FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.
Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

QUARTERLY EM&A REPORT

March 2019 – May 2019

Client	**:**	Civil Engineering and Development Department, HKSAR
Contract No.	**:**	NDO 03/2018
Contract Name	**:**	Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)
Report No.	**:**	0064/18/ED/0316A

Prepared by	**:**	Sang Wu
Reviewed by	**:**	Cyrus Lai
Certified by	**:**	David Hung Environmental Team Leader Fugro Technical Services Limited

Our ref: ASCL-2018010

Unit 1501, Level 15,
Tower I, Metroplaza,
223 Hing Fong Road, Kwai Fong,
N.T., Hong Kong.

Attention: Miss FUNG Cannifer

29 August 2019

Dear Miss Fung,

NE/2017/05
Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)
Quarterly EM&A Report for March to May 2019

I refer to the email of ET regarding to the captioned Quarterly EM&A Report with report No. 0064/18/ED/0316A, we have no adverse comment on it and verify this quarterly report according to section 1.9 of the Environmental Permit with Permit No. EP 463/2013/B

Yours faithfully,

Li Wai Ming Kevin
Independent Environmental Checker

cc. CRE – Mr. YU Albert (by email only: albert.yu@aecom.com)
ET Leader – Mr. Hung David (by email only: d.hung@fugro.com)

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Website : www.fugro.com

Date 17 September 2019
Our Ref. MCL/ED/0456/2019/C

The EIA Ordinance Register Office
Environmental Protection Department
27/F, Southorn Centre,
130 Hennessy Road, Wan Chai, Hong Kong
Attn: Ms. LAU Yee Ching, Eva

BY HAND & E-MAIL

Dear Ms. Lau,

Contract No. NE/2017/05
Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

Environmental Permit: EP-463/2013B
Submission of Quarterly EM&A Report (0064/18/ED/0316A)

Pursuant to Updated EM&A Manual Section 8.7, we hereby submit three hardcopies and two e-copy of the quarterly EM&A Report (0064/18/ED/0316A) for your retention. This quarterly EM&A Report has been certified by ETL and verified by IEC accordingly.

Thank you for your attention, should there be any comments or queries, please contact our Environmental Team Leader David Hung at 3565-4371 or the undersigned at 3565-4441.

Yours faithfully,
for and on behalf of
FUGRO TECHNICAL SERVICES LIMITED

David Hung
Environmental Team Leader

c.c. CEDD Attn: Mr. Andrew Cheung / Ms. Cannifer Fung (by E-mail)
AECOM Attn: Mr. Albert Yu / Mr. Bobby Hung / Mr. Andrew Cheng / Ms. Kate Chen / Ms. Catherine Tam (by E-mail)
IEC Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail)
CCZJV Attn: Mr. Chung Sing Chu / Ms. Kimberly Wong / Mr. Alvin Chan (by E-mail)

Encl.

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EXECUTIVE SUMMARY

i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.

ii. This is the 2nd Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 1 March 2019 and 31 May 2019. As informed by the Contractor, major activities in the reporting period included:

March 2019	April 2019	May 2019
• Tree felling, underground utilities detection, trail pit excavation, ground investigation works and construction of temporary road and site access at Zone 1, Zone 2, Zone 4 and Zone 5 ; and • Trial pits excavation, underground utilities detections, ground investigation works, temporary road, access and temporary fill platform construction and tree felling works in Zone 3.	• Trial pits excavation, underground utilities detection, temporary road and site access construction and tree felling at Zone 1, 4 and 5; • Trial pits excavation, underground utilities detections and tree felling at Zone 2; and • Trial pits excavation. Underground utilities detections, construction of temporary road and site access, construction of temporary fill platform and tree felling at Zone 3.	• Trial pits excavation, underground utilities detection, temporary road and site access construction and tree felling at Zone 1, 4 and 5; • Trial pits excavation, underground utilities detections and tree felling at Zone 2; and • Trial pits excavation, underground utilities detections, construction of temporary road and site access, construction of temporary fill platform and tree felling at Zone 3.

Breaches of the Action and Limit Levels

iii. No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP and construction noise at the site area in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

iv. A complaint case was received on 28/3/2019 referred from Contractor project hotline regarding noise nuisance at 03:35am. After ET's investigation, the complaint case should be related to MTR night time maintenance works with grinding noise.

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

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1. INTRODUCTION

1.1 Background

1.1.1 Contract No. NE/2017/05 – Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Contract"), is the Works Contract involved the construction of road widening and retrofitting noise barriers on TPR-ST.

1.1.2 The Works of road widening on TPR-ST is classified as a designated project (DP) under the Part I of Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). The scale and scope of DP is classified as below:

- Widening and reconstruction of an approximate 1.2 km long of the existing Tai Po Road (Sha Tin Section) from dual 2-lane to dual 3-lane carriageway; and improvement of the existing Sha Tin Rural Committee Road and its junctions.

1.1.3 The Environmental Monitoring and Audit (EM&A) programme under this Contract is governed by the Environmental Permit (EP) (EP No: EP-463/2013/B) and the updated EM&A Manual (Reference No.: 0064/18/ED/0122D). The Works to be executed under this Contract and corresponding EPs include but not be limited to the following main items:

(i) Road widening works of TPR-ST:

(a) widening of TPR-ST of about 1.1 kilometres between Sha Tin Rural Committee Road (STRCR) and Fo Tan Road from dual two-lane to dual three-lane;

(b) modification to the existing diamond interchange at TPR-ST / STRCR (STRCR Interchange);

(c) provision of two pedestrian lifts, re-provision of staircase and cycle track ramp at the modified STRCR Interchange;

(d) modification of existing cycle track subway no. NS30 near Sha Tin Plaza;

(e) modification of the existing footbridge no. NF40 across TPR-ST near Wo Che Street;

(f) modification of the existing footbridge no. NF66 near Fung Wo Lane;

(g) installation of noise mitigation measures between Citylink Plaza and Mei Wo House of Wo Che Estate;

(h) associated drainage works, waterworks, street lighting works and traffic control and surveillance system (TCSS).

(ii) Retrofitting of noise barriers along TPR-ST:

(a) western section between Citylink Plaza and Scenery Court;

(b) eastern section between Mei Wo House of Wo Che Estate and Fo Tan Road; and

(c) associated drainage works, waterworks and street lighting works.

(iii) Associated street furniture, road marking, traffic signs, directional signs, services and utilities, and

(iv) Associated landscaping works.

1.1.4 The location and boundary of the site is shown in **Figure 1**.

1.1.5 This quarterly EM&A report is required under EP-463/2013/B Condition 3.4. It is to report the results and findings of the EM&A programme required in the updated EM&A Manual.

1.1.6 This is the 2nd quarterly EM&A Report which summarized the impact monitoring results and audit findings for the construction of the road widening and retrofitting noise barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Project") within the period between 1 March 2019 and 31 May 2019.

1.2 Project Organization

1.2.1 The project proponent was the Civil Engineering and Development Department, HKSAR (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as the Engineer for the Project. Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture was commissioned as the Independent Environmental Checker (IEC). China railway – China Railway First Group – Zhen Hua Engineering Joint Venture (CCZJV) was appointed as the main contractor for the construction works under the contract NE/2017/05. Fugro Technical Services Limited (FTS) was appointed as the Environmental Team (ET) by CEDD to implement the EM&A programme for the Project.

1.2.2 The organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Proponent (CEDD)	Senior Engineer	Mr. Andrew Cheung	3152 3500
Engineer's Representative (AECOM)	Chief Resident Engineer	Mr. Albert Yu	2276 0618
IEC (Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture)	Independent Environmental Checker	Mr. Kevin Li	9779 2247
Main Contractor (CCZJV)	Site Agent	Mr. Alvin Chan	9800 9494
	Environmental Officer	Ms. Kimberly Wong	5542 1669
ET (FTS)	Environmental Team Leader	Mr. David Hung	3565 4371

1.3 Construction Programme and Activities

1.3.1 The construction of the Project commenced on 29 November 2018 and is expected to complete in 2023. The construction programme is shown in **Appendix A**. A summary of the major construction activities undertaken in the reporting period were:

March 2019	April 2019	May 2019
• Tree felling, underground utilities detection, trail pit excavation, ground investigation works and construction of temporary road and site access at Zone 1, Zone 2, Zone 4 and Zone 5 ; and • Trial pits excavation, underground utilities detections, ground investigation works, temporary road, access and temporary fill platform construction and tree felling works in Zone 3.	• Trial pits excavation, underground utilities detection, temporary road and site access construction and tree felling at Zone 1, 4 and 5; • Trial pits excavation, underground utilities detections and tree felling at Zone 2; and • Trial pits excavation. Underground utilities detections, construction of temporary road and site access, construction of temporary fill platform and tree felling at Zone 3.	• Trial pits excavation, underground utilities detection, temporary road and site access construction and tree felling at Zone 1, 4 and 5; • Trial pits excavation, underground utilities detections and tree felling at Zone 2; and • Trial pits excavation, underground utilities detections, construction of temporary road and site access, construction of temporary fill platform and tree felling at Zone 3.

1.4 Status of Environmental Licences, Notifications and Permits

1.4.1 A summary of the relevant environmental licenses, permits and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

Table 1.2 Relevant Environmental Licenses, Permits and/or Notifications

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/7/2018	Nil
Construction Waste Disposal Account	7031619	17/8/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	6/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	9/11/2018	30/11/2023
Construction Noise Permit for Road Closure works at restricted hours	GW-RN0132-19	1/3/2019	30/4/2019
	GW-RN0246-19	1/5/2019	30/6/2019

2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

2.1 Monitoring Requirement

2.1.1 In accordance with the updated EM&A Manuals, 24-hour & 1-hour Total Suspended Particulates (TSP) level and Leq (30min) at the designated monitoring stations is required. Impact 24-hour and 1-hour TSP monitoring should be carried out at least once every 6 days. Leq (30min) monitoring is conducted for at least once a week during the construction phase between 0700 and 1900 on normal weekdays. The Action and Limit Levels of the air quality monitoring and noise monitoring are given in **Appendix C**.

2.2 Monitoring Locations

2.2.1 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works. According to the Hong Kong Observatory, wind directions were north, east and north east in March 2019; east and north east in April 2019 and east, south west and north east in May 2019. The most updated locations are summarized in **Table 2.1** and shown in **Figure 2a**.

Table 2.1 Location of Air Quality Monitoring

Reporting Period	Monitoring Station	Location	Land uses
March 2019	AMS 1	Scenery Court	Residential
	AMS 2	Villa Le Parc	Residential
	AMS 4A	Wai Wah Centre	Residential
	AMS 6	Shatin Plaza	Residential
April 2019	AMS 1	Scenery Court	Residential
	AMS 2	Villa Le Parc	Residential
	AMS 4A	Wai Wah Centre	Residential
	AMS 6	Shatin Plaza	Residential
May 2019	AMS 6	Shatin Plaza	Residential
	AMS 7A	Sheung Wo Che	Residential
	AMS 12	Fung Wo Estate	Residential
	AMS 15	Ha Wo Che	Residential

2.2.2 According to the updated EM&A Manual, 25 noise monitoring locations were included during the noise monitoring. The most updated locations are summarized in **Table 2.2** and shown in **Figure 2b**.

Table 2.2 Location of Noise Monitoring Station

Monitoring Station	Location	Land Uses	Type of Measurement
NMS1	Scenery Court	Residential	Façade
NMS2	Villa Le Parc	Residential	Façade
NMS3	Hilton Plaza	Residential	Façade
NMS4	Tin Liu	Residential Village	Façade
NMS5A	Wai Wah Centre	Residential	Façade
NMS6A	Wai Wah Centre	Residential	Façade
NMS7	Tin Liu	Residential Village	Façade
NMS8	Shatin Plaza	Residential	Façade
NMS9	Lek Yuen Estate	Residential	Façade
NMS10A	Shatin Tsung Tsin School	School	Façade
NMS11	Sheung Wo Che	Residential Village	Façade
NMS12	SKH Holy Spirit Primary School	School	Façade
NMS13	Lek Yuen Estate	Residential	Façade
NMS14	Sheung Wo Che	Residential Village	Façade
NMS15	Ha Wo Che	Residential Village	Façade
NMS16	Ha Wo Che	Residential Village	Façade
NMS17	Shatin Pui Ying College	School	Façade
NMS18	Ha Wo Che	Residential Village	Façade
NMS19	Wo Che Estate	Residential	Façade
NMS20	Wo Che Estate	Residential	Façade
NMS23	Pai Tau	Residential Village	Façade
NMS24	Shatin Plaza	Residential	Façade
NMS25A	Sheung Wo Che	Residential Village	Façade
NMS26	Wo Che Estate	Residential	Façade
NMS27	Jockey Club Ti-I College	School	Façade

2.3 Results and Observations

2.3.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP was recorded in the reporting period at all monitoring stations. The monitoring data of 24-hr and 1-hr TSP are summarized in **Table 2.3 and 2.4.** Graphical presentation of the monitoring data in the reporting period is presented in **Appendix D**.

Table 2.3 Summary of 24-hr TSP Monitoring Results

Monitoring Station	24-hr TSP (μg/m³) in Reporting Period				Average (μg/m³)	Action Level (μg/ m³)	Limit Level (μg/ m³)
	Feb 2019	Mar 2019	Apr 2019	May 2019			
AMS 1	-	21 - 35	11 - 35	-	26	171	260
AMS 2	24 - 49	35 - 53	38 - 65	-	45	166	
AMS 3A	40 - 61	-	-	-	53	200	
AMS 4A	-	34 - 60	33 - 71	-	48	200	
AMS 6	-	26 - 37	12 - 30	11 - 37	23	165	
AMS 7A	-	-	-	26 - 83	55	171	
AMS 12	-	-	-	30 - 85	56	168	
AMS 13	42 - 62	-	-	-	51	174	
AMS 14	21 - 70	-	-	-	43	174	
AMS 15	-	-	-	8 - 40	25	172	

Table 2.4 Summary of 1-hr TSP Monitoring Results

Monitoring Station	1-hr TSP (μg/m³) in Reporting Period				Average (μg/m³)	Action Level (μg/ m³)	Limit Level (μg/ m³)
	Feb 2019	Mar 2019	Apr 2019	May 2019			
AMS 1	-	12 - 66	22 - 89	-	50	350	500
AMS 2	16 - 48	40 - 61	20 - 129	-	53	324	
AMS 3A	42 - 82	-	-	-	63	350	
AMS 4A	-	41 - 97	22 - 116	-	62	348	
AMS 6	-	43 - 107	38 - 106	46 - 82	69	347	
AMS 7A	-	-	-	24 - 114	60	344	
AMS 12	-	-	-	32 - 92	57	296	
AMS 13	23 - 73	-	-	-	52	303	
AMS 14	26 - 96	-	-	-	60	350	
AMS 15	-	-	-	39 - 86	67	350	

2.3.2 No Action / Limit Level exceedance for day time construction noise was recorded in the reporting period at all monitoring stations. The results are summarized in **Table 2.5.** Graphical presentation of the monitoring data in the reporting period is presented in **Appendix D**.

