

Environmental Protection Department

Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Monthly EM&A Report For July 2021

[08/2021]

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T +852 2828 5757 F +852 2827 1823 mottmac.hk Environmental Monitoring and Audit (EM&A) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange) Environmental Permit No. EP-324/2008/E Condition 3.3 – Submission of Monthly EM&A Report – July 2021 for the portion of Stage 2 works under Contract No. HY/2012/06

12 August 2021 By Fax (2805 5028) & Hand

We refer to the Monthly EM&A Report – July 2021 received on 10 August 2021 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – July 2021 for the portion of works under Stage 2 of the captioned Project which is managed under Contract No. HY/2012/06.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Steven Tang Independent Environmental Checker

c.c. HyD AECOM

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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.

The construction works for this Project are delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under three works contracts. Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" and the entrusted portion to CEDD under Contract No. CV/2012/09 "Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Lepartment Term Contract (Management and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)". The construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 have been completed on 23 May 2018.

Pursuant to the EP (EP-324/2008/E) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 and 31 July 2021. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were:

- Rectification of Defect

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons and successful prosecution was received in the reporting period.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Background

- 1.1.1. Tolo Highway and Fanling Highway are the expressways in the North East New Territories (NENT) connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 9, which links Hong Kong Island to the boundary at Shenzhen. At present, this section of Route 9 is a dual 3-lane carriageway. However, at several major interchanges along this section of Route 9, the highway is a dual-2 lane carriageway only. Severe congestion is a frequent occurrence during the peak periods, particularly in the Kowloon-bound direction.
- 1.1.2. The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.
- 1.1.3. The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.
- 1.1.4. The scope of the Project comprises mainly:
 - (i) Widening of a 5.7 km section of Tolo Highway and 3.0 km section of Fanling Highway between Island House Interchange and Wo Hop Shek Interchange from the existing dual 3-lane to dual 4-lane, including construction of new vehicular bridges;
 - Widening of interchange sections at Island House Interchange, Tai Po North Interchange, and Lam Kam Road Interchange from dual 2-lane to dual 3-lane, except Sha Tin bound carriageway at Tai Po North Interchange, which is widened from 3-lane to 4-lane, including realignment of various slip roads;
 - (iii) Modification and reconstruction of highways, vehicular bridges, underpasses and footbridges.
- 1.1.5. The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" and the entrusted portion to CEDD under Contract No. CV/2012/09 "Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works Contract 3". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)".
- 1.1.6. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) are appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Tolo project under Agreement No. CE 58/2000 Supplementary Agreement No. 3 (SA3) (i.e. the Engineer for Contract No. HY/2012/06).
- 1.1.7. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of Contract No. HY/2012/06. Chiu Hing Construction & Transportation Company Limited (Chiu Hing) was commissioned as the Contractor of Contract No. 02/HY/2015. The construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 have been completed on 23 May 2018.

- 1.1.8. AECOM Asia Co. Ltd. was commissioned by China State Construction Engineering (Hong Kong) Limited as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Contract and Mott MacDonald Hong Kong Ltd. acts as the Independent Environmental Checker (IEC) for the Contract.
- 1.1.9. The construction phase of the Contract under the EP commenced on 21 November 2013.
- 1.1.10. According to the updated EM&A Manual of Stage 2 of the Project, there is a need of an EM&A programme including air quality and noise monitoring. The EM&A programme for Stage 2 of the Project commenced on 21 November 2013.

1.2 Scope of Report

1.2.1 This is the ninety-third monthly EM&A Report under the Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange". This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in July 2021.

1.3 Project Organization

1.3.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Raymond Ho	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06]	For incomental	Michael Tsang	9277 4956	2672 2501
(China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.4 Summary of Construction Works

- 1.4.1 The construction phase for the Contract under the EP commenced on 21 November 2013.
- 1.4.2 Details of the construction works of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:
 - Rectification of Defect
- 1.4.3 The Construction Programme is shown in Appendix B.
- 1.4.4 The general layout plan of the Project site of Contract No. HY/2012/06 and Works Order Nos. CB128520-5 and CB128519-0 under 02/HY/2015 showing the contract areas are shown in Figure 1.1 and Figure 1.2 respectively.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C .

1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise and environmental site inspections for air quality, water quality, noise, waste management, ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
 - All monitoring parameters;
 - Monitoring schedules for the reporting period and forthcoming months;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plan;
 - Environmental mitigation measures, as recommended in the Project EIA study final report; and
 - Environmental requirement in contract documents.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix D.

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the updated EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

 Table 2.1
 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3)
High Volume Sampler (24-hour TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170)

2.3 Monitoring Locations

2.3.1 The monitoring station was set up at the proposed location in accordance with updated EM&A Manual. Table 2.2 describes details of the monitoring station. The locations are shown in Figure 1.3a.

Table 2.2 Locations of Impact Air Quality Monitoring Station

Location	Monitoring Station
AM2 (SR2)	Fanling Government Secondary School

2.4 Monitoring Parameters and Frequency

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters and Frequency

Parameter	Frequency
24-hour TSP	Once every 6 days
1-hour TSP	3 times every 6 days while the highest dust impact was expected

2.5 Monitoring Methodology

- 2.5.1 24-hour TSP Monitoring
 - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (iv) A minimum of 2 meters separation from any supporting structure, measured horizontally.
 - (v) No furnace or incinerator flues nearby.
 - (vi) Airflow around the sampler was unrestricted.
 - (vii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (viii) A secured supply of electricity was obtained to operate the samplers.
 - (ix) The sampler was located more than 20 meters from any dripline.
 - (x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
 - (b) Preparation of Filter Papers
 - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.</p>
 - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
 - (c) Field Monitoring
 - (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminum strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
 - (xi) The initial elapsed time was recorded.
 - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
 - (xiii) The final elapsed time was recorded.

- (xiv) The sampled filter was removed carefully and folded in half-length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
 - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
 - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
 - (iii) Calibration certificate of the HVSs are provided in Appendix E.
- 2.5.2 1-hour TSP Monitoring
 - (a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.
- (b) Maintenance and Calibration
 - The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
 - (ii) 1-hour validation checking of the TSP meter against HVS is carried out yearly at the air quality monitoring locations.

2.6 Monitoring Schedule for the Reporting period

2.6.1 The schedule for environmental monitoring in July 2021 is provided in Appendix F.

2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

Table 2.4	Summary of 1-hour TSP Monitoring Results in the Reporting Period
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Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	60.6	56.0 - 67.2	317.8	500

Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	18.5	14.7 – 28.3	200.7	260

- 2.7.2 The major dust source during the monitoring was mainly from nearby traffic emission.
- 2.7.3 All 1-hour and 24-hour TSP results were below the Action and Limit Level at all monitoring locations in the reporting period.
- 2.7.4 The event action plan is annexed in Appendix J.
- 2.7.5 Weather information including wind speed and wind direction is annexed in Appendix H. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.

3 NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in Appendix D.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

 Table 3.1
 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238 / 2270
Acoustic Calibrator	B&K 4231

3.3 Monitoring Locations

3.3.1 Monitoring stations M2 and M3 were set up at the proposed locations in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

Table 3.2	Locations of Impact Noise Monitoring Stations
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Monitoring Station	Location	Description
M2	West Tai Wo	1.2m from the ground floor free-field of the Residential
M3	Fanling Government Secondary School	1m from the exterior of the roof top façade of the school

3.4 Monitoring Parameters and Frequency

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. L_{eq} , L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) Façade measurement was made at monitoring station M3, while free-field measurement was made at monitoring station M2.
- (b) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at monitoring station M2.
- (c) The battery condition was checked to ensure the correct functioning of the meter.
- (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: L_{eq(30-minutes)} during non-restricted hours i.e. 07:00 1900 on normal weekdays; L_{eq(5-minutes)} during restricted hours i.e. 19:00 – 23:00 and 23:00 – 07:00 of normal weekdays, whole day of Sundays and Public Holidays
- (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (f) During the monitoring period, the L_{eq}, L₁₀ and L₉₀ were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.
- 3.5.2 Maintenance and Calibration
 - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
 - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
 - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting period

3.6.1 The schedule for environmental monitoring in July 2021 is provided in Appendix F.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

 Table 3.4
 Summary of Construction Noise Monitoring Results in the Reporting Period

Location	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eq} (30 mins)	L _{eq (30 mins)}	L _{eq (30 mins)}
M2* (West Tai Wo)	67.7	62.9 - 69.2	75
M3 [#] (Fanling Government Secondary School)	63.8	59.4 – 67.1	65/70

*+3dB(A) Façade correction included

Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

- 3.7.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 3.7.3 Major noise sources during noise monitoring in the reporting period were mainly road traffic noise.
- 3.7.4 The event action plan is annexed in Appendix J.

4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting period, 4 site inspections were carried out respectively on 6, 13, 20 and 27 July 2021 for the Contract. While no specific observation was recorded, recommendations on remedial actions were given to the Contractor for precautionary purpose.
- 4.1.2 The environmental site inspections summaries are provided in Appendix K.
- 4.1.3 Particular observations during the site inspections are described below:

Contract No. HY/2012/06

Air Quality

4.1.4 No adverse observation was identified in the reporting period.

Noise

4.1.5 No adverse observation was identified in the reporting period.

Water Quality

4.1.6 Silt spread near to drainage system was observed at SA324. The Contractor was advised to remove the silt for preventing it enter the public drainage system.

Chemical and Waste Management

4.1.7 No adverse observation was identified in the reporting period.

Landscape and Visual Impact

4.1.8 No adverse observation was identified in the reporting period.

Miscellaneous

4.1.9 No adverse observation was identified in the reporting period.

4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 Contract No. HY/2012/06 has registered as chemical waste producers for the Contract. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 4.2.2 As advised by the Contractor of Contract No. HY/2012/06, 0 m³ of inert C&D material was generated in the reporting month (0 m³ disposed of as public fill to Tuen Mun 38, 0 m³ of inert C&D materials was reused on site, 0 m³ of inert C&D materials was reused in other projects and 0 m³ was broken concrete). For C&D wastes, 0 m³ of general refuse was disposed of at NENT landfill, 0 kg of paper/cardboard packaging, 0 kg of plastics and 0 kg of metals were collected by recycling Contractors, and 0 kg of chemical wastes was collected by licensed Contractors in the reporting period.
- 4.2.3 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.1.

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	0 m ³	Tuen Mun 38
Broken concrete	0 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	0 m ³	NENT Landfill
Paper/cardboard packaging	0 kg	Recycling Facilities
Plastics	0 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	0 m ³	Site Area
C&D materials reused in other projects	0 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

Table 4.1 Summary of Waste Flow Table for Contract No. HY/2012/06

4.2.4 The Contractors were advised to maintain on-site waste sorting and recording system and maximize reuse / recycle of C&D wastes.

4.3 Environmental Licenses and Permits

4.3.1 The environmental licenses and permits for Stage 2 of the Project and valid in the reporting period is summarized in Table 4.2.

	-					
Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
EIAO	Environment al Permit	EP-324/2008/E	26/01/2017	N/A	HyD	
WPCO	Discharge	WT-00031556- 2018	20/09/2018	30/09/2023	CSHK	
WPCO	License (Site)	WT00027968- 2017	22/05/2017	31/05/2022	Chiu Hing	
WDO	Chemical Waste Producer Registration	5213-722- C3822-01	05/09/2013	N/A	СЅНК	Chemical waste produced in Contract HY/2012/06
WDO	Billing Account for	7017860	N/A	N/A	СЅНК	Waste disposal in Contract HY/2012/06
WDO	Disposal of Construction Waste	7024392	N/A	N/A	Chiu Hing	Waste disposal in Contract 02/HY/2015
	Notification Under Air Pollution	361991	15/07/2013	N/A	CSHK	
APCO	Control (Construction Dust) Regulation	414360	08/03/2017	N/A	Chiu Hing	

 Table 4.2
 Summary of Environmental Licensing and Permit Status

4.4 Implementation Status of Environmental Mitigation Measures

4.4.1 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C.

4.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 4.5.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 4.5.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.

4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 4.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 4.1.
- 4.6.2 No complaint, notification of summons and successful prosecution was received in the reporting period.
- 4.6.3 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix L.

