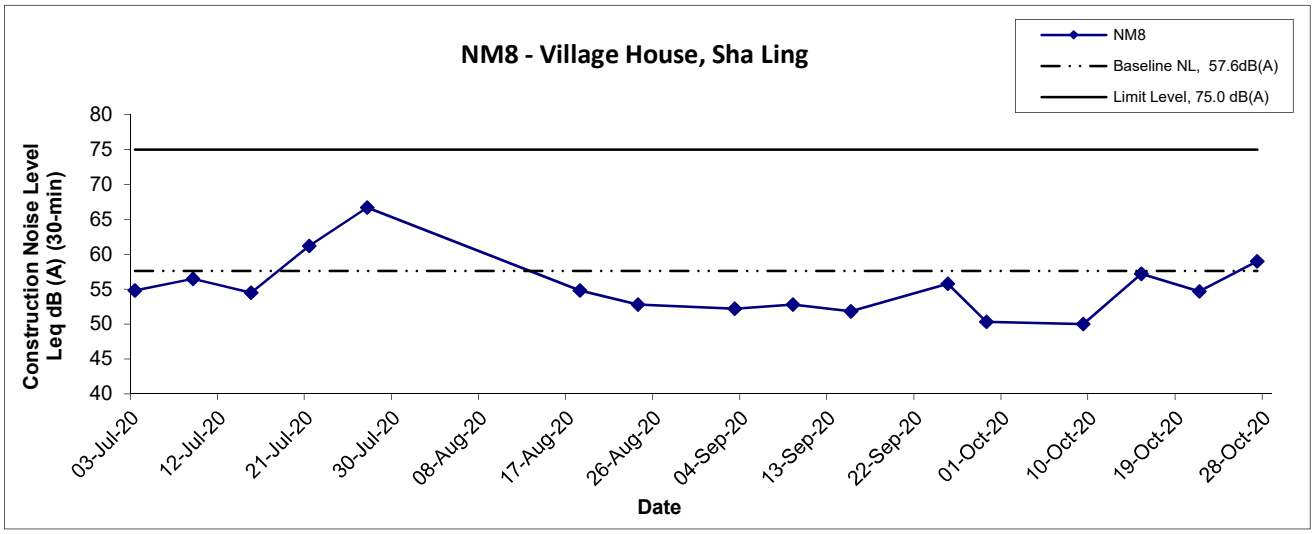


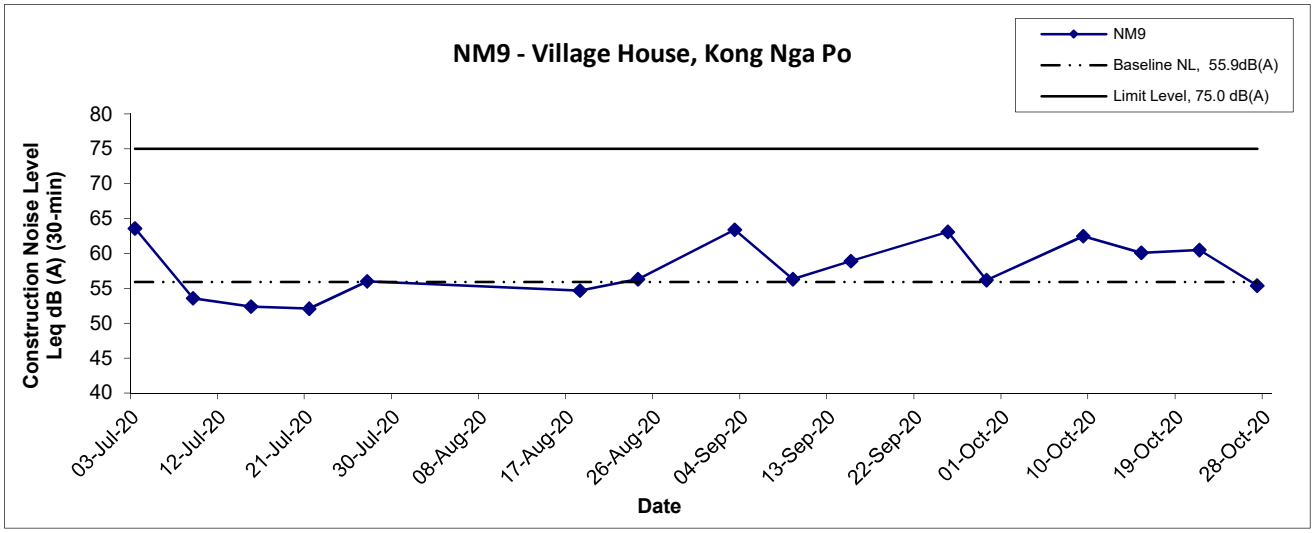
Title	Scale	Project No.
Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	N.T.S	WMA20001
	Date: Oct 20	Appendix: F