Table 2.5 Summary of Day Time Noise Impact Monitoring Results

Monitoring Station	Leq (30min) Range ,dB(A) in Reporting Period				Leq (30min) Limit Level, dB(A)
	Feb 2019	Mar 2019	Apr 2019	May 2019	
NMS1	66.3 – 68.4	63.5 – 70.8	61.2 – 70.7	66.4 – 70.6	75
NMS2	58.0 – 59.5	61.0 – 62.0	57.3 – 62.4	59.0 – 61.6	75
NMS3	64.0 – 70.2	66.8 – 71.0	63.9 – 72.0	71.2 – 72.3	75
NMS4	71.4 – 71.6	66.8 – 72.1	66.3 – 72.6	72.1 – 73.1	75
NMS5A	68.0 – 73.4	68.1 – 74.5	71.8 – 74.6	70.9 – 74.1	75
NMS6A	67.4 – 72.5	69.2 – 74.7	71.0 – 73.6	73.2 – 74.2	75
NMS7	73.2 – 74.2	64.3 – 74.1	67.7 – 74.1	73.0 – 74.7	75
NMS8	64.6 – 68.6	65.7 – 71.4	69.2 – 72.1	66.2 – 72.1	75
NMS9	62.3 – 68.2	62.9 – 64.5	63.4 – 66.1	65.0 – 70.6	75
NMS10A	63.8 – 66.4	64.6 – 69.5	64.1 – 69.7	63.1 – 65.8	70*
NMS11	57.9 – 68.4	61.1 – 71.2	68.6 – 72.0	60.8 – 66.5	75
NMS12	59.0 – 64.1	59.1 – 65.0	62.7 – 64.6	59.5 – 64.6	70*

NMS13	58.7 – 65.5	61.3 – 73.1	64.8 – 67.6	55.4 – 71.0	75
NMS14	60.1 – 66.7	60.6 – 70.6	63.2 – 69.1	60.7 – 68.2	75
NMS15	63.9 – 67.4	64.9 – 66.1	64.2 – 69.4	64.9 – 69.2	75
NMS16	62.4 – 67.4	63.1 – 64.2	61.7 – 68.6	66.8 – 68.7	75
NMS17	59.9 – 63.3	60.3 – 65.5	62.7 – 64.8	60.3 – 64.6	70*
NMS18	60.0 – 73.2	62.5 – 65.5	60.3 – 65.8	65.8 – 67.6	75
NMS19	65.8 – 67.7	68.4 – 70.6	67.3 – 72.1	66.3 – 68.6	75
NMS20	58.8 – 67.5	60.6 – 65.4	63.2 – 67.0	60.6 – 70.7	75
NMS23	62.5 – 68.6	64.0 – 65.3	60.3 – 68.2	67.5 – 71.0	75
NMS24	62.7 – 67.5	63.5 – 73.0	70.1 – 72.1	63.7 – 72.1	75
NMS25A	62.1 – 72.1	68.6 – 72.4	69.2 – 72.1	69.2 – 71.2	75
NMS26	68.0 – 74.6	68.7 – 74.6	72.1 – 74.5	68.2 – 74.5	75
NMS27	63.5 – 64.2	63.2 – 64.6	62.1 – 69.5	62.1 – 64.7	70*

Note: 1. Leq $_{(30min)}$ was measured at day-time (0700-1900) on normal weekdays.
2. 70 dB(A) for schools and 65 dB(A) for schools during examination period. Exam schedules of NMS 10A, NMS12, NMS 17 and NMS 27 are provided in the monthly report for reference.

2.3.3 According to the Monthly EM&A reports, no project-related noise exceedance cases during the reporting period for Contractor's night tree-felling and removal works. The results are summarized in **Table 2.6** and **2.7.**

Table 2.6 Summary of Night Time Noise Impact Monitoring Results (1900 – 2300)

Monitoring Station	Leq $_{(5min)}$ Range ,dB(A) in Reporting Period			Baseline Level, dB(A)	Leq $_{(5min)}$ Limit Level, dB(A)
	Feb 2019	Apr 2019	May 2019		
NMS 8	60.1 – 69.4	-	-	67.5	70
NMS 9	59.0 – 66.0	-	-	57.8	70
NMS 13	-	57.6 – 62.1	65.3 – 68.6	59.8	70
NMS 15	-	61.4 – 66.1	59.4 – 64.2	62.0	70
NMS 16	-	64.9 – 68.8	-	63.3	70
NMS 18	-	58.7 – 63.8	60.7 – 64.4	64.2	70
NMS 19	-	64.6 – 67.1	-	65.3	70
NMS 24	60.3 – 67.7	-	-	61.8	70
NMS 25A	60.8 – 67.5	-	-	62.6	70
NMS 26	-	67.1 – 69.4	59.1 – 63.6	64.7	70

Note: 1. Leq $_{(5min)}$ was measured at night-time (1900-2300).
2. No night time noise impact monitoring was conducted in March 2019.

Table 2.7 Summary of Night Time Noise Impact Monitoring Results (2300 – 0700)

Monitoring Station	Leq $_{(5min)}$ Range ,dB(A) in Reporting Period			Baseline Level, dB(A)	Leq $_{(5min)}$ Limit Level, dB(A)
	Feb 2019	Apr 2019	May 2019		
NMS 8	56.0 – 63.7	-	-	64.4	55
NMS 9	51.8 – 60.8	-	-	53.5	55
NMS 13	-	52.2 – 60.6	60.5 – 66.0	57.3	55
NMS 15	-	54.2 – 62.7	53.1 – 61.4	58.8	55
NMS 16	-	56.5 – 63.9	-	60.1	55
NMS 18	-	55.0 – 58.1	59.1 – 62.4	63.2	55
NMS 19	-	57.1 – 70.2	-	61.7	55
NMS 24	52.1 – 60.9	-	-	58.0	55
NMS 25A	44.4 – 63.7	-	-	59.7	55
NMS 26	-	61.9 – 65.8	54.5 – 61.4	61.2	55

Note: 1. Leq $_{(5min)}$ was measured at night-time (2300-0700).

2. When the Average Measured Noise Level is greater than Limit Level, Average Construction Noise Level (CNL) will be applied.
Calculated CNL = Measured Noise Level during operation – Baseline
3. No night time noise impact monitoring was conducted in March 2019.

2.3.4 Based on the noise measurement results at 3 April 2019 night at NMS 26 from 11 p.m. to 7 a.m. of the next day, there was a trend related to the time with the traffic noise. The noise measurement results indicated that the average construction noise level of contractor's night work period was lower than that of their non-working period and NMS 26 was adjacent to Tai Po Road, hence the dominant noise should be traffic noise but not the project-related construction noise.

2.3.5 Based on the noise measurement results on 18 May 2019 night at NMS 13 from 11 p.m. to 7 a.m. of the next day, there was a trend related to the time with the traffic noise. The noise measurement results indicated that the average construction noise level of contractor's night work period was lower than that of their non-working period (Contractor started temporary traffic arrangement and road opening which no construction work was conducted) and NMS 13 was adjacent to Tai Po Road, hence the dominant noise should be traffic noise but not the project-related construction noise.

2.3.6 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.

2.3.7 During the reporting period, major dust sources including trial pits excavation was observed in the site. Other factors such as road traffic along Tai Po Road may affect the monitoring results. Major noise sources including road traffic along Tai Po Road was observed which may affect the monitoring results.

3. LANDSCAPE AND VISUAL

3.1 Results and Observations

3.1.1 Site audits were carried out to monitor and audit the implementation of landscape and visual mitigation measures.

3.1.2 No non-compliance was recorded in the weekly Site audits in the reporting period.

3.1.3 Observations and recommendations during site audits are summarized in **Table 5.1**.

4. WASTE MANAGEMENT

4.1 Results and Observations

4.1.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.

4.1.2 The amount of wastes generated by the site activities in the reporting period is shown in **Appendix E**.

4.1.3 The Contractor is advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

4.1.4 The Contractor is reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

5. SITE INSPECTION

5.1 Site Inspection

5.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix G**.

5.1.2 In the reporting quarter, 13 site inspections were carried out. 3 of them were the joint inspections with the IEC, ER, the Contractor and the ET.

5.1.3 All the follow-up actions requested by Contractor's ET and IEC during the site inspections were completed as reported by the Contractor. No outstanding issues were reported during the reporting period.

5.1.4 Details of observations recorded during the site inspections are presented in **Table 5.1**.

Table 5.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	No deficiency was found during the reporting quarter.		
Noise	29 May 2019	Reminder: 1. Close the generator doors properly in Zone 3.	NA
Water Quality	8 March 2019	Observation: 1. Sandbags shall be placed near trial pit in Zone 3. 2. Excavated materials in Zone 3 shall be covered with tarpaulin. 3. Water trapped by sandbags near railway in Zone 5 shall be treated and cleared. Reminder: 1. Sandbags shall be placed in North Bound near railway in Zone 5. 2. Before backfilling, trial pit shall be covered with tarpaulin in Zone 5.	1. Sandbags were placed near trial pit in Zone 3 on 11/3/2019. 2. Excavated materials were covered in Zone 3 on 11/3/2019. 3. Stagnant water was removed on 11/3/2019.
	15 March 2019	Observation: 1. Leaves and waste accumulated inside the u-channel shall be cleared more frequently. 2. Sandbags shall be extended near trial pit at NF 66 in Zone 4.	1. Leaves and waste accumulated inside the U-channel were cleared on 21/3/2019. 2. Sandbags were extended near trial pit at NF66 in Zone 3.

Parameters	Date	Observations and Recommendations	Follow-up
	19 March 2019	Reminder: 1. Sandbags shall be placed at the trench exit in Zone 3.	NA
	27 March 2019	Observation: 1. Unpaved road boundary shall be placed with sandbags in Zone 3. Reminder: 1. Trench gradient shall be improved to increase the water removal efficiency in Zone 3. 2. Water trapped in the tarpaulin cover shall be removed more frequently.	1. Sandbags were provided to prevent surface run-off from flowing to public area.
	4 April 2019	Observation: 1. Leaves and waste materials in temporary u-drain in Zone 3 shall be removed.	Leaves and waste were removed from the temporary drainage on 4/4/2019.
	11 April 2019	Observation: 1. Clear leaves and waste at the drainage channel near paved area (entrance/exit) in Zone 3.	Leaves and waste at discharge point was cleared on 12/4/2019.
	18 April 2019	Reminder: 1. Sandbags shall be placed near road side in Zone 5 opposite to Wo Che Estate. 2. Trial pits shall be covered before holiday.	NA
	24 April 2019	Observation: 1. Sandbags / additional cover shall be provided for the trenches in Zone 3.	Sandbags were provided for the trenches on 30/4/2019.
	2 May 2019	Reminder: 1. Bunding shall be provided to prevent waste oil from other site entering site area (Area B).	NA
	9 May 2019	Observation: 1. Cover the trial pits in Zone 2 properly. 2. Trapped water on the tarpaulin cover shall be removed in Zone 2 and 3.	1. Trial pits were covered properly on 9/5/2019. 2. Trapped water on the tarpaulin cover was removed on 9/5/2019.

Parameters	Date	Observations and Recommendations	Follow-up
	23 May 2019	Observation: 1. Clear leaves at the trench exit in Zone 3. 2. Clear silt and sand accumulation in the trench in Zone 3. 3. Clear stagnant water in the trench in Zone 3. 4. Cover trial pit by tarpaulin sheeting entirely in Zone 2.	1. Leaves at the trench exit were removed on 24/5/2019. 2. Silt and sand were cleared from the trench on 24/5/2019. 3. Stagnant water was cleared on 24/5/2019. 4. Trial pit was covered properly on 23/5/2019.
	29 May 2019	Reminder: 2. Water in S05 tank was found turbid in Zone 3. 3. Clear the silt and sand in the trench in Zone 3.	NA
Chemical and Waste Management	8 March 2019	Reminder: 1. Labels shall be provided for the chemical waste stored in the chemical waste storage area in Zone 3.	NA
	15 March 2019	Observation: 1. Leaves and waste accumulated inside the u-channel shall be cleared more frequently.	1. Leaves and waste accumulated inside the U-channel were cleared on 21/3/2019.
	27 March 2019	Observation: 1. Chemical materials in Zone 3 shall be placed on drip tray and stored in designated area. Reminder: 1. Felled trees in Zone 3 shall be removed.	1. Chemicals were removed on 2/4/2019.
	4 April 2019	Observation: 1. Chemical shall be placed on drip tray and designated storage area. 2. Spill kit shall be provided for the chemical in Zone 3.	Chemicals were placed in designated storage area and spill kits were provided on

Parameters	Date	Observations and Recommendations	Follow-up
			6/4/2019.
	11 April 2019	Reminder: 1. Provide drip tray for chemicals or place them at storage. 2. Clean up of tree branches stockpile	NA
	18 April 2019	Observation: 1. Water trapped on tarpaulin cover shall be removed.	Stagnant water was cleared on 18/4/2019.
	24 April 2019	Reminder: 1. Cans await recycling should not be stored in chemical waste cabinet.	NA
	16 May 2019	Reminder: 1. Tree branches should be removed in Zone 3. 2. Remove waste materials in Zone 3.	NA
Land Contamination	No deficiency was found during the reporting quarter.		
Landscape and Visual Impact	No deficiency was found during the reporting quarter.		
General Condition	No deficiency was found during the reporting quarter.		

6. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

6.1 Environmental Exceedance

6.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP and noise was recorded in the reporting period at all monitoring stations. Number of exceedance in the reporting period was summarized in **Table 6.1** and **6.2**.

Table 6.1 Summary of Exceedance of Dust Monitoring in Reporting Period

Monitoring Station		Number of exceedance in the reporting period							
		24-hour TSP				1-hour TSP			
		Mar 2019	Apr 2019	May 2019	Total	Mar 2019	Apr 2019	May 2019	Total
AMS 1	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 2	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 4A	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 6	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0
AMS 7A	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 12	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 15	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
Total	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0

Table 6.2 Summary of Exceedance of Noise Monitoring in Reporting Period

Monitoring Station		Number of exceedance in the reporting period			
		Leq (30min) dB(A)			Total
		Mar 2019	Apr 2019	May 2019	
NMS 1	AL	0	0	0	0
	LL	0	0	0	0
NMS 2	AL	0	0	0	0
	LL	0	0	0	0
NMS 3	AL	0	0	0	0
	LL	0	0	0	0
NMS 4	AL	0	0	0	0
	LL	0	0	0	0
NMS 5A	AL	0	0	0	0
	LL	0	0	0	0
NMS 6A	AL	0	0	0	0
	LL	0	0	0	0
NMS 7	AL	0	0	0	0
	LL	0	0	0	0
NMS 8	AL	0	0	0	0
	LL	0	0	0	0
NMS 9	AL	0	0	0	0
	LL	0	0	0	0
NMS 10	AL	0	0	0	0
	LL	0	0	0	0
NMS 11	AL	0	0	0	0
	LL	0	0	0	0
NMS 12	AL	0	0	0	0
	LL	0	0	0	0
NMS 13	AL	0	0	0	0
	LL	0	0	0	0
NMS 14	AL	0	0	0	0
	LL	0	0	0	0
NMS 15	AL	0	0	0	0
	LL	0	0	0	0
NMS 16	AL	0	0	0	0
	LL	0	0	0	0
NMS 17	AL	0	0	0	0
	LL	0	0	0	0
NMS 18	AL	0	0	0	0
	LL	0	0	0	0
NMS 19	AL	0	0	0	0
	LL	0	0	0	0
NMS 20	AL	0	0	0	0
	LL	0	0	0	0
NMS 23	AL	0	0	0	0
	LL	0	0	0	0
NMS 24	AL	0	0	0	0
	LL	0	0	0	0
NMS 25A	AL	0	0	0	0
	LL	0	0	0	0
NMS 26	AL	0	0	0	0
	LL	0	0	0	0
NMS 27	AL	0	0	0	0
	LL	0	0	0	0
Total	AL	0	0	0	0
	LL	0	0	0	0

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

6.2 Complaints, Notification of Summons and Prosecution

6.2.1 A complaint case was received on 28/3/2019 referred from Contractor project hotline regarding noise nuisance at 03:35am. After ET's investigation, the complaint case should be related to MTR night time maintenance works with grinding noise.