5 FUTURE KEY ISSUES

5.1 Construction Programme for the Coming Months

- 5.1.1 The major construction works for Contract No. HY/2012/06 in August 2021 will be:
 - Rectification of Defect

5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in August 2021:
 - Properly store and label oils and chemicals on-site;
 - Chemical, chemical waste and waste management;
 - Collection of construction waste should be carried out regularly;
 - Properly maintain all drainage facilities and wheel washing facilities on site;
 - Exposed slopes should be covered up properly if no temporary work will be conducted;
 - Quieter powered mechanical equipment should be used;
 - Suppress dust generated from excavation activities and haul road traffic; and
 - Tree protective measures for all retained trees should be well maintained.

5.3 Monitoring Schedule for the Coming Month

5.3.1 The tentative schedule for environmental monitoring in August 2021 is provided in Appendix F.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

- 6.1.1 The construction phase and EM&A programme of the Contract commenced on 21 November 2013.
- 6.1.2 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 6.1.3 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 6.1.4 4 environmental site inspections were carried out in July 2021. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.5 No complaint, notification of summons and successful prosecution was received in the reporting period.

6.2 Recommendations

6.2.1 According to the environmental site inspections performed in the reporting period, the following recommendations on remedial actions were provided to the Contractor for precautionary purpose:

Contract No. HY/2012/06

Air Quality

6.2.2 No adverse observation was identified in the reporting period.

Noise

6.2.3 No adverse observation was identified in the reporting period.

Water Quality

6.2.4 The Contractor was advised to remove the silt for preventing it enter the public drainage system.

Chemical and Waste Management

6.2.5 No adverse observation was identified in the reporting period.

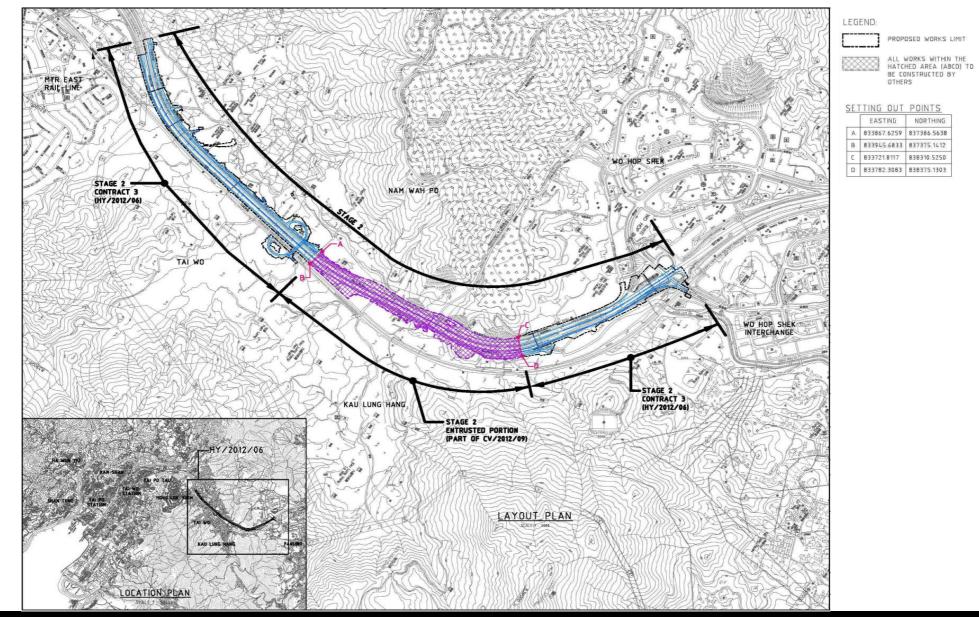
Landscape and Visual Impact

6.2.6 No adverse observation was identified in the reporting period.

Miscellaneous

6.2.7 No adverse observation was identified in the reporting period.

FIGURES

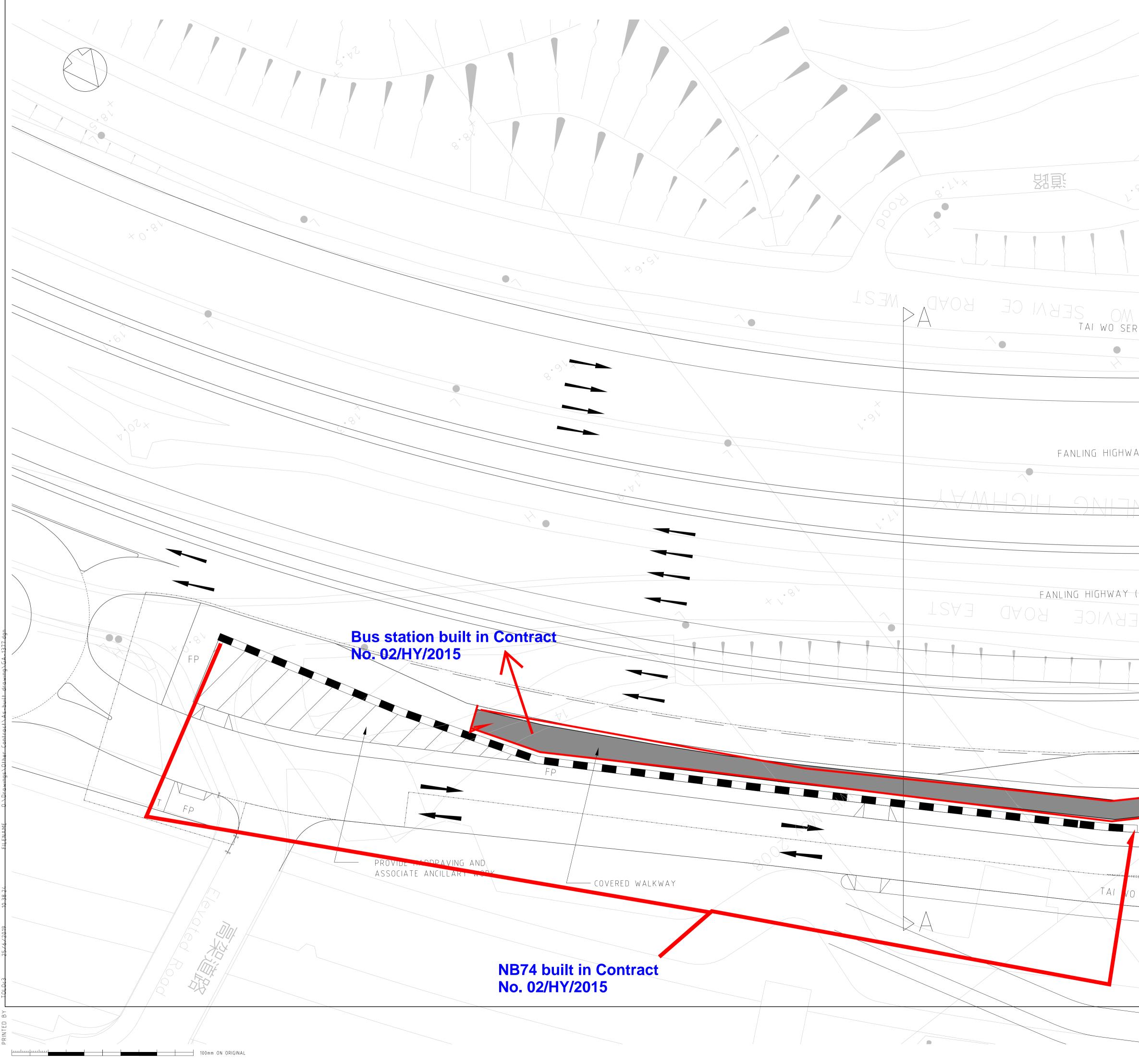


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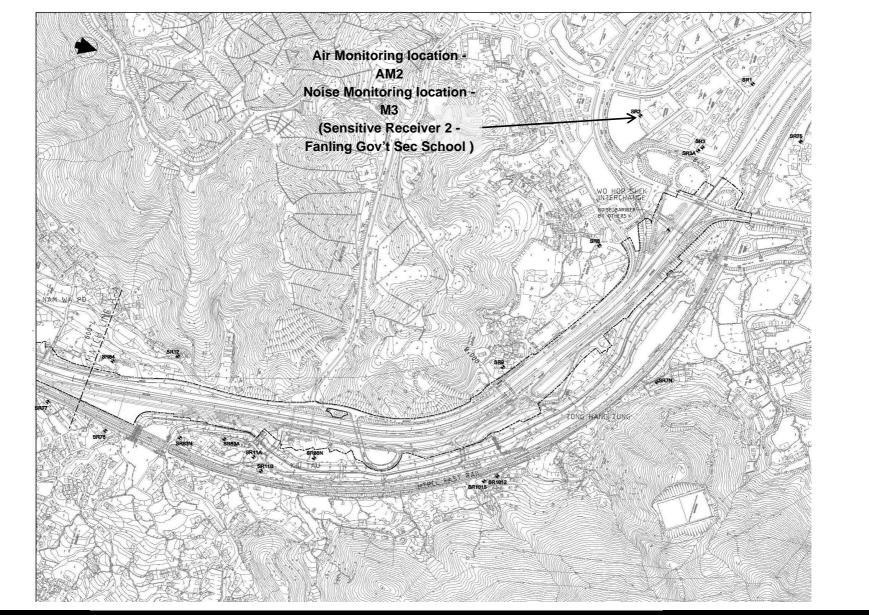
CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan



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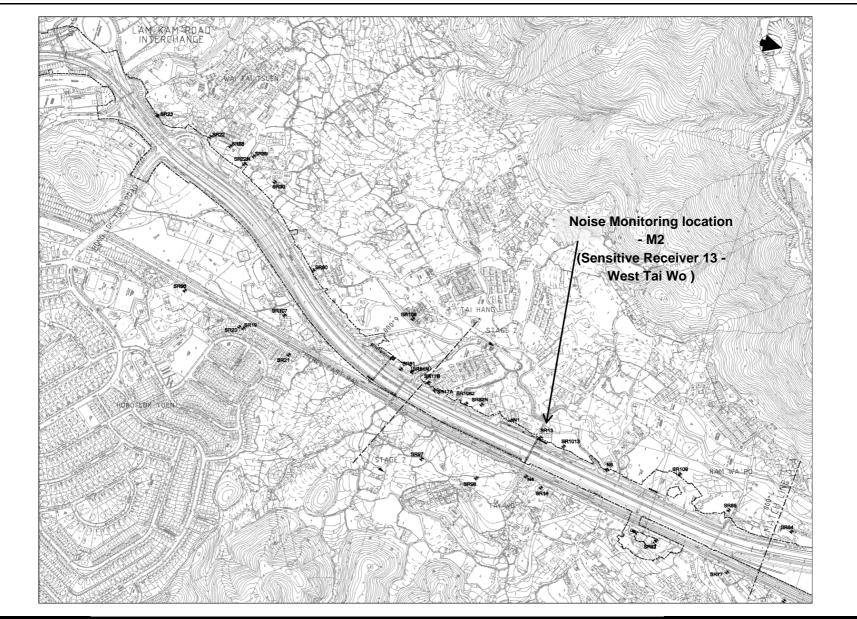