WELLAB 匯力 consulting . testing . research

Noise Levels

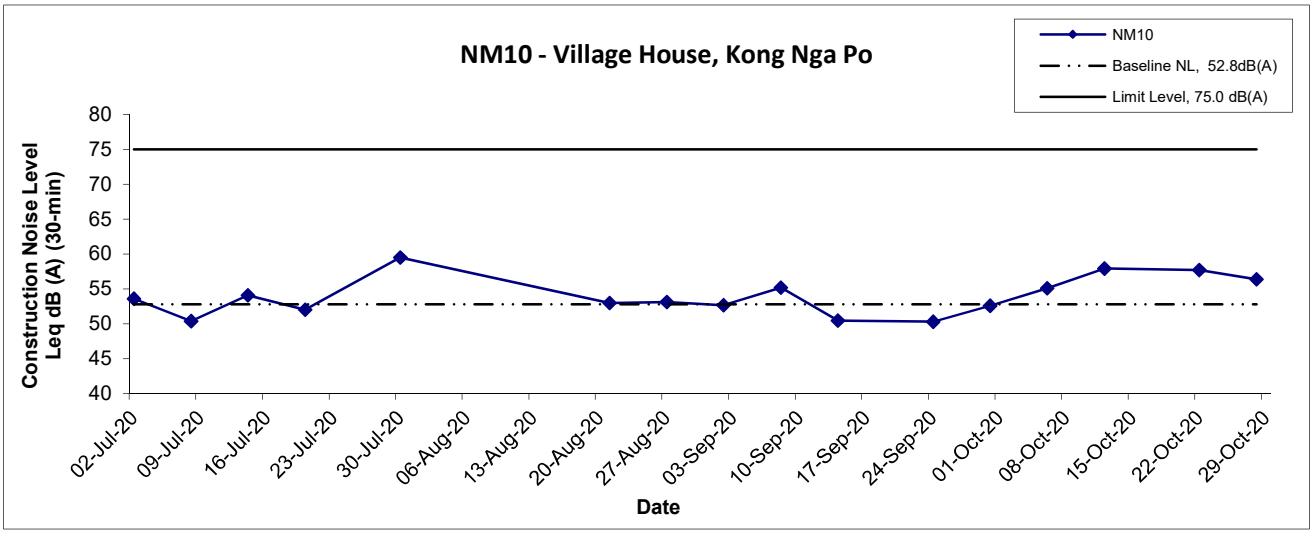


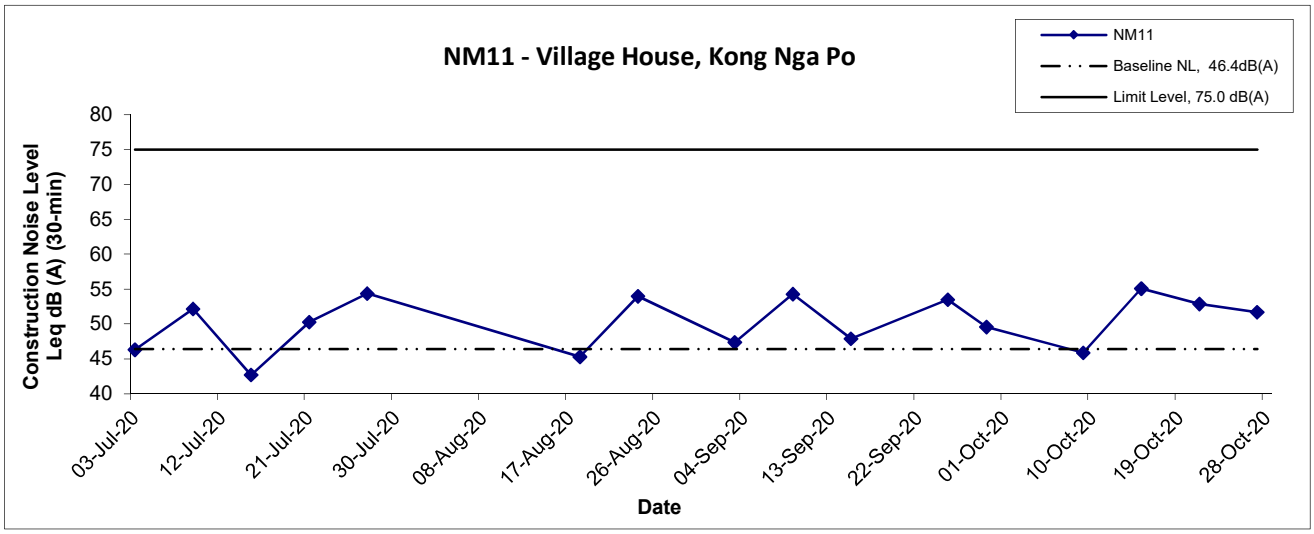


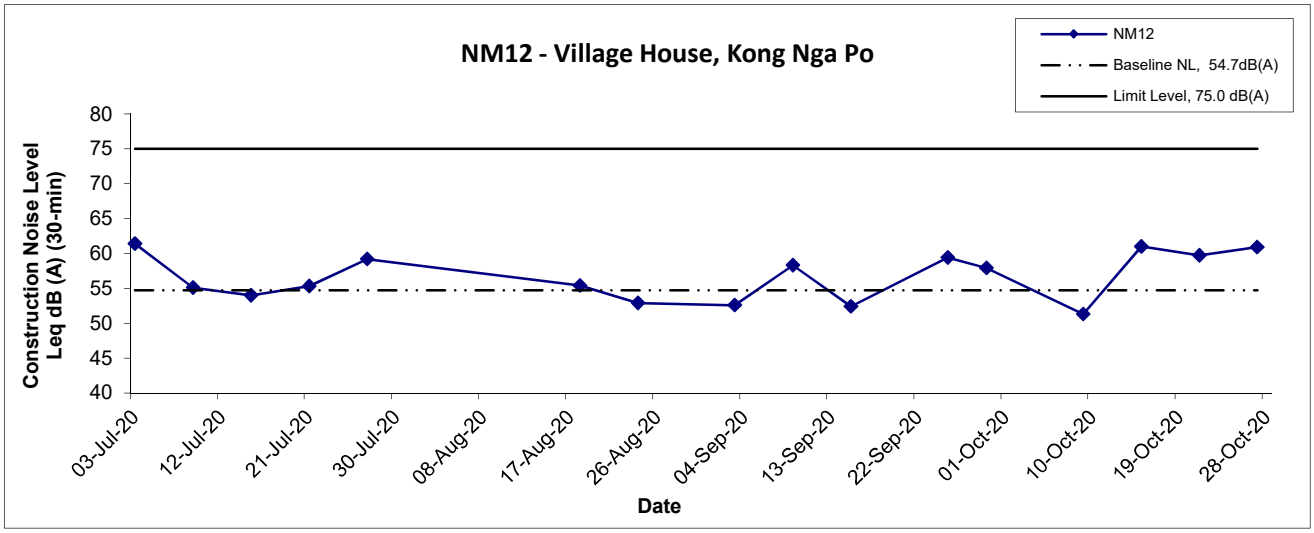


Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: F	

Noise Levels

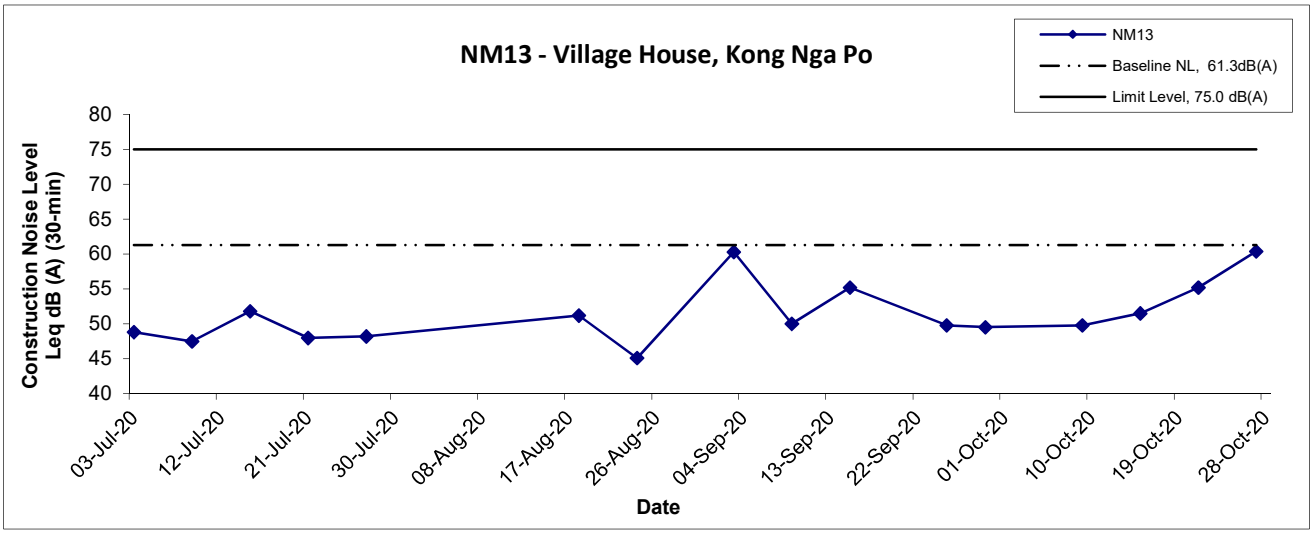


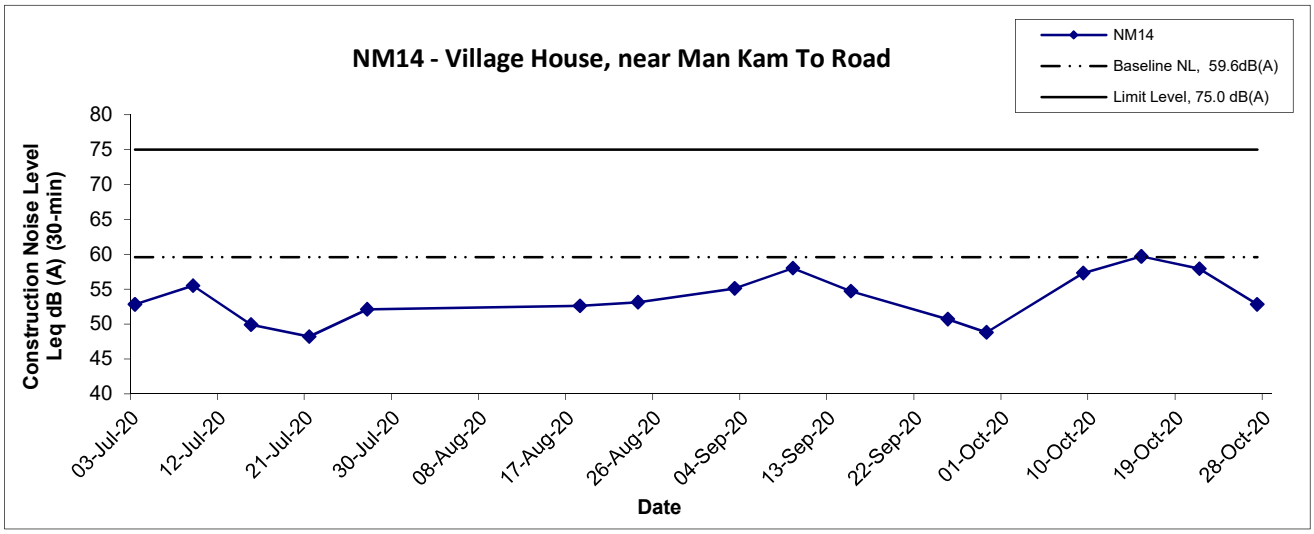




Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: F	

Noise Levels





Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: F	

APPENDIX G
WEATHER CONDITION

Appendix G –
General Weather Conditions during the Monitoring Period (October 2020)

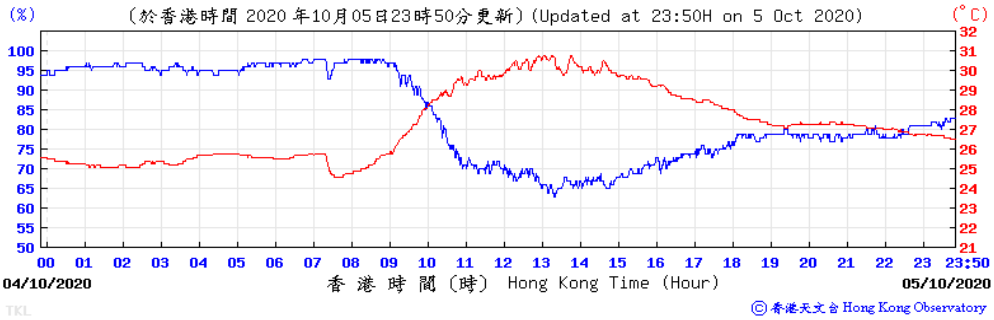
Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 Oct 2020	26.7	77	0.1
2 Oct 2020	27.6	75	-
3 Oct 2020	28.3	75	-
4 Oct 2020	28.4	78	-
5 Oct 2020	28.0	79	106.1
6 Oct 2020	25.9	78	2.7
7 Oct 2020	24.9	70	-
8 Oct 2020	25.2	67	-
9 Oct 2020	26.0	64	Trace
10 Oct 2020	26.1	69	Trace
11 Oct 2020	27.0	73	-
12 Oct 2020	28.0	72	0.6
13 Oct 2020	24.9	86	26.0
14 Oct 2020	25.5	80	1.2
15 Oct 2020	26.5	73	-
16 Oct 2020	27.0	71	Trace
17 Oct 2020	25.6	72	0.2

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 Oct 2020	24.9	73	0.7
19 Oct 2020	24.6	70	-
20 Oct 2020	25.0	68	-
21 Oct 2020	24.5	63	-
22 Oct 2020	24.7	60	-
23 Oct 2020	23.5	51	-
24 Oct 2020	23.8	55	Trace
25 Oct 2020	24.2	69	-
26 Oct 2020	24.6	76	-
27 Oct 2020	25.1	73	-
28 Oct 2020	24.4	78	4.7
29 Oct 2020	24.7	74	0.1
30 Oct 2020	24.4	78	Trace
31 Oct 2020	23.4	71	-

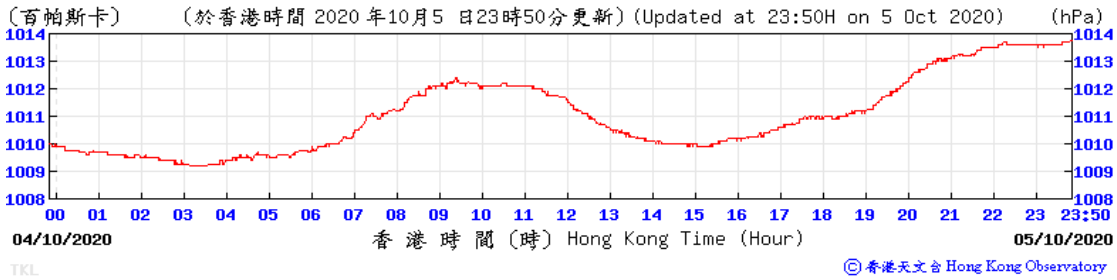
* The above information was extracted from the daily weather summary by Hong Kong Observatory.

5 October 2020

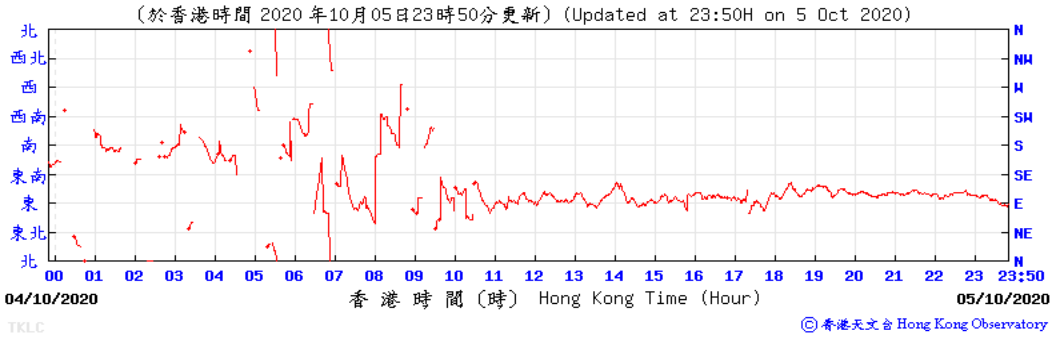
Tempearture/Humidity:



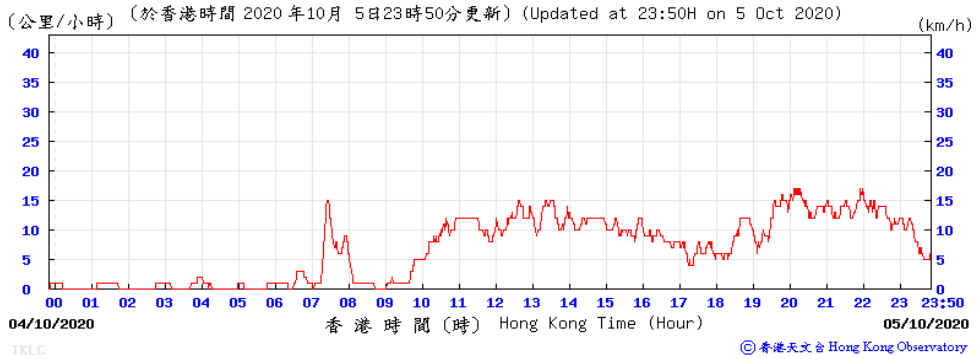
Pressure:



Wind Direction:



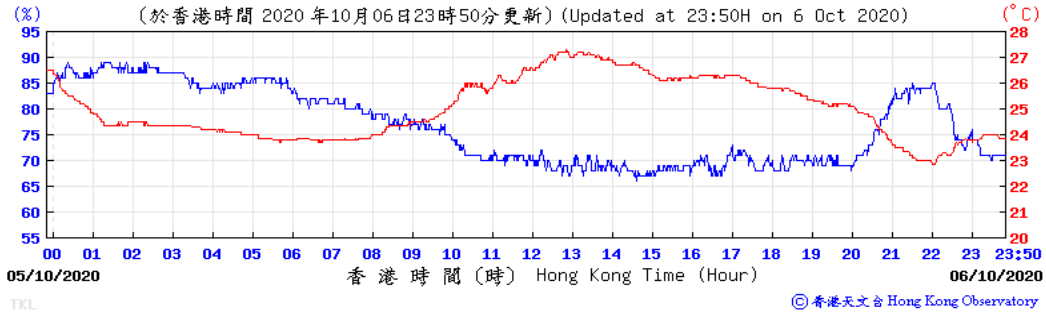
Wind Speed:



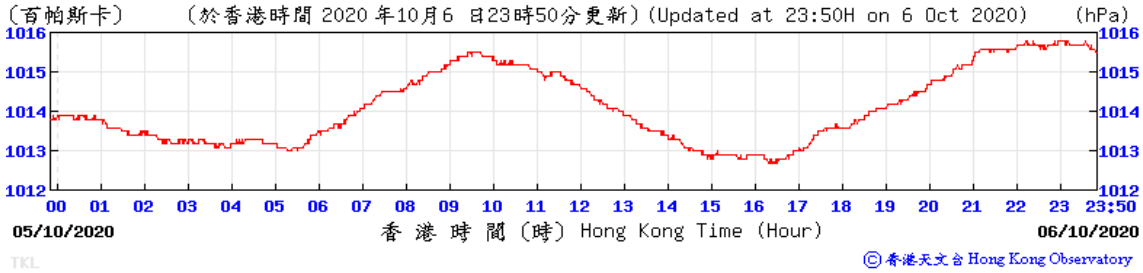
Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: G	

6 October 2020

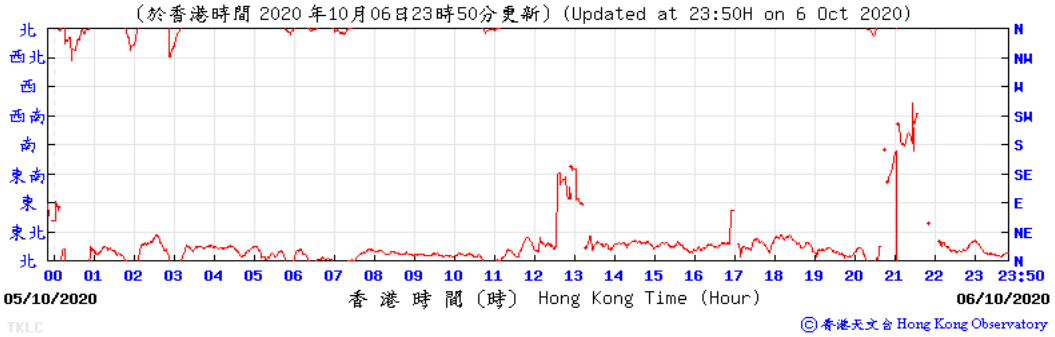
Tempearture/Humidity:



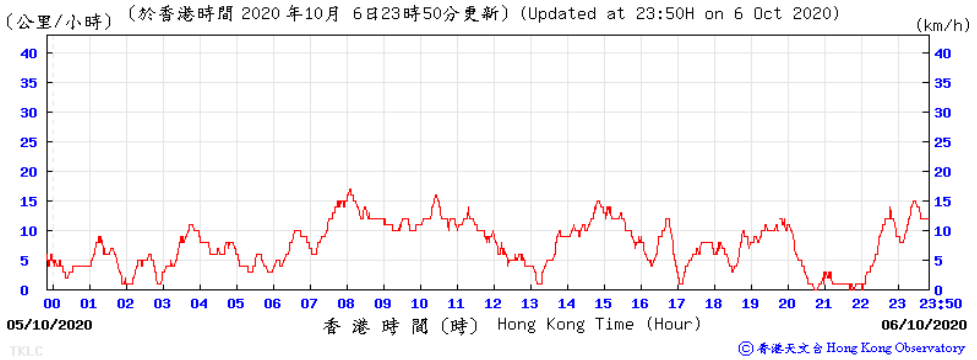
Pressure:



Wind Direction:



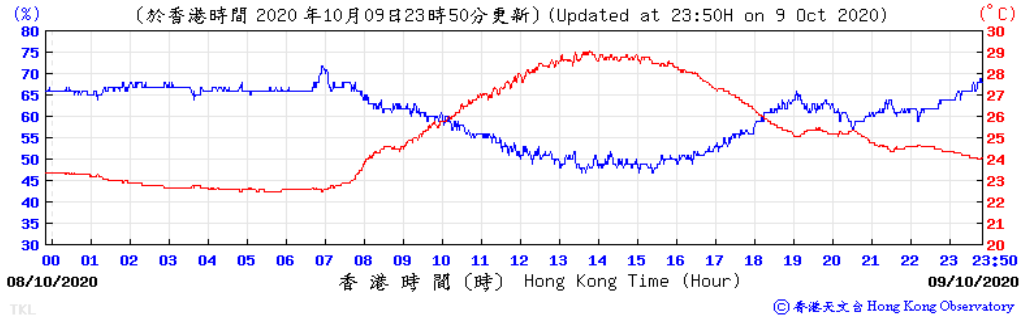
Wind Speed:



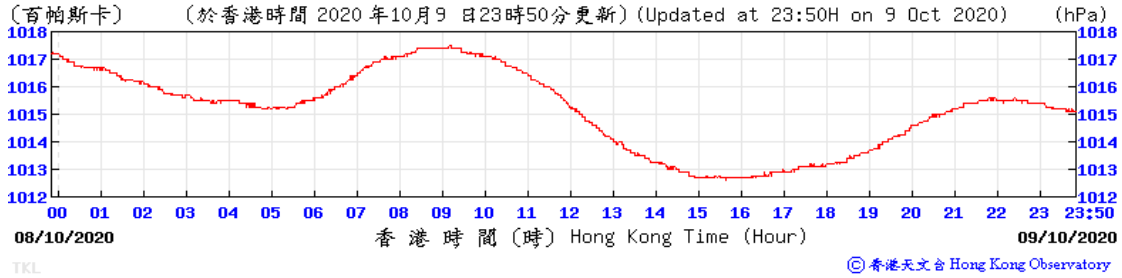
Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S Date: Oct 20	Project No.: WMA20001 Appendix: G	WELLAB 匯力 consulting . testing . research

9 October 2020

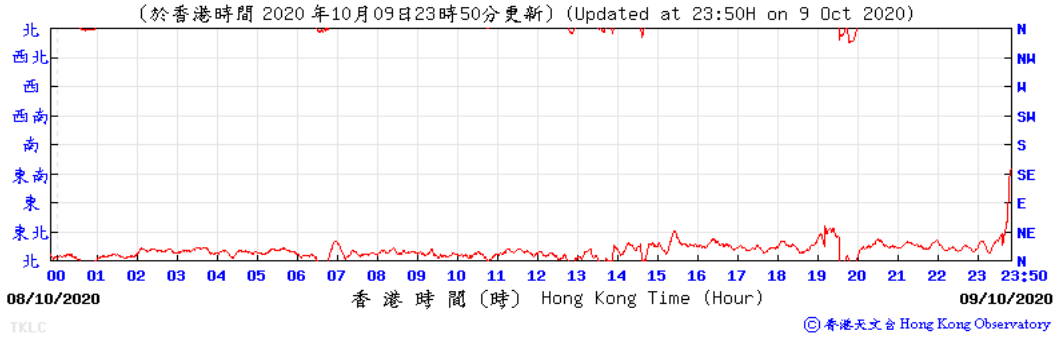
Tempearture/Humidity:



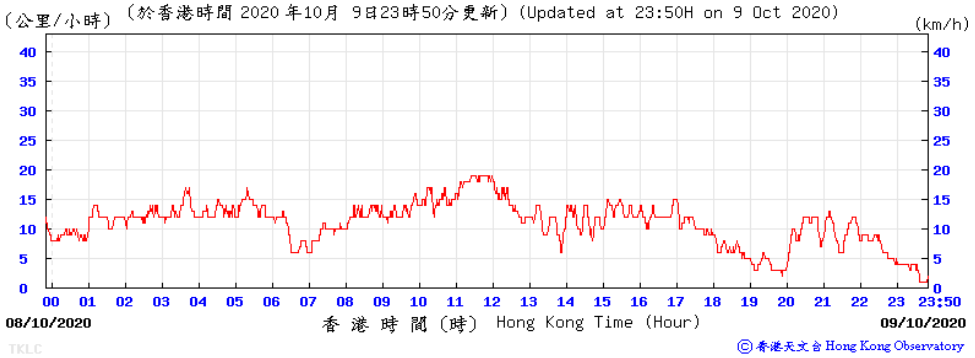
Pressure:



Wind Direction:



Wind Speed:

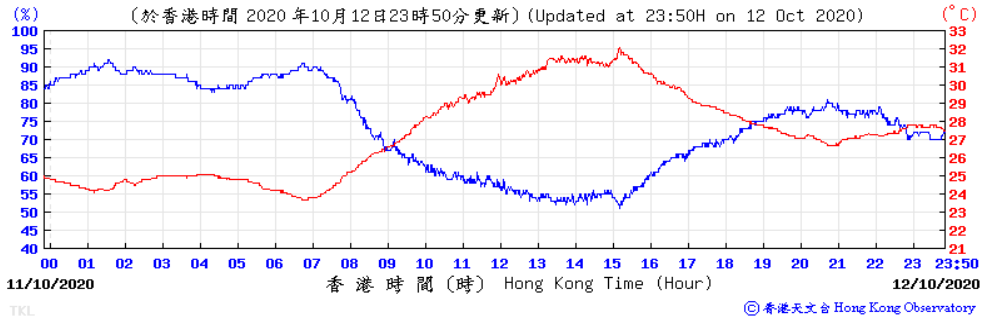


Title	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S Date: Oct 20	Project No.: WMA20001 Appendix: G

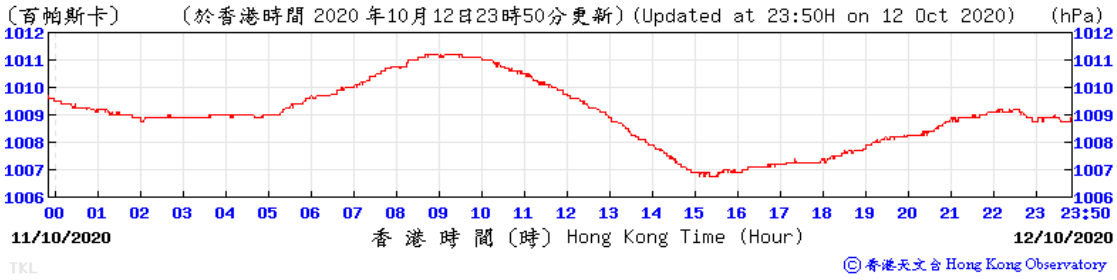
WELLAB 匯力 consulting . testing . research

12 October 2020

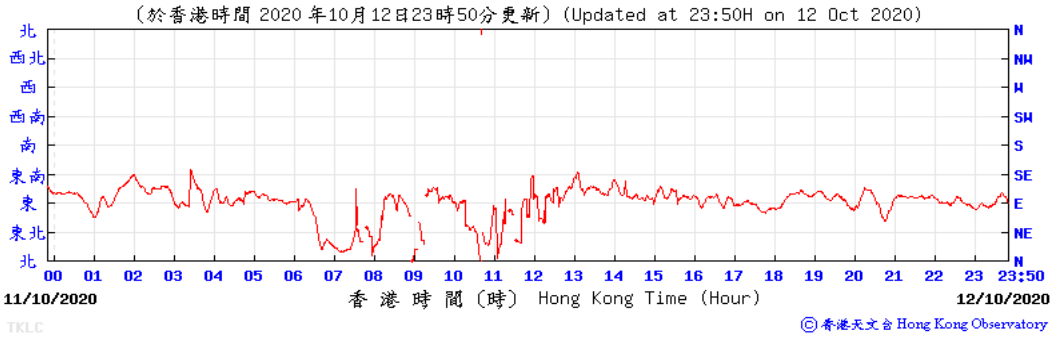
Tempearture/Humidity:



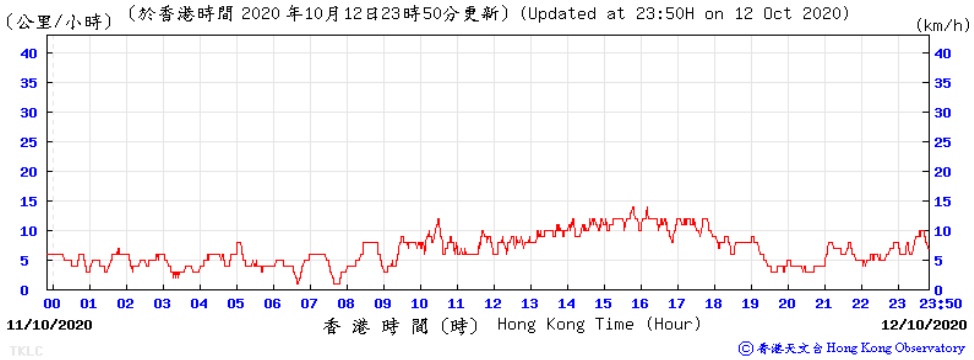
Pressure:



Wind Direction:



Wind Speed:

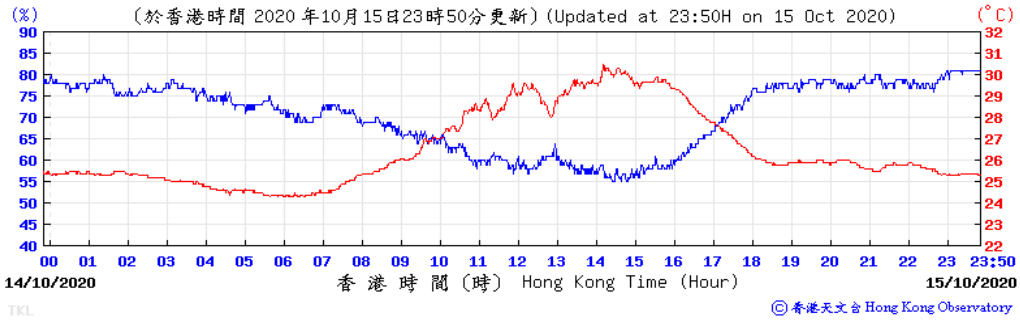


Title	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S Date: Oct 20	Project No.: WMA20001 Appendix: G

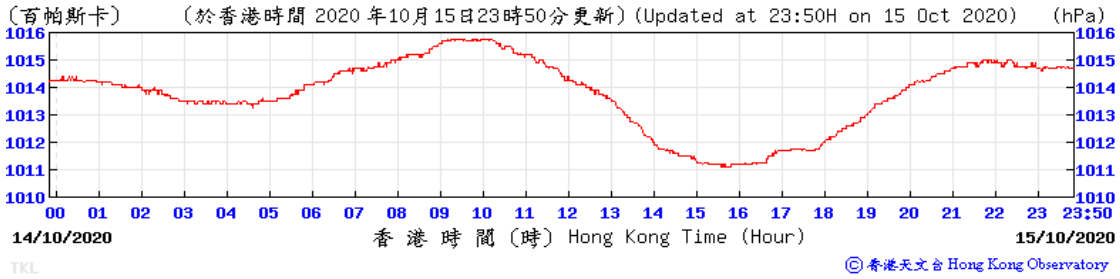
WELLAB 匯力 consulting . testing . research

15 October 2020

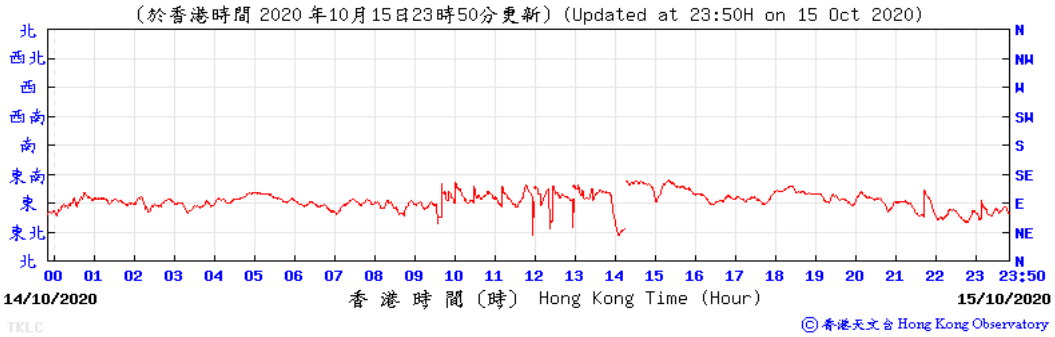
Tempearture/Humidity:



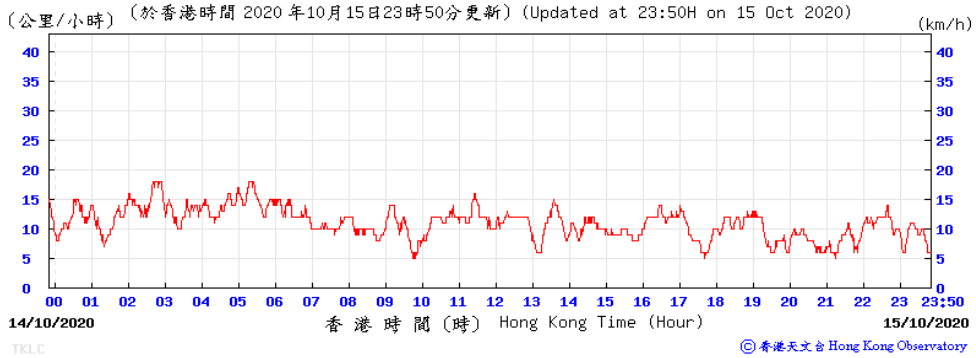
Pressure:



Wind Direction:



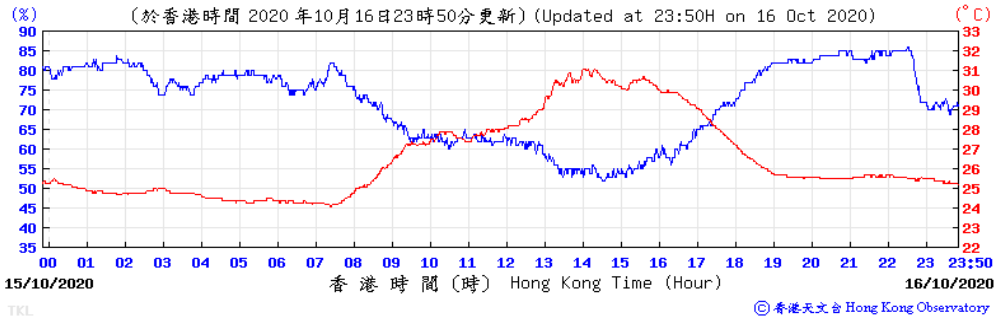
Wind Speed:



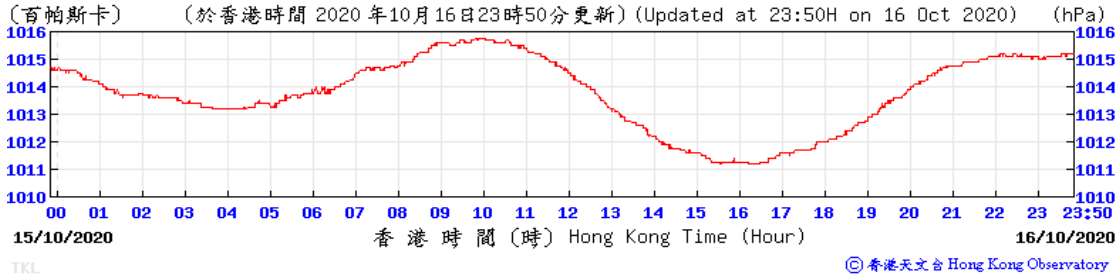
Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: G	

16 October 2020

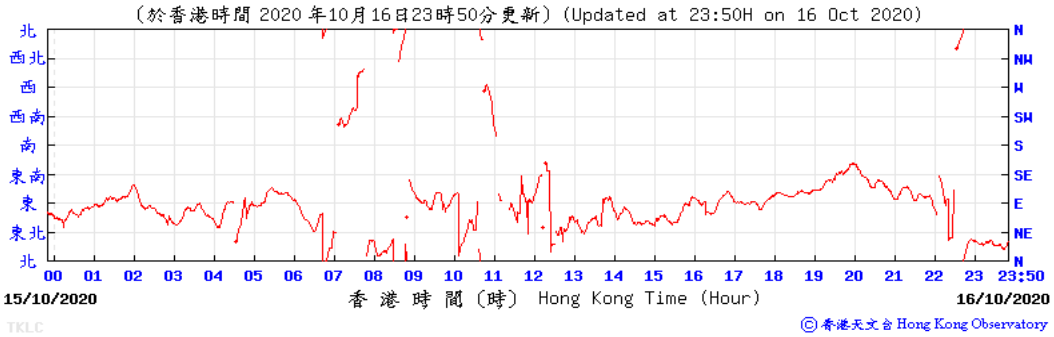
Tempearture/Humidity:



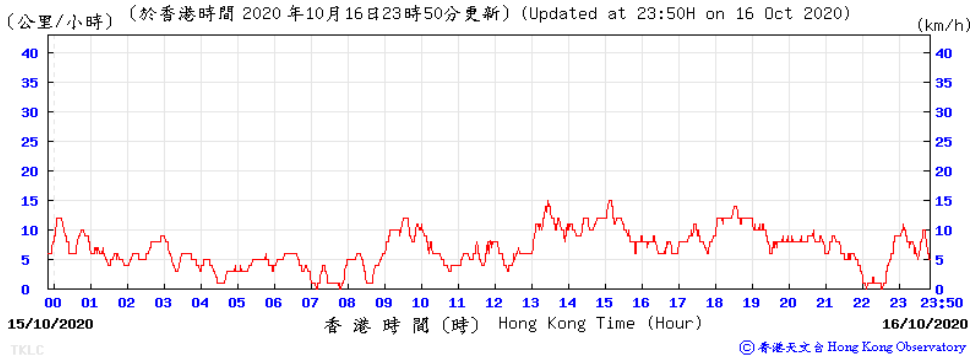
Pressure:



Wind Direction:



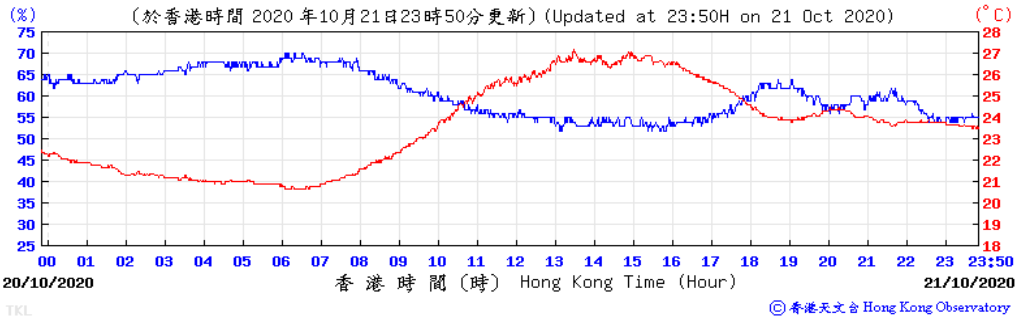
Wind Speed:



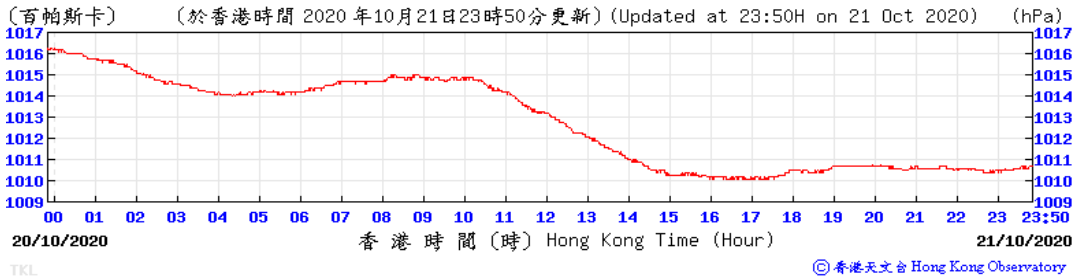
Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: G	

21 October 2020

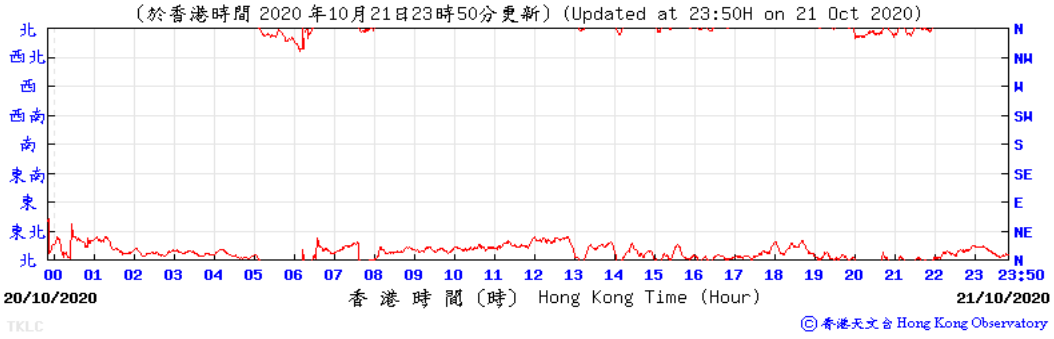
Tempearture/Humidity:



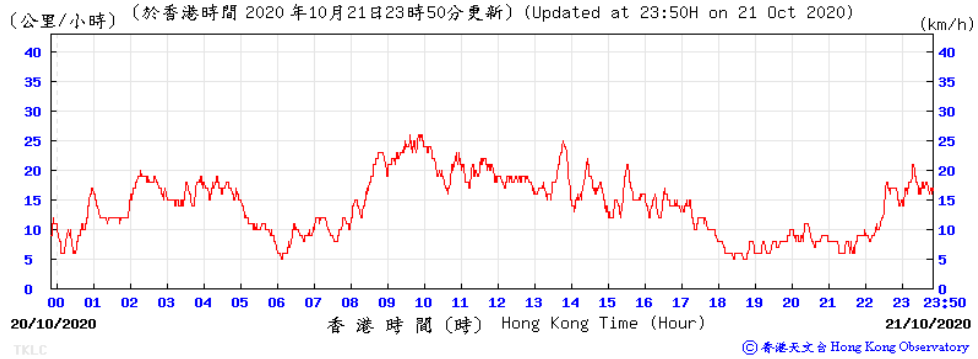
Pressure:



Wind Direction:



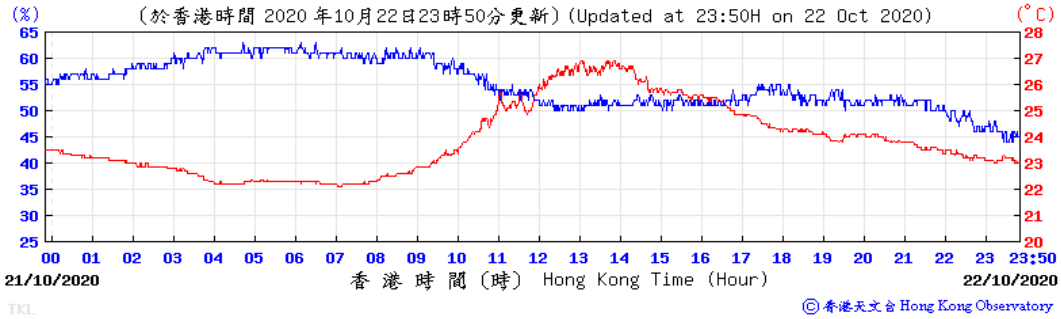
Wind Speed:



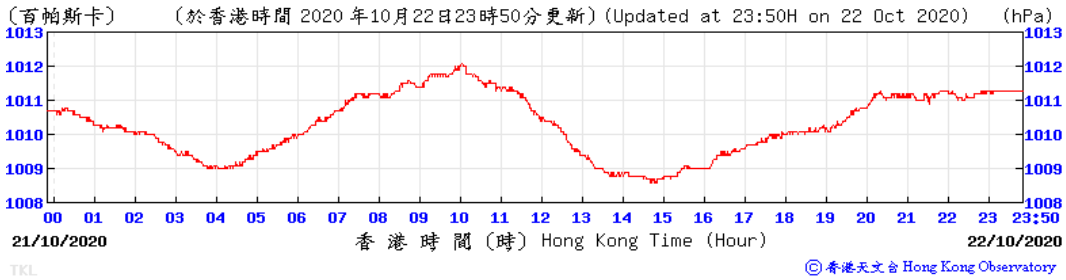
Title	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	WELLAB 匯力 consulting . testing . research
		Date Oct 20	Appendix G	

22 October 2020

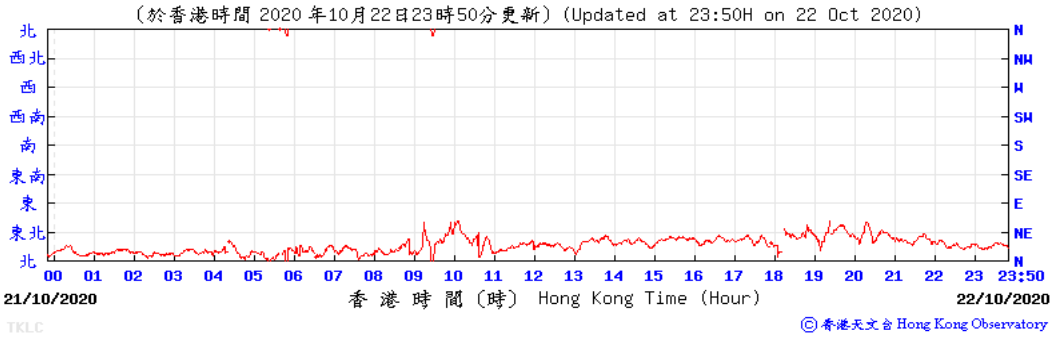
Tempearture/Humidity:



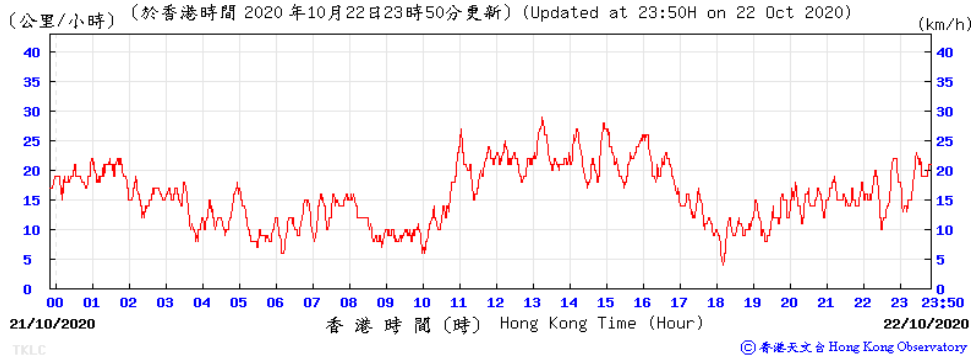
Pressure:



Wind Direction:



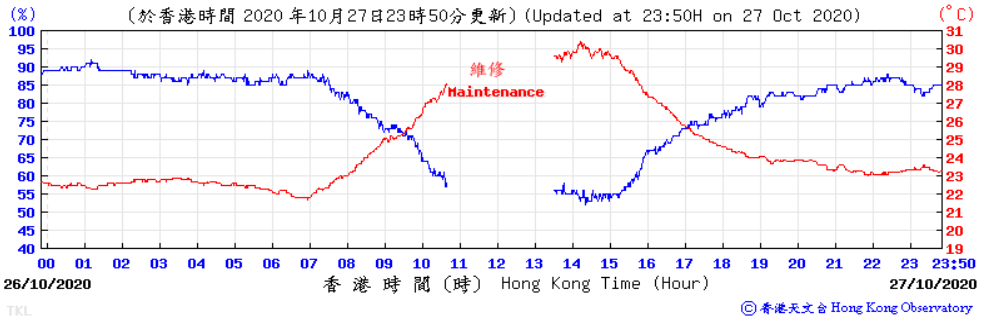
Wind Speed:



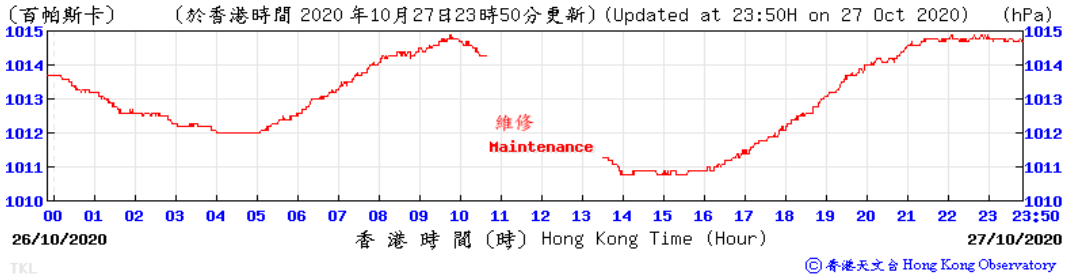
Title	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	WELLAB 匯力 consulting . testing . research
		Date Oct 20	Appendix G	

27 October 2020

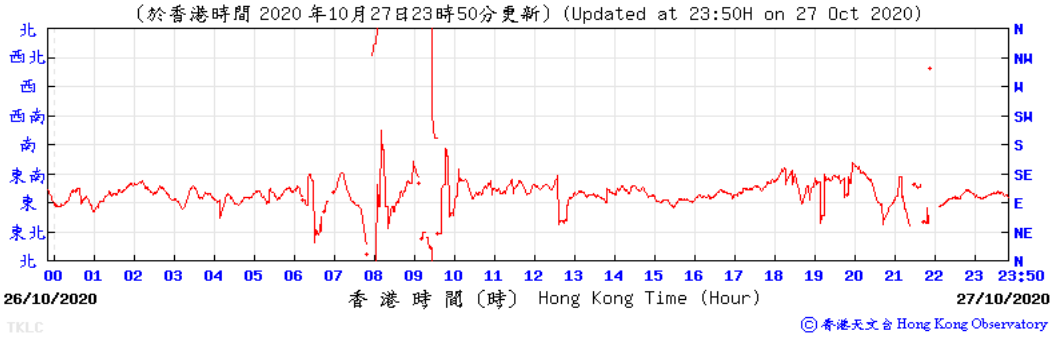
Tempearture/Humidity:



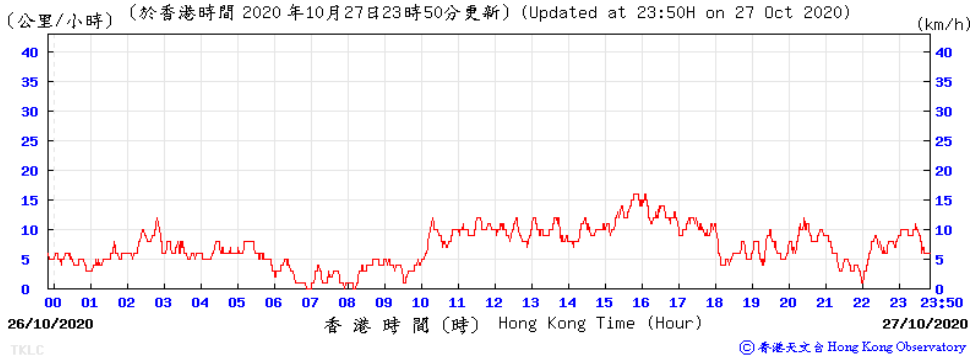
Pressure:



Wind Direction:



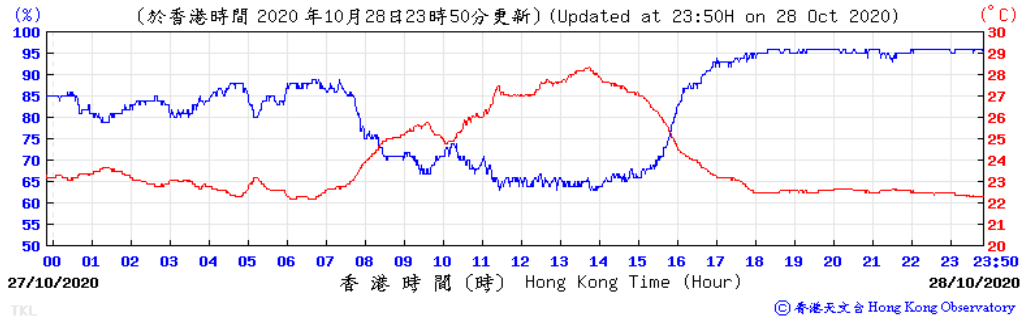
Wind Speed:



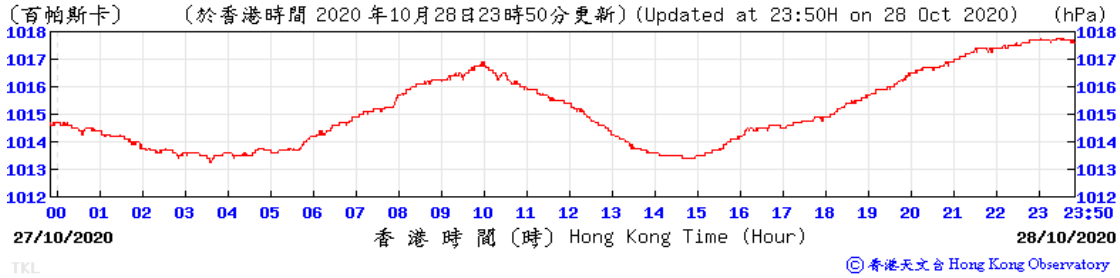
Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: G	

28 October 2020

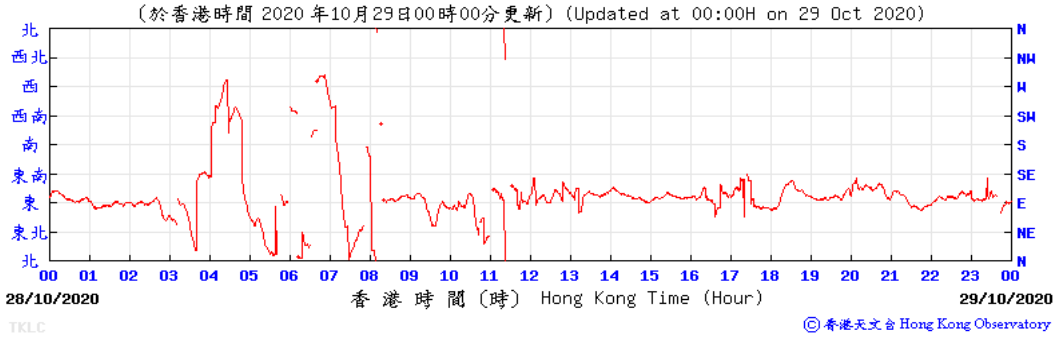
Tempearture/Humidity:



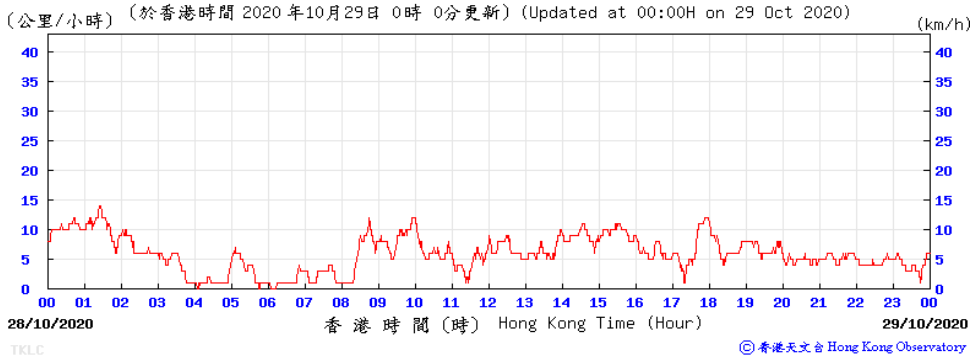
Pressure:



Wind Direction:



Wind Speed:



Title: Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale: N.T.S	Project No.: WMA20001	WELLAB 匯力 consulting . testing . research
	Date: Oct 20	Appendix: G	

APPENDIX H
ECOLOGICAL MONITORING RESULTS

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	**Objective of the Measures**	**Who to Implement / Maintain the Measures?**	**Location of the Measures**	**When to Implement the Measures?**	**Reference to paragraph(s) in the Transplantation Proposal**	**Implementation Status**
Identification of Plant Species of Conservation Importance to be Retained / Transplanted To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.	To identify the plant species of conservation importance and ensure no plant species of conservation importance / retained tree will be affected.	Contractor / Resident Site Engineer / ET / IEC	Project Site Area(s)	During design stage / throughout construction stage / Until completion of all construction activities	Refers to para(s) 5.1 of the Transplantation Proposal	^
Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed. b) Set up buffer zone to enhance the protection of flora species of	To make sure that the flora species of conservation interest are not affected by the site clearance works of the Project	Contractor / Resident Site Engineer / ET / IEC	Location(s) of Plant Species of Conservation Importance and Transplantation Area(s) for Plant Species of Conservation Importance	Prior to Site Clearance / Transplantation Works	Refers to para(s) 2.11 and 2.12 of the Transplantation Proposal	^ ^

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in the Transplantation Proposal	Implementation Status
conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.						
Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey. b) To set up a protection zone at least 1m from the plant / retained tree and erect robust,	To avoid potential impact on flora species of conservation importance / retained tree from construction activities such as materials storage; To make sure that the flora species of conservation interest / retained tree are not affected by the	Contractor / Resident Site Engineer / ET / IEC	Location(s) of Plant Species of Conservation Importance / Retained Tree	Throughout construction stage / Until completion of all construction activities	Refers to para(s) 2.7, 4.10 and 5.1 of the Transplantation Proposal	^ ^

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in the Transplantation Proposal	Implementation Status
bright-coloured fencing of 1.5m in height.	construction activities of the Project					
Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted. b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.	To avoid potential impact on flora species of conservation importance / retained tree from construction activities such as materials storage; To make sure that the flora species of conservation interest / retained tree are not affected by the construction activities of the Project	Contractor / Resident Site Engineer / ET / IEC	Location(s) of Plant Species of Conservation Importance / Retained Tree	Throughout construction stage / Until completion of all construction activities	Refers to para(s) 2.7, 4.10 and 5.1 of the Transplantation Proposal	^ ^
Post-transplantation Monitoring a) Weekly post-transplantation monitoring of transplanted	To allow early detection of the growth status of transplanted species,	Contractor / Resident Site Engineer / ET /	Location(s) of transplanted species	The first year of establishment period after	Refers to para(s) 4.7 to 4.9 and 4.11 of the	^

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in the Transplantation Proposal	Implementation Status
species in the first three months and monthly afterwards.	sign of construction activity within and nearby the receptor site, and any environmental change of the receptor site.	IEC		transplantation	Transplantation Proposal	
Maintenance of Transplanted Species a) To keep the soil moist by watering the receptor sites properly and adequately. b) To apply mulches on the soil surface over the plant root system, if required. c) To remove unwanted weeds found in receptor sites.	To allow health growth of the transplanted species.	Contractor / Resident Site Engineer / ET / IEC	Location(s) of transplanted species	The first year of establishment period after transplantation	Refers to para(s) 4.12 to 4.15 of the Transplantation Proposal	^ ^ ^
Other Protection Measures for Flora Species of Conservation Interest / Retained Tree /	To avoid potential impact on Flora Species of Conservation Interest	Contractor / Resident Site Engineer / ET /	Project Site Area(s)	Throughout construction stage / Until completion	Refers to para(s) 5.1 of the Transplantation	

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in the Transplantation Proposal	Implementation Status
Vegetated Areas a) All works should be confined within the site boundary. b) Access of site staff should be controlled. c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works. d) No fixings should be driven into trees/plants. e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants. f) No excavation, including that	/ Retained Tree / Vegetated Areas from construction activities of the Project	IEC		of all construction activities	Proposal	^ ^ ^ ^ ^

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in the Transplantation Proposal	Implementation Status
for services or changes in ground level will take place within the spread of the crown of the trees / plants. g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil. h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants. i) No trees/plants should be used for anchoring or winching purposes or for the display of signs. j) Any damage or injury to the						^ ^ ^ ^

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in the Transplantation Proposal	Implementation Status
retained / transplanted plants should be reported as soon as possible for repair immediately.						