6.2.2 No notification of summons or prosecution was received in the reporting period.

6.2.3 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix F**.

7. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

7.1 Implementation Status

7.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting period is summarized in **Appendix F**.

8. CONCLUSIONS

8.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP and noise was recorded in the reporting period at all monitoring stations.

8.1.2 A complaint case was received on 28/3/2019 referred from Contractor project hotline regarding noise nuisance at 03:35am. After ET's investigation, the complaint case should be related to MTR night time maintenance works with grinding noise.

8.1.3 13 weekly environmental site inspections were carried out in the reporting period. Recommendations on mitigation measures on air quality, noise quality, water quality, chemical and waste management, landscape and visual impact were given to the Contractor for remediating the deficiencies identified during the site inspections.

8.1.4 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting period.

Comment and Recommendations

8.1.5 The recommended environmental mitigation measures, as proposed in the EIA reports and EM&A Manuals shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.

8.1.6 According to the environmental audit performed in the reporting period, the following recommendations were made:

<u>Air Quality Impact</u>
- No specific observation was identified in the reporting period.

<u>Construction Noise Impact</u>
- Close the generator doors properly in Zone 3.

<u>Water Quality Impact</u>
- Sandbags shall be placed in North Bound near railway in Zone 5.
- Before backfilling, trial pit shall be covered with tarpaulin in Zone 5.
- Sandbags shall be placed at the trench exit in Zone 3.
- Sandbags shall be placed near road side in Zone 5 opposite to Wo Che Estate.
- Trial pits shall be covered before holiday.
- Bunding shall be provided to prevent waste oil from other site entering site area (Area B).
- Treatment should be provided for the water in S05 tank (Zone 3) which was found turbid.
- Clear the silt and sand in the trench in Zone 3.

<u>Chemical and Waste Management</u>
- Labels shall be provided for the chemical waste stored in the chemical waste storage area in Zone 3.
- Felled trees in Zone 3 shall be removed.
- Provide drip tray for chemicals or place them at storage.
- Clean up of tree branches stockpile.
- Cans await recycling should not be stored in chemical waste cabinet.
- Tree branches should be removed in Zone 3.

- Remove waste materials in Zone 3.

Land Contamination

- No specific observation was identified in the reporting period.

Landscape and Visual Impact

- No specific observation was identified in the reporting period.

General Condition

- No specific observation was identified in the reporting period.

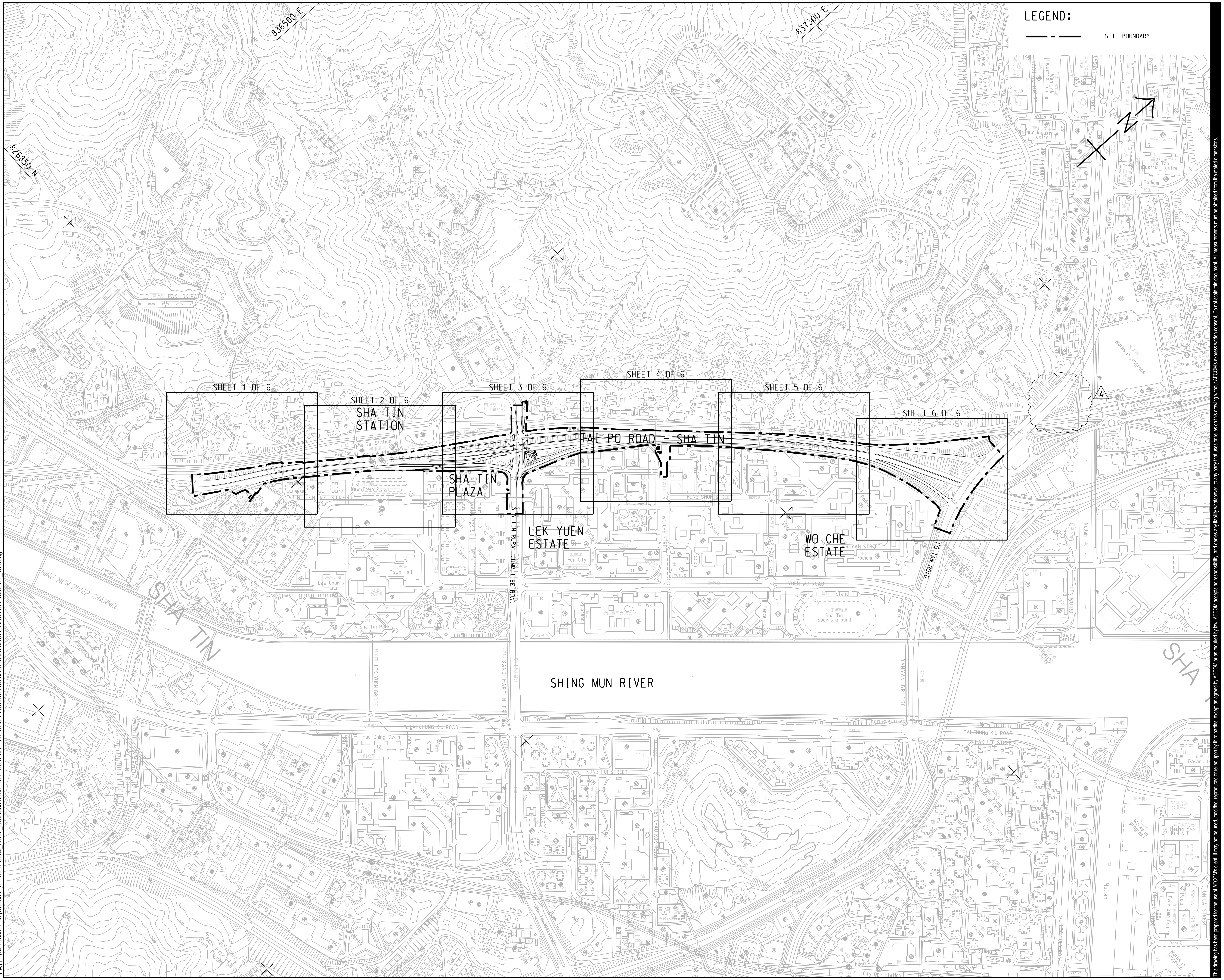
FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Figure 1

Project General Layout



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PROJECT 項目

ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

CLIENT 業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

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A	FEB. 18	TENDER ADDENDUM NO.2	BBC
-	JAN. 18	TENDER DRAWING	BCC

STATUS 階段

SCALE 比例 A1 1 : 4000

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 **FIGURE 1.1a**

CONTRACT NO. 合約編號

NE/2017/05

SHEET TITLE 圖紙名稱

KEY PLAN
FIGURE 1.1a

SHEET NUMBER 圖紙編號

60481656/C1/1000A

Project Management Initials: | Designer: FMSC | Checked: BCC | Approved: CWN | ISO A1 594mm x 841mm

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60481656/C1/1002 TO 1006 AND 1021 TO 1023.
2. ALL DIMENSIONS ARE IN METERS AND REFER TO PRINCIPAL DATUM.
3. ALL CO-ORDINATES ARE IN ACCORDANCE WITH HK (1980) GAUSS CO-ORDINATE SYSTEM.
4. DETAILS INCLUDING DIMENSIONS, LEVELS, DESCRIPTIONS,LOCATIONS, ETC. GIVEN FOR EXISTING ROADS, FOOTPATHS, BRIDGE STRUCTURE ARE INDICATIVE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL EXISTING DETAILS ON SITE.
5. FOR SETTING OUT OF SITE BOUNDARY, REFER TO DRAWING NOS. 60481656/C1/1011 TO 1016.
6. FOR THE ARRANGEMENT OF RETAINING WALL, REFER TO DRAWING NOS. 60481656/C1/7011 TO 7016.
7. FOR SETTING OUT OF ROAD ALIGNMENT, REFER TO DRAWING NOS. 60481656/C1/1101 TO 1107.

LEGEND:

- SITE BOUNDARY
- N1 NOISE BARRIER WITH VARIOUS HIGH (10.7m TO 8.5m) WITH 2m CANTILEVER (30°) AT BOTH SIDES
- N2 1.2m HIGH NOISE BARRIER ON PARAPET (VERTICAL)
- N3 5m HIGH NOISE BARRIER (VERTICAL)
- N4 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)
- N5 5.5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)
- N6 6m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER
- R1 RETROFITTING 6m HIGH NOISE BARRIER (VERTICAL)
- R2 RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 3m CANTILEVER (30°)
- R4 RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL)
- RETAINING WALL
- R5 RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)
- R6 RETROFITTING NOISE BARRIER (VERTICAL) WITH VARIOUS HEIGHT (5m TO 2m)
- EXISTING BOX CULVERT
- NOISE SEMI-ENCLOSURE WITH 2m CANTILEVER (30°)
- CYCLE TRACK
- FOOTPATH
- 6.0m HEIGHT OF NOISE SEMI-ENCLOSURE
- OLD AND VALUABLE TREE (OVT)
- LIFT

837000 E

826650 N

SEE DRAWING NO. 60481656/C1/1002

CUT LINE A-A

EXISTING FOOTBRIDGE, NF71A

RSE1

RSE2

FIGURE 1.1a

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16/1/2018
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SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

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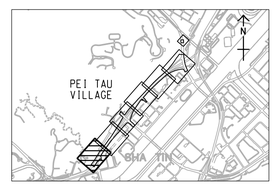
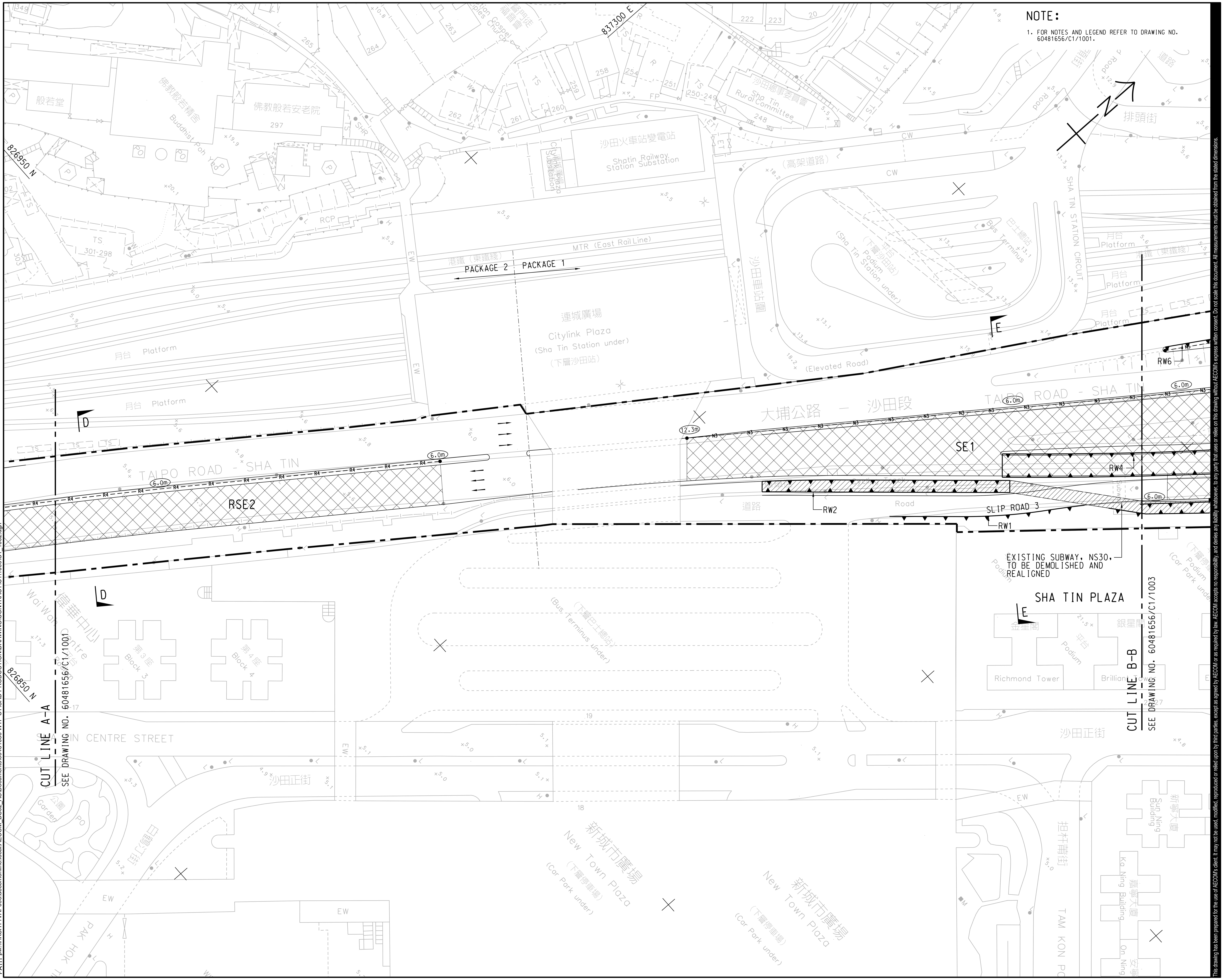


CONTRACT NO. 合約編號
60481656 NE/2017/05

SHEET TITLE 圖紙名稱
GENERAL LAYOUT PLAN
FIGURE 1.1 b

SHEET 1 OF 6

SHEET NUMBER 圖紙編號
60481656/C1/1001



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項目

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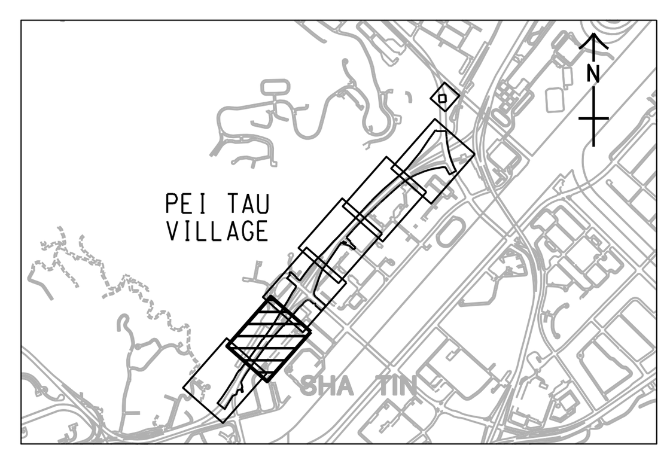
STATUS
階段

SCALE 比例 — A1 1 : 500

DIMENSION UNIT 尺寸單位 — METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO.
合約編號

NE/2017/05

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

FIGURE 1.1b

SHEET 2 OF 6

SHEET NUMBER
圖紙編號

60481656/C1/1002

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NOTE:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60481656/C1/1001.