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

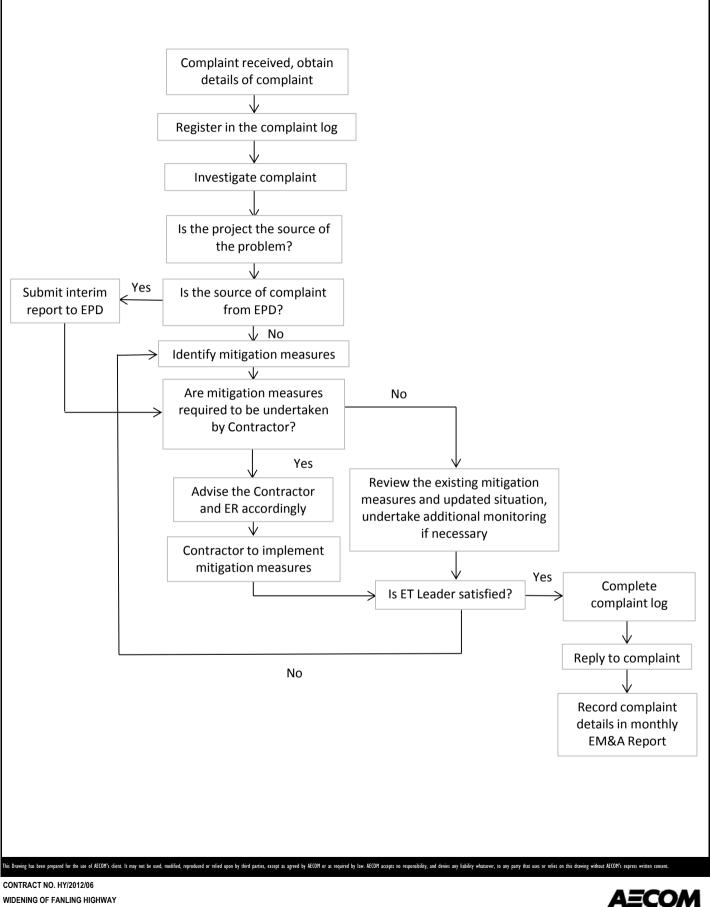


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE

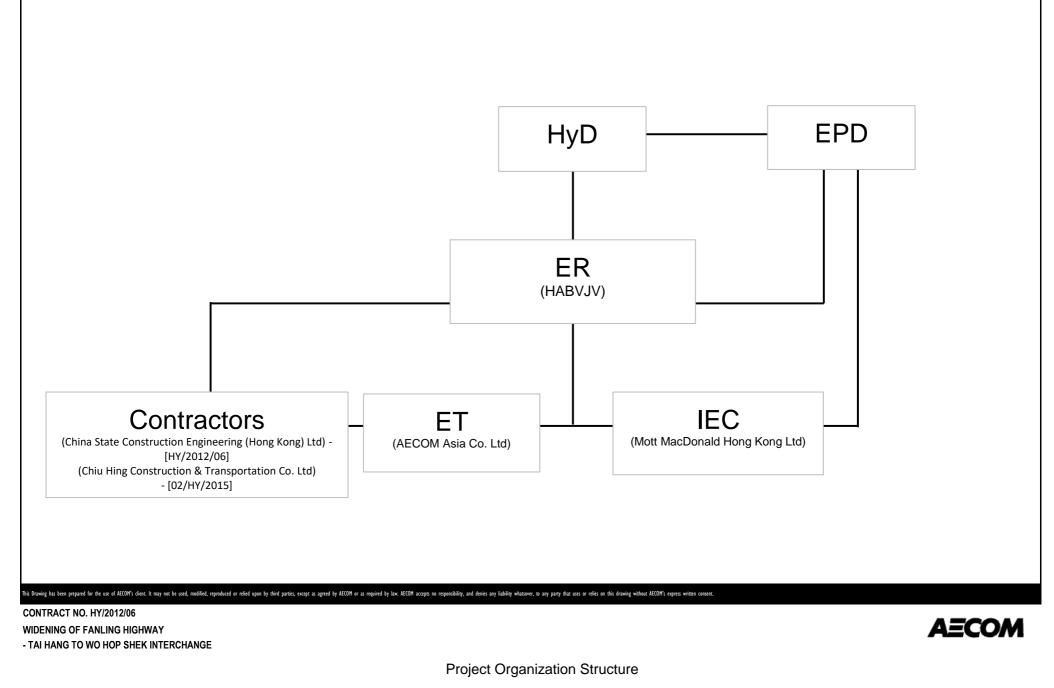


Locations of Monitoring Station



- TAI HANG TO WO HOP SHEK INTERCHANGE

APPENDIX A PROJECT ORGANIZATION STRUCTURE



APPENDIX B CONSTRUCTION PROGRAMMES

Rev. 8 (Progress	Update)(20-Nov-19)	Dur.%	3 N em. Duration	/Ionth Ro	olling Program	Finish	Total	Page 1 of 3 (22	-1100
		Complete		Duration			Float	2019 2020 Nov Dec Jan	Fe
ONE 1 (Ch.	5640 to 5880)		<u>_</u>						
Other Works									
VO189 - Irrigati	on System in Zone 1 and Zone 2								
VO189 - Irriga	tion System in Zone 1 and Zone 2								
IS0120	Irrigation system installation in Zone 1	0%	30	30	20-Nov-19*	24-Dec-19	252		
Establishment V	Works		I						
Establishmen	t Works								
Z1.EW.1000	Establishment work Zone1	44.38%	203	365	11-Jun-19 A	09-Jun-20	0		
ONE 2 (Ch.	5880 to 6930)								
Seneral		<u></u>	<u></u>		<u></u>	<u></u>			-
DRM Proposal									-
DRM Proposa	l l								
ADVZ20300	TWSR-W lane 2 construction	0%	30	30	27-Dec-19	03-Feb-20	222		▼
loise Barrier	Along Fanling Highway N/B								-
	0-6060)-FH N/B Side								-
Noise Barrier	· · · · · · · · · · · · · · · · · · ·								-
NB03340	Relocate Bus Shelter installation - VO86	0%	11	11	16-Dec-19*	30-Dec-19	249		
Jnderground Ut	tility Works								-
Underground	•								-
UU0110	Towngas duct laying and associated work before backfill in Zone 1 & 2	92.72%	41	563	20-Apr-18A	30-Dec-19	187		
UU0130	TTA, duct laving and Road reinstatement by	0%	120	120	31-Dec-19	28-Apr-20	187		_
ridge Const	Towngas in Zone 1 & 2 (if required)								+
ridge Const New Tai Hang F									
General	ootonago								⊢
THBF0655	Tai Hang Footbridge Complete	0%	0	0		31-Dec-19	248	31-Dec-19 🔶 Tai Hang Footbridg	e Corr
TWSR-Fact F	L Highway S/B Side Section								┣─
THBF0640	Finishes Work	0%	34	30	25-Sep-19 A	31-Dec-19	248		
THBF0645	Bridge Structure complete (THFB-TWSR-E side)	0%	0	0		31-Dec-19	248	31-Dec-19 ♦ Bridge Structure co	mnlet
THBF0800	ABWF work	0%	34	30	25-Sep-19 A	31-Dec-19	240		
		0%	34	30	25-Sep-19 A	31-Dec-19	248		
Lift at TWSR-					_	01.5 10	0.10		
L1800	THFB Completion Date	0%	0	0		31-Dec-19	248	31-Dec-19	Date
Lift at FLHY S									
L1400	Roof cover for RC Platform	0%	33	30	25-Sep-19 A	30-Dec-19	249		
L1430	EMSD inspection & approval	60.71%	11	28	21-Oct-19A	30-Nov-19	292		
L1440	E&M and Finishes work	0%	35	35	02-Dec-19	14-Jan-20	237		
L1460	Lift available - NF78	0%	0	0		14-Jan-20	237	14-Jan-20 ♦ Lift availa	ible - N
L1490	THFB Completion Date	0%	0	0		31-Dec-19	248	31-Dec-19 🔶 THFB Completion I	Date
New Tai Wo Fo	othridge								-
General									-
TWFB1110	Tai Wo Footbridge Complete	0%	0	0		30-Dec-19	235	30-Dec-19 🔶 Tai Wo Footbridge C	Jomple
Crossing Fan	ling Highway Section								-
TWFB1460	Finishes Work	80.36%	33	168	06-Apr-19A	30-Dec-19	235		
TWFB1470	Bridge Structure complete (TWFB-Cross fanling	0%	0	0		30-Dec-19	235	30-Dec-19 ♦ Bridge Structure cor	mplete
	highway)								
Lift at TWSR-	W Side EMSD inspection & approval	71.43%	8	28	31-Oct-19A	27-Nov-19	322		
									.
L1770	E&M and Finishes work	93.33%	10	150	23-Apr-19A	30-Nov-19	258		
L1790	Lift available - NF116-Lift 1	0%	0	0		30-Nov-19	258	30-Nov-19 ♦ Lift available - NF116-Lift 1	
L1810	New Tai Wo footbridge completion	0%	0	0		30-Dec-19	249	30-Dec-19 🔶 New Tai Wo footbrid	lge coi
ignalized Ju	nction								
New Tai Hang F	Footbridge								
	FL Highway N/B Side Section								
THBF0630	Installation of Trafic Signal Poles at TWSR-W N/B (Tai hang Junction)	0%	21	21	18-Jan-20	13-Feb-20	192		<u> </u>
THBF0650	Ducting & Cable Draw Installation (Tai hang Junction)	79.39%	27	131	08-May-19 A	20-Dec-19	192		
THBF0660	Installation of Traffic Signal Poles at TWSR-W S/B	0%	21	21	21-Dec-19	17-Jan-20	192		
THBF0670	(Tai hang Junction) E-prom ordering by EMSD (Tai hang Junction)	82.93%	56	328	20-Nov-18 A	14-Jan-20	302		
THBF0680	Ducting & cable draw inspection by EMSD (Tai	0%	6	6	15-Jan-20	21-Jan-20	213		
	hang Junction) Ducting & cable draw inspection by ENSD (name								_
THBF0690	Junction)	0%	12	12	22-Jan-20	06-Feb-20	213		.
THBF0692	PCCW cable installation & connection (Tai hang Junction)	0%	6	6	14-Feb-20	20-Feb-20	207		
THBF0694	EMSD cable & equipment installation (Tai hang Junction)	0%	21	21	14-Feb-20	09-Mar-20	192		
WSR-West C	Construction				·	, 			
Drainage & Roa	ad Works								
Ch 5880-6740									
	vel o Project ID:WP Rev 08 (1911)			Contra	ct No. HY/2		_	Date Revisi	
Remaining Lev									
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Remaining Lev Actual Level of Actual Work Remaining Wo	f Effort Layout: 3 Month Rolling Program ork Page 1 of 3	Videning of Fa			· Tai Hang to ing Program			27-Nov-18 WP Rev	v 6A
Remaining Level of Actual Level of Actual Work	f Effort Layout: 3 Month Rolling Program ork Page 1 of 3	Videning of Fa						ZO-IVIAI-TO WF Key	v 6A v 7