Implementation status:

^ Mitigation measure was fully implemented

* Observation/reminder was made during monitoring but improved/rectified by the contractor

\# Observation/reminder was made during monitoring but not yet improved/rectified by the contractor

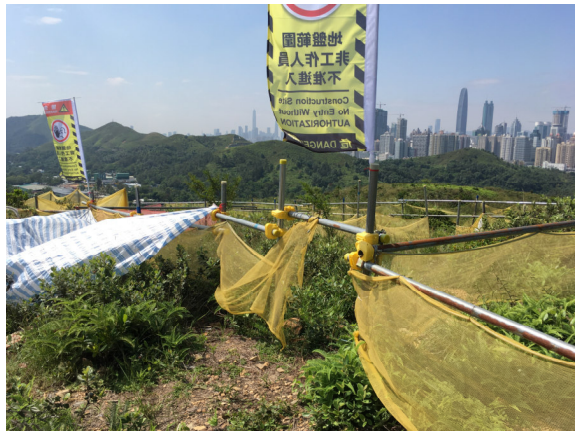
X Non-compliance of mitigation measure

• Non-compliance but rectified by the contractor

N/A Not Applicable at this stage as no such site activities were conducted in the reporting period

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 8th October 2020

1. *Brainea insignis*

Photo 1  Description: General view of transplanted *Brainea insignis*.	Photo 2  Description: General view of transplanted *Brainea insignis.*
Photo 3  Description: Protective fence for transplanted *Brainea insignis* are properly erected.	Photo 4  Description: Protective fence for transplanted *Brainea insignis* are properly erected.

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 8th October 2020

2. *Spiranthes sinensis*

Photo 5  Description: General view of transplanted *Spiranthes sinensis*.	Photo 6  Description: General view of transplanted *Spiranthes sinensis.*
Photo 7  Description: Protective fence for transplanted *Spiranthes sinensis* are properly erected.	Photo 8  Description: Protective fence for transplanted *Spiranthes sinensis* are properly erected.

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 8th October 2020

3. *Keteleeria fortunei*

Photo 9  Description: Protective fence for *Keteleeria fortunei* are properly erected.	Photo 10  Description: Protective fence for *Keteleeria fortunei* are properly erected.
Photo 11  Description: Protective fence for *Keteleeria fortunei* are properly erected.	

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 8th October 2020

4. *Aquilaria sinensis*

Photo 12  Description: *Aquilaria sinensis* is newly transplanted and protective fence are properly erected.	Photo 13  Description: *Aquilaria sinensis* is newly transplanted and protective fence are properly erected.
Photo 14  Description: *Aquilaria sinensis* is prepared to be transplanted and protective fence are properly erected.	Photo 15  (photo taken after completion of all transplantation) Description: Protective fence for *Aquilaria sinensis* are properly erected.

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 8th October 2020

5. Undersized seedling of *Aquilaria sinensis*

Photo 16  Description: General view of undersized seedling of *Aquilaria sinensis*	Photo 17  Description: Protective fence for undersized seedling of *Aquilaria sinensis* are properly erected.

Monthly Monitoring of Flora Species of Conservation Interest
Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Audit Ref. No. 201008

Contract	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	**Env. Team**	Wellab Limited
		***Supervisor's* Rep.**	AECOM
		IEC	Acuity Sustainability Consulting Limited
Inspected By	ET Auditor: Kenneth Leung	**Inspection Date**	8/10/2020
	Supervisor's Rep.:	**Time Period**	10:00 - 15:00
	IEC:		

Part A Weather

Condition ☑ Sunny ☐ Fine ☐ Overcast ☐ Drizzle ☐ Rain ☐ Storm ☐ Hazy

Temperature 27 °C

Humidity ☐ High (RH>90%) ☑ Moderate (90%>RH>50%) ☐ Low (RH<50%)

Wind ☐ Calm ☑ Light ☐ Breeze ☐ Strong

Part B

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	***Brainea insignis***						
1.1	Are the plants' health conditions satisfactory?	☐	☑	☐	☐	☐	
1.2	Are transplanted plants on site protected carefully?	☐	☑	☐	☐	☐	
1.3	Are the temporary protective fence properly erected and maintained?	☐	☑	☐	☐	☐	
1.4	Are the plant protection zone set 1m from the plants?	☐	☑	☐	☐	☐	
1.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☑	☐	☐	☐	☐	
1.6	Is compaction of the soil avoided for the plants?	☐	☑	☐	☐	☐	
1.7	Are litter/ unwanted material removed within the planting area?	☐	☑	☐	☐	☐	
1.8	Are equipment or stockpile placed outside the protection zone?	☐	☑	☐	☐	☐	
1.9	Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	☑	☐	☐	☐	☐	
1.10	Are fixings driven into plants avoided?	☐	☑	☐	☐	☐	
1.11	Are the plants used for anchoring or winching purposes or for the display of signs avoided?	☐	☑	☐	☐	☐	
1.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	☐	☑	☐	☐	☐	
1.13	Are all plants kept free from pest, disease or fungal infection?	☐	☑	☐	☐	☐	
1.14	Are there enough area for growth and development of plant roots?	☐	☑	☐	☐	☐	
1.15a	Is exposure of plant roots avoided?	☐	☑	☐	☐	☐	
1.15b	If not, were broken off or rotting of roots avoided?	☑	☐	☐	☐	☐	

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
2.	***Spiranthes sinensis***						
2.1	Are the plants' health conditions satisfactory?	☐	☑	☐	☐	☐	
2.2	Are transplanted plants on site protected carefully?	☐	☑	☐	☐	☐	
2.3	Are the temporary protective fence properly erected and maintained?	☐	☑	☐	☐	☐	
2.4	Are the plant protection zone set 1m from the plants?	☐	☑	☐	☐	☐	
2.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☑	☐	☐	☐	☐	
2.6	Is compaction of the soil avoided for the plants?	☐	☑	☐	☐	☐	
2.7	Are litter/ unwanted material removed within the planting area?	☐	☑	☐	☐	☐	
2.8	Are equipment or stockpile placed outside the protection zone?	☐	☑	☐	☐	☐	
2.9	Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	☑	☐	☐	☐	☐	
2.10	Are fixings driven into plants avoided?	☑	☐	☐	☐	☐	
2.11	Are the plants used for anchoring or winching purposes or for the display of signs avoided?	☑	☐	☐	☐	☐	
2.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	☐	☑	☐	☐	☐	
2.13	Are all plants kept free from pest, disease or fungal infection?	☑	☐	☐	☐	☐	
2.14	Are there enough area for growth and development of plant roots?	☐	☑	☐	☐	☐	
2.15a	Is exposure of plant roots avoided?	☐	☑	☐	☐	☐	
2.15b	If not, were broken off or rotting of roots avoided?	☑	☐	☐	☐	☐	
3.	***Keteleeria fortunei***						
3.1	Are the trees' health conditions satisfactory?	☐	☑	☐	☐	☐	
3.2	Are existing trees to be retained on site protected carefully?	☐	☑	☐	☐	☐	
3.3	Are the temporary protective fence properly erected and maintained?	☐	☑	☐	☐	☐	
3.4	Are the trees protection zone set 1m from the trees?	☐	☑	☐	☐	☐	
3.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☑	☐	☐	☐	☐	
3.6	Is compaction of the soil avoided for the trees?	☐	☑	☐	☐	☐	
3.7	Are litter/ unwanted material removed within the planting area?	☐	☑	☐	☐	☐	
3.8	Are equipment or stockpile placed outside the protection zone?	☐	☑	☐	☐	☐	
3.9	Are soil, debris or construction materials deposited around and against the trunk of a trees as this causes bark damage avoided?	☐	☑	☐	☐	☐	
3.10	Are fixings driven into trees avoided?	☐	☑	☐	☐	☐	
3.11	Are the trees used for anchoring or winching purposes or for the display of signs avoided?	☐	☑	☐	☐	☐	
3.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	☐	☑	☐	☐	☐	
3.13	Are all trees kept free from pest, disease or fungal infection?	☑	☐	☐	☐	☐	
3.14	Are there enough area for growth and development of tree roots?	☐	☑	☐	☐	☐	
3.15a	Is exposure of tree roots avoided?	☐	☑	☐	☐	☐	
3.15b	If not, were broken off or rotting of roots avoided?	☑	☐	☐	☐	☐	
3.16	Are wounds/mechanical injuries avoided on tree trunk?	☑	☐	☐	☐	☐	
3.17	Are leaning of trees avoided?	☑	☐	☐	☐	☐	
3.18	Are dead/detached branches avoided?	☑	☐	☐	☐	☐	
3.19	Are decay/cavity avoided on tree trunks?	☑	☐	☐	☐	☐	

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
4.	***Aquilaria sinensis***						
4.1	Are the trees' health conditions satisfactory?	☐	☑	☐	☐	☐	
4.2	Are existing trees to be retained on site protected carefully?	☐	☑	☐	☐	☐	
4.3	Are the temporary protective fence properly erected and maintained?	☐	☑	☐	☐	☐	
4.4	Are the trees protection zone set 1m from the trees?	☐	☑	☐	☐	☐	
4.5	Are all grassed and planted area kept free from weeds/unwanted plants?	☑	☐	☐	☐	☐	
4.6	Is compaction of the soil avoided for the trees?	☐	☑	☐	☐	☐	
4.7	Are litter/ unwanted material removed within the planting area?	☐	☑	☐	☐	☐	
4.8	Are equipment or stockpile placed outside the protection zone?	☐	☑	☐	☐	☐	
4.9	Are soil, debris or construction materials deposited around and against the trunk of a trees as this causes bark damage avoided?	☐	☑	☐	☐	☐	
4.10	Are fixings driven into trees avoided?	☐	☑	☐	☐	☐	
4.11	Are the trees used for anchoring or winching purposes or for the display of signs avoided?	☐	☑	☐	☐	☐	
4.12	Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	☐	☑	☐	☐	☐	
4.13	Are all trees kept free from pest, disease or fungal infection?	☐	☑	☐	☐	☐	
4.14	Are there enough area for growth and development of tree roots?	☐	☑	☐	☐	☐	
4.15a	Is exposure of tree roots avoided?	☐	☑	☐	☐	☐	
4.15b	If not, were broken off or rotting of roots avoided?	☑	☐	☐	☐	☐	
4.16	Are wounds/mechanical injuries avoided on tree trunk?	☑	☐	☐	☐	☐	
4.17	Are leaning of trees avoided?	☑	☐	☐	☐	☐	
4.18	Are dead/detached branches avoided?	☑	☐	☐	☐	☐	
4.19	Are decay/cavity avoided on tree trunks?	☑	☐	☐	☐	☐	

Part C **Follow-up for the Previous Site Audit on Date:** 17/9/2020 (Ref. No. 200917)

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
2.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
3.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
4.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
5.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
6.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
7.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
8.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
9.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	
10.	Is the situation in item _____ improved/rectified?	☐	☐	☐	☐	☐	

Remarks/Observations

No construction activity was observed at the location of Flora Species of Conservation Interest. Temporary protective fence was properly erected and maintained.

Signatures:

ET Auditor
(Name: Kenneth Leung)
(Date: 8/10/2020)

Supervisor's Rep.
(Name: Andrew Lee)
(Date: 8/10/2020)

Contractor's Representative
(Name:)
(Date:)

IEC Auditor
(Name:)
(Date:)

APPENDIX I
EVENT ACTION PLANS

Appendix I:

Table I-1: Event / Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice: 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC, ER and Contractor; 3. Advise the WKCDA on the effectiveness of the proposed remedial measure; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; and 5. Monitor Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; and 3. Amend proposal if appropriate.

	8. If exceedance stops, cease additional monitoring.			
LIMIT LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; and 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and the ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; and 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid furthrt exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	1. Notify IEC, the ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, and ER to discuss	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; and	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER

	the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	their effectiveness and advise the ER accordingly; and 5. Monitor implementation of remedial measures.	5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedances is abated.	until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table I-2: Event / Action Plan for Construction Noise

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action Level	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; and 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the monitoring data submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise ER; and 3. Advise the ER on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measure to be implemented: and 4. Supervise the implementation of remedial measure.	1. Submit noise mitigation proposals to IEC and ER; and 2. Implement noise mitigation proposals.