LIFT NO. 1

LIFT NO. 2

EXISTING HyD. BRIDGE, DECK OF N264, TO BE MODIFIED

EXISTING RETAINING WALL NEAR SLIP ROAD 4, TO BE MODIFIED

SLIP ROAD 1

SLIP ROAD 2

SLIP ROAD 3

SLIP ROAD 4

SLIP ROAD 5

SLIP ROAD 6

SIDE ROAD

RW1

RW3

RW4

RW5

RW6

RW7

SE1

SE2

SE4

SE5

SE8

LCSD ST/6

LCSD ST/5

LCSD ST/17

STAIRCASE

EXISTING RETAINING WALL NEAR SLIP ROAD 3, TO BE MODIFIED

EXISTING ABANDON SUBWAY NS31, TO BE RETAINED

EXISTING RETAINING WALL NEAR SLIP ROAD 6, TO BE MODIFIED

SOLDIER PILE WALL

RETAINING WALL SR6-A, DETAILS REFER TO DRAWING NO. 60481656/C1/9251

RETAINING WALL SR6-B, DETAILS REFER TO DRAWING NO. 60481656/C1/9251

EXISTING SUBWAY, NS32, TO BE RETAINED

EXISTING HyD. BRIDGE, N263, TO BE MODIFIED

EXISTING HyD. BRIDGE, DECK OF N262, TO BE MODIFIED

CUT LINE B-B

SEE DRAWING NO. 60481656/C1/1002

CUT LINE C-C

SEE DRAWING NO. 60481656/C1/1004

BUS LANE

837400 E

837500 E

827150 N

SHA TIN STATION CIRCUIT

SHA TIN RURAL COMMITTEE ROAD

PAI TAU STREET

PAITAU STREET

Elevated Road

SHA TIN RURAL COMMITTEE ROAD Elevated Road

MTR (East Rail Line)

SHA TIN CENTRE STREET

Leisure and Cultural Services Headquarters

Sha Tin Town Hall Podium (Car Park under)

SHATIN PLAZA

Elegant Tower

Treasury Tower

Sha Tin Market

Shatin Tsin School

Lek Yuen Community Hall Home Affairs Department

Kwai Wo House

Fu Yu House

Fook Hoi House

Shopping Centre

Car Park

Shung Lam Court

Yu Lam Court

Sun Ning Building

Kwong Ning Bldg

Sheung Wo Che Garden

LEK YUEN ESTATE

PEI TAU VILLAGE

SHA TIN

Project Management Initials: Designer: FMSC Checked: BCC Approved: CWN ISO A1 594mm x 841mm

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2018/2/27

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A	FEB. 18	TENDER ADDENDUM NO. 1	BCC
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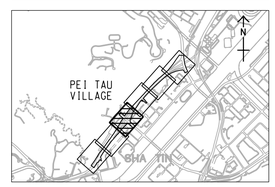
STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO.
合約編號

NE/2017/05

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN
FIGURE 1.1 b

SHEET 3 OF 6

SHEET NUMBER
圖紙編號

60481656/C1/1003B

NOTE:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60481656/C1/1001.

EXISTING RETAINING WALL NEAR SLIP ROAD 4, TO BE MODIFIED

EXISTING FOOTBRIDGE, NF40, TO BE RETAINED, PIER AT SOUTHBOUND OF TAI PO ROAD-SHATIN TO BE MODIFIED

CUT LINE C-C
SEE DRAWING NO. 60481656/C1/1003

CUT LINE D-D
SEE DRAWING NO. 60481656/C1/1005

837600 E

837700 E

827450 N

827350 N

SE5

SE6

Tai Po Road

Cycling Track

MTR (East Rail Line)

Shatin Tsung Tsin School

Lek Yuen Substation

S.K.H. Holy Spirit Primary School

Luk Chuen House

Shatin Police Station

Wo Shun House

Wo On House

Wo Yue House

Fung Wo Estate

Playground

Basketball Court

Football Field

Podium

Community Hall

D WO CHE STREET

FUNG SHUN STREET

PEI TAU VILLAGE

SHA TIN

AECOM

PROJECT
項目

ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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SCALE
比例
A1 1 : 500

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖
A1 1 : 40000

CONTRACT NO.
合約編號
NE/2017/05

SHEET TITLE
圖紙名稱
GENERAL LAYOUT PLAN
FIGURE 1.1b

SHEET 4 OF 6

SHEET NUMBER
圖紙編號
60481656/C1/1004

Project Management Initials: Designer: FMSC Checked: BCC Approved: CWN ISO A1 594mm x 841mm

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NOTE:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60481656/C1/1001.

837900 E

827650 N

827550 N

TAI PO ROAD - SHA TIN

SE6

SE3

6.0m

12.9m

EXISTING FOOTBRIDGE, NF66, TO BE RETAINED. PIER AT NORTHBOUND OF TAI PO ROAD-SHATIN TO BE MODIFIED

CUT LINE D-D

SEE DRAWING NO. 60481656/C1/1004

CUT LINE E-E

SEE DRAWING NO. 60481656/C1/1006

Cycling Track

單車徑

Basketball Court

籃球場

Shatin Pui Ying College.

沙田培英中學

Kiangsu-Chekiang College (Shatin)

沙田蘇浙公學

Bus Terminus

巴士總站

FUNG SHUN STREET

豐順街

Tai Wo House

泰和樓

Hau Wo House

厚和樓

King Wo House

景和樓

Wo On House

和安樓

Wo On Estate

FUNG WO LANE

豐禾里

Car Park

停車場

Ramp

PEI TAU VILLAGE

SHA TIN

FIGURE 1.1b

ISO A1 594mm x 841mm

Project Management Initials: Designer: FMSC Checked: BCC Approved: CWN

Plot File by: XIEJB
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16/1/2018

AECOM

PROJECT
項目

ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

CLIENT
業主

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

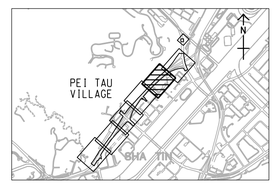
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 復核
-	JAN. 18	TENDER DRAWING	BCC

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO.
合約編號

NE/2017/05

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

FIGURE 1.1b

SHEET 5 OF 6

SHEET NUMBER
圖紙編號

60481656/C1/1005

NOTE:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60481656/C1/1001.

838100 E

838200 E

827850 N

PACKAGE 1 PACKAGE 2

MTR (East Rail Line)

港鐵（東鐵綫）

SE3

RSE3

6.0m

N4 N4 N4 N4 N4 N4 N4 N4 N4 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5 R6 R6 R6 R6 R6 R6 R6

N3 N3 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4

CUT LINE E-E
SEE DRAWING NO. 60481656/C1/1005

EXISTING SUBWAY, NS37A, TO BE RETAINED

EXISTING SUBWAY, NS38, TO BE RETAINED

EXISTING SUBWAY, NS39, TO BE RETAINED

EXISTING 5m HIGH NOISE BARRIER

EXISTING 5m HIGH NOISE BARRIER

道路 Road

Cycling Track

FO TAN ROAD

大埔公路 — 沙田段

Elevated Road

Hall/Sports Complex

Car Park

Tennis Court

Ramp

RCP

CW

EW

Man Wo House

Foo Wo House

Mei Wo House

HIP YAN STREET

協欣街

平台（下層停車場）Podium (Car Park under)

休憩處 Sitting-out Area

樂景街

Project Management Initials:
Designer: FMSC
Checked: BCC
Approved: CWN
ISO A1 594mm x 841mm

Plot File by: aecompw06ics013
2/22/2018
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AECOM

PROJECT
項目

ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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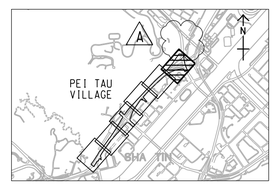
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
A	FEB. 18	TENDER ADDENDUM NO.2	BCC
-	JAN. 18	TENDER DRAWING	BCC

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO.
合約編號

NE/2017/05

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

FIGURE 1.1b

SHEET 6 OF 6

SHEET NUMBER
圖紙編號

60481656/C1/1006A

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Figure 2a

Air Monitoring Locations

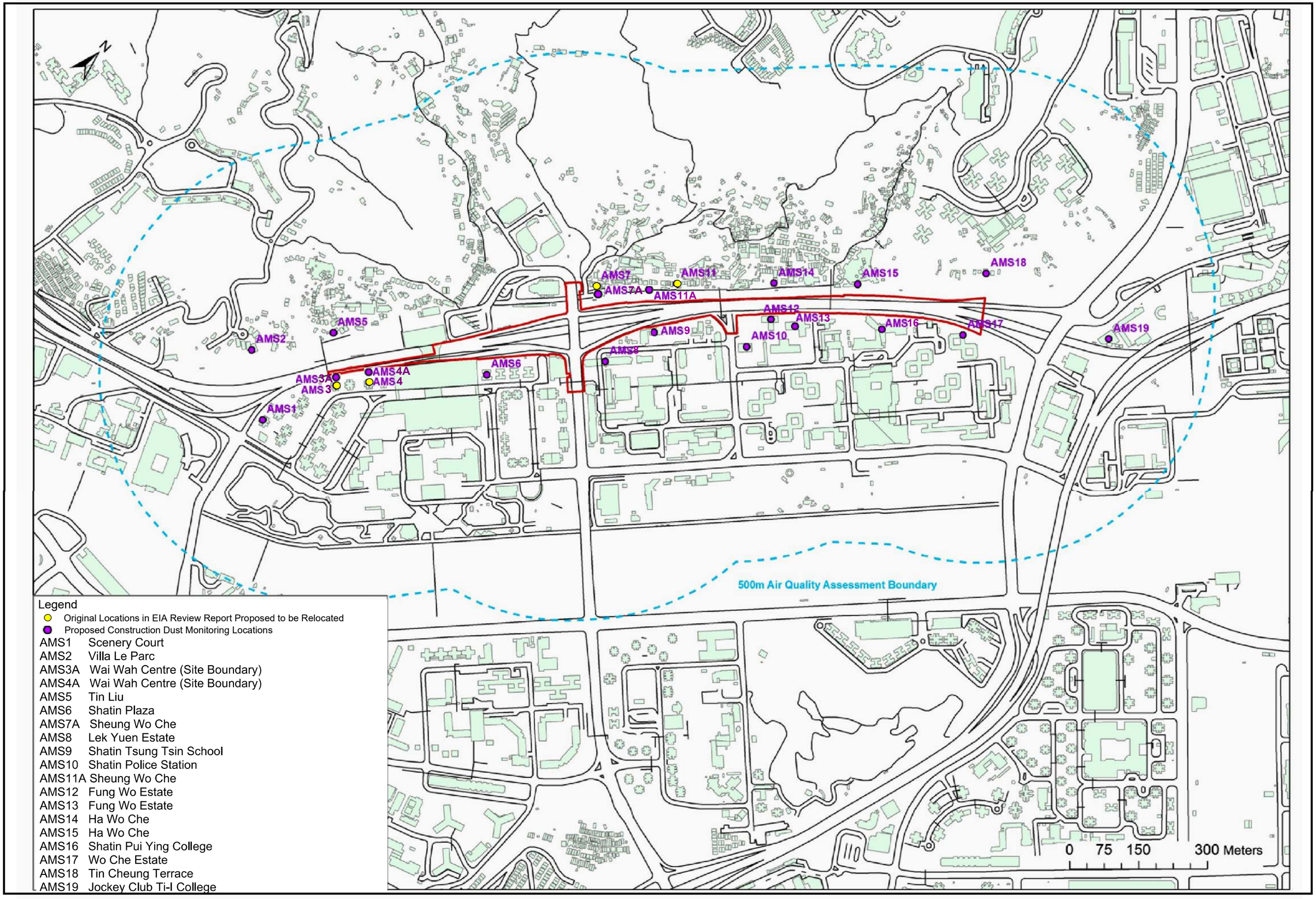


Figure 2a Air Quality Monitoring Locations

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
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Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Figure 2b