	ActivityName	Dur.%	Rem. Duration	Original	Iling Program	Finish	Total				
		Complete		Duration			Float	2019 Nov	Dec	2020 Jan	Fe
RDZ20140	Z2 (CH5880-6930) : New TWSR-West Road works (2 lanes) complete	0%	0	0		03-Feb-20	222			03-Feb-20	♦ Z2
RDZ20170	Z2 : New TWSR-Westroad Works (lane 2)	0%	30	30	27-Dec-19	03-Feb-20	222				•
Other Works											
TCSS Works											
Civil Provisio	on for TCSS Works										
TCSS2140	M10 for CCTV	0%	14	14	31-Dec-19	16-Jan-20	235				
TCSS2180	Pillar box, isolator & associated duct work - PL204 for G30 & G55	0%	16	16	20-Nov-19	07-Dec-19	266				
TCSS2190	Pillar box, isolator & associated duct work - PL205	0%	16	16	20-Nov-19	07-Dec-19	266				
TCSS2200	for G54 & M10 Pillar box, isolator & associated duct work - PL206	0%	16	16	20-Nov-19	07-Dec-19	266				
TCSS2270	for G32 Civil Provision for TCSS works available (Zone 2)	0%	0	0		07-Dec-19	266	07-Dec-1	9 🔶 Civil Provisio	for TCSS works avai	ilable (2
		070				01 200 10	200	07-Dec-1			
	ion System in SA328 and SA329										
IS0140	ation System in SA328 and SA329 Irrigation system installation in SA328 and SA329	34.69%	32	49	04-Sep-19 A	28-Dec-19	250				
		0 1100 / 0		10		20 2 00 10	200				
<u></u>	ion System in Zone 1 and Zone 2										
IS0130	Irrigation system in Zone 1 and Zone 2	4.08%	47	49	04-Sep-19 A	16-Jan-20	235				
		1.0070		-10		10 0011 20	200				
_andscape Sof									 		
Landscape W Z2.LW.1000	Landscape soft work Zone2	0%	47	32	25-Sep-19 A	16-Jan-20	235				
		076	47	JZ	_s coprisit		200				<u> </u>
Establishment											-
Establishmer Z2.EW.1000	nt Works Establishment work Zone2	4.66%	348	365	02-Nov-19 A	01-Nov-20	0				
		-+.U0 %	340	505	5_ 110V-13 A	51 1107-20					
	i Hang (VO126)										
	i Hang (VO126)										
Pai Lau in Tai H	U U										
	i Hang (VO126)	0 1 0001	10			00.11 (0					
PL01050	Pai Lau Superstructure	84.62%	10	65	07-Oct-19A	30-Nov-19	231				
PL01080	Material Order & delivery on site	0%	45	45	20-Nov-19	14-Jan-20	196				
PL01090	Finishes works	0%	41	41	15-Jan-20	04-Mar-20	196				
Kau Lung Hang KLH Bridge -	g Vehicular Bridge <mark>West Ramp</mark>										
KLH.1290	West Ramp - Planting	0%	34	34	20-Nov-19*	31-Dec-19	248]	
KLH.1290 KLH Bridge - KLH.3430		0%	34	34 34	20-Nov-19*	31-Dec-19 31-Dec-19	248 248 248			 	
<mark>KLH Bridge -</mark> KLH.3430	Deck 1 Deck 1 - Planting										
<mark>KLH Bridge -</mark> KLH.3430	Deck 1 Deck 1 - Planting										
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting	0%	34	34	20-Nov-19	31-Dec-19	248				
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting	0%	34	34	20-Nov-19	31-Dec-19	248				· · · · · ·
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge - KLH.3590	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting	0%	34 34	34 34	20-Nov-19 20-Nov-19	31-Dec-19 31-Dec-19	248				
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge -	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting	0%	34 34	34 34	20-Nov-19 20-Nov-19	31-Dec-19 31-Dec-19	248				· · · · · ·
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge - KLH.3590 KLH Bridge - Z2.KLH.1500	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation	0% 0% 0% 75.61%	34 34 34 10	34 34 34 41	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19	248 248 248 248 248				
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge - KLH.3590 KLH Bridge - Z2.KLH.1500 Z2.KLH.1750	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof	0% 0% 0% 75.61% 0%	34 34 34 34 10 18	34 34 34 41 18	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19	248 248 248 248 248 248 242 242				
KLH Bridge - KLH.3430 KLH Bridge - KLH Bridge - KLH Bridge - Z2.KLH.1500 Z2.KLH.1750 Z2.KLH.1760	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof S1 - Handrail	0% 0% 0% 75.61% 0%	34 34 34 10 18 12	34 34 34 41 18 12	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19 23-Dec-19	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20	248 248 248 248 248 248 242 242 242				
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH.3590 KLH Bridge - KLH.3590 KLH Bridge - Z2.KLH.1500 Z2.KLH.1750 Z2.KLH.1770	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof S1 - Handrail S1 - Lighting & finishes works	0% 0% 0% 75.61% 0%	34 34 34 34 10 18	34 34 34 41 18	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19	248 248 248 248 248 248 242 242				
KLH Bridge - KLH.3430 KLH Bridge - KLH.3590 KLH Bridge - KLH Bridge - Z2.KLH.1500 Z2.KLH.1750 Z2.KLH.1760 Z2.KLH.1770	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof S1 - Handrail S1 - Lighting & finishes works Work	0% 0% 75.61% 0% 0%	34 34 34 10 18 12 12	34 34 34 41 18 12 12	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19 23-Dec-19 23-Dec-19	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20	248 248 248 248 248 242 242 242 242 242				
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge - KLH.3590 KLH Bridge - Z2.KLH.1750 Z2.KLH.1750 Z2.KLH.1770 Bridge Road Z2.KLH.2040	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof S1 - Handrail S1 - Lighting & finishes works Work Landscape work of KLHVB	0% 0% 0% 75.61% 0%	34 34 34 10 18 12	34 34 34 41 18 12	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19 23-Dec-19	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20	248 248 248 248 248 248 242 242 242				
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge - KLH.3590 KLH Bridge - Z2.KLH.1750 Z2.KLH.1750 Z2.KLH.1760 Z2.KLH.1770 Bridge Road Z2.KLH.2040	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof S1 - Lighting & finishes works Work Landscape work of KLHVB Inction	0% 0% 75.61% 0% 0%	34 34 34 10 18 12 12	34 34 34 41 18 12 12	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19 23-Dec-19 23-Dec-19	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20	248 248 248 248 248 242 242 242 242 242				
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KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge - Z2.KLH.1500 Z2.KLH.1750 Z2.KLH.1760 Z2.KLH.1770 Bridge Road Z2.KLH.2040 Signalized Ju Kau Lung Hang KLH Bridge - Z2.KLH.1032 Z3.KLH.1032 Z3.KLH.1032 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z4.KLH.2	Deck 1 Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof S1 - Lighting & finishes works Work Landscape work of KLHVB Installation of Trafic Signal Poles at TWSR-W N/B (KLHVB) Ducting & cable draw rectification (KLHVB) PCCW cable installation & connection (KLHVB) PCCW cable installation complete (KLHVB) Installation of Trafic Signal Poles at TWSR-W N/B (KLHVB) Ducting & cable draw rectification (KLHVB) PCCW cable installation & connection (KLHVB) PCCW cable installation complete (KLHVB) Trafic Signal hstallation complete (KLHVB) Trafic Signal hstallation complete (KLHVB) Trafic Signal hstallation complete (KLHVB) PCOUNT - slope improvement work T925 to 8700) truction Wo Hop Shek Bridge Complete	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	34 34 34 34 10 18 12 12 46 46 21 0 25 to 8100	34 34 34 41 18 12 12 164 21 164 21 21 21 21 21 21 21 21 21 21 21 21 21	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19 23-Dec-19 23-Dec-19 23-Dec-19 23-Apr-19 A 23-Apr-19 A 19-Oct-19 A 19-Oct-19 A 19-Oct-19 A 19-Oct-19 A 19-Oct-19 A	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 21-Dec-19 08-Jan-20 08-Jan-20 15-Jan-20 14-Dec-19 28-Jan-20 28-Jan-20 14-Jan-20	248 248 248 248 242 2436 227 248 236 227 236 227 236 227 236 237 237		31-Dec-19		
KLH Bridge - KLH.3430 KLH Bridge - KLH.3500 KLH Bridge - Z2.KLH.1500 Z2.KLH.1750 Z2.KLH.1760 Z2.KLH.1770 Bridge Road Z2.KLH.2040 Signalized Ju Kau Lung Hang KLH Bridge - Z2.KLH.1032 Z3.KLH.1032 Z3.KLH.1032 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z3.KLH.20 Z4.KLH.2	Deck 1 Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1 S1 - Roof steel frame installation S1 - Corrugated steel roof S1 - Handrail S1 - Lighting & finishes works Work Landscape work of KLHVB Inction Vehicular Bridge West Ramp Installation of Trafic Signal Poles at TWSR-W N/B (KLHVB) Ducting & cable draw rectification (KLHVB) PCCW cable installation & connection (KLHVB) PCCW cable installation complete (KLHVB) Trafic Signal hstallation complete (KLHVB) Trafic Signal hstallation complete (KLHVB) VOI1 - slope improvement work 7925 to 8700) truction shek Pedstrian & Cycle Bridge	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	34 34 34 34 10 18 12 12 46 46 21 0 25 to 8100	34 34 34 41 18 12 12 164 21 164 21 21 21 21 21 21 21 21 21 21 21 21 21	20-Nov-19 20-Nov-19 20-Nov-19 20-Nov-19 11-Sep-19 A 02-Dec-19 23-Dec-19 23-Dec-19 23-Dec-19 23-Apr-19 A 23-Apr-19 A 19-Oct-19 A 19-Oct-19 A 19-Oct-19 A 19-Oct-19 A 19-Oct-19 A	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 21-Dec-19 08-Jan-20 08-Jan-20 15-Jan-20 14-Dec-19 28-Jan-20 28-Jan-20 14-Jan-20	248 248 248 248 242 2436 227 248 236 227 236 227 236 227 236 237 237		31-Dec-19	28-Jan-20 ◆	