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Limit Level	1. Inform IEC, ER and Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase the monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measure required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst the ER, ET, and Contractor on the potential remedial actions; and 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;	1. Confirm receipt of notification of failure in writing; 2. Notify the Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; and 5. If exceedance continues, consider stopping the Contractor to continue working in that portion of work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

APPENDIX J
SUMMARY OF EXCEEDANCE

Appendix J: Exceedance Report

(A) Exceedance Report for Air Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance recorded
		Action Level	Limit Level	Action Level	Limit Level	
Air Quality	1-hr TSP	0	0	0	0	0

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance recorded
		Action Level	Limit Level	Action Level	Limit Level	
Noise	$L_{eq(30\ min.)}$ dB(A)	1	0	0	0	2

APPENDIX K
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Air Quality Impact – Construction Phase							
3.91	2.2	**Dust Control Measures** To achieve compliance with the FSP, RSP and TSP criteria during the construction phase, good practices for dust control should be implemented to reduce dust impacts. The dust control measures are detailed as follows: • Use of regular water spraying (once every 1.25 hours or 8 times per day) to reduce dust emissions from heavy construction activities (including ground excavation, earth moving, etc.) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather. • Covering 80% of stockpiling area by impervious sheets and spraying all dusty material with water immediately prior to any loading transfer operations to keep the dusty materials wet during material handing at the stockpile areas.	Construction Dust	Contractor	Project construction site / Duration of the construction phase / Prior to commencement of operation	Construction phase	^ *
		Relevant dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted: **Good Site Management** • Good site management is important to help reduce potential air quality impact down to an acceptable level.					^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		As a general guide, the Contractor should maintain high standards of housekeeping to prevent emissions of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.					
		Disturbed Parts of the Roads • Main temporary access points should be paved with concrete, bituminous hardcore materials or metal plates and be kept clear of dusty materials; or • Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road wet.					^ *
		Exposed Earth • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex,					^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.					
		Loading, Unloading or Transfer of Duty Materials • All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.					*
		Debris Handing • Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. • Before debris is dumped into a chute, water should be sprayed onto the debris so that it remains wet when it is dumped.					^ ^
		Transport of Dusty Materials • Vehicles used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.					^
		Wheel Washing • Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the					^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.					
		Use of Vehicles • The speed of the trucks within the site should be controlled to about 10 km/hour in order to reduce adverse dust impacts and secure the safe movement around the site • Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. • Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.					^ ^ ^
		Site hoarding • Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.					^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Noise Impact – Construction Phase							
4.4.6	3.2	**Good Site Practice** Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: • Only well-maintained plant to be operated onsite and plant should be serviced regularly during the construction works; • Machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; • Mobile plant should be sited as far away from NSRs as possible; and • Material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.	Maintain good site practice to minimise / avoid construction noise impact	Contractor	Within the Project site / During construction phase / Prior to commencement of operation.	Construction Phase	^ ^ ^ ^ ^
4.4.6	3.2	**Adoption of QPME** • QPME should be adopted as far as applicable.	Minimise/ avoid construction noise	Contractor	Within the	Construction Phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
4.4.6	3.2	**Use of Movable Barriers** • Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs.	impacts to the surrounding NSRs		Project site / During construction phase / Prior to commencement of operation.		^
4.4.6		**Use of Noise Enclosure/ Acoustic Shed** • Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.					^
4.4.6		**Use of Noise Insulating Fabric** • Noise insulating fabric can also be adopted for certain PME (e.g. pilling machine etc.).					^
Water Quality Impact – Construction Phase							
5.6.1.1	4.2	**General Construction Activities** The following measures should be implemented: • Construction waste, debris and refuse generated on-site should be stored or contained appropriately to prevent them entering nearby watercourses or blocking stormwater drains. • Regular off-site removal of these materials should be maintained to minimise the volume of waste present on the construction site at any one time. • Stockpiles of construction materials such as cement and	Maintain good site practices to avoid pollution of water courses	Contractor	Within the Project site / During construction phase	Construction Phase	^ ^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		excavated material should be covered when not in use to reduce the potential for water pollution.					
5.6.1.2	4.2	**Construction Site Runoff** The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended: • Temporary site drainage facilities are to be designed and implemented by the Contractor prior to commencement of construction to convey surface runoff to storm drains applying adequately designed silt/ sand removal traps and sediment basins. • Perimeter cut-off drains shall be installed in advance of any earthworks and site formation work to convey site runoff from the works areas to the silt removal facilities.\ • Runoff into the excavation areas during rainstorm events shall be minimised as far as practicable. Any wastewater pumped out of the excavation areas shall be treated to remove suspended solids prior to discharge. • Maintenance and inspection of the drainage system and sediment removal facilities should be carried out regularly to remove any sediment and blockages, especially when	Minimise / control construction site runoff to avoid pollution of water courses	Contractor	Within the Project site / During construction phase	Construction Phase	# ^ ^ #

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		rainstorms are forecast. • Final surface levels should be compacted and final surface protections installed to prevent erosion caused by rainstorms. • Open stockpiles of material should be covered on site with waterproof layers such as tarpaulin to reduce the potential for sediment laden runoff entering the drainage system. • The wheels of all vehicles and plant should be cleaned before leaving the works areas to remove sediment, soil and debris from the tracks. The washwater should be treated to remove any suspended sediment. • Surface water from concrete batching areas and the rest of the site should be separated as far as possible. Wastewater from any concrete batching plant (if required) shall be treated to the required standards including pH adjustment and settlement of suspended sediments before discharging to stormwater drains • Manholes (including those constructed as part of the Project) should be adequately covered and temporarily sealed at all times to prevent silt, construction materials or debris from entering the drainage system, and to prevent					N/A ^ ^ ^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		storm runoff from entering foul sewers. The discharge of surface runoff into foul sewers should be prevented so as not to overload the sewerage system. Discharges should be collected by the temporary drainage system installed by the Contractor and treated on-site to remove sediment prior to discharge to the off-site drainage areas. The Contractor is required to obtain a discharge licence from EPD under the WPCO for all discharges from site with all discharges meeting the water quality requirements of the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS).					^
5.6.1.3	4.2	**Accidental Spillage of Chemicals** In accordance with the Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C), the following measures should be implemented: • The labelling and storage of chemicals should be in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and maintained at all times by the Contractor. • Oils and fuels should only be stored in designated areas which have appropriate pollution prevention control facilities such as oil and grease traps.	Prevent accidental discharge of chemicals into the surrounding environment	Contractor	Within the Project site / During construction phase	Construction phase	^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• The maintenance of vehicles should only be undertaken in areas of the site served by appropriate pollution prevention control facilities. • To prevent the spillage of fuels and solvents to nearby stormwater drains, all fuel tanks and storage areas should be locked and sited on sealed areas of the site, within bunded areas with a capacity equal to 110% of the storage capacity of the largest container. The bund should be kept free of surface water at all times and after each rainfall event.					^ ^
5.6.1.4	4.2	**Sewage from Construction Workforce** Portable toilets should be available throughout the construction phase and regularly maintained, collected and disposed by a licensed waste collector to a public sewage treatment works for suitable treatment.	Prevent discharge of sewage into the surrounding environment	Contractor	Within the Project site / During construction phase	construction phase	^
5.6.1.5	4.2	**Construction Works in Close Proximity to Inland Watercourses** Mitigation measures such as such as temporary diversions of existing drainage culverts/ watercourses before construction commences and during construction should be implemented, in addition to those listed in ProPECC Note PN1/94 *Construction Site Drainage and ETWB TC (Works) No. 5/2005 Protection of*	Minimise/ control construction site discharges to avoid pollution of nearby watercourses	Contractor	Within the Project site / During construction phase	construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Natural Streams/rivers from Adverse Impacts Arising from Construction Works. Measures include the following: • Stockpiling of construction materials and spoil, should be properly covered and located away from any natural stream/river. • Construction works close to the inland waters should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low. • Removal of existing vegetation alongside the riverbanks should be avoided or minimised. When disturbance to vegetation is unavoidable, all disturbed areas should be hydroseeded or planted with suitable vegetation to blend in with the natural environment upon completion of works.					N/A N/A N/A
Waste Management Implications – Construction Phase							
7.5.1.1	6.2	**Good Site Practice** Recommendations for good site practices during the construction activities include: • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site	Implement good site practices to minimize waste generation	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• Training of site personnel in proper waste management and chemical handling procedures • Provision of sufficient waste disposal points and regular collection of waste • Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers • Stockpiles of C&D materials should be kept covered by impervious sheets to avoid windblown dust • All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the stockpile areas • Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads • Well planned delivery programme for off-site disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated					^ ^ ^ ^ ^ ^ ^
7.5.1.2	6.2	**Waste Reduction Measures** Good management and control can prevent the generation of a	Implement good management and control to	Contractor	Project construction site /	Construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • Sort non-inert C&D materials to recover any recyclable portions • Segregation and storage of different types of waste in different containers or skips or stockpiles to enhance reuse or recycling of materials and their proper disposal • Encourage collection of recyclable waste such as waste paper and aluminum cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force • Proper site practices to minimize the potential for damage or contamination of inert C&D materials • Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste	minimize waste generation		Throughout construction stage / Until completion of all construction activities		^ ^ ^ ^ ^
7.5.1.3	6.2	**Inert and Non-inert C&D Materials** In order to minimise impacts resulting from collection and transportation of inert C&D materials for off-site disposal, the inert C&D materials should be reused on-site as fill material as	Minimise impacts resulting from collection and transportation of inert C&D materials	Contractor	Project construction site / Throughout construction stage	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		far as practicable. In addition, inert C&D materials generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation. The surplus inert C&D materials will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the DEVB Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the ETWB Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site			/ Until completion of all construction activities		^ ^ ^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
7.5.1.4	6.2	**Chemical Waste** If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidising, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended	Implement good practices to avoid chemical waste impact.	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
7.5.1.5	6.2	**General Refuse** General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Implement good practices to avoid odour nuisance or pest/vermin problem and waste impact.	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^
Land Contamination – Construction Phase							
8.6.1	7.2	In any case where contaminated soil is identified after the commencement of works, a Contamination Assessment Plan (CAP) is required to be prepared for EPD's endorsement prior to the site investigation. The Contamination Assessment Report (CAR) and/ or Remediation Action Plan (RAP) should be prepared for EPD's approval after the site investigation. If land contamination is confirmed, remediation works should be carried out according to the approved RAP. A Remediation Report (RR) should also be prepared for EPD's endorsement to demonstrate that the clean-up of the contaminated land is completed. No construction work or development of the site should be carried out before the approval of the RR.	Assessment is required for EPD approval in any case where contaminated soil is identified	Contractor	Project construction site / Before construction stage	Design phase	N/A
8.6.1	7.2	The following mitigation measures are proposed for contaminated material excavation and transportation of contaminated materials	Minimise impacts resulting from excavation and	Contractor	Project construction site /	Construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		(if any), in order to minimise the potentially adverse effects in the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials: • To minimise the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; • Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; • Stockpiling of contaminated excavated materials on site should be avoided as far as possible; • The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; • Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and / or release of contaminated wastewater; • Truck bodies and tailgates should be sealed to stop any discharge; • Only licensed waste haulers should be used to collect and	transportation of contaminated materials		Throughout construction stage / Until completion of all construction activities		N/A N/A N/A N/A N/A N/A N/A

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; • Speed control for trucks carrying contaminated materials should be exercised; • Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C) and obtain all necessary permits where required; and • Maintain records of waste generation, disposal quantities and disposal arrangements.					N/A N/A N/A
Ecological Impact							
9.7.1	8.3	**Temporary Protective Fence for Flora Species of Conservation Interest** During construction phase, erection and maintenance of a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey is recommended. Monthly monitoring of any other flora species of conservation interest identified in the detailed vegetation survey should be conducted during the construction phase.	To avoid potential impact on flora species of conservation interest from construction activities such as materials storage; To make sure that the flora species of conservation interest are not affected by the construction activities of	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			the project.				
Golden-headed Cisticola (Recommended Mitigation Measures from Baseline Survey Report of Golden-headed Cisticola)							
-	-	The following mitigation measures are proposed for minimizing noise impacts induced by construction works: • Silencers or mufflers on well-maintained construction equipment should be utilized and properly maintained during the construction program • Noise enclosure or acoustic shed should be effectively utilized, where practicable • Machines or equipment known to emit noise or light strongly in one direction should, wherever possible, be orientated the noise away from the adjacent habitat	Construction noise	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	N/A ^ ^
-	-	The following mitigation measures are proposed for minimizing light impacts: • Adjusting the outdoor lighting to lower intensity • Use of directional lighting to avoid light spill into sensitive areas • Control/timing of lighting periods of some facilities, particularly those close to the ecological sensitive receivers	To minimize the light disturbance to avifauna	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	^ N/A N/A

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
-	-	**Drainage system** • Proper drainage system should be installed to collect and dispose rainwater • Installation of sediment/rubbish trapping facilities (e.g. catch pits or sand/silt traps to contain the increase in suspended solids and materials in the storm water drainage system so as to avoid pollutants being washed out during heavy rainstorms)	Prevent discharge of pollutant into the surrounding environment	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	# ^
-	-	**Good Site Practice Measures** • Placement of stockpiling into designated area should be selected at disturbed area in order to minimize the disturbance to wildlife • Open fire should be strictly prohibited • The boundary of project boundary should be clearly demarcated • General drainage system arrangement should include sediment and oil trapper to collect the site run-off • Waste bin should be provided to collect the general refuse and construction waste	To avoid potential impact on Golden-headed Cisticola	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	^ ^ N/A # ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Landscape and Visual Impacts – Construction Phase							
Table 10.11	Table 9.1	CM01: Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the detailed design stage and construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design stage for further retention of individual trees. The preservation of existing tree shall provide instant greening and screening effect for proposed works. Tree protection works will be undertaken in accordance with DEVB TC(W) 7/2015 on "Tree Preservation" and tree risk assessment in accordance with "Guidelines for Tree Risk Assessment and Management Arrangement" by DEVB.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period	Design and construction phase	#
Table 10.11	Table 9.1	CM02: If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with "Guidelines on Tree Transplanting" by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit where applicable.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period	Design and construction phase	^
Table 10.11	Table 9.1	CM03: Construction area control, where possible, to ensure that the landscape and visual impacts arising from the construction activities are minimised. This includes the reduction of the extent	Minimise landscape and visual impacts.	Contractor	Project area / During design stage / construction	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		and location of working areas to avoid sensitive LRs, siting of offices or temporary structures so that they are not visually prominent, and consideration of detailed schedules to shorten the construction period. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and areas of earthworks to alleviate the potential impacts and minimise soil erosion.			phase.		
Table 10.11	Table 9.1	CM04: Replanting of existing / disturbed vegetation shall be undertaken as soon as technically feasible during the construction phase. The priority shall be areas at the periphery of the site to ensure that proposed planting fulfils its role in mitigating the predicted impacts including screening views of the proposals as early as possible during the operation phase.	Maximise the mitigation effect of the planting to minimise landscape and visual impacts.	Contractor	Project area / During design stage / construction phase / Establishment Period	Construction phase	^
Table 10.11	Table 9.1	CM05: Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.	Minimise landscape and visual impacts.	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase.	Construction phase	N/A