Noise Monitoring Locations

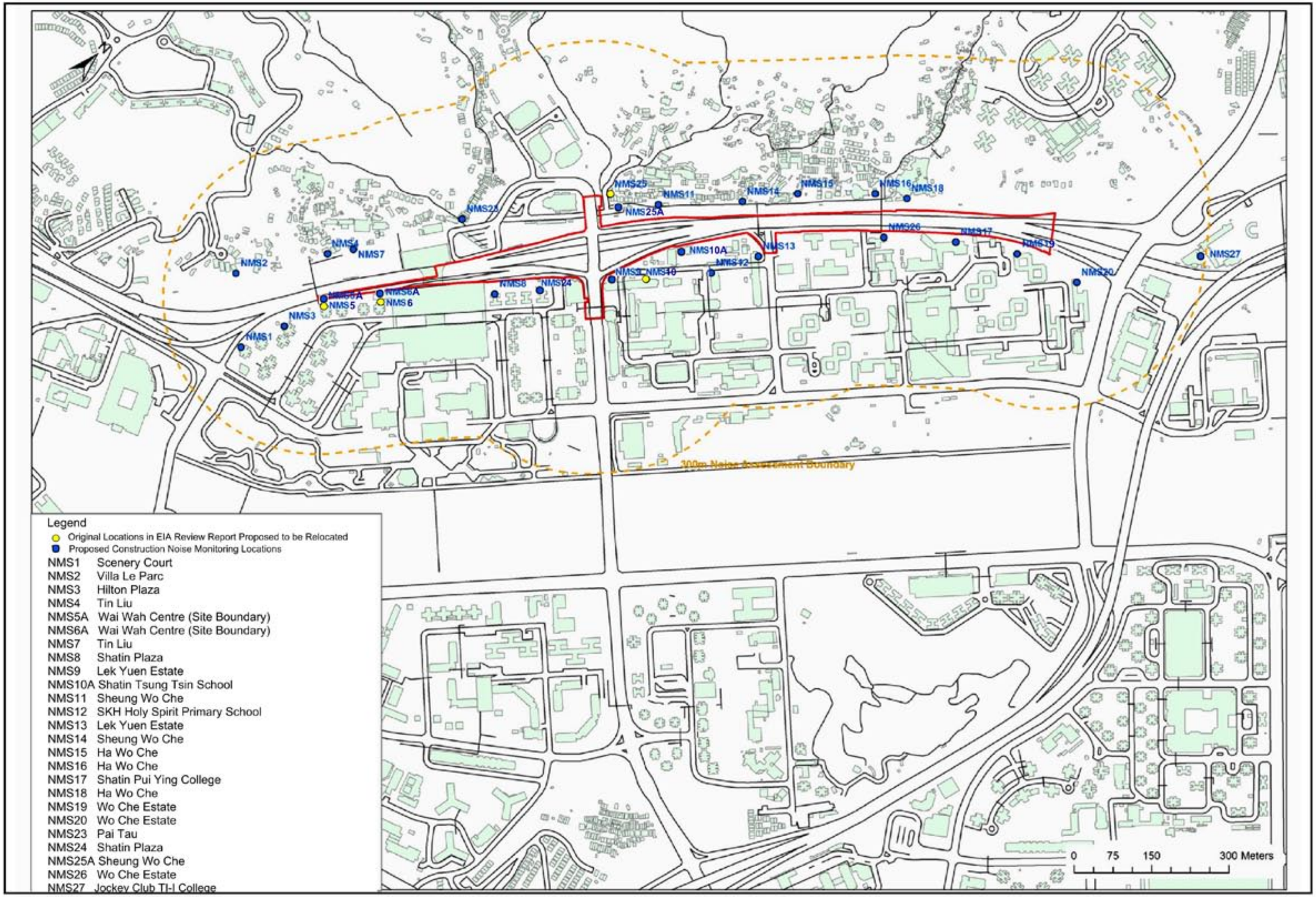

Figure 2b Noise Monitoring Locations

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
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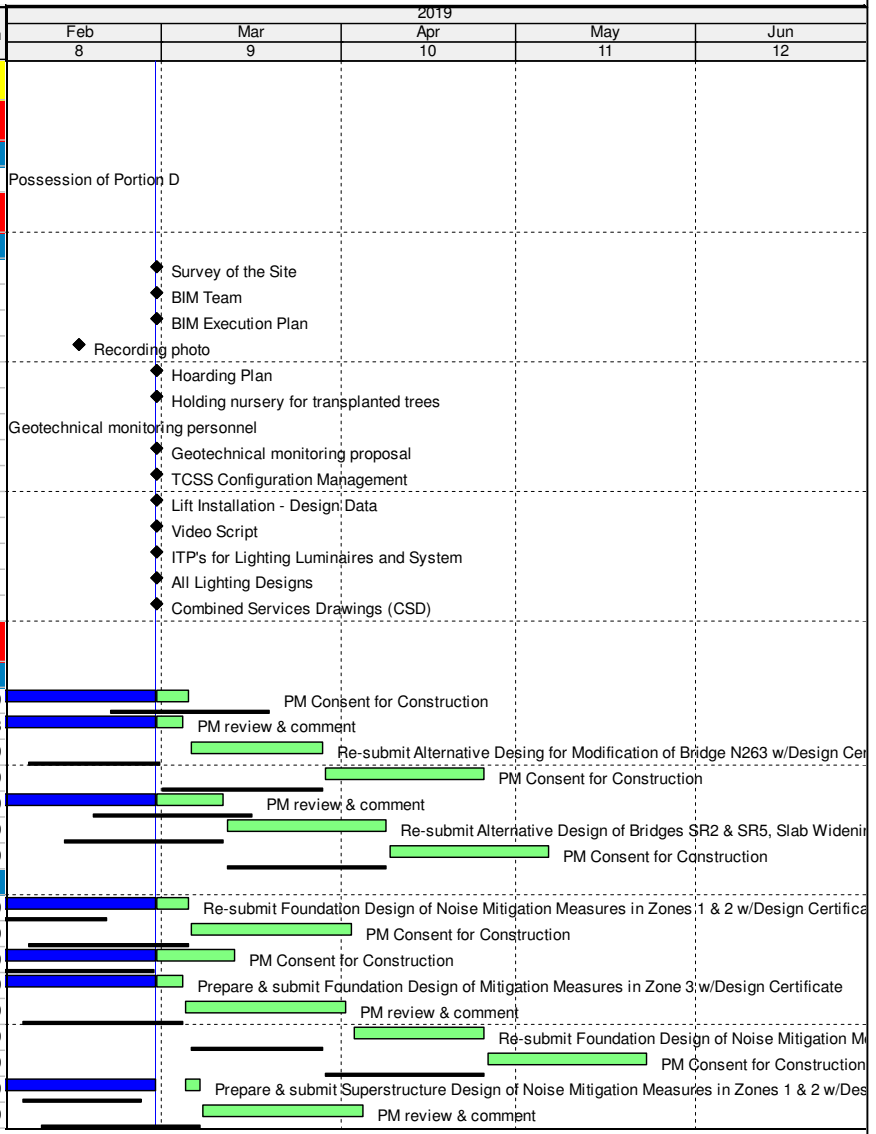
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix A

Construction Programme

中國中鐵–中鐵一局–振華工程聯營
CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP4) Start	DWP (AP4) Finish
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road							
PROJECT KEY DATES							
POSSESSION OF SITE							
KEY1050	Possession of Portion D	0	0	23-Jan-19 A		31-Jan-19	
PRELIMINARIES & GENERAL REQUIREMENT							
GENERAL SUBMISSION							
SUB1115	Survey of the Site	0	0	28-Feb-19*		31-Jan-19	
SUB1153	BIM Team	0	0	28-Feb-19*		31-Jan-19	
SUB1155	BIM Execution Plan	0	0	28-Feb-19*		31-Jan-19	
SUB1180	Recording photo	0	0	15-Feb-19 A		31-Jan-19	
SUB1200	Hoarding Plan	0	0	28-Feb-19*		31-Jan-19	
SUB1305	Holding nursery for transplanted trees	0	0	28-Feb-19*		31-Jan-19	
SUB1307	Geotechnical monitoring personnel	0	0	22-Jan-19 A		31-Jan-19	
SUB1309	Geotechnical monitoring proposal	0	0	28-Feb-19*		31-Jan-19	
SUB1343	TCSS Configuration Management	0	0	28-Feb-19*		31-Jan-19	
SUB1347	Lift Installation - Design Data	0	0	28-Feb-19*		31-Jan-19	
SUB1360	Video Script	0	0	28-Feb-19*		31-Jan-19	
SUB1403	ITP's for Lighting Luminaires and System	0	0	28-Feb-19*		31-Jan-19	
SUB1405	All Lighting Designs	0	0	28-Feb-19*		31-Jan-19	
SUB1410	Combined Services Drawings (CSD)	0	0	28-Feb-19*		31-Jan-19	
DESIGN SUBMISSION							
STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)							
DES1070	PM Consent for Construction	28	6	06-Nov-18 A	05-Mar-19	20-Feb-19	19-Mar-19
DES1090	PM review & comment	28	5	07-Dec-18 A	04-Mar-19	05-Oct-18	01-Nov-18
DES1100	Re-submit Alternative Desing for Modification of Bridg	23	23	06-Mar-19	28-Mar-19	06-Feb-19	28-Feb-19
DES1110	PM Consent for Construction	28	28	29-Mar-19	25-Apr-19	01-Mar-19	28-Mar-19
DES1130	PM review & comment	28	12	05-Jan-19 A	11-Mar-19	17-Feb-19	16-Mar-19
DES1140	Re-submit Alternative Design of Bridges SR2 & SR5, S	28	28	12-Mar-19	08-Apr-19	12-Feb-19	11-Mar-19
DES1150	PM Consent for Construction	28	28	09-Apr-19	06-May-19	12-Mar-19	08-Apr-19
NOISE MITIGATION MEASURES							
DES1180	Re-submit Foundation Design of Noise Mitigation Mea	22	6	24-Nov-18 A	05-Mar-19	29-Jan-19	19-Feb-19
DES1190	PM Consent for Construction	28	28	06-Mar-19	02-Apr-19	06-Feb-19	05-Mar-19
DES1230	PM Consent for Construction	28	14	02-Jan-19 A	13-Mar-19	31-Jan-19	27-Feb-19
DES1240	Prepare & submit Foundation Design of Mitigation Mea	21	5	26-Nov-18 A	04-Mar-19	31-Dec-18	20-Jan-19
DES1250	PM review & comment	28	28	05-Mar-19	01-Apr-19	05-Feb-19	04-Mar-19
DES1260	Re-submit Foundation Design of Noise Mitigation Mea	23	23	03-Apr-19	25-Apr-19	06-Mar-19	28-Mar-19
DES1270	PM Consent for Construction	28	28	26-Apr-19	23-May-19	29-Mar-19	25-Apr-19
DES1280	Prepare & submit Superstructure Design of Noise Miti	21	3	14-Jan-19 A	07-Mar-19	05-Feb-19	25-Feb-19
DES1290	PM review & comment	28	28	08-Mar-19	04-Apr-19	08-Feb-19	07-Mar-19

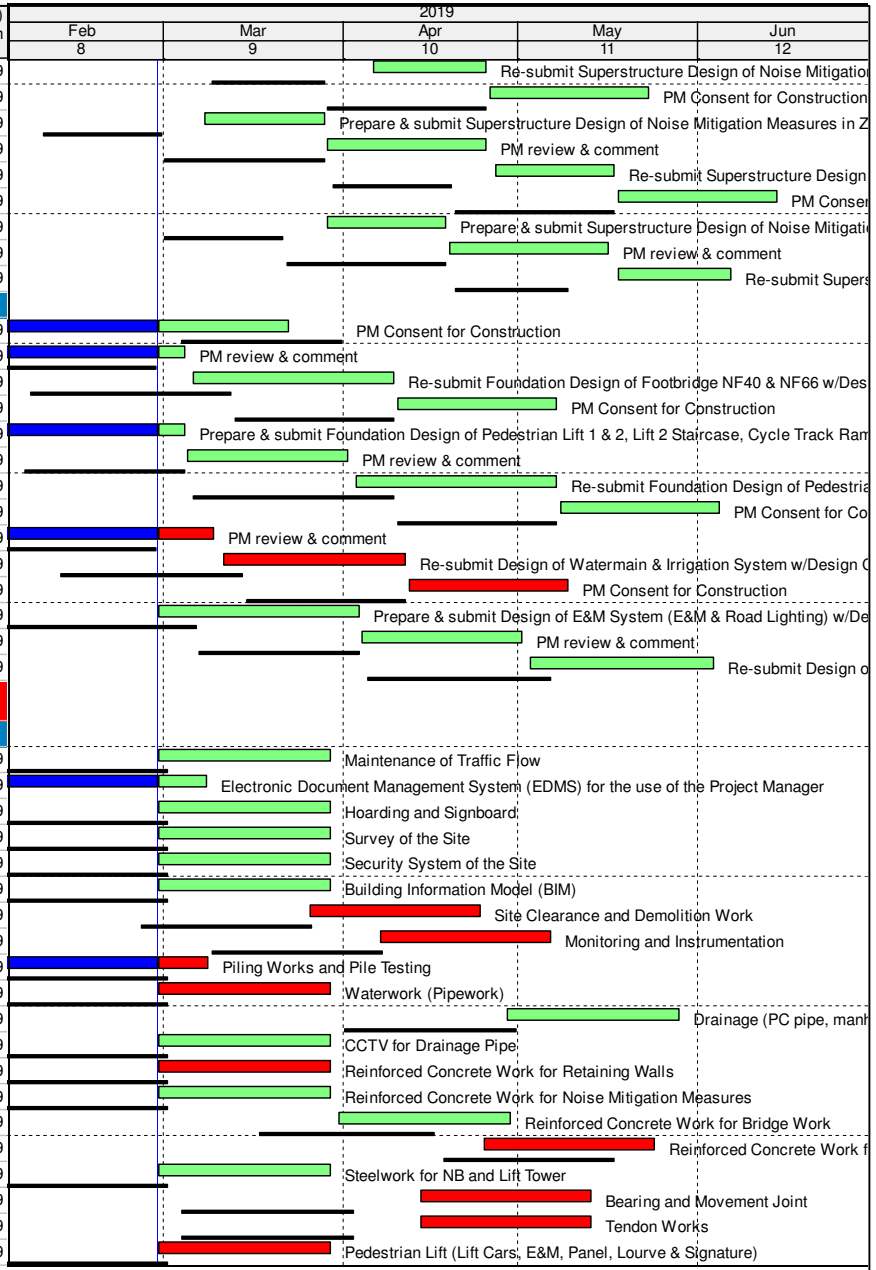


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (28/02/19)
Page 1 of 5

Date	Revision	Checked	Appr...
08-Mar-19	3MRP DWP 1902	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP4) Start	DWP (AP4) Finish
DES1300	Re-submit Superstructure Design of Noise Mitigation I	20	20	06-Apr-19	25-Apr-19	09-Mar-19	28-Mar-19
DES1310	PM Consent for Construction	28	28	26-Apr-19	23-May-19	29-Mar-19	25-Apr-19
DES1320	Prepare & submit Superstructure Design of Noise Miti	21	21	08-Mar-19	28-Mar-19	08-Feb-19	28-Feb-19
DES1330	PM review & comment	28	28	29-Mar-19	25-Apr-19	01-Mar-19	28-Mar-19
DES1340	Re-submit Superstructure Design of Noise Mitigation I	21	21	27-Apr-19	17-May-19	30-Mar-19	19-Apr-19
DES1350	PM Consent for Construction	28	28	18-May-19	14-Jun-19	20-Apr-19	17-May-19
DES1360	Prepare & submit Superstructure Design of Noise Miti	21	21	29-Mar-19	18-Apr-19	01-Mar-19	21-Mar-19
DES1370	PM review & comment	28	28	19-Apr-19	16-May-19	22-Mar-19	18-Apr-19
DES1380	Re-submit Superstructure Design of Noise Mitigation I	20	20	18-May-19	06-Jun-19	20-Apr-19	09-May-19
REMAINING WORKS							
DES1430	PM Consent for Construction	28	22	11-Jan-19 A	22-Mar-19	04-Mar-19	31-Mar-19
DES1450	PM review & comment	28	5	02-Jan-19 A	04-Mar-19	31-Jan-19	27-Feb-19
DES1460	Re-submit Foundation Design of Footbridge NF40 & N	35	35	06-Mar-19	09-Apr-19	06-Feb-19	12-Mar-19
DES1470	PM Consent for Construction	28	28	10-Apr-19	07-May-19	13-Mar-19	09-Apr-19
DES1480	Prepare & submit Foundation Design of Pedestrian Lift	21	5	26-Nov-18 A	04-Mar-19	31-Dec-18	20-Jan-19
DES1490	PM review & comment	28	28	05-Mar-19	01-Apr-19	05-Feb-19	04-Mar-19
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2,	35	35	03-Apr-19	07-May-19	06-Mar-19	09-Apr-19
DES1510	PM Consent for Construction	28	28	08-May-19	04-Jun-19	10-Apr-19	07-May-19
DES1530	PM review & comment	28	10	02-Jan-19 A	09-Mar-19	31-Jan-19	27-Feb-19
DES1540	Re-submit Design of Watermain & Irrigation System w	32	32	11-Mar-19	11-Apr-19	11-Feb-19	14-Mar-19
DES1550	PM Consent for Construction	28	28	12-Apr-19	09-May-19	15-Mar-19	11-Apr-19
DES1560	Prepare & submit Design of E&M System (E&M & Roa	35	35	28-Feb-19	03-Apr-19	31-Jan-19	06-Mar-19
DES1570	PM review & comment	28	28	04-Apr-19	01-May-19	07-Mar-19	03-Apr-19
DES1580	Re-submit Design of E&M System (E&M & Road Lighti	32	32	03-May-19	03-Jun-19	05-Apr-19	06-May-19
SUBLETTING & PROCUREMENT SCHEDULE							
SUBLETTING							
SPS1000	Maintenance of Traffic Flow	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1010	Electronic Document Management System (EDMS) for	30	8	18-Oct-18 A	08-Mar-19*	31-Dec-18	29-Jan-19
SPS1030	Hoarding and Signboard	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1040	Survey of the Site	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1060	Security System of the Site	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1090	Building Information Model (BIM)	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1140	Site Clearance and Demolition Work	30	30	26-Mar-19	24-Apr-19	25-Feb-19	26-Mar-19
SPS1160	Monitoring and Instrumentation	30	30	07-Apr-19	06-May-19	09-Mar-19	07-Apr-19
SPS1170	Piling Works and Pile Testing	30	9	21-Dec-18 A	08-Mar-19	31-Jan-19	01-Mar-19
SPS1200	Waterwork (Pipework)	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	29-Apr-19	28-May-19	01-Apr-19	30-Apr-19
SPS1220	CCTV for Drainage Pipe	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1250	Reinforced Concrete Work for Noise Mitigation Measu	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	31-Mar-19	29-Apr-19	17-Mar-19	16-Apr-19
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF6	30	30	25-Apr-19	24-May-19	18-Apr-19	17-May-19
SPS1290	Steelwork for NB and Lift Tower	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19
SPS1310	Bearing and Movement Joint	30	30	14-Apr-19	13-May-19	04-Mar-19	02-Apr-19
SPS1320	Tendon Works	30	30	14-Apr-19	13-May-19	04-Mar-19	02-Apr-19
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signal	30	30	28-Feb-19	29-Mar-19	31-Jan-19	01-Mar-19



