## AECOM

## **Environmental Protection Department**

Contract No. HY/2012/06

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

Quarterly EM&A Report for November 2019 to January 2020

[04/2020]

	Name	Signature
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Reviewed & Approved:	Y W Fung	N/
Version:	Rev. 0 Da	te: 09 April 2020
Contract No. HY/2012/06 and may not b Protection Department without our prior v	e disclosed to, quoted to or relied up written consent. No person (other than omes may rely on this report without ou	its sole benefit in relation to and pursuant to on by any person other than Environmental n Environmental Protection Department) into ir express written consent and Environmental above.

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Hyder-Arup-Black & Veatch Joint Venture c/o Arcadis 17/F, Two Harbour Square, 180 Wai Yip Street, Kwun Tong, Hong Kong Attn: Mr. James Penny

Your Reference

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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 Quarterly EM&A Summary Report for November 2019 to January 2020 for the portion of Stage 2 works under Contract No. HY/2012/06

9 April 2020 By Fax (2805 5028) & Hand

We refer to the Quarterly EM&A Summary Report for November 2019 to January 2020 for the captioned Project received on 7 April 2020 submitted by ET via email. We confirm we have no comment.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Steven Tang Independent Environmental Checker

c.c. HyD AECOM

Mr. Ricky Yeung Mr. Y W Fung By Fax (2714 5198) By Fax (3922 9797)

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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 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 three works contracts. Contract No. HY2012/06 "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 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 November 2019 and 31 January 2020. As informed by the Contractor, construction activities of Contract No. HY/12012/06 in the reporting period were as follows:

- Site clearance
- Noise Barrier installation and maintenance
- Excavation
- Backfilling
- Sign gantry installation
- Road resurfacing
- Landscape works

## **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 period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.

### Complaint, Notification of Summons and Successful Prosecution

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

One (1) noise and dust related complaint was received on 14 November 2019 and followed up by the Environmental Team. The complainant complained about dust and noise nuisance caused continuously by road construction works at Tai Wo Service Road West. After investigation, there is no adequate information to conclude that the complaint is related to this project.

## 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 Project Organization and Contacts of Key Management

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

Table 1.1	Contact Information of Key Personnel
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Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06]	Environmental	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	-
<b>ET</b> (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

## 1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

## **1.3 Summary of Construction Works**

- 1.3.1 Details of the construction works of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:
  - Site clearance
  - Noise Barrier installation and maintenance
  - Excavation
  - Backfilling
  - Sign gantry installation
  - Road resurfacing
  - Landscape works
- 1.3.2 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.
- 1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

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## 2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

### 2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

## 2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.3a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations.

### 2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

### 2.4 Environmental Mitigation Measures

2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

## 3 AIR QUALITY MONITORING

- 3.1.1 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.
- 3.1.2 The weather was mostly sunny, occasionally fine and cloudy in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	63.7	55.6 – 72.5	317.8	500

### Table 3.2 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)	34.4	9.8 – 50.2	200.7	260

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

## 4 NOISE MONITORING

- 4.1.1 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.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

 Table 4.1
 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A))	Range (dB(A))	Limit Level (dB(A))
	L <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>
<b>M2</b> * (West Tai Wo)	67.9	65.3 – 70.2	75
M3 <sup>#</sup> (Fanling Government Secondary School)	63.1	59.5 – 67.2	65/70

\*+3dB(A) Façade correction included

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

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.
- 4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

## 5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor of Contract No. HY/2012/06, 1,144 m<sup>3</sup> of inert C&D material was generated in the reporting period. 197 m<sup>3</sup> was broken concrete, 483 m<sup>3</sup> was reused in the Contract, 0 m<sup>3</sup> was reused in other Projects and 464 m<sup>3</sup> was disposed as public fill to Tuen Mun 38. 370 m<sup>3</sup> of general refuse was disposed of at NENT landfill. 26,724 kg of metals, 58 kg of paper and 0 kg of plastics were collected by recycling Contractors, and 0 kg of chemical wastes were collected by licensed Contractors in the reporting period.
- 5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	464 m <sup>3</sup>	Tuen Mun 38
Broken concrete	197 m <sup>3</sup>	Tuen Mun 38
C&D wastes disposed as general refuse	370 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	58 kg	Recycling Facilities
Plastics	0 kg	Recycling Facilities
Metals	26,724 kg	Recycling Facilities
C&D materials reused on site	483 m <sup>3</sup>	Site Area
C&D materials reused in other projects	0 m <sup>3</sup>	Other projects
Chemical wastes	0 kg	Licensed Contractors

 Table 5.1
 Summary of Waste Flow Table for Contract No. HY/2012/06

# 6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

# 7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 No notification of summons and successful prosecution was received in the reporting period.
- 7.1.2 One (1) noise and dust related complaint was received on 14 November 2019 and followed up by the Environmental Team. The complainant complained about dust and noise nuisance caused continuously by road construction works at Tai Wo Service Road West. After investigation, there is no adequate information to conclude that the complaint is related to this project.
- 7.1.3 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.4 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

## 8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

## 8.1 Comments

8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

## Contract No. HY/2012/06

### Air Quality Impact

- The Contractor was advised to cover the stockpile on site with imperious sheeting.
- The Contractor was advised to replace the decolored NRMM label.
- The Contractor was reminded to cover the stockpile at entirely.

## **Construction Noise Impact**

• Nil.

### Water Quality Impact

• Nil.

### Chemical and Waste Management

- The Contractor was advised to remove the construction material and waste, the Contractor was also advised to store the waste and material at proper area.
- The Contractor was advised to remove the general refuse and improve the site tidiness.
- The Contractor was advised to provide drip tray to the chemical on for preventing potential leakage.

## Landscape and Visual Impact

• Nil.

## Miscellaneous

• The Contractor was reminded to improve the site housekeeping.

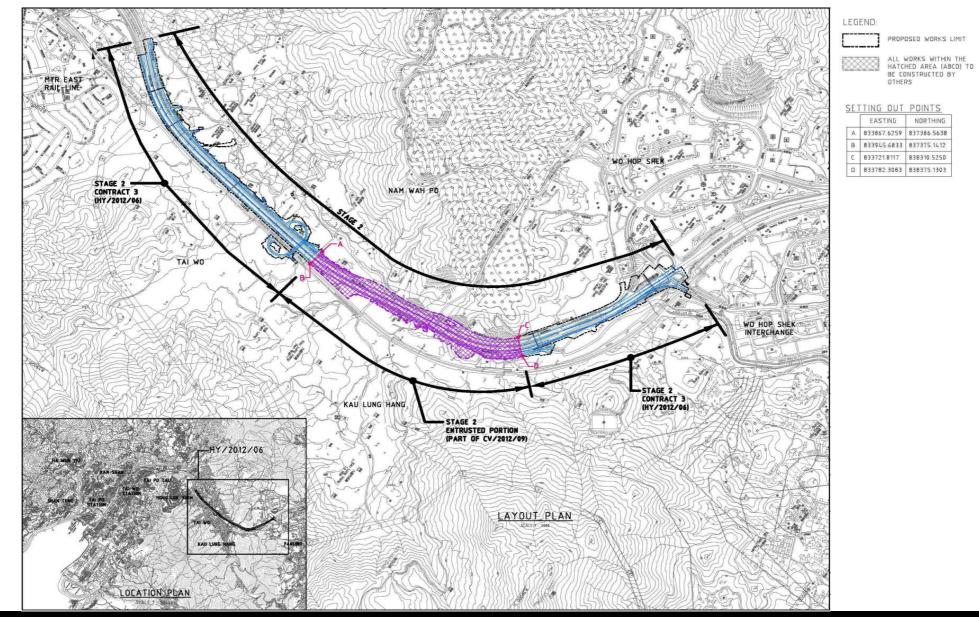
### 8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

### 8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.
- 8.3.3 No notification of summons and successful prosecution was received in the reporting period.
- 8.3.4 One (1) noise and dust related complaint was received on 14 November 2019 and followed up by the Environmental Team. The complainant complained about dust and noise nuisance caused continuously by road construction works at Tai Wo Service Road West. After investigation, there is no adequate information to conclude that the complaint is related to this project.