		Dur.% Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2019 2020
							1 loat	Nov Dec Jan Fe
	nal Retaining Wall in Zone 4 Near at	Grade Cycle	Track and F	ootpath	at WHS Brid	lge		
Cycle Track WHS1560	Retaining Wall construction	0%	34	24	14-Nov-19 A	31-Dec-19	101	
WHS1570	Concrete Footing for railing	0%	10	10	02-Jan-20	13-Jan-20	101	
WHS1580	Concrete Footing for Expressway boundary fence	0%	10	10	14-Jan-20	24-Jan-20	101	
WHS1590	300 U-channel	0%	12	12	28-Jan-20	10-Feb-20	149	
WHS1600	backfill	0%	3	3	11-Feb-20	13-Feb-20	149	
WHS1610	Cycle Track sub-base & wearing course	0%	6	6	14-Feb-20	20-Feb-20	149	
Footpath								
WHS2150	Concrete Footing for railing	0%	15	15	28-Jan-20	13-Feb-20	101	
WHS2160	Concrete Footing for Expressway boundary fence	0%	15	15	14-Feb-20	02-Mar-20	101	 <u> </u>
WSR-West C	Construction							
Drainage & Roa								
	L Highway N/B Side Section							
RDZ41180	TWSR -W Road Works rectification	0%	18	18	20-Nov-19	10-Dec-19	264	
ther Works								
TCSS Works								
	struction Works							
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0%	0	0	20-Nov-19	20-Nov-19	282	 ·····
Civil Provision	n for TCSS Works							
TCSS2150	M12 for CCTV	0%	14	14	02-Jan-20*	17-Jan-20	234	
TCSS2160	P51 for VSLS	0%	14	14	02-Dec-19*	17-Dec-19	168	
TCSS2170	P52 for VSLS	0%	14	14	02-Dec-19*	17-Dec-19	168	
								 ······
TCSS2210	Pillar box, isolator & associated duct work - PL207 for G34 & G35	0%	30	30	18-Dec-19*	24-Jan-20	168	
TCSS2230	Pillar box, isolator & associated duct work - PL251 for G51	0%	30	30	28-Jan-20	02-Mar-20	168	
DS50								
TCSS1850	Sign Gantry Erection - DS50 (Z4) (Deleted by Verbal instruction, VO is pending)	0%	0	0	20-Nov-19	20-Nov-19	282	1
TCSS Hub Roo	om							
TCSS1920	TCSS Hub Room BS provision	24.44%	34	45	29-Oct-19A	31-Dec-19	248	
VO190 - Irrigatio	on System near Ho Ka Yuen Footbrid	ge			·			
VO190 - Irrigat	tion System near Ho Ka Yuen Foot	bridge						
IS160	Irrigation system installation near Ho Ka Yuen Footbridge	73.91%	6	23	04-Sep-19 A	26-Nov-19	276	
_andscape Soft	work							
Landscape Wo							_	
Z4.LW.1000	Landscape soft work Zone4	73.91%	6	23	04-Sep-19 A	26-Nov-19	276	
Establishment V								
Establishment							-	
Establishment Z3.EW.1000	Establishment work Zone4	13.15%	317	365	02-Oct-19A	01-Oct-20	0	
Establishment Z3.EW.1000 VO Relocation o	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joo	key Club Ro	ad	365	02-Oct-19A	01-Oct-20	0	
Establishment Z3.EW.1000 VO Relocation of VO Relocation	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joo of Traffic Sign at Pak Wo Road &	key Club Ro Jockey Clul	ad <mark>o Road</mark>					
Establishment Z3.EW.1000 VO Relocation of VO Relocation TS01030	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joc of Traffic Sign at Pak Wo Road & TTA submission & approval	key Club Ro Jockey Clul ^{0%}	o <mark>ad</mark> D Road 40	34	02-Sep-19 A	08-Jan-20	125	
Establishment ^{Z3.EW.1000} /O Relocation of VO Relocation	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joo of Traffic Sign at Pak Wo Road &	key Club Ro Jockey Clul	ad <mark>o Road</mark>					
Establishment Z3.EW.1000 /O Relocation of VO Relocation TS01030	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joc of Traffic Sign at Pak Wo Road & TTA submission & approval	key Club Ro Jockey Clul ^{0%}	o <mark>ad</mark> D Road 40	34	02-Sep-19 A	08-Jan-20	125	
Establishment Z3.EW.1000 /O Relocation of VO Relocation TS01030 TS01040	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joo of Traffic Sign at Pak Wo Road & TTA submission & approval TTA	key Club Ro Jockey Clul 0%	ad D Road 40 2	34 2	02-Sep-19 A 09-Jan-20	08-Jan-20 10-Jan-20	125	
Establishment Z3.EW.1000 /O Relocation of VO Relocation TS01030 TS01040 TS01050	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joo of Traffic Sign at Pak Wo Road & TTA submission & approval TTA Sheet piling & excavation	key Club Ro Jockey Clul 0% 0%	ad 2 Road 40 2 18	34 2 18	02-Sep-19 A 09-Jan-20 11-Jan-20	08-Jan-20 10-Jan-20 03-Feb-20	125 125 125	
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Establishment Z3.EW.1000 /O Relocation of VO Relocation TS01030 TS01040 TS01050 TS01060 TS1160 TS1180 TS1190	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joo of Traffic Sign at Pak Wo Road & TTA submission & approval TTA Sheet piling & excavation Footing (FL02, ADS 52) XP application period - Jockey Club Road TTA Sheet piling & excavation	key Club Ro Jockey Clul 0% 0% 0% 62.04% 0%	ad 2 Road 40 2 18 45 41 2 18 18	34 2 18 45 108 2 18	02-Sep-19 A 09-Jan-20 11-Jan-20 04-Feb-20 08-Aug-19 A 31-Dec-19 03-Jan-20	08-Jan-20 10-Jan-20 03-Feb-20 26-Mar-20 30-Dec-19 02-Jan-20 23-Jan-20	125 125 125 125 125 164 132 132	
Establishment Z3.EW.1000 VO Relocation of VO Relocation TS01030 TS01040 TS01050 TS01060 TS1160 TS1180 TS1190 TS1200	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joc of Traffic Sign at Pak Wo Road & TTA submission & approval TTA Sheet piling & excavation Footing (FL02, ADS 52) XP application period - Jockey Club Road TTA Sheet piling & excavation Footing (DS53, FL01)	key Club Ro Jockey Clul 0% 0% 0% 62.04% 0% 0%	ad 2 Road 40 2 18 45 41 2	34 2 18 45 108 2	02-Sep-19 A 09-Jan-20 11-Jan-20 04-Feb-20 08-Aug-19 A 31-Dec-19	08-Jan-20 10-Jan-20 03-Feb-20 26-Mar-20 30-Dec-19 02-Jan-20	125 125 125 125 125 125 164 132	
Establishment Z3.EW.1000 /O Relocation of VO Relocation TS01030 TS01040 TS01050 TS01060 TS1160 TS1180 TS1190 TS1200 Ducting Works i	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joo of Traffic Sign at Pak Wo Road & TTA submission & approval TTA Sheet piling & excavation Footing (FL02, ADS 52) XP application period - Jockey Club Road TTA Sheet piling & excavation Footing (DS53, FL01) Traffic Signalized Junction at Pak	key Club Ro Jockey Clul 0% 0% 0% 62.04% 0% 0%	ad 2 Road 40 2 18 45 41 2 18 18	34 2 18 45 108 2 18	02-Sep-19 A 09-Jan-20 11-Jan-20 04-Feb-20 08-Aug-19 A 31-Dec-19 03-Jan-20	08-Jan-20 10-Jan-20 03-Feb-20 26-Mar-20 30-Dec-19 02-Jan-20 23-Jan-20	125 125 125 125 125 164 132 132	
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Establishment Z3.EW.1000 VO Relocation of VO Relocation TS01030 TS01040 TS01050 TS01060 TS1160 TS1180 TS1180 TS1190 TS1200 Ducting Works i WHS Interchar TSJ01050 Pak Wo Road TSJ01260	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joc of Traffic Sign at Pak Wo Road & TTA submission & approval TTA Sheet piling & excavation Footing (FL02, ADS 52) XP application period - Jockey Club Road TTA Sheet piling & excavation Footing (DS53, FL01) n Traffic Signalized Junction at Pak nge DuctLaying (Road Crossing) - Pak Wo Road and Jockey Club Road Junction Existing MJ modified by HyD structure	Skey Club Ro Jockey Clul 0% <td>ad 5 Road 40 2 18 45 41 2 18 45 41 42 42 40</td> <td>34 2 18 45 108 2 18 45 45 46 61</td> <td>02-Sep-19 A 09-Jan-20 11-Jan-20 04-Feb-20 08-Aug-19 A 31-Dec-19 03-Jan-20 24-Jan-20 17-Sep-19 A</td> <td>08-Jan-20 10-Jan-20 10-Jan-20 26-Mar-20 26-Mar-20 20-Dec-19 02-Jan-20 23-Jan-20 18-Mar-20 10-Jan-20 08-Jan-20 08-Jan-20</td> <td>125 125 125 125 125 164 132 132 132 132 240</td> <td></td>	ad 5 Road 40 2 18 45 41 2 18 45 41 42 42 40	34 2 18 45 108 2 18 45 45 46 61	02-Sep-19 A 09-Jan-20 11-Jan-20 04-Feb-20 08-Aug-19 A 31-Dec-19 03-Jan-20 24-Jan-20 17-Sep-19 A	08-Jan-20 10-Jan-20 10-Jan-20 26-Mar-20 26-Mar-20 20-Dec-19 02-Jan-20 23-Jan-20 18-Mar-20 10-Jan-20 08-Jan-20 08-Jan-20	125 125 125 125 125 164 132 132 132 132 240	
Establishment Z3.EW.1000 VO Relocation of VO Relocation TS01030 TS01040 TS01050 TS01060 TS1160 TS1180 TS1180 TS1190 TS1200 Ducting Works i WHS Interchar TSJ01050 Pak Wo Road TSJ01270	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joc of Traffic Sign at Pak Wo Road & TTA submission & approval TTA Sheet piling & excavation Footing (FL02, ADS 52) XP application period - Jockey Club Road TTA Sheet piling & excavation Footing (DS53, FL01) n Traffic Signalized Junction at Pak nge DuctLaying (Road Crossing) - Pak Wo Road and Jockey Club Road Junction Existing MJ modified by HyD structure Road Construction & reinstatement (new 2nd stage after MJ modification by HyD)	Key Club Ro Jockey Clul 0% 34.43% 0%	ad 2 Road 40 2 18 45 41 2 18 45 41 2 18 45 41 2 18 45 41 2 18 45 41 2 18 45 41 45 41 45 41 45 41 45 41 42 42 42 42 42 42 42 42 42 42	34 2 18 45 108 2 18 45 45	02-Sep-19 A 09-Jan-20 11-Jan-20 04-Feb-20 08-Aug-19 A 31-Dec-19 03-Jan-20 24-Jan-20 17-Sep-19 A	08-Jan-20 10-Jan-20 03-Feb-20 26-Mar-20 30-Dec-19 02-Jan-20 23-Jan-20 18-Mar-20	125 125 125 125 125 164 132 132 132 240	
Establishment Z3.EW.1000 /O Relocation of VO Relocation TS01030 TS01040 TS01050 TS01060 TS1160 TS1180 TS1180 TS1190 TS1200 Ducting Works i WHS Interchar TSJ01050 Pak Wo Road TSJ01270	Establishment work Zone4 of Traffic Sign at Pak Wo Road & Joc of Traffic Sign at Pak Wo Road & TTA submission & approval TTA Sheet piling & excavation Footing (FL02, ADS 52) XP application period - Jockey Club Road TTA Sheet piling & excavation Footing (DS53, FL01) n Traffic Signalized Junction at Pak Oge Duct Laying (Road Crossing) - Pak Wo Road and Jockey Club Road Junction Existing MJ modified by HyD structure Road Construction & reinstatement (new 2nd	Key Club Ro Jockey Clul 0% 34.43% 0%	ad 5 Road 40 2 18 45 41 2 18 45 41 42 42 40	34 2 18 45 108 2 18 45 45 46 61	02-Sep-19 A 09-Jan-20 11-Jan-20 04-Feb-20 08-Aug-19 A 31-Dec-19 03-Jan-20 24-Jan-20 17-Sep-19 A	08-Jan-20 10-Jan-20 10-Jan-20 26-Mar-20 26-Mar-20 20-Dec-19 02-Jan-20 23-Jan-20 18-Mar-20 10-Jan-20 08-Jan-20 08-Jan-20	125 125 125 125 125 164 132 132 132 132 240	

APPENDIX C IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		V
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		V
	All spraying of materials and surfaces shall avoid excessive water usage.		V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V
	Materials shall be dampened, if necessary, before transportation.		V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Noise during construction	Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction works;	During construction phase	V
	Machines and plant that may be in intermittent use shall be shut down between work periods or shall be throttled down to a minimum;		V
	Plant known to emit noise strongly in one direction, shall, where possible, be orientated to direct noise away from nearby NSRs;		V
	Mobile plant shall be sited as far away from NSRs as possible;	_	V
	Material stockpiles and other structures shall be effectively utilised, where practicable, to screen noise from on-site construction activities;		V
	Quieter Plant and Working Methods shall be selected during planning the Construction Programme;		V
	Temporary and movable noise barriers shall be very effective in providing noise screening from a particular plant;		V
	Number of Plant Operating On-site Close to NSRs shall be reduced.		V
	Various heights of temporary noise barriers of as shown in Figures 2d and 2e – Layout of Noise Barriers of the Environmental Permit	Before the construction phase	V#
Noise during operation	Various type of barriers of varying heights as shown in Figures 4d, 4d(i), 4e and 4e(i) Layout of Noise Barriers of the Environmental Permit	Review of required noise barrier layout during the design stage	V*

* Permanent noise barriers have been erected.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Water quality during construction	All wastewater generated on the Site shall be collected, removed from Site via a suitable and properly designed temporary drainage system and disposed of at a location and in a manner that will cause neither pollution nor nuisance.	During construction	V
	The Contractor shall construct, maintain, remove and reinstate, as necessary, temporary drainage works and take all other precautions necessary for the avoidance of damage by flooding and silt washed down from the Works. He shall also provide adequate precautions to ensure that no spoil or debris of any kind is allowed to be pushed, washed down, fall or be deposited on land or on the seabed adjacent to the site.		V
	Around any material storage, batching plants or other facilities where spillage may occur, a bund with a capacity of 110% will be provided.		V
	The Contractor shall not permit any sewage, waste water or other effluent containing sand, cement, silt or any other suspended or dissolved material to flow from the Site onto any adjoining land or allow any solid waste to be deposited anywhere within the Site or onto any adjoining land and shall have all such materials removed from the Site.		@
	The Contractor shall be responsible for temporary drainage, diverting or conducting of open streams or drains intercepted by any works and for reinstating these to their original courses on completion of the Works.		V
	Any proposed temporary diversions to stream courses or nullahs shall be submitted to the Engineer for agreement one month prior to such diversion works being commenced. Diversions shall be constructed to allow the water flow to discharge without overflow, erosion or washout. The area through which the temporary diversion runs is to be reinstated to its original condition when the temporary diversion is no longer required.		V
	The Contractor shall not discharge directly or indirectly (by runoff) or cause or permit to be discharged into any public sewer, storm-water drain, channel, stream- course or sea, any effluent or foul or contaminated water or cooling water without the prior consent of the relevant Authority who may require the Contractor to provide, operate and maintain at the Contractor's own expense, within the premises or otherwise, suitable works for the treatment and disposal of such effluent or foul or contaminated or cooling or hot water.		V

If any office, site canteen or toilet facilities is erected, foul water effluent shall,	V
subject to clause as stated in the last paragraph above, be directed to a foul sewer	
or to a sewage treatment facilities either directly or indirectly by means of pumping.	
The Contractor shall at all times ensure that all existing stream courses and drains	V
within, and adjacent to the Site are kept safe and free from any debris and any	
excavated materials arising from the Works. The Contractor shall ensure that	
chemicals and concrete agitator washings are not deposited in watercourses.	
All Contractor's Equipment shall be designed and maintained to minimise the risk of	V
silt and other contaminants being released into the water column or deposited in	
other than designated locations	

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Waste management during construction	 General Waste Transport of wastes off site as soon as possible. Maintenance of accurate waste records. Minimisation of waste generation for disposal (via reduction/recycling/re-use). No on-site burning will be permitted. Use of re-useable metal hoardings/signboards. 	During construction	V
	 Vegetation from site clearance Segregation of materials to facilitate disposal. Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 		V
	Demolition Wastes - Segregation of materials to facilitate disposal Appropriate stockpile management.		V
	 Excavated Materials Segregation of materials to facilitate disposal / reuse. Appropriate stockpile management. Re-use of excavated material on or off site (where possible). Special handling and disposal procedures in the event that contaminated materials are excavated. 		V
	 Construction Wastes Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). Appropriate stockpile management. Planning to reduce over ordering and waste generation. Recycling and re-use of materials where possible (e.g. metal, wood from formwork) For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. 		V
	 Bentonite Slurries Bentonite slurries should be reused as far as possible. Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 		#

 Chemical Wastes Storage within locked, covered and bunded area. The storage area shall not be located adjacent to sensitive receivers e.g. drains. Minimise waste production and recycle oils/solvents where possible. A spill response procedure shall be in place and absorption material available for minor spillages. Use appropriate and labelled containers. Educate site workers on site cleanliness/waste management procedures. If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. The chemical wastes shall be collected by a licensed chemical waste collector. 	V
 Municipal Wastes Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. Regular, daily collections are required by an approved waste collector. 	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Ecology during construction	 Accurate Delineation of Works Area Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 	During construction	V
	 Vegetation Clearance No fires shall be lit within the works area for the purpose of burning cleared vegetation. The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V
	 Dust generation There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction: Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; All temporary site access roads shall be sprayed with water to suppress dust as necessary; All dusty materials should be sprayed with water immediately prior to any handling; and All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		V
	 Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: Bund and cover stock piles to avoid run-off; Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; All vehicle maintenance to be undertaken within a bunded area; and Maximise vegetation retention on-site to maximise absorption (minimise transport). 		V

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Responsibility
Landscape & Visual during construction	 Preservation of Existing Vegetation Trees identified for retention within the project limit would be protected during the works; The tree transplanting and planting works shall be implemented by approved Landscape Contractors. 	During construction	V
	 Temporary Works Areas Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase. 		V
	 Hoarding A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs. 		V
	 Top Soils The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis. 		#
	 Protection of Important Landscape Features Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected. 		V

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

N/A = not applicable - No such work was undertaken or no such material was used on site;

= to be implemented.

APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

Appendix D - Summary of Action and Limit Levels

Table 1 -	Action	and	l imit	l evels	for	1-hour	TSP
	ACTION	anu		LEVEIS	101	1-nour	101

Location	Action Level	Limit Level	
AM2	317.8 μg/m3	500 μg/m3	

Table 2 – Action and Limit Levels for 24-hour TSP

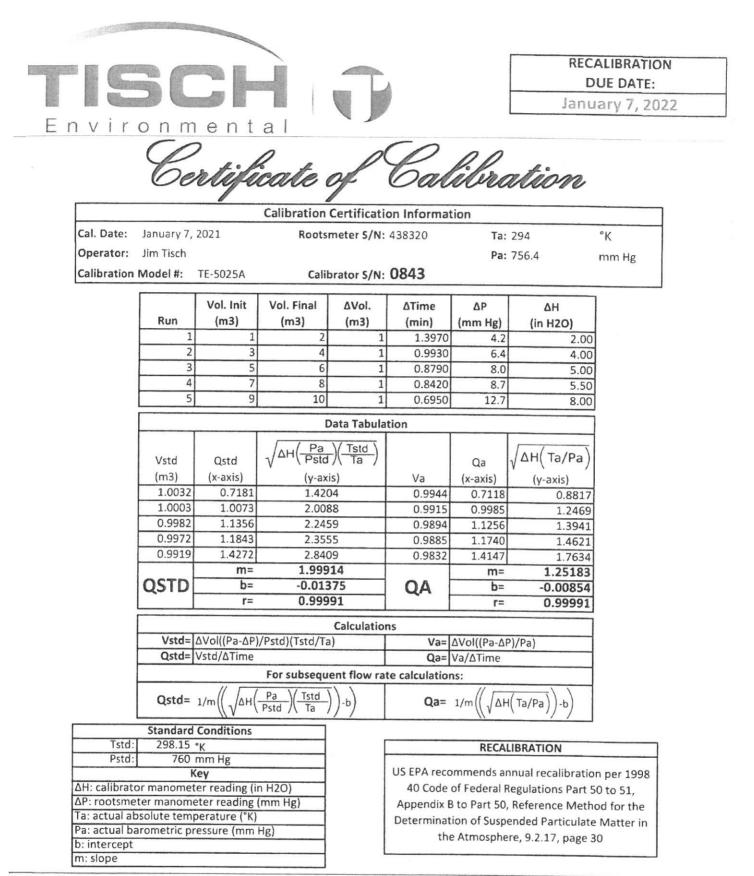
Location	Action Level	Limit Level
AM2	200.7 μg/m3	260 μg/m3

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented	75 dB(A)
	complaint, related to 0700 -	
	1900 hours on normal	
M3*	weekdays, is received	65/70 dB(A)
	from any one of the sensitive	
	receivers	

*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

APPENDIX E CALIBRATION CERTIFICATES OF MONITORING EQUIPMENTS



Tisch Environmental, Inc.

145 South Miami Avenue Village of Cleves, OH 45002 <u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

AECOM

<u>Total Suspended Particulates (TSP) Sampler</u> <u>Field Calibration Report</u>

Station	Fanling Government Secondary School (AM2) Operator:	Choi Wing Ho	
Date:	23-Jun-21	Next Due Date:	23-Aug-21	
Model No:	TE-5170	Verified Against:	O.T.S 843	
Equipment No.:	A-001-74T	Expiration Date:	7-Jan-22	

Ambient Condition								
Temperature, Ta	303.0	Kelvin	Pressure, Pa	754.0	mmHg			

Orifice Transfer Standard Information								
Equipment No .:	843	Slope, mc	1.99914	Intercept, bc	-0.01375			
Last Calibration Date:	7 Jan 2021			(0) (000 /T)) ^{1/2}				
Next Calibration Date:	7 Jan 2022		mc x Qstd + bc = [H x (Pa/760) x (298/Ta)] ^{1/2}					

		Calibration of	FSP Sampler		
Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X - axis	W in. of oil	$\begin{bmatrix} \Delta W \ x \ (Pa/760) \ x \ (298/Ta) \end{bmatrix}^{1/2} \\ Y-axis$
1	6.8	2.58	1.30	5.6	2.34
2	5.5	2.32	1.17	4.4	2.07
3	4.3	2.05	1.03	3.4	1.82
4	3.4	1.82	0.92	2.5	1.56
5	2.5	1.56	0.79	1.8	1.33
By Linear Regr	ession of Y on X				
Slope , mw =			Intercept, bw =		
Correlation C	oefficient* =	0.9992			

Set Point Calculation
From the TSP Field Calibration Curve, take $Qstd = 1.21 \text{ m}^3/\text{min}$ (43 CFM)
From the Regression Equation, the "Y" value according to
m x Qstd + b = $[W x (Pa/760) x (298/Ta)]^{1/2}$
Therefore, Set Point W = $(m x \text{ Qstd} + b)^2 x (760 / Pa) x (Ta / 298) = 4.77$
*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:	-					
QC Reviewer:	iws	CHAN	Signature:	21	Date:	23/06/21

EQUIPMENT CALIBRATION RECORD

Type:			
Manufacturer/Brand:	SIBATA		
Model No.:	LD-3		
Equipment No.:	A.005.07a		
Sensitivity Adjustment Scale Setting:	557CPM		
Operator:	Mike Shek (MSKM)		
Standard Equimment			
Equipment:	High Volume Sampler		
Venue:	Fanling Government Secondary School		
Model No.:	TE-5170		
Serial No.:	3154		
Last Calibration Date:	23-Apr-21		
Calibration Result			
Sensitivity Adjustment Scale Setting (Be	fore Calibration):	557	СРМ
Sensitivity Adjustment Scale Setting (Afr		557	CPM

Hour	Date	Time	Ambient Condition		Concentration ①	Total Count (2)	Count/		
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute ③		
					Y-axis		X-axis		
1	30/04/21	9:30-10:30	28.0	78	0.04950	1950	32.50		
2	30/04/21	10:30-11:30	28.0	78	0.05045	2010	33.50		
3	30/04/21	11:30-12:30	28.0	78	0.05250	2100	35.00		
4	30/04/21	12:30-13:30	28.0	78	0.05520	2240	37.33		
Note:									

1 Monitoring data was measured by High Volume Sampler

(2) Total Count was logged by Laser Dust Monitor

(3) Count/minute was calculated by (Total Count/60)

By Linear Regression of Y on X	
Slope (K-factor):	0.0015
Correlation coefficient:	0.9999
Validity of Calibration Record:	30-Apr-22

Remarks:

QC Reviewer:

Inting

Signature:

Date: 3May-21

EQUIPMENT CALIBRATION RECORD

Type:			Laser Dust Monitor					
Manufact	urer/Brand:		SIBATA				-	
Model No	:		LD-3				-	
Equipmen	t No.:		A.005.09	а			-	
Sensitivity	Adjustment Sca	le Setting:	797 CPM				-) -)	
Operator:			Mike She	k (MSKM)				
Standard I	quimment							
Equipmen	t:		High Volu	ıme Samp	ler			
Venue:			Fanling G	ol				
Model No.	:		TE-5170					
Serial No.:			3154				•	
Last Calibr	ation Date:		23-Apr-22	1			•	
Calibration	Result					110		
		te e e e e e e e e e e e e e e e e e e						
Sensitivity	Adjustment Sca	le Setting (Befor	e Calibrati	ion):		797	CPM	
Sensitivity	Adjustment Sca	le Setting (After	Calibratio	n):		797	СРМ	
Hour	Date	Time	Ambient	Condition	Concentration(1)	Total Count (2)	Count/	
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute ③	
					Y-axis		X-axis	
1	30/04/21	9:30-10:30	28.0	78	0.04950	1980	33.00	
2	30/04/21	10:30-11:30	28.0	78	0.05045	2030	33.83	

12:30-13:30 1 Monitoring data was measured by High Volume Sampler Note:

28.0

28.0

78

78

0.05250

0.05520

2120

2310

35.33

38.50

(2) Total Count was logged by Laser Dust Monitor

11:30-12:30

③ Count/minute was calculated by (Total Count/60)

By Linear Regression of Y on X	
Slope (K-factor):	0.0015
Correlation coefficient:	0.9997
Validity of Calibration Record:	30-Apr-22

Remarks:

3

4

QC Reviewer:

30/04/21

30/04/21



Signature:

Date: 3-May 21



香港新界葵涌永基路22-24號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



CERTIFICATE OF CALIBRATION

20CA0914 02			Page	1	of	2
Sound Level Meter B & K 2238 2800927 -	(Type 1)	, , , ,	Microphone B & K 4188 2250455 -			
AECOM ASIA CO. - - 14-Sep-2020	, LTD.					
19-Sep-2020						
used in the calibr	ation					
Model: B&K 4226	Serial No. 2288444		Expiry Date: 23-Aug-2021			
DS 360	61227		24-Dec-2020		CEPREI	
22 ± 1 °C						
	Sound Level Meter B & K 2238 2800927 - AECOM ASIA CO. - 14-Sep-2020 19-Sep-2020 19-Sep-2020 Used in the calibr Model: B&K 4226	Sound Level Meter (Type 1) B & K 2238 2800927 - AECOM ASIA CO., LTD. - 14-Sep-2020 19-Sep-2020 Used in the calibration Model: Serial No. B&K 4226 2288444	Sound Level Meter (Type 1) , B & K , 2238 , 2800927 , - , AECOM ASIA CO., LTD. , - , 14-Sep-2020 . 19-Sep-2020 . Used in the calibration . Model: Serial No. B&K 4226 .	Sound Level Meter (Type 1) , Microphone B & K , B & K 2238 , 4188 2800927 , 2250455 - , - AECOM ASIA CO., LTD. - - . - 14-Sep-2020 . . Used in the calibration . . Model: Serial No. Expiry Date: B&K 4226 . . .	Sound Level Meter (Type 1) , Microphone B & K , B & K 2238 , 4188 2800927 , 2250455 - , - AECOM ASIA CO., LTD. . - . . 14-Sep-2020 . . Used in the calibration . . Model: Serial No. Expiry Date: B&K 4226 . .	Sound Level Meter (Type 1) , Microphone B & K , B & K 2238 , 4188 2800927 , 2250455 - , - AECOM ASIA CO., LTD. . - . . 14-Sep-2020 . . 19-Sep-2020 . . Ised in the calibration . . Model: Serial No. Expiry Date: . B&K 4226 . . . CIGISME . . .