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Actual Level of Effort
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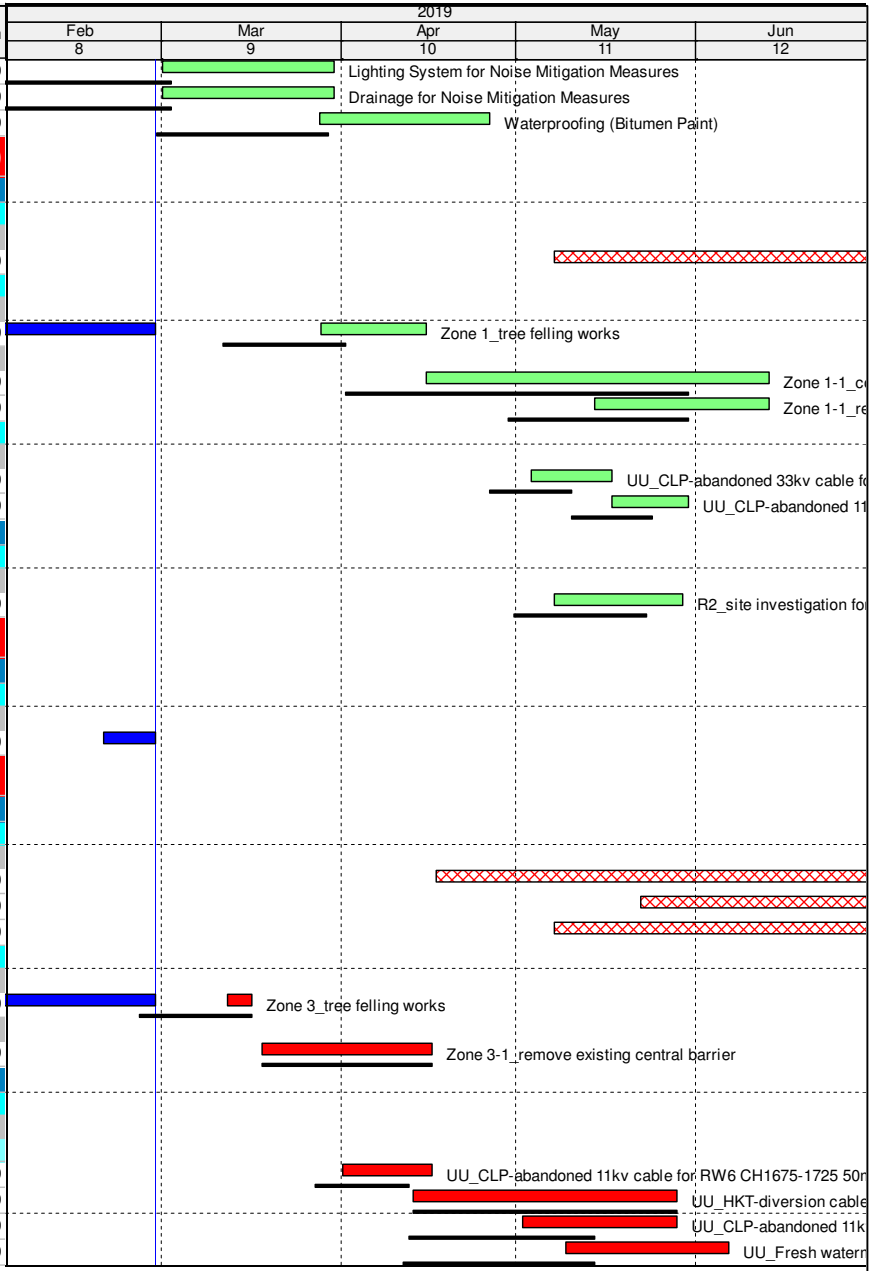
ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

3 Months Rolling Programme (28/02/19)

Page 2 of 5

Date	Revision	Checked	Appr...
08-Mar-19	3MRP DWP 1902	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP4) Start	DWP (AP4) Finish
SPS1420	Lighting System for Noise Mitigation Measures	30	30	01-Mar-19	30-Mar-19	01-Feb-19	02-Mar-19
SPS1440	Drainage for Noise Mitigation Measures	30	30	01-Mar-19	30-Mar-19	01-Feb-19	02-Mar-19
SPS1460	Waterproofing (Bitumen Paint)	30	30	28-Mar-19	26-Apr-19	28-Feb-19	29-Mar-19
WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)							
PRELIMINARIES WORKS							
TEMPORARY TRAFFIC ARRAGEMENT							
TTA PERIOD							
Z1_1410	Construction Zone 1_Stage 1 Southbound structure	278	278	07-May-19	14-Apr-20	30-Apr-19	13-Mar-20
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z1_1290	Zone 1_tree felling works	18	15	25-Jan-19 A	15-Apr-19	11-Mar-19	01-Apr-19
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z1_1270	Zone 1-1_construct temporary road platform along Noi	45	45	15-Apr-19	13-Jun-19	01-Apr-19	30-May-19
Z1_1280	Zone 1-1_remove existing central barrier	21	21	14-May-19	13-Jun-19	29-Apr-19	30-May-19
UTILITIES DIVERSION							
NORTHBOUND							
Z1_1330	UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 :	11	11	03-May-19	17-May-19	26-Apr-19	10-May-19
Z1_1340	UU_CLP-abandoned 11kv cable for R1 & R2 CH1090-	11	11	17-May-19	30-May-19	10-May-19	24-May-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
SOUTHBOUND							
Z1_1050	R2_site investigation for R2-02P & 06P (7nr)	18	18	07-May-19	29-May-19	30-Apr-19	23-May-19
WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z2_1220	Zone 2_tree felling works	18	17	19-Feb-19 A	17-Feb-20	27-Dec-19	17-Jan-20
WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)							
PRELIMINARIES WORKS							
TEMPORARY TRAFFIC ARRAGEMENT							
TTA PERIOD							
Z3_3270	Construction period of Zone 3a_1	349	349	17-Apr-19	22-Jun-20	17-Apr-19	20-May-20
Z3_3340	Construction period of Zone 3c_1	303	303	22-May-19	29-May-20	22-May-19	28-Apr-20
Z3_3400	Construction period of Zone 3b_1	345	345	07-May-19	06-Jul-20	30-Apr-19	30-May-20
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z3_2800	Zone 3_tree felling works	18	5	22-Jan-19 A	16-Mar-19	25-Feb-19	16-Mar-19
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z3_2810	Zone 3-1_remove existing central barrier	21	21	18-Mar-19	16-Apr-19	18-Mar-19	16-Apr-19
BRIDGE AND STRUCTURE WORKS							
PRELIMINARIES WORKS							
UTILITIES DIVERSION							
NORTHBOUND							
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-172	13	13	01-Apr-19	16-Apr-19	27-Mar-19	12-Apr-19
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	13-Apr-19	28-May-19	13-Apr-19	28-May-19
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH18	22	22	02-May-19	28-May-19	12-Apr-19	14-May-19
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23	09-May-19	06-Jun-19	11-Apr-19	14-May-19



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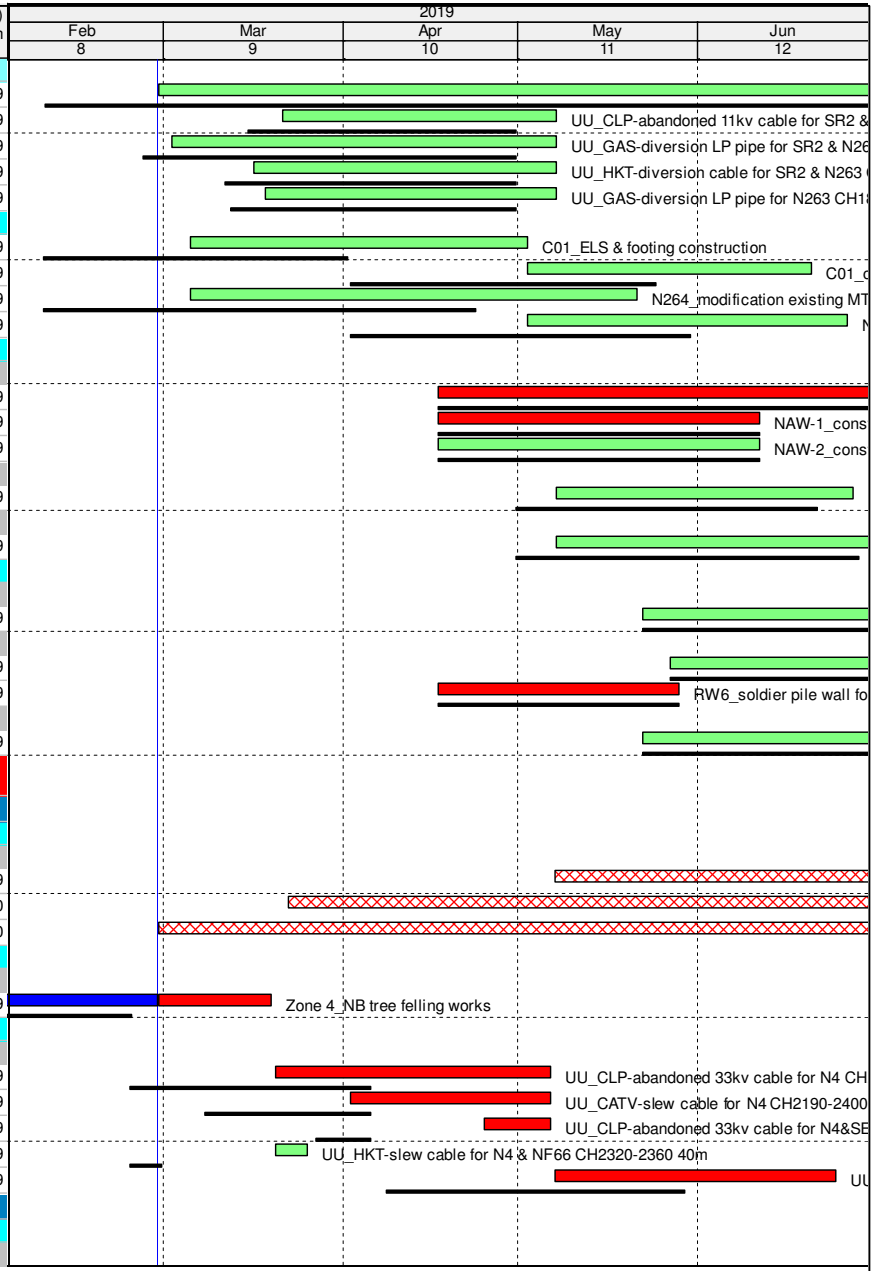
ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

3 Months Rolling Programme (28/02/19)

Page 3 of 5

Date	Revision	Checked	Appr...
08-Mar-19	3MRP DWP 1902	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP4) Start	DWP (AP4) Finish
	SOUTHBOUND						
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850	127	127	28-Feb-19	03-Aug-19	08-Feb-19	16-Jul-19
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH17	35	35	21-Mar-19	07-May-19	15-Mar-19	30-Apr-19
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1	51	51	02-Mar-19	07-May-19	25-Feb-19	30-Apr-19
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-184	39	39	16-Mar-19	07-May-19	11-Mar-19	30-Apr-19
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-1960 13	38	38	18-Mar-19	07-May-19	12-Mar-19	30-Apr-19
	WIDENING FOR NORTH HOLLOW ABUTMENT (N264)						
Z3_4200	C01_ELS & footing construction	45	45	05-Mar-19	02-May-19	08-Feb-19	01-Apr-19
Z3_4210	C01_cloumn construction	40	40	02-May-19	20-Jun-19	02-Apr-19	24-May-19
Z3_4220	N264_modification existing MTRC fencing for deck wi	60	60	05-Mar-19	21-May-19	08-Feb-19	23-Apr-19
Z3_4240	N264_temporary protection MTRC cable	45	45	02-May-19	26-Jun-19	02-Apr-19	30-May-19
	MODIFICATION OF BRIDGE N263						
	RECONSTRUCTION ABUTMENT WALL AT NHA						
Z3_4100	Demolish part of existing NHA wall for construction ne	60	60	17-Apr-19*	03-Jul-19	17-Apr-19	03-Jul-19
Z3_4110	NAW-1_construct ELS & piling platform	42	42	17-Apr-19*	11-Jun-19	17-Apr-19	11-Jun-19
Z3_4150	NAW-2_construct ELS & piling platform	42	42	17-Apr-19	11-Jun-19	17-Apr-19	11-Jun-19
	MODIFICATION EXISTING PIER WALL OF N263						
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m bored	42	42	07-May-19	27-Jun-19	30-Apr-19	21-Jun-19
	MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL						
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	07-May-19	05-Jul-19	30-Apr-19	28-Jun-19
	RETAINING WALL & SUBWAY						
	RETAINING WALL NO.1						
Z3_4550	RW1_demolish existing retaining structure between B	45	45	22-May-19	16-Jul-19	22-May-19	16-Jul-19
	RETAINING WALL NO.6						
Z3_1218_10(	RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	35	27-May-19	12-Jul-19	27-May-19	12-Jul-19
Z3_1218_10-	RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30	17-Apr-19	28-May-19	17-Apr-19	28-May-19
	MODIFY EXISTING SUBWAY NS30						
Z3_5200	Re-align existing subway NS30	120	120	22-May-19	15-Oct-19	22-May-19	15-Oct-19
	WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)						
	PRELIMINARIES WORKS						
	TEMPORARY TRAFFIC ARRAGEMENT						
	TTA PERIOD						
Z4_1390	Construction Zone 4_Stage 1 Northbound structure	208	208	07-May-19	14-Jan-20	08-Apr-19	16-Dec-19
Z4_1470	Construction Zone 4_NF66 Construction	243	243	22-Mar-19	16-Jan-20	15-Mar-19	09-Jan-20
Z4_1480	Construction Zone 4_NF40 Construction	489	489	28-Feb-19	21-Oct-20	31-Jan-19	24-Sep-20
	PREPARATORY WORKS						
	TREE FELLING/TRANPLANT						
Z4_1320	Zone 4_NB tree felling works	18	17	25-Jan-19 A	19-Mar-19	31-Jan-19	23-Feb-19
	UTILITIES DIVERSION						
	NORTHBOUND						
Z4_1270	UU_CLP-abandoned 33kv cable for N4 CH2100-2350	36	36	20-Mar-19	06-May-19	23-Feb-19	05-Apr-19
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	02-Apr-19	06-May-19	08-Mar-19	05-Apr-19
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-	9	9	25-Apr-19	06-May-19	27-Mar-19	05-Apr-19
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	20-Mar-19	25-Mar-19	23-Feb-19	28-Feb-19
Z4_1360	UU_Fresh watermain for N4 CH2150-2200 77m 600mr	40	40	07-May-19	24-Jun-19	08-Apr-19	29-May-19
	NOISE BARRIER AND SEMI-ENCLOSURE						
	PILE CAP AND FOOTING						
	NORTHBOUND						



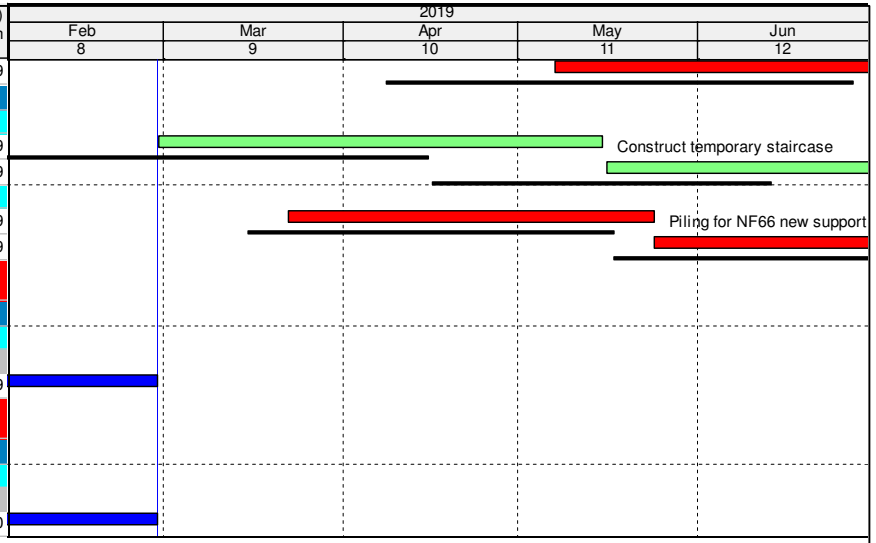
Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