FIGURES

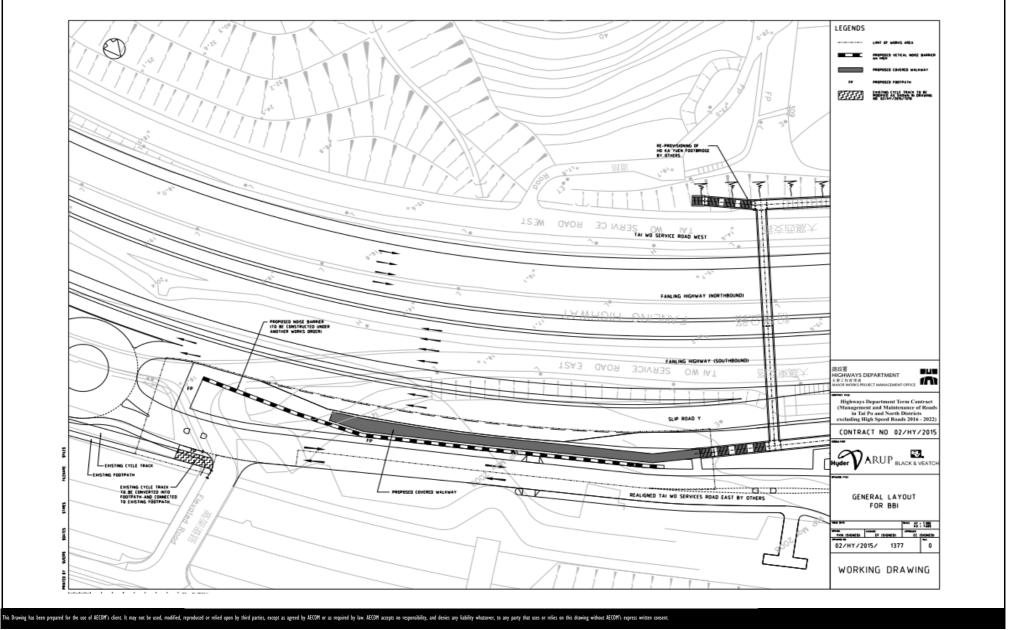


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



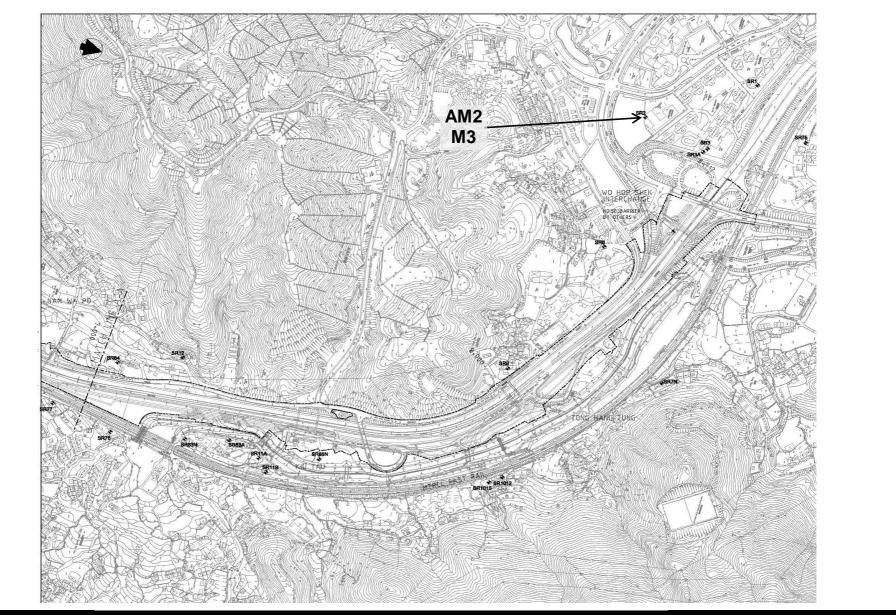
Layout Plan



CONTRACT NO. 02/HY/2015

PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



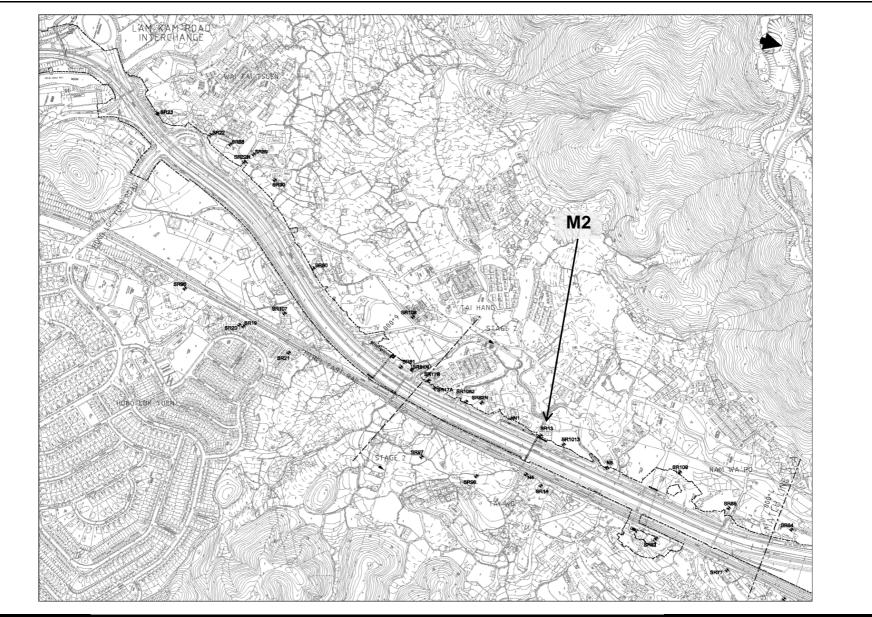


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Locations of Monitoring Station