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: 0 Feng Junqi

20-Sep-2020 Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

Date:

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



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2

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

20CA0914 02

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Page 2 of
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1, Electrical Tests

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	, Factor
Self-generated noise	А	Pass	0.3	
5	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
, , ,	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

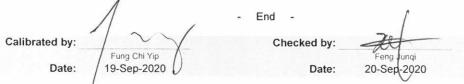
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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CERTIFICATE OF CALIBRATION

20CA0925 02			Page	1	of	2
Sound Level Meter (* B & K 2270 3007965 / N.012.02 -	Гуре 1)	, , ,	Microphone B & K 4189 2846461 -		Pream B & K ZC0032 17965 -	
						e e e e e funt eserca
AECOM ASIA CO. L' - - 25-Sep-2020	TD.					
29-Sep-2020			-			
used in the calibrat	tion					
Model: B&K 4226	Serial No. 2288444		Expiry Date: 23-Aug-2021			
DS 360	61227		24-Dec-2020		CEPREI	
22 ± 1 °C 55 ± 10 %						
	Sound Level Meter (B & K 2270 3007965 / N.012.02 - AECOM ASIA CO. L - - 25-Sep-2020 29-Sep-2020 Ised in the calibrat Model: B&K 4226 DS 360 22 ± 1 °C	Sound Level Meter (Type 1) B & K 2270 3007965 / N.012.02 - AECOM ASIA CO. LTD. - - 25-Sep-2020 29-Sep-2020 Ised in the calibration Model: Serial No. B&K 4226 2288444 DS 360 61227 22 ± 1 °C	Sound Level Meter (Type 1) B & K 2270 3007965 / N.012.02 - AECOM ASIA CO. LTD. - 25-Sep-2020 29-Sep-2020 29-Sep-2020 Ised in the calibration Model: Serial No. B&K 4226 2288444 DS 360 61227 22 ± 1 °C	Sound Level Meter (Type 1) Microphone B & K B & K 2270 4189 3007965 / N.012.02 2846461 - - AECOM ASIA CO. LTD. - - 25-Sep-2020 29-Sep-2020 Ised in the calibration Model: Serial No. B&K 4226 2288444 23-Aug-2021 DS 360 61227 22 ± 1 °C	Sound Level Meter (Type 1) Microphone B & K B & K 2270 4189 3007965 / N.012.02 2846461 - - AECOM ASIA CO. LTD. - - 25-Sep-2020 29-Sep-2020 Ised in the calibration Model: Serial No. B&K 4226 2288444 23-Aug-2021 DS 360 61227 22 ± 1 °C	Sound Level Meter (Type 1) Microphone Pream B & K B & K B & K 2270 , 4189 ZC0032 3007965 / N.012.02 , 2846461 17965 - - - AECOM ASIA CO. LTD. - - - - 25-Sep-2020 - - 29-Sep-2020 - - Ised in the calibration Expiry Date: Traceabl B&K 4226 2288444 23-Aug-2021 CIGISMEC DS 360 61227 24-Dec-2020 CEPREI 22 ± 1 °C - - -

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Fena Junai

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date: 30-Sep-2020

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



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2

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No .:

20CA0925 02

2 of

Page

1, **Electrical Tests**

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Uncertanity (dB) / Coverage Factor
Self-generated noise	A	Pass	0.3
	С	Pass	1.0 2.1
	Lin	Pass	2.0 2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3
	Reference SPL on all other ranges	Pass	0.3
	2 dB below upper limit of each range	Pass	0.3
	2 dB above lower limit of each range	Pass	0.3
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3
Frequency weightings	A	Pass	0.3
	С	Pass	0.3
	Lin	Pass	0.3
Time weightings	Single Burst Fast	Pass	0.3
	Single Burst Slow	Pass	0.3
Peak response	Single 100µs rectangular pulse	Pass	0.3
R.M.S. accuracy	Crest factor of 3	Pass	0.3
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3
	Repeated at frequency of 100 Hz	Pass	0.3
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4
Overload indication	SPL	Pass	0.3
	Leq	Pass	0.4

2, Acoustic tests

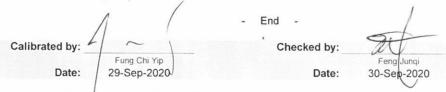
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Uncertanity (dB) / Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3
	Weighting A at 8000 Hz	Pass	0.5

3. Response to associated sound calibrator

N/A

The uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95 %. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



香港新界葵涌永基路22-24號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



CERTIFICATE OF CALIBRATION

Certificate No.:	20CA1019 02-02		Page:	1	of	2
Item tested						
Description:	Acoustical Calibra	tor (Class 1)				
Manufacturer:	B & K	, ,				
Type/Model No.:	4231					
Serial/Equipment No.:	3014024 / N004.04	4				
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CO	LIMITED				
Address of Customer:						
Request No.:	-					
Date of receipt:	19-Oct-2020					
Date of test:	22-Oct-2020					
Reference equipment	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:		Traceab	le to:
Lab standard microphone	B&K 4180	2341427	11-May-2021		SCL	
Preamplifier	B&K 2673	2743150	03-Jun-2021		CEPREI	
Measuring amplifier	B&K 2610	2346941	03-Jun-2021		CEPREI	
Signal generator	DS 360	33873	19-May-2021		CEPREI	
Digital multi-meter	34401A	US36087050	19-May-2021		CEPREI	
Audio analyzer	8903B	GB41300350	18-May-2021		CEPREI	
Universal counter	53132A	MY40003662	18-May-2021		CEPREI	
Ambient conditions						
Temperature:	22 ± 1 °C					
Relative humidity:	55 ± 10 %					
Air pressure:	1005 ± 5 hPa					
Test specifications						

Test specifications

- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.



Feng Jungi

23-Oct-2020 Company Chop:



Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long term stability of the instrument. The results apply to the item as received.

Date:

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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



香港新界葵涌永基路22-24號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

20CA1019 02-02

Page: 2 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency Shown	Output Sound Pressure Level Setting	Measured Output Sound Pressure Level	Estimated Expanded Uncertainty
Hz	dB	dB	dB
1000	94.00	93.98	0.10

2. Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.014 dB
Estimated expanded uncertainty	0.005 dB

3. **Actual Output Frequency**

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

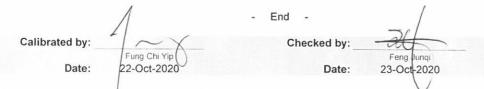
At 1000 Hz	Actual Frequency = 1000.0 Hz		
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2	

4, **Total Noise and Distortion**

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.5 %
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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APPENDIX F EM&A MONITORING SCHEDULES

Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Impact Monitoring and Audit Schedule for July 21

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

Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Tentative Impact Monitoring and Audit Schedule for August 21

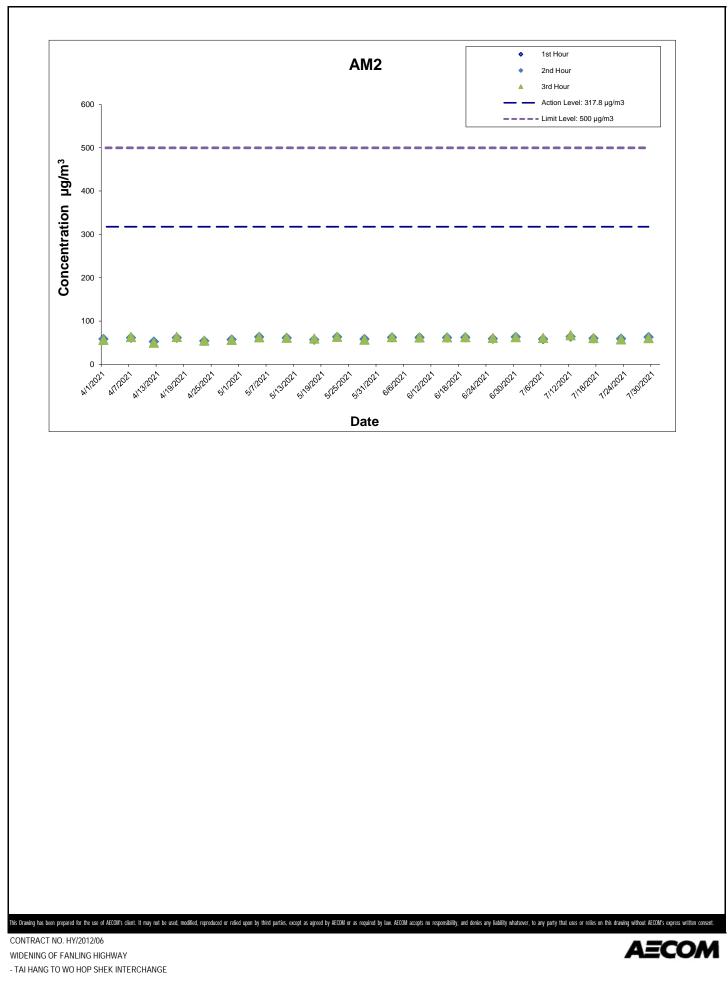
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug
			1-hr TSP			
			24-hr TSP			
			Noise			
	Site Audit					
8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug
		1-hr TSP				
		24-hr TSP				
		Noise				
		Site Audit				
15-Aug	16-Aug	17-Aug	18-Aug	19-Aug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

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

APPENDIX G IMPACT AIR QUALITY MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

1-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
6-Jul-21	10:20	56.0	58.3	61.2
12-Jul-21	13:10	62.2	64.0	67.2
17-Jul-21	10:20	61.1	59.8	60.5
23-Jul-21	10:00	56.8	59.1	57.6
29-Jul-21	10:50	61.7	62.8	60.8
			Average	60.6
			Min	56.0
			Max	67.2



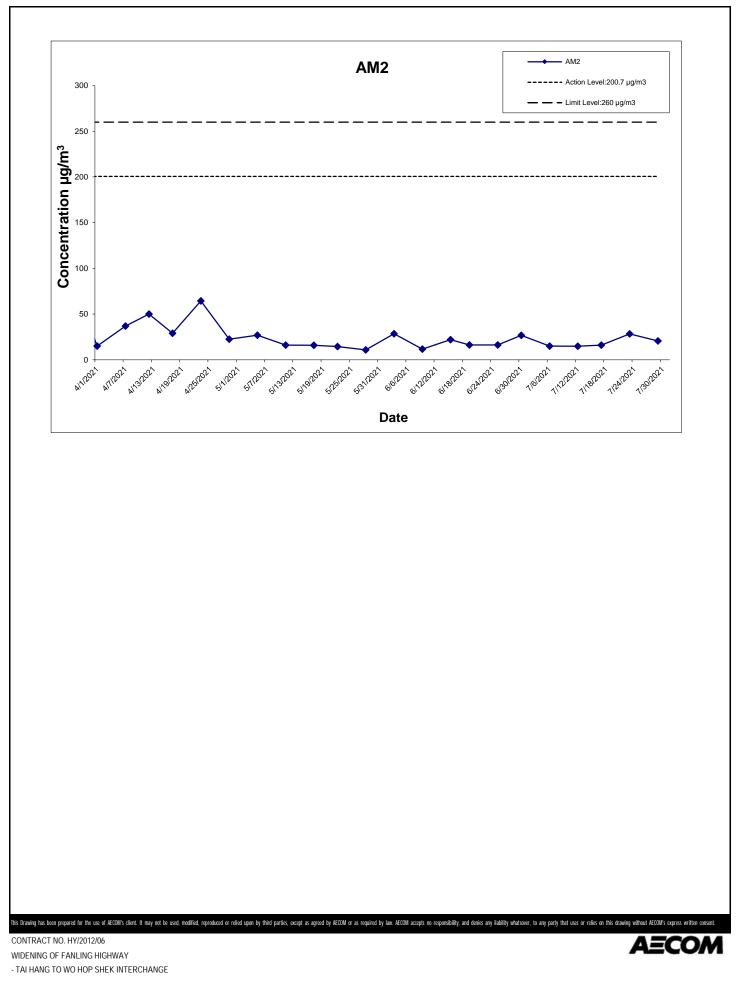
Graphical Presentation of Impact 1-hour TSP Monitoring Results