3 Months Rolling Programme (28/02/19)

Date	Revision	Checked	Appr...
08-Mar-19	3MRP DWP 1902	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP4) Start	DWP (AP4) Finish
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (231r	64	64	07-May-19	23-Jul-19	08-Apr-19	27-Jun-19
BRIDGE AND STRUCTURE WORKS							
MODIFICATION WORKS FOR NF40							
NF40_1000	Construct temporary staircase	60	60	28-Feb-19	15-May-19	31-Jan-19	15-Apr-19
NF40_1010	Demolish existing staircase & part of existing footing	45	45	16-May-19	09-Jul-19	16-Apr-19	13-Jun-19
MODIFICATION WORKS FOR NF66							
NF66_1000	Piling for NF66 new support 12nr mini pile	48	48	22-Mar-19	24-May-19	15-Mar-19	17-May-19
NF66_1010	Pile cap construction 2nr	60	60	24-May-19	05-Aug-19	17-May-19	29-Jul-19
WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z5_1710	Zone 5_tree felling works	18	15	22-Jan-19 A	22-Oct-19	21-Sep-19	15-Oct-19
PORTION E (ZONE 5)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z5E_1140	Portion E_tree felling works	30	25	22-Jan-19 A	29-May-20	15-Apr-20	22-May-20



Remaining Level of Effort
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Remaining Work
Critical Remaining Work
Baseline Milestone
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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (28/02/19)
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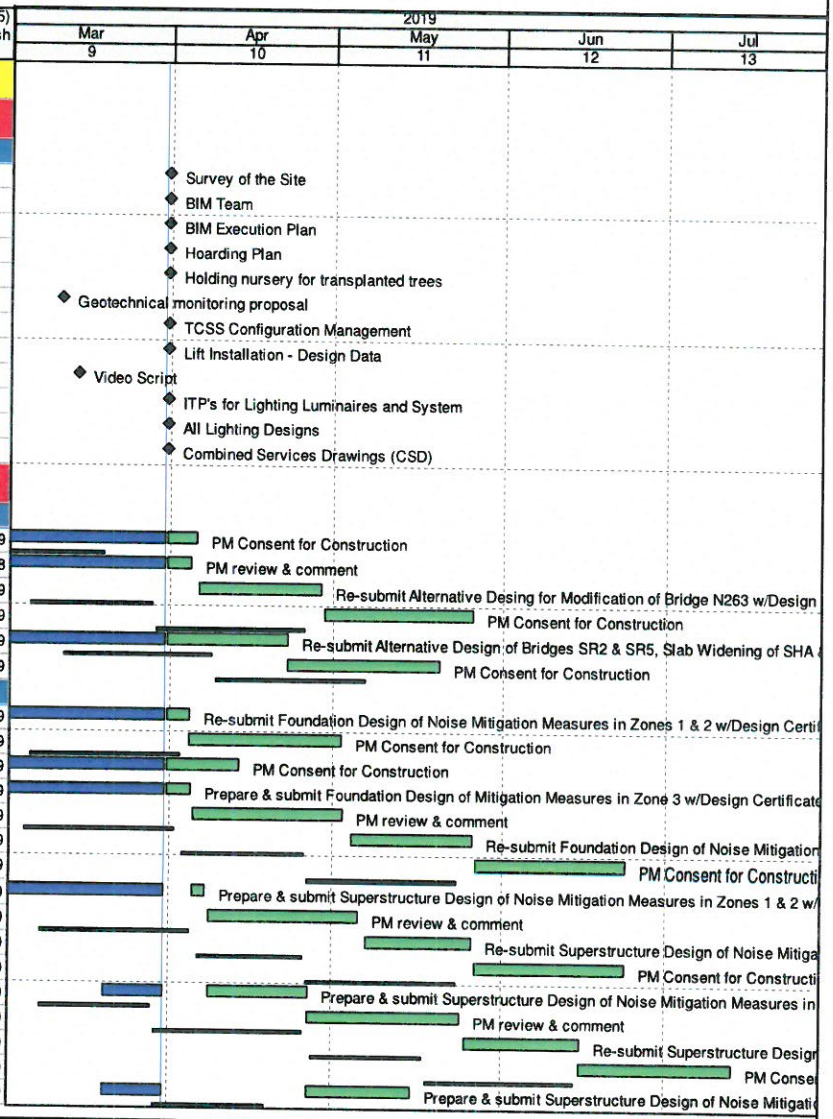
Date	Revision	Checked	Appr...
08-Mar-19	3MRP DWP 1902	Tim	

中國中鐵-中鐵一局-振華工程聯營
CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

12-Apr-19

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP5) Start	DWP (AP5) Finish
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (							
PRELIMINARIES & GENERAL REQUIREMENT							
GENERAL SUBMISSION							
SUB1115	Survey of the Site	0	0	31-Mar-19*		28-Feb-19	
SUB1153	BIM Team	0	0	31-Mar-19*		28-Feb-19	
SUB1155	BIM Execution Plan	0	0	31-Mar-19*		28-Feb-19	
SUB1200	Hoarding Plan	0	0	31-Mar-19*		28-Feb-19	
SUB1305	Holding nursery for transplanted trees	0	0	31-Mar-19*		28-Feb-19	
SUB1309	Geotechnical monitoring proposal	0	0	12-Mar-19 A		28-Feb-19	
SUB1343	TCSS Configuration Management	0	0	31-Mar-19*		28-Feb-19	
SUB1347	Lift Installation - Design Data	0	0	31-Mar-19*		28-Feb-19	
SUB1360	Video Script	0	0	15-Mar-19 A		28-Feb-19	
SUB1403	ITP's for Lighting Luminaires and System	0	0	31-Mar-19*		28-Feb-19	
SUB1405	All Lighting Designs	0	0	31-Mar-19*		28-Feb-19	
SUB1410	Combined Services Drawings (CSD)	0	0	31-Mar-19*		28-Feb-19	
DESIGN SUBMISSION							
STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)							
DES1070	PM Consent for Construction	28	6	06-Nov-18 A	05-Apr-19	20-Feb-19	19-Mar-19
DES1090	PM review & comment	28	5	07-Dec-18 A	04-Apr-19	05-Oct-18	01-Nov-18
DES1100	Re-submit Alternative Desing for Modification of Bridg	23	23	06-Apr-19	28-Apr-19	06-Mar-19	28-Mar-19
DES1110	PM Consent for Construction	28	28	29-Apr-19	26-May-19	29-Mar-19	25-Apr-19
DES1140	Re-submit Alternative Design of Bridges SR2 & SR5, S	28	22	19-Feb-19 A	22-Apr-19	12-Mar-19	08-Apr-19
DES1150	PM Consent for Construction	28	28	22-Apr-19	20-May-19	09-Apr-19	06-May-19
NOISE MITIGATION MEASURES							
DES1180	Re-submit Foundation Design of Noise Mitigation Mea	22	4	24-Nov-18 A	04-Apr-19	29-Jan-19	19-Feb-19
DES1190	PM Consent for Construction	28	28	04-Apr-19	02-May-19	06-Mar-19	02-Apr-19
DES1230	PM Consent for Construction	28	14	02-Jan-19 A	13-Apr-19	31-Jan-19	27-Feb-19
DES1240	Prepare & submit Foundation Design of Mitigation Mea	21	5	26-Nov-18 A	04-Apr-19	31-Dec-18	20-Jan-19
DES1250	PM review & comment	28	28	05-Apr-19	02-May-19	05-Mar-19	01-Apr-19
DES1260	Re-submit Foundation Design of Noise Mitigation Mea	23	23	04-May-19	26-May-19	03-Apr-19	25-Apr-19
DES1270	PM Consent for Construction	28	28	27-May-19	23-Jun-19	26-Apr-19	23-May-19
DES1280	Prepare & submit Superstructure Design of Noise Miti	21	3	14-Jan-19 A	07-Apr-19	05-Feb-19	25-Feb-19
DES1290	PM review & comment	28	28	08-Apr-19	05-May-19	08-Mar-19	04-Apr-19
DES1300	Re-submit Superstructure Design of Noise Mitigation I	20	20	07-May-19	26-May-19	06-Apr-19	25-Apr-19
DES1310	PM Consent for Construction	28	28	27-May-19	23-Jun-19	26-Apr-19	23-May-19
DES1320	Prepare & submit Superstructure Design of Noise Miti	21	19	20-Mar-19 A	26-Apr-19	08-Mar-19	28-Mar-19
DES1330	PM review & comment	28	28	26-Apr-19	24-May-19	29-Mar-19	25-Apr-19
DES1340	Re-submit Superstructure Design of Noise Mitigation I	21	21	25-May-19	15-Jun-19	27-Apr-19	17-May-19
DES1350	PM Consent for Construction	28	28	15-Jun-19	13-Jul-19	18-May-19	14-Jun-19
DES1360	Prepare & submit Superstructure Design of Noise Miti	21	19	20-Mar-19 A	15-May-19	29-Mar-19	18-Apr-19



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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/03/19)
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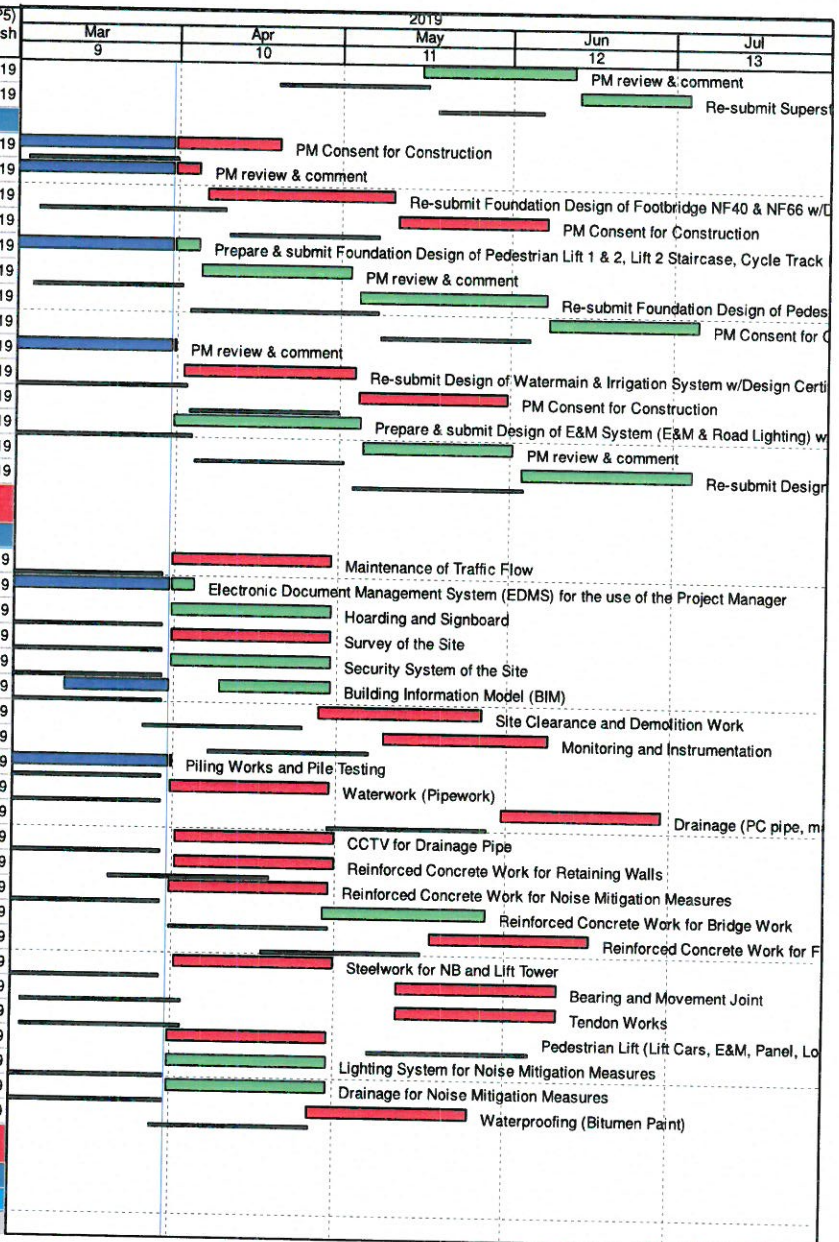
Date	Revision	Checked	Appr...
09-Apr-19	3MRP DWP 1903	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP5) Start	DWP (AP5) Finish
DES1370	PM review & comment	28	28	15-May-19	12-Jun-19	19-Apr-19	16-May-19
DES1380	Re-submit Superstructure Design of Noise Mitigation I	20	20	13-Jun-19	03-Jul-19	18-May-19	06-Jun-19
REMAINING WORKS							
DES1430	PM Consent for Construction	28	20	11-Jan-19 A	19-Apr-19	04-Mar-19	31-Mar-19
DES1450	PM review & comment	28	5	02-Jan-19 A	04-Apr-19	31-Jan-19	27-Feb-19
DES1460	Re-submit Foundation Design of Footbridge NF40 & N	35	35	06-Apr-19	10-May-19	06-Mar-19	09-Apr-19
DES1470	PM Consent for Construction	28	28	11-May-19	07-Jun-19	10-Apr-19	07-May-19
DES1480	Prepare & submit Foundation Design of Pedestrian Lift	21	5	26-Nov-18 A	04-Apr-19	31-Dec-18	20-Jan-19
DES1490	PM review & comment	28	28	05-Apr-19	02-May-19	05-Mar-19	01-Apr-19
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2,	35	35	04-May-19	07-Jun-19	03-Apr-19	07-May-19
DES1510	PM Consent for Construction	28	28	08-Jun-19	05-Jul-19	08-May-19	04-Jun-19
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Mar-19	31-Jan-19	27-Feb-19
DES1540	Re-submit Design of Watermain & Irrigation System w	32	32	02-Apr-19	03-May-19	02-Mar-19	02-Apr-19
DES1550	PM Consent for Construction	28	28	04-May-19	31-May-19	03-Apr-19	30-Apr-19
DES1560	Prepare & submit Design of E&M System (E&M & Roa	35	35	31-Mar-19	04-May-19	28-Feb-19	03-Apr-19
DES1570	PM review & comment	28	28	05-May-19	01-Jun-19	04-Apr-19	01-May-19
DES1580	Re-submit Design of E&M System (E&M & Road Lighti	32	32	03-Jun-19	04-Jul-19	03-May-19	03-Jun-19
SUBLETTING & PROCUREMENT SCHEDULE							
SUBLETTING							
SPS1000	Maintenance of Traffic Flow	30	30	31-Mar-19	29-Apr-19	28-Feb-19	29-Mar-19
SPS1010	Electronic Document Management System (EDMS) for	30	5	18-Oct-18 A	04-Apr-19*	31-Dec-18	29-Jan-19
SPS1030	Hoarding and Signboard	30	30	31-Mar-19	29-Apr-19	28-Feb-19	29-Mar-19
SPS1040	Survey of the Site	30	30	31-Mar-19	29-Apr-19	28-Feb-19	29-Mar-19
SPS1060	Security System of the Site	30	30	31-Mar-19	29-Apr-19	28-Feb-19	29-Mar-19
SPS1090	Building Information Model (BIM)	30	21	12-Mar-19 A	29-Apr-19	28-Feb-19	29-Mar-19
SPS1140	Site Clearance and Demolition Work	30	30	27-Apr-19	27-May-19	26-Mar-19	24-Apr-19
SPS1160	Monitoring and Instrumentation	30	30	09-May-19	08-Jun-19	07-Apr-19	06-May-19
SPS1170	Piling Works and Pile Testing	30	1	21-Dec-18 A	31-Mar-19	28-Feb-19	29-Mar-19
SPS1200	Waterwork (Pipework)	30	30	31-Mar-19	29-Apr-19	28-Feb-19	29-Mar-19
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	31-May-19	29-Jun-19	29-Apr-19	28-May-19
SPS1220	CCTV for Drainage Pipe	30	30	01-Apr-19	30-Apr-19	28-Feb-19	29-Mar-19
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	01-Apr-19	30-Apr-19	20-Mar-19	18-Apr-19
SPS1250	Reinforced Concrete Work for Noise Mitigation Measu	30	30	31-Mar-19	29-Apr-19	28-Feb-19	29-Mar-19
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	28-Apr-19	28-May-19	31-Mar-19	29-Apr-19
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF6	30	30	18-May-19	16-Jun-19	17-Apr-19	16-May-19
SPS1290	Steelwork for NB and Lift Tower	30	30	01-Apr-19	30-Apr-19	28-Feb-19	29-Mar-19
SPS1310	Bearing and Movement Joint	30	30	12-May-19	10-Jun-19	04-Mar-19	02-Apr-19
SPS1320	Tendon Works	30	30	12-May-19	10-Jun-19	04-Mar-19	02-Apr-19
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signal	30	30	31-Mar-19	29-Apr-19	07-May-19	05-Jun-19
SPS1420	Lighting System for Noise Mitigation Measures	30	30	31-Mar-19	29-Apr-19	01-Mar-19	30-Mar-19
SPS1440	Drainage for Noise Mitigation Measures	30	30	31-Mar-19	29-Apr-19	01-Mar-19	30-Mar-19
SPS1460	Waterproofing (Bitumen Paint)	30	30	26-Apr-19	25-May-19	28-Mar-19	26-Apr-19
WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)							
PRELIMINARIES WORKS							
TEMPORARY TRAFFIC ARRAGEMENT							
TTA PERIOD							