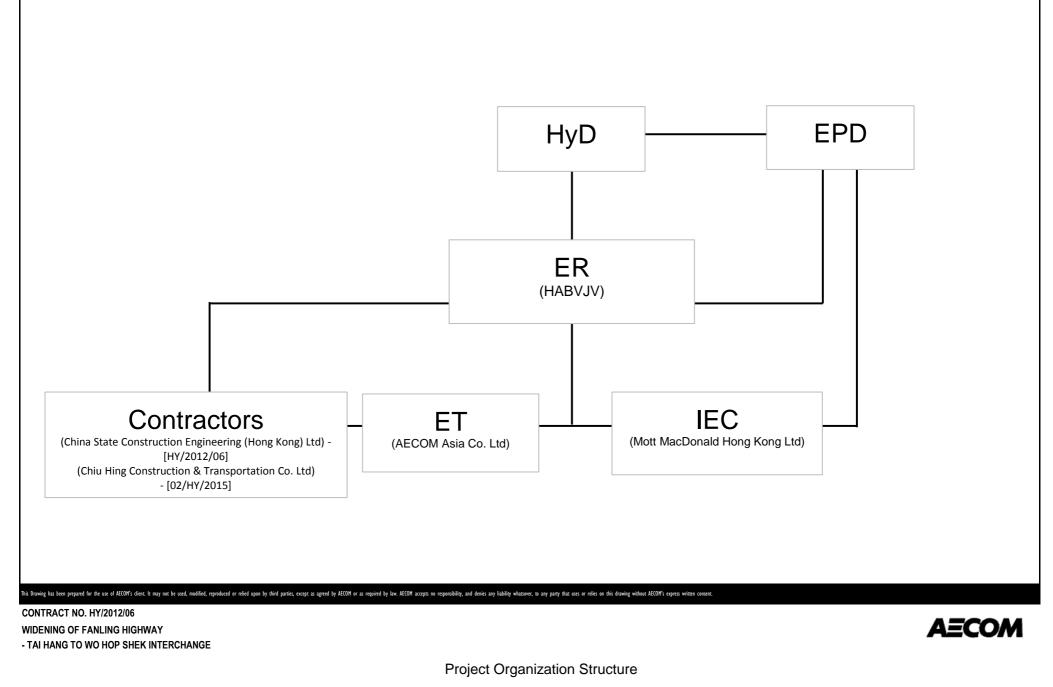
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Locations of Monitoring Station

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. s	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		!						
Establishmen	t Works								
Z1.EW.1000	Establishment work Zone1	44.38%	203	365	11-Jun-19 A	09-Jun-20	0		
ONE 2 (Ch. 9	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	ility 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		<b>_</b>
ridge Const	Towngas in Zone 1 & 2 (if required)								+
<b>ridge Const</b> New Tai Hang F									
General	ootbildgo								⊢
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 D 40	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 ♦ Liftavaila	ible - N
L1490	THFB Completion Date	0%	0	0		31-Dec-19	248	31-Dec-19 🔶 THFB Completion I	Date
New Tai Wo Foo	othridge								-
General									-
TWFB1110	Tai Wo Footbridge Complete	0%	0	0		30-Dec-19	235	30-Dec-19 ♦ Tai Wo Footbridge O	2 omple
Crossing Ean	ling Highway Section								<u> </u>
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	molete
	highway)						200		
Lift at TWSR-1	W Side EMSD inspection & approval	71.43%	8	28	31-Oct-19A	27-Nov-19	322		
									<b>.</b>
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	ge coi
ignalized Ju	nction								
New Tai Hang F	ootbridge								
	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		<b> </b>
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 rectification (Tai hang								<b>_</b>
THBF0690	Junction)	0%	12	12	22-Jan-20	06-Feb-20	213		<b>.</b>
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 Level of									
Remaining Lev     Actual Level of     Actual Work		Videning of Fa		-	-	-		20-101al-18 WP Rev	
Actual Level of Actual Work Remaining Wo	f Effort Layout: 3 Month Rolling Program Page 1 of 3	Videning of Fa		-	· Tai Hang to ing Program	-		27-Nov-18 WP Rev	v 6A
Actual Level of Actual Work	f Effort Layout: 3 Month Rolling Program Page 1 of 3	Videning of Fa		-	-	-		20-101al-18 WP Rev	v 6A v 7

		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											
<b>Civil Provisio</b>	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	34.69%	32	49	04-Sep-19 A	28-Dec-19	250				
		0 1100 / 0		10		20 2 00 10	200				
T	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				
		0%	47	JZ	20 Och-19 M	10-Jail-20	200				
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	<b>U U</b>										
	i Hang (VO126)										
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 Hanç <mark>KLH Bridge -</mark>	g Vehicular Bridge <mark>West Ramp</mark>										
KLH.1290	West Ramp - Planting	0%	34	34	20-Nov-19*	31-Dec-19	248				
		0%	34	34 34	20-Nov-19*	31-Dec-19 31-Dec-19	248 248 248				
KLH Bridge - 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 - 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 Bridge - KLH Bridge - KLH Bridge -	Deck 1 Deck 1 - Planting Deck 3 Deck 3 - Planting East Ramp East Ramp - Planting Staircase S1	0% 0%	34 34 34	34 34 34	20-Nov-19 20-Nov-19 20-Nov-19	31-Dec-19 31-Dec-19 31-Dec-19	248 248 248				
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 34 10 18	34 34 34 41	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 Bridge - KLH Bridge - Z2.KLH.1500 Z2.KLH.1750 Z2.KLH.1760 Z2.KLH.1770 Bridge Road	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				
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 - Lighting & finishes works         Work         Landscape work of KLHVB         Inction         y Vehicular Bridge	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 Signalized Ju KLH Bridge -	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         Vehicular Bridge         West Ramp	0% 0% 0% 75.61% 0% 0% 71.95%	34 34 34 10 18 12 12 46	34 34 34 41 18 12 12 12 164	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-Apr-19A	31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 15-Jan-20	248 248 248 248 242 242 242 242 242 242				
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 Gignalized JL Cau Lung Hang KLH Bridge - Z2.KLH.1032	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         Vehicular Bridge         West Ramp         Installation of Tra fic Signal Poles at TWSR-W N/B (KLHVB)	0% 0% 75.61% 0% 71.95%	34 34 34 34 10 18 12 12 12 46 34	34 34 34 41 18 12 12 12 164 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	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 15-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 Signalized Ju Kau Lung Hang KLH Bridge - Z2.KLH.1032 Z2.KLH.1082	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         Vehicular Bridge         West Ramp         Installation of Trafic Signal Poles at TWSR-W N/B (KLHVB)         Ducting & cable draw rectification (KLHVB)	0% 0% 75.61% 0% 0% 71.95%	34 34 34 34 10 10 18 12 12 12 46 46 34 34 22	34 34 34 41 18 12 12 12 164 21 21 12	20-Nov-19 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-19A	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 08-Jan-20 08-Jan-20 31-Dec-19 31-Dec-19	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 Gignalized JL Cau Lung Hang KLH Bridge - Z2.KLH.1032	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         Vehicular Bridge         West Ramp         Installation of Tra fic Signal Poles at TWSR-W N/B (KLHVB)	0% 0% 75.61% 0% 71.95%	34 34 34 34 10 18 12 12 12 46 34	34 34 34 41 18 12 12 12 164 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	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 15-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 Signalized Ju Kau Lung Hang KLH Bridge - Z2.KLH.1032 Z2.KLH.1082	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         Vehicular Bridge         West Ramp         Installation of Trafic Signal Poles at TWSR-W N/B (KLHVB)         Ducting & cable draw rectification (KLHVB)	0% 0% 75.61% 0% 0% 71.95%	34 34 34 34 10 10 18 12 12 12 46 46 34 34 22	34 34 34 41 18 12 12 12 164 21 21 12	20-Nov-19 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-19A	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 08-Jan-20 08-Jan-20 31-Dec-19 31-Dec-19	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.1500           Z2.KLH.1750           Z2.KLH.1760           Z2.KLH.1770           Bridge Road           Z2.KLH.2040           ignalized Ju           Ku Lung Hang           KLH Bridge -           Z2.KLH.1032           Z2.KLH.1032	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         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)	0% 0% 0% 75.61% 0% 0% 71.95%	34 34 34 34 10 18 12 12 12 46 34 34 22 6	34 34 34 41 18 12 12 164 21 21 12 6	20-Nov-19 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	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 08-Jan-20 31-Dec-19 31-Dec-19 31-Dec-19 31-Dec-19 08-Jan-20	248 248 248 248 242 242 242 242 242 242			28-Jan-20 ◆	
KLH Bridge -         KLH.3430         KLH Bridge -         KLH.3590         KLH Bridge -         KLH.3590         KLH Bridge -         Z2.KLH.1500         Z2.KLH.1750         Z2.KLH.1760         Z2.KLH.1770         Bridge Road         Z2.KLH.1700         KLH Bridge -         Z2.KLH.1700         Z2.KLH.1700         Z2.KLH.1020         Z2.KLH.1082         Z2.KLH.1082         Z2.KLH.1092         Z2.KLH.1102         Z2.KLH.1112	Deck 1         Deck 3         Deck 3 - Planting         East Ramp         East Ramp - Planting         Staircase S1         S1 - Roof steel frame installation         S1 - Corrugated steel roof         S1 - Corrugated steel roof         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)         EMSD cable & equipment installation (KLHVB)         Trafic Signal hstallation complete (KLHVB)	0% 0% 0% 75.61% 0% 71.95% 71.95%	34 34 34 10 10 18 12 12 12 46 46 34 22 6 21 0	34 34 34 41 18 12 12 12 164 21 21 6 21 0	20-Nov-19 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	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 08-Jan-20 31-Dec-19 15-Jan-20 31-Dec-19 14-Dec-19 08-Jan-20 28-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.1500           Z2.KLH.1750           Z2.KLH.1760           Z2.KLH.1770           Bridge Road           Z2.KLH.2040           ignalized Ju           KLH Bridge -           Z2.KLH.1032           Z2.KLH.1032           Z2.KLH.1032           Z2.KLH.1032           Z2.KLH.1102           Z2.KLH.1112	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         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)         EMSD cable & equipment installation (KLHVB)         Trafic Signal hstalation complete (KLHVB)	0% 0% 0% 75.61% 0% 71.95% 71.95%	34 34 34 10 10 18 12 12 12 46 46 34 22 6 21 0	34 34 34 41 18 12 12 12 164 21 21 6 21 0	20-Nov-19 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	31-Dec-19 31-Dec-19 31-Dec-19 30-Nov-19 21-Dec-19 08-Jan-20 08-Jan-20 08-Jan-20 31-Dec-19 15-Jan-20 31-Dec-19 14-Dec-19 08-Jan-20 28-Jan-20	248 248 248 248 248 242 242 242 242 242				
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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	Impleme	nentation Status		
			Nov 19	Dec 19	Jan 20	
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	V	V	
	All stockpiles of excavated materials or spoil of more than 50m <sup>3</sup> shall be enclosed, covered or dampened during dry or windy conditions.		@	@	@	
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		V	V	V	
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	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	V	V	
	Materials shall be dampened, if necessary, before transportation.		V	V	V	
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V	
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V	V	V	

## Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Impleme	tatus	
-	-	_	Nov 19	Dec 19	
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V*	V*	V*
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V*	V*	V*
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V*	V*	V*
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V*	V*	V*
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V*	V*	V*
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).	-	V*	V*	V*
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V*	V*	V*
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		V*	V*	V*
Noise during operation	Noise Barrier built based on Figure <b>4a</b> – Layout of Noise Barrier of Environmental Permit.	Review of required noise barrier layout	V*	V*	V*
	Noise Barrier built based on Figure <b>4b</b> – Layout of Noise Barrier of Environmental Permit.	during the design stage	V*	V*	V*
	Noise Barrier built based on Figure <b>4c</b> – Layout of Noise Barrier of Environmental Permit.	1	V*	V*	V*
	Noise Barrier built based on Figure <b>4d</b> – Layout of Noise Barrier of Environmental Permit.	1	@	V*	V*

Noise Barrier built based on Figure <b>4d (i)</b> – Layout of Noise Barrier of Environmental Permit.	@	V*	V*
Noise Barrier built based on Figure <b>4e</b> – Layout of Noise Barrier of Environmental Permit.	V*	V*	V*
Noise Barrier built based on Figure <b>4e (i)</b> – Layout of Noise Barrier of Environmental Permit.	V*	V*	V*

\* Permanent noise barriers have been erected.

## Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Impleme	ntation Status	
			Nov 19	Dec 19	Jan 20
Water quality during construction	<ul> <li>Demolition and reconstruction of bridges</li> <li>Prevent off-site migration through use of sheet piles.</li> <li>Minimise duration of works as far as practical.</li> <li>All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains.</li> <li>Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains.</li> </ul>	During construction	V	V	V
	<ul> <li>Road Widening Works, Earthworks and Culvert Extension Works</li> <li>Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required.</li> <li>Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.</li> <li>Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls.</li> <li>Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system.</li> <li>Open stockpiles should be covered with a tarpaulin cover.</li> <li>During the wet season, any exposed top soils should be settled out before discharging into storm drains.</li> <li>Fuels should be stored in bunded areas such that spillage can be easily collected.</li> </ul>		V	V	V

## Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 19	Dec 19	Jan 20
Waste management during construction	<ul> <li>General Waste</li> <li>Transport of wastes off site as soon as possible.</li> <li>Maintenance of accurate waste records.</li> <li>Minimisation of waste generation for disposal (via reduction/recycling/re-use).</li> <li>No on-site burning will be permitted.</li> <li>Use of re-useable metal hoardings/signboards.</li> </ul>	During construction	V	@	V
	<ul> <li>Vegetation from site clearance</li> <li>Segregation of materials to facilitate disposal.</li> <li>Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.</li> </ul>		V	V	V
	Demolition Wastes - Segregation of materials to facilitate disposal Appropriate stockpile management.		V	V	V
	<ul> <li>Excavated Materials</li> <li>Segregation of materials to facilitate disposal / reuse.</li> <li>Appropriate stockpile management.</li> <li>Re-use of excavated material on or off site (where possible).</li> <li>Special handling and disposal procedures in the event that contaminated materials are excavated.</li> </ul>		V	V	V
	<ul> <li>Construction Wastes</li> <li>Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).</li> <li>Appropriate stockpile management.</li> <li>Planning to reduce over ordering and waste generation.</li> <li>Recycling and re-use of materials where possible (e.g. metal, wood from formwork)</li> <li>For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.</li> </ul>		V	V	V
	<ul> <li>Bentonite Slurries</li> <li>Bentonite slurries should be reused as far as possible.</li> <li>Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.</li> </ul>		#	#	#

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

## Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 19	Dec 19	Jan 20
Ecology during construction	<ul> <li>Accurate Delineation of Works Area</li> <li>Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.</li> <li>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.</li> </ul>	During construction	V	V	V
	<ul> <li>Vegetation Clearance</li> <li>No fires shall be lit within the works area for the purpose of burning cleared vegetation.</li> <li>The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land.</li> </ul>		V	V	V
	<ul> <li>Dust generation <ul> <li>There are a number of measures which shall be taken as specified in the Air</li> <li>Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction: <ul> <li>Vehicle washing facilities to be provided at every discernible or designated vehicle exit point;</li> <li>All temporary site access roads shall be sprayed with water to suppress dust as necessary;</li> <li>All dusty materials should be sprayed with water immediately prior to any handling; and</li> <li>All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.</li> </ul> </li> </ul></li></ul>		V	V	V
	<ul> <li>Surface Run-off</li> <li>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: <ul> <li>Bund and cover stock piles to avoid run-off;</li> <li>Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;</li> <li>All vehicle maintenance to be undertaken within a bunded area; and</li> <li>Maximise vegetation retention on-site to maximise absorption (minimise transport).</li> </ul> </li> </ul>		V	V	V