Appendix K – Implementation Schedule and Recommended Mitigation Measures

Implementation status:

^	Mitigation measure was fully implemented
*	Observation/reminder was made during site audit but improved/rectified by the contractor
#	Observation/reminder was made during site audit but not yet improved/rectified by the contractor
X	Non-compliance of mitigation measure
•	Non-compliance but rectified by the contractor
N/A	Not Applicable at this stage as no such site activities were conducted in the reporting period

APPENDIX L
WASTE GENERATION IN THE REPORTING MONTH

Name of Department: ~~ArchSD~~ / CEDD / ~~DSD~~ / ~~EMSD~~ / ~~HyD~~ / ~~WSD~~ Contracto No.: ND/2018/01

Environmental Permit No.: EP-510/2016
Monthly Summary Waste Flow Table for 2020

Month	Total Quantity Generated	Actual Quantities of Inert C&D Waste Generated Monthly					Actual Quantities of C&D Waste Generated Monthly				
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal	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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
Jan	0.00304	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304
Feb	0.00699	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00699
Mar	0.01294	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01294
Apr	0.02173	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02173
May	0.02534	0.00000	0.00000	0.00000	0.01329	0.00000	0.00000	0.00000	0.00000	0.00000	0.01205
Jun	0.10368	0.00000	0.00000	0.00000	0.00687	0.00000	0.00000	0.00000	0.00000	0.00000	0.09681
Sub-Total	0.17372	0.00000	0.00000	0.00000	0.02016	0.00000	0.00000	0.00000	0.00000	0.00000	0.15355
Jul	33.65416	0.00000	0.00000	33.07233	0.07872	0.00000	0.00000	0.00000	0.00000	0.00000	0.50311
Aug	26.60619	0.00000	0.00000	25.47880	0.48478	0.00000	0.00000	0.00000	0.00000	0.00000	0.64260
#Sep	50.56237	0.00000	0.00000	48.88600	0.45676	0.00000	0.00000	0.00000	0.00000	0.00000	1.21961
Oct	41.87262	0.00000	0.000	41.63335	0.02784	0.00000	0.00000	0.00000	0.00000	0.00000	0.21142
Nov											
Dec											
Total	152.86905	0.00000	0.00000	149.07049	1.06827	0.00000	0.00000	0.00000	0.00000	0.00000	2.73029

Name of Department: ~~ArchSD~~ / CEDD / ~~DSD~~ / ~~EMSD~~ / ~~HyD~~ / ~~WSD~~ Contracto No.: ND/2018/01

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	Metal	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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
545.860	0.000	195.040	330.820	17.000	0.000	0.000	0.000	0.000	0.000	3.000

Notes:

(1) Not Used.

(2) The waste flow table shall also include C&D materials that are specified in this contract to be imported for use at the Site

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

(4) The summary table shall be submitted to the *Supervisor* monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.20A(4)

(5) The density of inert C&D is assumed 2.2 tonnes per cubic meter

(6) The density of non-inert C&D is assumed 1.5 tonnes per cubic meter

(7) The C&D materials generated before Jul 2020 are from domestic activities, site investigation, clearance, and preparation for surveying works

*The total quantity of C&D materials to be generated from the Contract based on the supplementary information under letter (Ref.: (ND/2018/01)/M45/100/B00005)

#The quantity of "Reused in other Projects" had been updated to 30 September 2020

APPENDIX M
COMPLAINT LOG

Appendix M - Complaint Log

Reporting month: October 2020

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
C-003	N/A	Kong Nga Po Road	8th October 2020	The complainant complained about the muddy water discharged from construction site into Kong Nga Po Road during heavy rainfall. Also, he concerned if there is illegal discharge and if the design of drainage system is sufficient to handle the discharge.	Under investigation.	On-going
C-004	N/A	Kong Nga Po Road	28th October 2020	The complainant complained about the polluting effluent discharged from construction site, leading to flooding and water pollution problem.		
C-005	N/A	Slope Feature A at Kong Nga Po Road	28th October 2020	The complainant complained about the noise generated from the construction activities at Slope Feature A that caused annoyance to his family.	Under investigation	On-going

Cumulative Complaint Log

Reporting Period	Total no. of Complaint Received
This reporting month	3
From 3rd July 2020 to end of the reporting month	5

APPENDIX N
SUMMARY OF SUCCESSFUL PROSECUTION

Appendix N - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up	Total no. Received in this Reporting Month	Total no. Received since Project Commencement
--	--	--	--	--	--

APPENDIX O
PROACTIVE ENVIRONMENTAL PROTECTION PROFORMA

Ref: PEPP_2011_2101

Working Period: November 2020 to January 2021

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 7.5.1.3; EM&A Log 6.2	Tree felling works	Kong Nga Po Main Site Kong Nga Po Road	Generation of timber waste and yard waste	• Sorting, cutting and delivering suitable timber to shredding facilities for recycling and reused • Topsoil will be disposed at other project (Tung Chung) for reuse. • Regular inspection for compliance of tree treatment schedule • Provide training to frontline workers for conservative species
EIA 5.6.1.2; EM&A Log 4.2	Pre-drilling works	Kong Nga Po Main Site	Wastewater generated from drilling works	• Re-circulation of water will be adopted for drilling rigs to minimize wastewater generation • Provide desilting/sedimentation devices for wastewater treatment before discharge
EIA 4.4.6; EM&A Log 3.2			Noise from drilling rigs and accessary equipment	• Regular inspection and maintenance of plant and equipment in good condition • Noise insulating fabric would be adopted for drilling rigs where near sensitive receivers
EIA 7.5.1.4; EM&A Log 6.2			Chemical such as diesel and lubricants from maintenance of construction vehicles and mechanical equipment	• Drip tray and chemical spillage kit will be provided on site

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 3.91; EM&A Log 2.2	Pilling Works (Foundation Socketed H-Piles)	Kong Nga Po Road Kong Nga Po Main Site	Air Pollution	• Regular inspection and maintenance of plant & equipment in good condition
EIA 5.6.1.2; EM&A Log 4.2			Wastewater generated from drilling works	• Re-circulation of water will be adopted for drilling rigs to minimize wastewater generation • Provide wastewater treatment facilities (Wetsep) for treatment before discharge • Regular inspection and maintenance of wastewater treatment facilities by the supplier • Enclosure will be provided to drill rods to minimize the risk of water spillage • Establish soil berm near piling area to control water outflow

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 4.4.6; EM&A Log 3.2	(Cont') Pilling Works (Foundation Socketed H-Piles)	(Cont') Kong Nga Po Road Kong Nga Po Main Site	Noise from drilling rigs and accessory equipment	• Regular inspection and maintenance of plant & equipment in good condition • Use of proprietary noise barrier (SilentUP) for noisy works near sensitive receiver • Deployment of quality powered mechanical equipment as possible • Regular inspection and maintenance of plant & equipment in good condition
EIA 7.5.1.4; EM&A Log 6.2			Chemicals such as diesel and lubricants from maintenance of construction vehicles and mechanical equipment	• Drip tray and chemical spillage kit will be provided on site
EIA 10.11, EM&A Log 9.4			Ecology Concern	• Provide training to frontline workers for conservative species • Use of proprietary noise barrier (SilentUP) for noise works to minimize impact to nearby species • Deployment of quality powered mechanical equipment as possible • Regular inspection and maintenance of plant & equipment in good condition

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 3.91; EM&A Log 2.2	Site Formation	Kong Nga Po Main Site	Dust impact from excavation activities	• Provision of sprinklers provide dust suppression control • Deployment of water tank truck for regular water spraying to enhance dust suppression • Speed control of site vehicles • Stockpile of dusty materials will be covered by tarpaulin to avoid wind-blow dust • Vehicles used for transporting dusty materials/spoils will be covered by mechanical cover before leaving the site • Wheel washing facilities had been provided and cleaning the wheel of all vehicles before leaving the site
EIA 5.6.1.2; EM&A Log 4.2			Water Pollution Control	• Existing drainage/runoff within the site where connected to communal drainage system will be covered or sealed to prevent water entering the communal drainage/sewerage system. • Appropriate and sufficient desilting devices, wastewater treatment facilities provided on site prior to discharge • Regular inspection and maintenance of wastewater treatment facilities by the supplier

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
(Cont') EIA 5.6.1.2; EM&A Log 4.2	(Cont') Site Formation	(Cont') Kong Nga Po Main Site	(Cont') Water Pollution Control	• Provision of soil berms and retention pit near excavation area/low-lying region, grassy vegetation had been provide to bare face of soil berm as natural filtration • Cover the stockpiling with appropriate materials • Hard paving or well-compact of main haul road to minimize washout of soil • Slope stabilization such as hydroseeding and shotcrete provision • Wheels of all vehicles and plants should be cleaned before leaving the site. The wastewater generated from wheel washing activities will be treated and reused on site
EIA 4.4.6; EM&A Log 3.2			Noise	• Scheduling of works to minimize the concentration of noisy works • Regular inspection and maintenance of plant & equipment in good condition • Enclose the noisy part of machineries with noise isolating mats • Deployment of quality powered mechanical equipment as possible

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 7.5.1.4; EM&A Log 6.2	(Cont') Site Formation	(Cont') Kong Nga Po Main Site	Chemicals such as diesel and lubricants from maintenance of construction vehicles and mechanical equipment	• Oils and fuel should be stored in designated area • Drip tray and chemical spillage kit will be provided on site
EIA 7.5.1.1 & 7.5.1.2; EM&A Log 6.2			Waste Generation	• Training of site personnel in proper waste management and chemical handling procedures • Provision of sufficient waste disposal point and regular collection of wastes • Trash bins with cover had been provided at designated location for domestic refuse collection • Encourage recycling of useful wastes such as aluminum, plastic and paper and provided facilities for collection • The excavated materials will be sorted and screened for subsequent backfilling works. • Alternative disposal ground had been sought (Tai Po Area 39 and Tung Chung Extension) and delivered to other projects to minimize the use of Public Fills

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 10.11, EM&A Log 9.4	(Cont') Site Formation	(Cont') Kong Nga Po Main Site	Ecology Concern	• Provide training to frontline workers for the conservative species • Provision of protective fence for the conservative species • Regular inspection for concerned vegetation and conservative species • Adopted low intensity lighting to minimize the light impact to surrounding species • Regular inspection and maintenance of plant & equipment in good condition • Enclose the noisy part of machineries with noise isolating mats to minimize noise level to nearby species • Deployment of quality powered mechanical equipment as possible
EIA 3.91; EM&A Log 2.2	Retaining Wall Construction	Kong Nga Po Main Site	Air	• Dusty materials that exceeded 20 bags will be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 5.6.1.2; EM&A Log 4.2	(Cont') Retaining Wall Construction	(Cont') Kong Nga Po Main Site	Waste water pollution control	• Soil berm and retention pit will be provided for the control of water outflow • Desilting/sedimentation devices will be provided for wastewater treatment prior to discharge • Designated location for residual concrete washout
EIA 4.4.6; EM&A Log 3.2			Noise	• Well-planning of concreting works to prevent working in restricted hours
EIA 7.5.1.4; EM&A Log 6.2			Chemicals for concreting works	• Chemical for concreting works such as curing compound and retarder should be stored in designated area with proper labelling and packing • Designated location for residual concrete washout

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 3.91; EM&A Log 2.2	Slope Upgrading Works	Kong Nga Po Main Site Kong Nga Po Road	Dust impact from soil nail works	• Three side enclosure with top shelter for cement mixing works • Regular spraying of water on dusty materials • Cover the drilling part of machine to minimize dust generation • Dusty materials should be exceeded 20 bags and stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.
EIA 5.6.1.2; EM&A Log 4.2			Water	• Deployment of desilting/sedimentation devices for wastewater treatment prior to discharge • Establish soil berm with retention pit to control water outflow.
EIA 4.4.6; EM&A Log 3.2			Noise	• Regular inspection and maintenance of plant and equipment in good condition • Provide noise isolating mat to drilling rigs where near to the sensitive receiver
EIA 10.11, EM&A Log 9.4			Ecology Concern	• Provide training to frontline workers for the conservative species • Provision of protective fence for the conservative species • Regular inspection for concerned vegetation

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 3.91; EM&A Log 2.2	Road and Associated Works	Kong Nga Po Road	Air	• Regular inspection and maintenance of plant and equipment in good condition
EIA 5.6.1.2; EM&A Log 4.2			Water	• Provide desilting/sedimentation devices for wastewater treatment before discharge
EIA 4.4.6; EM&A Log 3.2			Noise from roadworks	• Enclose the noisy part of machineries with noise isolating mats during hard surface breaking
EIA 7.5.1.4; EM&A Log 6.2			Chemical Waste	• Drip tray and chemical spillage kit will be provided on site

**EIA Ref/EM&A Log Ref/Design Document Ref*

***Details of equipment, vehicles, plants, processes, technologies for the construction method*

	Name	Signature	Date
Prepared by Contractor	Kyan YAN	Kyan	12/11/2020
Endorsed by *Supervisor's* Representative	Winston Wong		12/11/2020
Reviewed by Environmental Team Leader	Ivy Lam	Ivy Lam	12/11/2020
Approved by Independent Environmental Checker	Kevin Li	Li	13/11/2020