Appendix G Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather		Atmospheric		e (m³/min.)	Av. flow	Total vol.	Filter V	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Action Level	Limit Level
	Condition	Temp. (°C	Pressure(hPa)	Initial	Final	(m³/min)	(m°)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µg/m ³)	(µg/m ³)
6-Jul-21	Fine	29.4	1006.4	1.314	1.314	1.314	1892.2	2.6625	2.6909	0.0284	16246.07	16270.07	24.00	15.0	200.7	260
12-Jul-21	Sunny	30.9	1010.2	1.314	1.314	1.314	1892.2	2.6707	2.6985	0.0278	16270.07	16294.07	24.00	14.7	200.7	260
17-Jul-21	Fine	28.8	1005.8	1.314	1.314	1.314	1892.2	2.6747	2.7050	0.0303	16294.07	16318.07	24.00	16.0	200.7	260
23-Jul-21	Sunny	30.3	998.3	1.314	1.314	1.314	1892.2	2.6667	2.7202	0.0535	16318.07	16342.07	24.00	28.3	200.7	260
29-Jul-21	Cloudy	29.5	1000.1	1.334	1.334	1.334	1921.0	2.6849	2.7243	0.0394	16342.07	16366.07	24.00	20.5	200.7	260
	-												Average	18.5		

Average	10.0
Min	14.7
Max	28.3
-	



Graphical Presentation of Impact 24-hour TSP Monitoring Results

APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH

			King's Park	Waglan Island^							
Day	Mean Pressure (hPa)	Air Temperat		ure	Mean	Mean	Mean Amount	Total	Total	Prevailing	Mean
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)	Dew Point (deg. C)	Relative Humidity (%)	of Cloud (%)	Rainfall (mm)	Bright Sunshine (hours)	Wind Direction (degrees)	Wind Speed (km/h)
1	1006.3	32.4	30.3	29.2	25.9	78	88	Trace	7.5	***	***
2	1006.7	32.8	30.6	29.3	26.1	77	87	0	8	***	***
3	1006.4	33	30.4	29.1	26.3	79	85	Trace	5.4	***	***
4	1007.2	33.2	30.4	28.9	26.3	79	81	0	7.5	***	***
5	1007.4	33.8	30.2	28	26.2	79	68	2.3	6.5	***	***
6	1006.4	32.7	29.4	26.7	25.6	80	74	18.4	6.1	***	***
7	1009.1	33.1	29.4	26.6	25.8	81	73	11.7	5.8	***	***
8	1011.4	32.8	29.8	28.4	25.7	79	49	1.5	7	***	***
9	1010.3	34.8	30.5	28.2	25.6	76	28	0	9.7	***	***
10	1010.4	34	30.5	28.2	25.8	76	60	0	11.7	***	***
11	1011.1	33.6	30.6	28.8	26	77	84	Trace	9.8	***	***
12	1010.2	34.8	30.9	28.7	25.8	75	73	0.1	10.2	***	***
13	1008.5	35.3	31.1	28.8	25.2	72	55	0	11.7	***	***
14	1008.3	34.1	30.7	29.1	25.7	75	47	1.5	8	***	***
15	1008.9	35.4	31.3	28.9	25.3	71	41	0	12	***	***
16	1008.5	30.9	29.6	28.7	25.3	78	81	Trace	0.5	***	***
17	1005.8	31.2	28.8	26.9	25	80	88	0.2	5.6	***	***
18	1003.3	28.8	26.9	24.9	25.1	90	88	42.4	0.4	***	***
19	1002.3	27.9	26.5	25	25.1	93	93	117.2	0.3	***	***
20	1002.6	27.1	26.2	25.3	25.2	94	95	87.8	0	***	***
21	1003	27.8	26.8	25.3	25.7	94	88	28.4	0.2	***	***
22	1001	32.8	29.3	26.9	25.3	80	66	0	11.7	***	***
23	998.3	34.1	30.3	27.4	25.8	77	40	0	10.7	***	***
24	998	33.2	29.8	26.5	26.4	82	70	26.5	6.3	***	***
25	999.4	33.6	29.6	25.9	25.8	81	55	8.9	9.6	***	***
26	998.1	33.9	30.7	28.7	26.4	78	53	0	9.9	***	***
27	996.8	35.3	31.3	29.5	26.4	75	67	Trace	8.5	***	***
28	997.5	34.1	30.8	29.1	26.8	79	76	Trace	6.4	***	***
29	1000.1	32.3	29.5	28.3	26	82	84	7.8	1.8	***	***
30	1001.4	30.5	28.8	26.5	25.7	83	85	7.9	0.6	***	***
31	1000.3	32.2	29.7	27	26.6	84	88	16.9	4.1	***	***
Mean/Total	1004.7	32.6	29.7	27.7	25.8	80	71	379.5	203.5	***	***

APPENDIX I IMPACT DAYTIME CONSTRUCTION NOISE MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

Appendix I Impact Daytime Construction Noise Monitoring Results

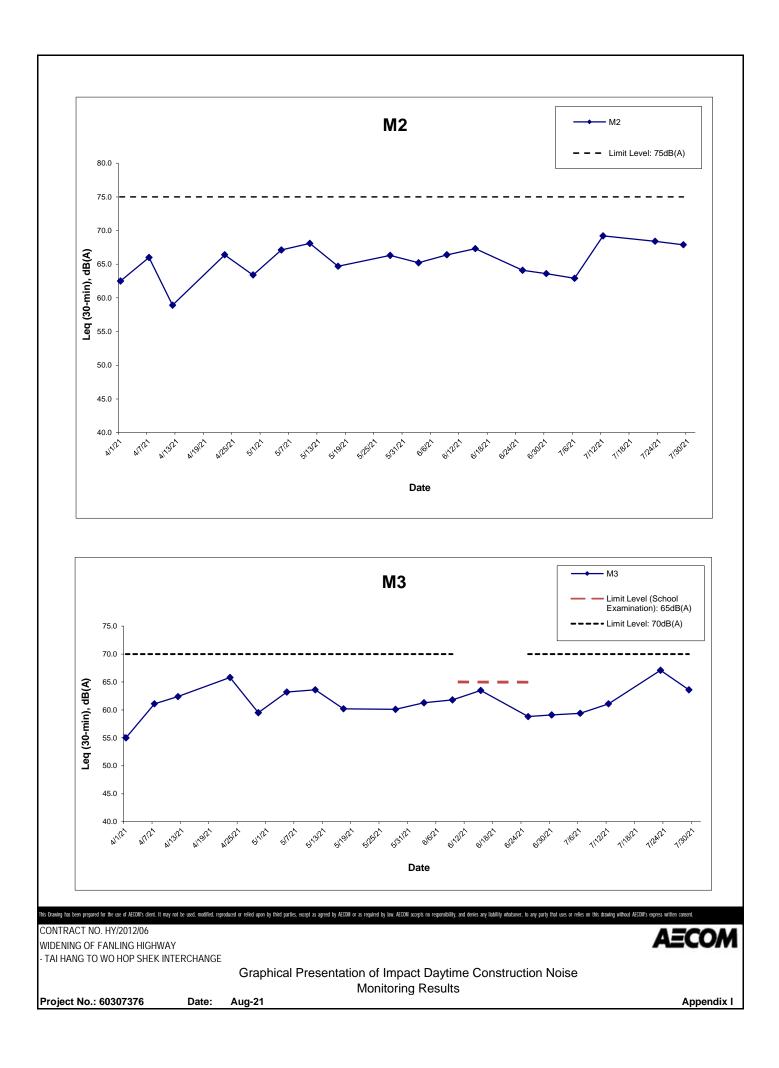
Location : M2 (West Tai Wo - Free Field) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	ured Noise Lev	Limit Level,	Exceedance		
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
6-Jul-21	11:05	62.9	64.1	61.7	75	N
12-Jul-21	14:10	69.2	71.3	67.0	75	N
23-Jul-21	10:45	68.4	70.3	66.8	75	N
29-Jul-21	14:05	67.9	69.5	65.2	75	N
	Min	62.9	64.1	61.7		
	Max	69.2	71.3	67.0		
	Average	67.7	69.5	65.6		

Location : M3 (Fanling Government Secondary School- Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	ured Noise Lev	Limit Level,	Exceedance		
Date	Start Time	Leq*	L10*	L90*	dB(A)^	(Y/N)
6-Jul-21	10:20	59.4	60.8	56.0	70	N
12-Jul-21	13:10	61.1	62.6	59.4	70	N
23-Jul-21	10:00	67.1	69.1	65.8	70	N
29-Jul-21	10:55	63.6	65.0	61.2	70	N
	Min	59.4	60.8	56.0		
	Max	67.1	69.1	65.8		
	Average	63.8	65.5	62.0		

* +3dB(A) Façade effect correction included
 ^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



APPENDIX J EVENT ACTION PLAN

Appendix J – Event Action Plan

Event / Action Plan for Air Quality

Event	Action								
	ET Leader	IEC	ER	Contractor					
Action Level	·	•		·					
Exceedance for one sample	 Identify source; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to dailv. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate. 					
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 					

Event / Action Plan for Air Quality

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

Event / Action Plan for Noise Impact

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

APPENDIX K SITE INSPECTION SUMMARIES



Inspection Information

Contract No.	HY/2012/06
Date:	6 July 2021
Time:	14:00
Inspection No.:	394

Non-compliance

Nil

Observations

	Follow-up Observation(s)
	Nil
	Observation (s)
	No specific observation was identified in this inspection
	Reminder (s)
	Nil
ma	

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	flee	6 July 2021
Checked by	Y W Fung	/	6 July 2021







Inspection Information

Contract No.	HY/2012/06
Date:	13 July 2021
Time:	14:00
Inspection No.:	395

Non-compliance

Nil

Observations

Follow-up Observation(s)	
Nil	
Observation (s)	
No specific observation was identified in this inspection	
Reminder (s)	
Nil	

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	Alee	13 July 2021
Checked by	Y W Fung	/	13 July 2021





Inspection Information

Contract No.	HY/2012/06
Date:	20 July 2021
Time:	14:00
Inspection No.:	396

Non-compliance

Nil

Observations

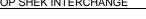
	Follow-up Observation(s)
	Nil
	Observation (s)
1.	Silt spread near to drainage system was observed. The Contractor was advised to remove the silt for preventing it enter the public drainage system.
	Reminder (s)
	Nil

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	flee	20 July 2021
Checked by	Y W Fung	/	20 July 2021







Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06
Date:	27 July 2021
Time:	14:00
Inspection No.:	397

Non-compliance

Nil

Observations

	Follow-up Observation(s)
1.	The silt near to the drainage system was removed. (closed)
	Observation (s)
	No specific observation was identified in this inspection.
	Reminder (s)
	Nil
oma	rko

Remarks

	Name	Signature	Date
Prepared by	Alex Chan	Alee	27 July 2021
Checked by	Y W Fung	/	27 July 2021



APPENDIX L STATISTICS ON COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

Appendix L

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed		
Environmental complaints	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed	0	10
	23 October 2014	EPD referred an air complaint on 24 October 2014. A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.	Closed		

Contract No. HY/2012/06 – Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
		The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up. The location of complaint is near Lamppost Location EB5717.			
	31 December 2014	EPD referred a water complaint on 31 December 2014. The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.	Closed		
	25 March 2015	EPD referred a water complaint on 25 March 2015. The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses. The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.	Closed		

Date Receive	d Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
5 Janua 2017 (Referred the Contrac on 13 Januar 2017)	on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017. The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village.	Closed		
22 Ma 2017 (Referred the Contrac on 23 M 2017)	on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017. A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
25 February 2018 (Referred by the Contractor on 1 March 2018)	The 1823 enquiry and complaint hotline received a complaint on 25 February 2018. The complaint was referred to the Environmental Team by the Contractor on 1 March 2018. A complainant complained that noise nuisance was caused continuously by road construction works at Fanling Highway near Tai Hang Village during 01:30 to 04:00 on 25 February 2018. The complainant concerned that the nuisance affects residence and asked for follow-up action from the related department.	Closed		
28 September 2019 (Referred by the EPD on 28 October 2019)	The EPD received a complaint on 28 October 2019. The complaint was referred to the Environmental Team by the Contractor on 28 October 2019. The complainant was regarded to the use of powered mechanical equipment not in accordance with the conditions stipulated in the Construction Noise Permit (CNP) - GW-RN0602-19 in Pak Wo Road near Fanling Highway on 24 September 2019. The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	28 October 2019 (Referred by the EPD on 14 November 2019)	The Buildings Department received a complaint on 28 October 2019 through email. The complaint was referred to Environmental Team of HY/2012/06 on 14 November 2019. The complainant complained about dust and noise nuisance caused continuously by road construction works at Tai Wo Service Road West.	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

Contract No. 02/HY/2015 – Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	_	-	0	0