Landscape and	Visual Impact – S	Schedule of	Recommended	Mitigation Measures

Impact	Mitigation Measures	Timing	Impleme	ntation S	status
-			Nov 19	Dec 19	Jan 20
Landscape & Visual during construction	<ul> <li>Preservation of Existing Vegetation</li> <li>Trees identified for retention within the project limit would be protected during the works;</li> <li>The tree transplanting and planting works shall be implemented by approved Landscape Contractors.</li> </ul>	During construction	V	V	V
	<ul> <li>Temporary Works Areas</li> <li>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.</li> </ul>		V	V	V
	<ul> <li>Hoarding</li> <li>A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.</li> </ul>		V	V	V
	<ul> <li>Top Soils</li> <li>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.</li> </ul>		#	#	#
	<ul> <li>Protection of Important Landscape Features</li> <li>Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.</li> </ul>		#	#	#

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 – Act	ion and I	imit Levels	for 1-hc	
	ion anu i			

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				

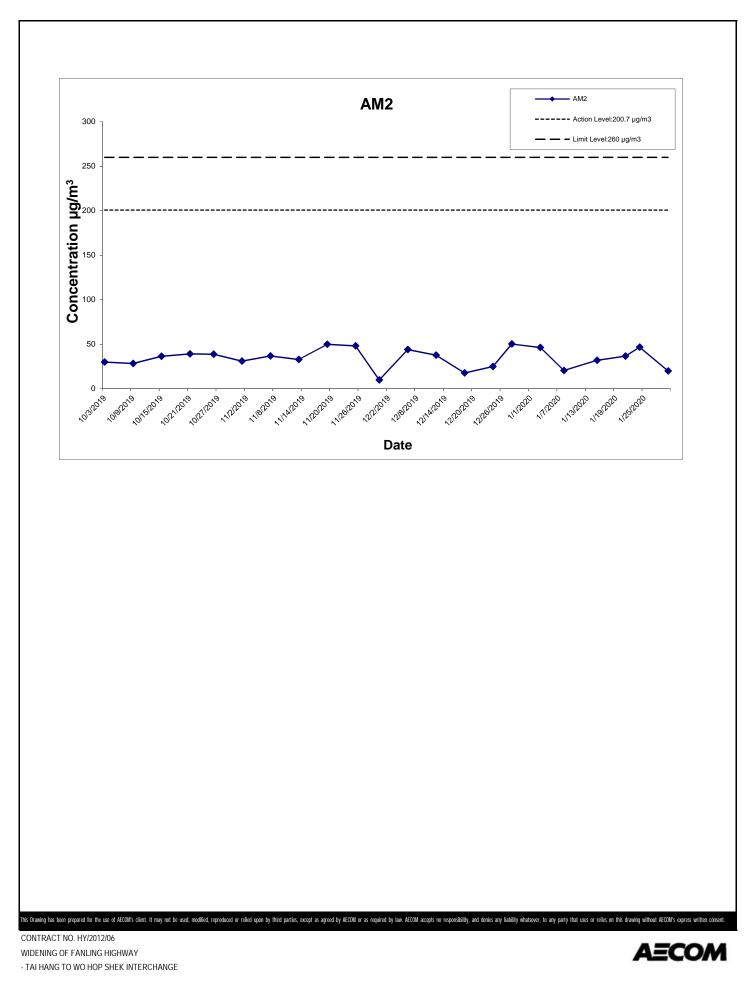
\*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

APPENDIX E IMPACT AIR QUALITY MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

## Impact Air Quality Monitoring Results

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

Date	Weather	Air	Atmospheric	Flow Rate	(m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter V	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Actino Level	Limit Level
	Condition	⊺emp. (°C	C)Pressure(hPa)	Initial	Final	(m³/min)	(m°)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
3-Oct-19	Sunny	29.0	1012.1	1.324	1.324	1.324	1906.6	2.6815	2.7385	0.0570	12486.02	12510.02	24.00	29.9	200.7	260
9-Oct-19	Sunny	27.8	1014.7	1.324	1.324	1.324	1906.6	2.6704	2.7244	0.0540	12510.02	12534.02	24.00	28.3	200.7	260
15-Oct-19	Sunny	26.0	1019.0	1.324	1.324	1.324	1906.6	2.6743	2.7437	0.0694	12534.02	12558.02	24.00	36.4	200.7	260
21-Oct-19	Sunny	25.3	1014.0	1.324	1.324	1.324	1906.6	2.6304	2.7051	0.0747	12558.02	12582.02	24.00	39.2	200.7	260
26-Oct-19	Cloudy	25.9	1017.0	1.324	1.324	1.324	1906.6	2.6277	2.7015	0.0738	12582.02	12606.02	24.00	38.7	200.7	260
1-Nov-19	Sunny	25.7	1015.7	1.314	1.314	1.314	1892.2	2.6580	2.7168	0.0588	12606.02	12630.02	24.00	31.1	200.7	260
7-Nov-19	Sunny	23.8	1013.7	1.314	1.314	1.314	1892.2	2.6445	2.7139	0.0694	12630.02	12654.02	24.00	36.7	200.7	260
13-Nov-19	Sunny	24.1	1018.3	1.314	1.314	1.314	1892.2	2.6317	2.6939	0.0622	12654.02	12678.02	24.00	32.9	200.7	260
19-Nov-19	Sunny	24.3	1015.7	1.314	1.314	1.314	1892.2	2.6401	2.7348	0.0947	12678.02	12702.02	24.00	50.0	200.7	260
25-Nov-19	Sunny	23.8	1019.6	1.314	1.314	1.314	1892.2	2.6327	2.7239	0.0912	12607.02	12631.02	24.00	48.2	200.7	260
30-Nov-19	Sunny	20.4	1020.4	1.314	1.314	1.314	1892.2	2.6476	2.6662	0.0186	12702.02	12726.02	24.00	9.8	200.7	260
6-Dec-19	Sunny	16.5	1024.7	1.331	1.331	1.331	1916.6	2.6357	2.7198	0.0841	12750.02	12774.02	24.00	43.9	200.7	260
12-Dec-19	Sunny	17.4	1020.9	1.331	1.331	1.331	1916.6	2.6228	2.6948	0.0720	12774.02	12798.02	24.00	37.6	200.7	260
18-Dec-19	Fine	22.2	1018.1	1.331	1.331	1.331	1916.6	2.6977	2.7317	0.0340	12798.02	12822.02	24.00	17.7	200.7	260
24-Dec-19	Sunny	20.4	1017.9	1.331	1.331	1.331	1916.6	2.6742	2.7220	0.0478	12822.02	12846.02	24.00	24.9	200.7	260
28-Dec-19	Sunny	18.5	1020.2	1.331	1.331	1.331	1916.6	2.6784	2.7746	0.0962	12846.02	12870.02	24.00	50.2	200.7	260
3-Jan-20	Sunny	18.9	1023.0	1.331	1.331	1.331	1916.6	2.6136	2.7023	0.0887	12870.02	12894.02	24.00	46.3	200.7	260
8-Jan-20	Sunny	21.9	1018.5	1.331	1.331	1.331	1916.6	2.6919	2.7312	0.0393	12894.02	12918.02	24.00	20.5	200.7	260
15-Jan-20	Sunny	19.5	1018.3	1.331	1.331	1.331	1916.6	2.6944	2.7555	0.0611	12918.02	12942.02	24.00	31.9	200.7	260
21-Jan-20	Fine	18.8	1022.4	1.331	1.331	1.331	1916.6	2.6909	2.7610	0.0701	12942.02	12966.02	24.00	36.6	200.7	260
24-Jan-20	Sunny	21.5	1018.1	1.331	1.331	1.331	1916.6	2.6738	2.7631	0.0893	12966.02	12990.02	24.00	46.6	200.7	260
30-Jan-20	Sunny	14.4	1021.5	1.331	1.331	1.331	1916.6	2.6871	2.7251	0.0380	12990.02	13014.02	24.00	19.8	200.7	260
									Average for the reporting quarter (Nov 19 to Jan 20)					34.4		
									Minimum for the reporting quarter (Nov 19 to Jan 20)				9.8	1		
									Maximum for the reporting quarter (Nov 19 to Jan 20)					50.2	]	

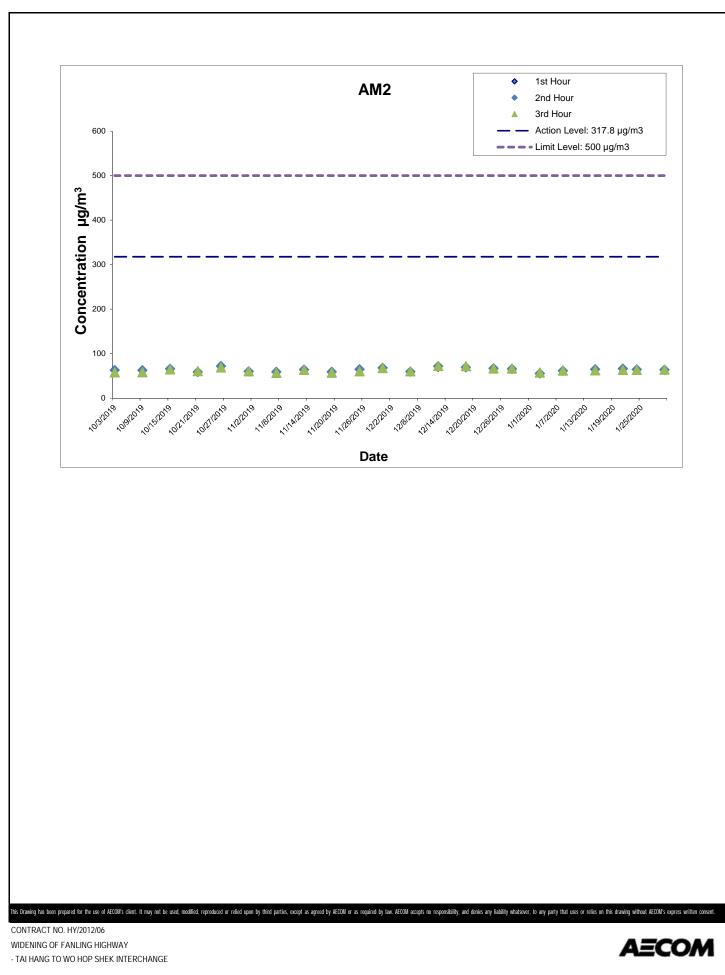


Graphical Presentation of Impact 24-hour TSP Monitoring Results

#### Impact Air Quality Monitoring Results

## 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)
3-Oct-19	9:30	62.1	63.1	58.1
9-Oct-19	13:00	61.1	62.8	58.5
15-Oct-19	13:45	62.0	66.0	65.0
21-Oct-19	10:15	60.3	58.7	61.1
26-Oct-19	10:20	70.7	72.2	69.3
1-Nov-19	14:10	60.8	60.3	60.7
7-Nov-19	11:00	58.5	59.2	57.1
13-Nov-19	11:00	64.8	64.4	63.8
19-Nov-19	10:00	58.5	59.1	57.3
25-Nov-19	10:00	62.9	65.0	60.7
30-Nov-19	10:15	65.9	68.3	67.7
6-Dec-19	11:00	58.6	59.5	60.7
12-Dec-19	13:05	67.9	71.8	72.5
18-Dec-19	13:30	71.9	69.4	72.0
24-Dec-19	11:30	68.4	67.2	66.9
28-Dec-19	10:10	68.2	65.7	66.9
3-Jan-20	14:15	56.7	55.6	57.8
8-Jan-20	14:14	60.7	61.6	62.2
15-Jan-20	14:05	66.7	65.1	62.7
21-Jan-20	14:50	65.5	66.3	63.9
24-Jan-20	14:00	64.1	64.5	63.9
30-Jan-20	14:00	61.6	63.7	64.2
Average for th	e reporting o	quarter (Nov 1	9 to Jan 20)	63.7
Minimum for t	he reporting	quarter (Nov 1	19 to Jan 20)	55.6
		quarter (Nov		72.5



Graphical Presentation of Impact 1-hour TSP Monitoring Results

APPENDIX F METEOROLOGICAL DATA FOR THE REPORTING PERIOD

### 香港天文台 HONG KONG OBSERVATORY

分 > Climate > Climate Information Service > Daily Extract

#### **Daily Extract**

			ŀ	long Kong C	bservate	ory			King's Park	Waglan Is	and^
Day	Mean Pressure (hPa)	Air Absolute Daily Max (deg. C)	Tempera Mean (deg. C)	ture Absolute Daily Min (deg. C)	Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mea Win Spee (km/
01	1015.7	29.3	25.7	24.0	20.4	73	49	0.0	9.7	070	37.
02	1014.6	28.2	25.3	23.9	20.3	74	31	0.0	9.6	070	28.
03	1013.9	28.8	25.7	23.8	20.7	74	48	0.0	9.3	070	20.
04	1014.5	28.6	25.0	22.8	15.5	56	28	0.0	9.5	360	26.
05	1013.4	27.4	23.9	21.6	14.5	56	11	0.0	10.2	070	25.
06	1012.0	26.5	23.8	22.3	17.7	69	47	0.0	9.0	070	28.
07	1013.7	26.9	23.8	21.4	14.3	56	32	0.0	10.1	360	23.
08	1017.0	26.8	23.3	20.8	12.5	51	21	0.0	10.2	360	29.
09	1017.6	26.0	22.7	20.4	15.0	62	33	0.0	10.1	070	29.
10	1016.1	26.7	22.7	20.6	16.7	70	16	0.0	10.1	060	21.
11	1014.7	26.8	23.1	20.9	17.7	72	32	0.0	10.2	080	20.
12	1016.4	25.2	23.3	22.3	19.2	78	70	0.0	4.6	070	30.
13	1018.3	26.8	24.1	22.3	19.4	75	39	0.0	9.0	070	20.
14	1018.9	25.9	23.0	21.1	15.7	64	42	0.0	8.6	360	29.
15	1016.9	25.7	22.8	21.5	16.9	70	29	0.0	9.8	080	25.
16	1015.7	25.6	22.5	21.5	18.0	76	33	0.0	6.8	070	22
17	1015.0	26.5	23.4	21.4	19.5	79	18	0.0	9.8	060	17.
18	1015.7	28.4	24.3	20.6	18.1	69	18	0.0	9.9	360	14.
19	1018.4	22.7	20.5	17.9	13.3	63	49	0.0	4.3	360	25.
20	1019.5	24.0	21.1	19.4	14.6	66	56	0.0	6.3	070	26.
21	1018.9	25.2	21.7	19.2	15.0	66	16	Trace	10.0	070	19.
22	1017.1	26.3	22.3	19.6	15.3	66	14	0.0	10.0	090	11.
23	1016.9	26.9	23.3	21.4	19.2	78	44	0.0	8.7	060	17.
24	1017.5	27.4	23.4	21.1	19.1	77	24	0.0	9.9	060	17.
25	1019.6	26.6	23.8	22.4	18.7	73	58	0.0	8,2	080	40.
26	1020.7	23.4	22.0	21.0	17.5	76	88	Trace	0.9	080	41.
27	1020.0	24.8	22.3	21.1	18.2	78	53	0.0	9.0	070	33.
28	1021.9	23.1	20.3	18.0	12.5	61	41	0.0	9.8	360	32.
29	1022.3	22.6	19.7	17.0	13.0	65	48	0.0	9.6	010	32.
30	1020.4	23.8	<b>20.</b> 4	17.9	14.9	71	34	0.0	9.8	070	25.
Mean/Tota	1017.1	26.1	23.0	21.0	16.8	69	37	Trace	263.0	070	25.

<sup>^</sup> Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since January 1989
 Trace means rainfall less than 0.05 mm
 ? 1981-2010 Climatological Normal, unless otherwise specified



### 香港天文台 HONG KONG OBSERVATORY

分 > Climate > Climate Information Service > Daily Extract

#### **Daily Extract**

			ŀ	long Kong C	bservato	ory			King's Park	Waglan Is	land^
Day	Mean Pressure (hPa)	Air Absolute Daily Max (deg. C)	Tempera Mean (deg. C)	ture Absolute Daily Min (deg. C)	Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mea Win Spee (km/
01	1018.3	25.5	21.5	18.8	15.5	69	8	0.0	9.6	360	14.
02	1021.6	20.3	17.4	15.1	8.0	54	18	0.0	9.3	360	43.
03	1023.1	20.1	16.4	13.8	4.7	46	32	0.0	9.7	360	31.
04	1022.9	20.1	17.5	13.9	3.6	40	55	0.0	9.5	360	31.
05	1024.8	18.3	15.3	13.1	5.7	54	88	1.4	0.0	050	45.
06	1024.7	19.5	16.5	12.7	2.3	39	47	0.3	7.2	360	49.
07	1024.8	19.1	16.2	13.2	2.2	39	1	0.0	9.6	360	37.
08	1024.8	19.5	15.9	13.0	4.5	47	16	0.0	9.6	090	23.
09	1021.8	21.7	17.4	14.7	9.7	62	56	0.0	8.6	070	23.
10	1018.6	21.9	18.4	15.7	12.5	69	39	0.0	8.8	050	16.
11	1018.4	24.0	19.1	16.5	11.7	64	2	0.0	9,6	080	11.
12	1020.9	21.4	19.1	17.4	12.6	67	43	0.0	7.1	070	36.
13	1022.4	22.0	19.2	18.0	14.6	75	43	0.0	7.3	070	32.
14	1021.7	23.3	19.5	17.6	14.8	75	17	0.0	9.6	060	25.
15	1020.0	20.5	19.5	18.5	16.1	81	85	0.0	0.0	060#	31.6
16	1018.1	23.7	21.3	19.7	16.7	76	86	0.0	1.0	040	18.
17	1017.7	26.2	23.2	21.2	17.7	71	79	0.0	5.1	030	13.
18	1018.1	27.3	22.8	20.0	18.5	77	70	0.0	5.3	030	20.
19	1019.8	21.4	19.8	18.8	17.1	84	94	0.1	0.6	070	27.
20	1019.6	21.6	19.1	17.7	15.1	78	83	0.7	4.7	070	24
21	1017.8	21.9	19.3	17.0	16.5	84	86	1.4	3.0	020	17.
22	1015.8	22.8	20.5	19.2	17.7	84	60	0.0	5.5	030	7.2
23	1016.7	21.4	20.0	18.9	17.3	85	81	0.0	0.3	070	22.
24	1017.9	23.3	20.4	19.0	16.9	80	44	0.0	8.6	060#	15.
25	1016.4	22.9	20.1	19.0	16.6	80	65	0.0	7.7	060#	22.4
26	1016.3	24.5	21.0	17.5	15.8	73	29	0.0	9.4	360	19.
27	1020.3	21.3	18.0	15.6	11.2	65	23	0.0	9.4	360	32.
28	1020.2	20.9	18.5	16.8	13.1	72	64	Trace	6.1	070	28.
29	1018.3	19.6	18.8	17.9	16.8	88	92	9.3	0.0	050	22.
30	1020.0	22.5	20,3	18.8	18.7	91	90	0.3	0.0	070	22.
31	1024.9	20.2	19.2	18.0	16.8	86	93	Trace	0.0	070	43.
Mean/Total	1020.2	21.9	19.1	17.0	12.9	69	54	13.5	182.2	070	26.
Normal?	1020.5	20.2					· ·				- /

# data incomplete ^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since January 1989

Trace means rainfall less than 0.05 mm ? 1981-2010 Climatological Normal, unless otherwise specified

### 香港天文台 HONG KONG OBSERVATORY

分 > Climate > Climate Information Service > Daily Extract

#### **Daily Extract**

			٢	long Kong C	bservato	ory			King's Park	Waglan Is	land^
Day	Mean Pressure	Absolute	Tempera Mean	Absolute	Mean Dew Point	Mean Relative	Mean Amount of	Total Rainfall	Total Bright	Prevai ing Wind	Mea Win
	(hPa)	Daily Max (deg. C)	(deg. C)	Daily Min (deg. C)	(deg. C)	Humidity (%)	Cloud (%)	(mm)	Sunshine (hours)	Direction (degrees)	Spee (km/
01	1026.5	18.7	17.9	17.2	14.4	80	92	Trace	0.2	080	33.
02	1025.2	20.4	18.3	17.4	14.4	78	54	0.0	3.6	050	24.
03	1023.0	22.0	18.9	17.2	15.7	82	47	0.0	8.9	040	21.
04	1020.9	22.0	19.2	17.6	16.1	83	62	0.0	8.6	060	18.
05	1020.5	22.1	20.0	18.7	16.1	79	81	0.0	6.6	060	34.
06	1019.3	24.0	21.0	19.5	17.0	78	75	0.0	6.7	060	24.
07	1017.2	25.8	22.4	20.4	19.3	83	57	Trace	8.0	020	10.
08	1018.5	26.0	21.9	19.7	16.4	72	35	0.0	8.1	010	20.
09	1018.1	20.6	19.3	18.4	15.3	77	76	0.0	5.0	070	35.
10	1016.4	21.8	19.9	18.8	16.7	82	67	0.0	6.1	060	26.
11	1015.3	23.9	20.9	18.7	17.4	81	59	0.0	7.0	040	15.
12	1017.1	20.3	17.9	15.7	11.2	65	75	0.0	7.9	360	24.
13	1017.8	19.7	18.3	17.2	14.1	76	77	0.0	2.5	050	30.
14	1019.0	21.9	19.0	17.5	14.6	76	42	0.0	9.4	060	27.
15	1018.3	21.7	19.5	17.9	15.9	80	77	0.1	5.8	070	38.
16	1017.7	22.2	19.8	18.4	17.1	84	57	Trace	7.2	060	27.
17	1019.6	20.0	18.5	17.2	12.6	69	88	0.0	0.1	010	20.
18	1019.6	21.0	18.3	17.1	13.4	73	63	0.0	6.5	040	25.
19	1020.9	20.7	18.2	16.6	13.5	75	83	0.0	1.1	050	25.
20	1021.9	20.6	18.0	15.7	13.5	75	80	0.0	2.9	020	21.
21	1022.4	21.1	18.8	17.3	15.1	80	85	0.0	4.9	060	33.
22	1019.1	23.6	20.5	18.0	17.4	82	84	Trace	4.3	030	18.
23	1017.2	25.7	21.9	20.5	19.5	86	63	0.0	7.6	020	16.
24	1018.1	23.1	21.5	20.1	19.6	89	86	Trace	4.6	040	25.
25	1016.2	22.2	19.7	18.8	17.9	89	91	2.1	0.9	060	37.
26	1014.9	19.2	16.5	13.7	14.0	86	80	12.3	1.5	360	25.
27	1016.4	16.0	13.0	11.5	7.6	70	71	0.2	2.7	350	28.
28	1018.6	16.1	13.0	10.8	6.9	66	68	0.1	4.4	360	29.
29	1020.6	17.1	13.8	11.0	4.7	55	42	0.0	7.2	360	35.
30	1020.0	18.5	14.7	11.6	2.4	44	3	0.0	10.2	360	31.
30	1021,5	18.9	14.7	11.8	5.0	52	4	0.0	10.2	070	24.
31 Mean/Tota											24.
meall/10ta	1019.4	21.2	18.6	16.8	14.0	76	65	14.8	170.7	060	20.

<sup>^</sup> Information of wind direction and wind speed for WagIan Island are based on automatic weather station data since January 1989
 Trace means rainfall less than 0.05 mm
 ? 1981-2010 Climatological Normal, unless otherwise specified

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

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

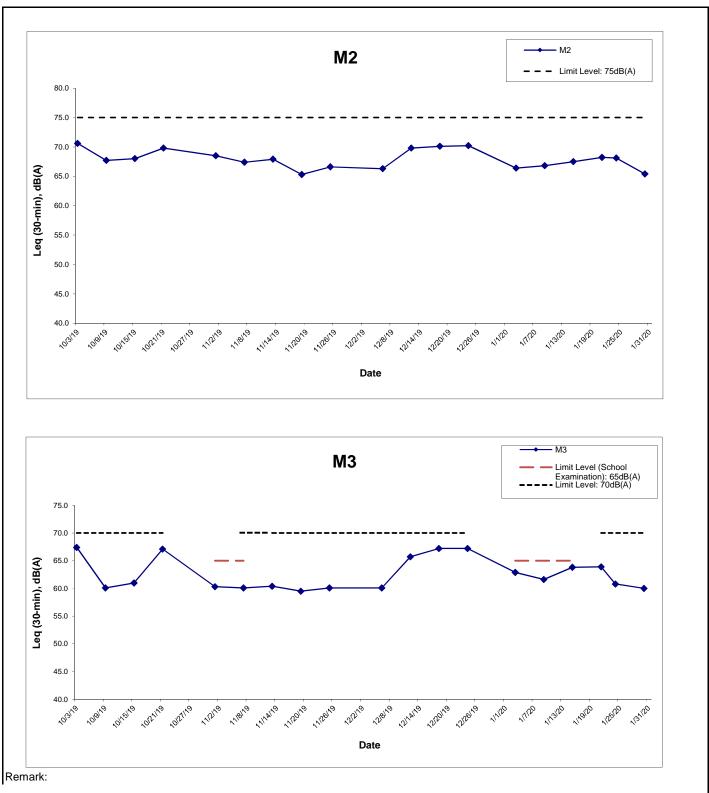
	Mea	sured Noise Lev	vel for 30-min, d	B(A)	Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
3-Oct-19	10:15	70.6	72.5	68.4	75	N
9-Oct-19	13:55	67.7	69.0	65.0	75	N
15-Oct-19	14:45	68.0	70.0	62.0	75	N
21-Oct-19	11:15	69.8	71.2	67.8	75	N
1-Nov-19	15:30	68.5	69.1	67.2	75	N
7-Nov-19	14:00	67.4	69.0	62.5	75	N
13-Nov-19	10:15	67.9	68.5	67.0	75	N
19-Nov-19	14:00	65.3	65.5	63.0	75	N
25-Nov-19	14:00	66.6	67.5	63.5	75	N
6-Dec-19	10:00	66.3	67.0	63.5	75	N
12-Dec-19	14:10	69.8	71.2	67.3	75	N
18-Dec-19	13:15	70.1	72.5	68.1	75	N
24-Dec-19	9:55	70.2	72.3	68.1	75	N
3-Jan-20	13:30	66.4	67.5	64.0	75	N
9-Jan-20	15:05	66.8	67.5	65.0	75	N
15-Jan-20	14:55	67.5	68.5	64.0	75	N
21-Jan-20	15:20	68.2	69.6	65.4	75	N
24-Jan-20	13:30	68.1	68.8	67.3	75	N
30-Jan-20	15:00	65.4	66.5	62.0	75	N
Minimum for No	ov 19 to Jan 20	65.3	65.5	62.0		
Maximum for No	ov 19 to Jan 20	70.2	72.5	68.1		
Average for No	v 19 to Jan 20	67.9	69.2	65.7		

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

	Mea	sured Noise Lev	vel for 30-min, d	B(A)	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
3-Oct-19	9:30	67.4	68.9	64.5	70	N
9-Oct-19	13:00	60.1	61.0	56.5	70	N
15-Oct-19	13:50	61.0	63.5	58.0	70	N
21-Oct-19	10:30	67.1	68.6	65.9	70	N
1-Nov-19	14:30	60.3	62.0	59.7	65	N
7-Nov-19	11:00	60.1	61.5	56.5	65	N
13-Nov-19	11:15	60.4	62.1	58.9	70	N
19-Nov-19	10:05	59.5	60.5	56.0	70	Ν
25-Nov-19	10:00	60.1	61.5	56.0	70	N
6-Dec-19	11:00	60.1	61.0	56.5	70	N
12-Dec-19	15:50	65.7	68.1	63.2	70	N
18-Dec-19	14:50	67.2	69.5	64.7	70	N
24-Dec-19	11:29	67.2	69.5	65.0	70	N
3-Jan-20	14:15	62.9	63.5	60.5	65	N
9-Jan-20	14:15	61.6	62.5	60.5	65	N
15-Jan-20	14:00	63.8	65.0	61.5	65	N
21-Jan-20	14:10	63.9	65.7	62.2	70	N
24-Jan-20	14:10	60.8	62.3	59.1	70	N
30-Jan-20	14:00	60.0	61.0	55.0	70	N
Minimum for No	ov 19 to Jan 20	59.5	60.5	55.0		
Maximum for No	ov 19 to Jan 20	67.2	69.5	65.0		
Average for No	v 19 to Jan 20	63.1	64.9	60.8		

\* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period. Examination period of Fanling Government Secondary School (M3) in this reporting period is 1 to 8 Nov 2019 and 2 to 15 Jan 2020.



^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period. Examination period of Fanling Government Secondary School (M3) in this reporting period is 10 - 25 June 2019.

This Drawing has been prepared for the use of AECOM's client. It may	not be used, modified, rep	nduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsover, to any party that uses or relies on this	drawing without AECOM's express written consent.
CONTRACT NO. HY/2012/06			
WIDENING OF FANLING HIGHWA	Y		AECOM
- TAI HANG TO WO HOP SHEK IN	TERCHANGE		
		Graphical Presentation of Impact Daytime Construction Noise	
		Monitoring Results	
Project No.: 60307376	Date:	Apr-20	Appendix G

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

# Appendix H

# Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this quarter	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	1	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 quarter	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 Received	Subject	Status	Total no. followed up by the ET this quarter	Total no. followed up by the ET since project commencement
5 January 2017 (Referred by the Contractor on 13 January 2017)	A complaint was received by the 1823 enquiry and complaint hotline 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. The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.	Closed		
22 May 2017 (Referred by the Contractor on 23 May 2017)	A complaint was received by the 1823 enquiry and complaint hotline 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 Hang Village on Sunday(s). 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 quarter	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 quarter	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 quarter	Total no. followed up by the ET since project commencement
Environmental complaints	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	_	-	0	0