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Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/03/19)
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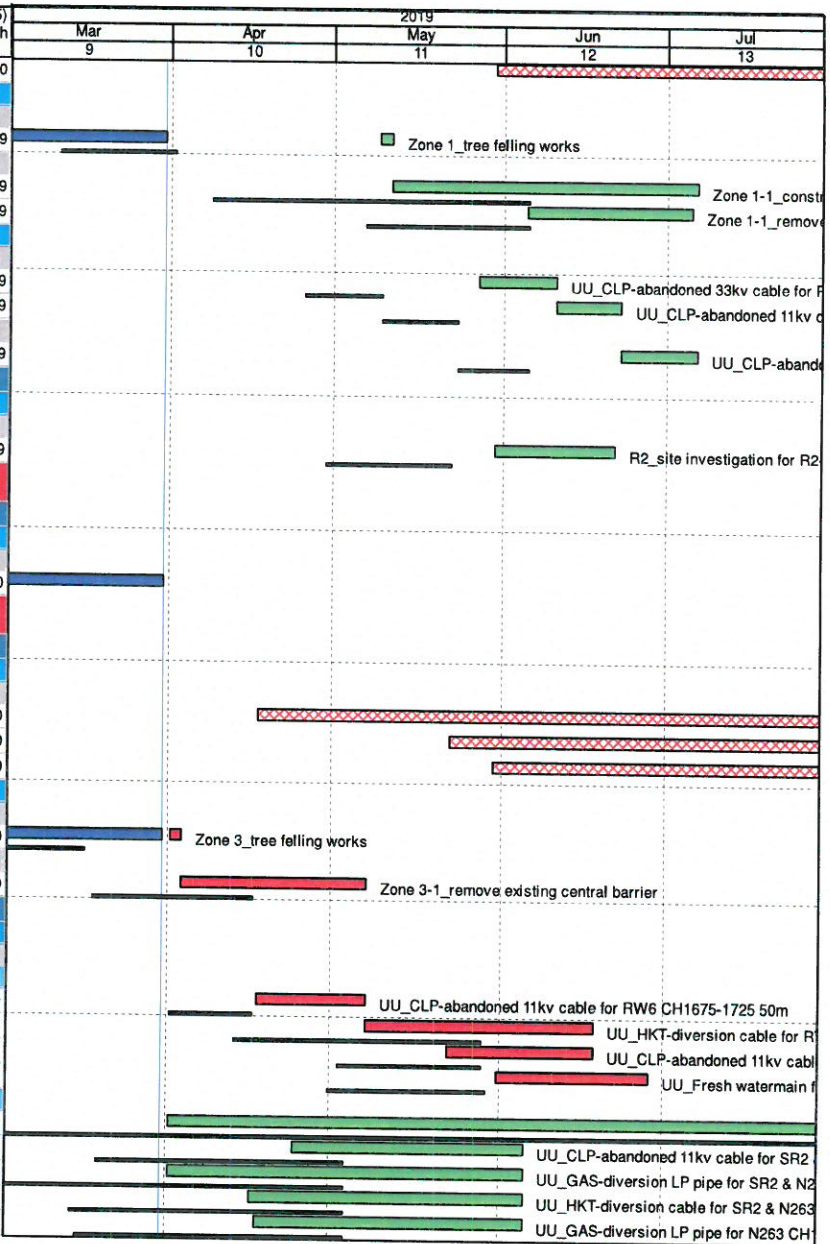
Date	Revision	Checked	Appr...
09-Apr-19	3MRP DWP 1903	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP5) Start	DWP (AP5) Finish
Z1_1410	Construction Zone 1_Stage 1 Southbound structure	283	283	30-May-19	14-May-20	29-Apr-19	14-Apr-20
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z1_1290	Zone 1_tree felling works	18	3	25-Jan-19 A	11-May-19	11-Mar-19	01-Apr-19
MODIFICATION EXISTING ROAD/TEMPORARY RO AD							
Z1_1270	Zone 1-1_construct temporary road platform along Noı	45	45	11-May-19	06-Jul-19	08-Apr-19	05-Jun-19
Z1_1280	Zone 1-1_remove existing central barrier	21	21	05-Jun-19	05-Jul-19	06-May-19	05-Jun-19
UTILITIES DIVERSION							
NORTHBOUND							
Z1_1330	UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 :	11	11	27-May-19	10-Jun-19	25-Apr-19	09-May-19
Z1_1340	UU_CLP-abandoned 11kv cable for R1 & R2 CH1090-	11	11	10-Jun-19	22-Jun-19	09-May-19	23-May-19
SOUTHBOUND							
Z1_1370	UU_CLP-abandoned 33kv cable for R2 CH1100-1130 :	11	11	22-Jun-19	06-Jul-19	23-May-19	05-Jun-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
SOUTHBOUND							
Z1_1050	R2_site investigation for R2-02P & 06P (7nr)	18	18	30-May-19	21-Jun-19	29-Apr-19	22-May-19
WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z2_1220	Zone 2_tree felling works	18	4	19-Feb-19 A	16-Mar-20	24-Jan-20	17-Feb-20
WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)							
PRELIMINARIES WORKS							
TEMPORARY TRAFFIC ARRAGEMENT							
TTA PERIOD							
Z3_3270	Construction period of Zone 3a_1	374	374	17-Apr-19	23-Jul-20	17-Apr-19	20-May-20
Z3_3340	Construction period of Zone 3c_1	328	328	22-May-19	29-Jun-20	22-May-19	29-May-20
Z3_3400	Construction period of Zone 3b_1	350	350	30-May-19	03-Aug-20	06-May-19	30-May-20
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z3_2800	Zone 3_tree felling works	18	2	22-Jan-19 A	03-Apr-19	25-Feb-19	16-Mar-19
MODIFICATION EXISTING ROAD/TEMPORARY RO AD							
Z3_2810	Zone 3-1_remove existing central barrier	21	21	03-Apr-19	07-May-19	18-Mar-19	16-Apr-19
BRIDGE AND STRUCTURE WORKS							
PRELIMINARIES WORKS							
UTILITIES DIVERSION							
NORTHBOUND							
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-172	13	13	17-Apr-19	07-May-19	01-Apr-19	16-Apr-19
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	07-May-19	18-Jun-19	13-Apr-19	28-May-19
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH18	22	22	22-May-19	18-Jun-19	02-May-19	28-May-19
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23	31-May-19	28-Jun-19	30-Apr-19	29-May-19
SOUTHBOUND							
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850	127	127	01-Apr-19	04-Sep-19	28-Feb-19	03-Aug-19
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH17	35	35	24-Apr-19	05-Jun-19	19-Mar-19	03-May-19
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1	51	51	01-Apr-19	05-Jun-19	28-Feb-19	03-May-19
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-184	39	39	16-Apr-19	05-Jun-19	14-Mar-19	03-May-19
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-1960 13	38	38	17-Apr-19	05-Jun-19	15-Mar-19	03-May-19



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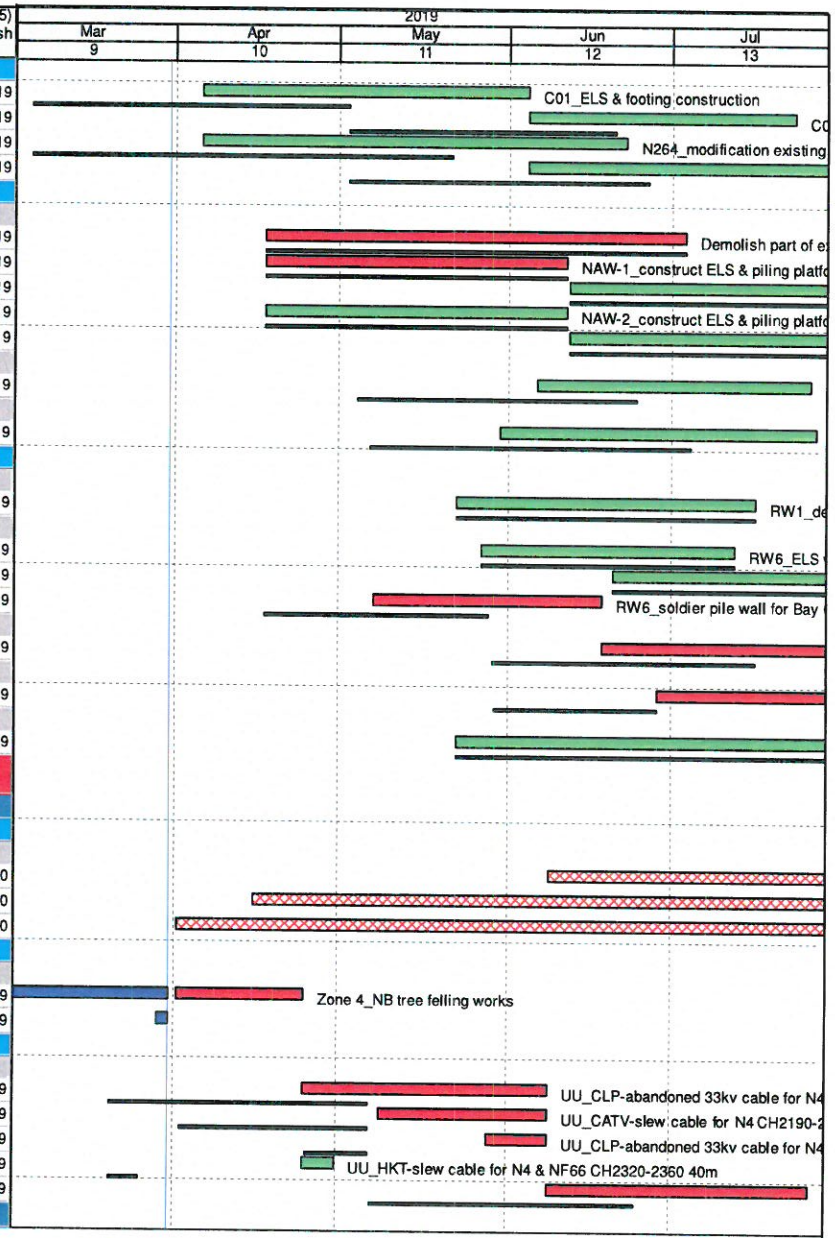
ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/03/19)
Page 3 of 5

Date	Revision	Checked	Appr...
09-Apr-19	3MRP DWP 1903	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP5) Start	DWP (AP5) Finish
WIDENING FOR NORTH HOLLOW ABUTMENT (N264)							
Z3_4200	C01_ELS & footing construction	45	45	05-Apr-19	04-Jun-19	05-Mar-19	02-May-19
Z3_4210	C01_cloumn construction	40	40	04-Jun-19	23-Jul-19	02-May-19	20-Jun-19
Z3_4220	N264_modification existing MTRC fencing for deck wi	60	60	05-Apr-19	22-Jun-19	05-Mar-19	21-May-19
Z3_4240	N264_temporary protection MTRC cable	45	45	04-Jun-19	29-Jul-19	02-May-19	26-Jun-19
MODIFICATION OF BRIDGE N263							
RECONSTRUCTION ABUTMENT WALL AT NHA							
Z3_4100	Demolish part of existing NHA wall for construction ne	60	60	17-Apr-19*	03-Jul-19	17-Apr-19	03-Jul-19
Z3_4110	NAW-1_construct ELS & piling platform	42	42	17-Apr-19*	11-Jun-19	17-Apr-19	11-Jun-19
Z3_4120	NAW-1_piling works for new NHA wall 5nr 1.5m bored	70	70	12-Jun-19	02-Sep-19	12-Jun-19	02-Sep-19
Z3_4150	NAW-2_construct ELS & piling platform	42	42	17-Apr-19	11-Jun-19	17-Apr-19	11-Jun-19
Z3_4160	NAW-2_piling works for new NHA wall 4nr 1.5m bored	56	56	12-Jun-19	16-Aug-19	12-Jun-19	16-Aug-19
MODIFICATION EXISTING PIER WALL OF N263							
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m bored	42	42	06-Jun-19	26-Jul-19	04-May-19	24-Jun-19
MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL							
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	30-May-19	27-Jul-19	06-May-19	04-Jul-19
RETAINING WALL & SUBWAY							
RETAINING WALL NO.1							
Z3_4550	RW1_demolish existing retaining structure between B:	45	45	22-May-19	16-Jul-19	22-May-19	16-Jul-19
RETAINING WALL NO.6							
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	35	27-May-19	12-Jul-19	27-May-19	12-Jul-19
Z3_1218_1010	RW6_base slab construction for Bay 601 to Bay 608	64	64	20-Jun-19	17-Sep-19	20-Jun-19	17-Sep-19
Z3_1218_1040	RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30	07-May-19	18-Jun-19	17-Apr-19	28-May-19
RETAINING WALL NO.7							
Z3_1218_2040	RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35	18-Jun-19	06-Aug-19	29-May-19	16-Jul-19
MODIFY EXISTING RETAINING WALL SR4							
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405 (90m_1	25	25	28-Jun-19	29-Jul-19	29-May-19	28-Jun-19
MODIFY EXISTING SUBWAY NS30							
Z3_5200	Re-align existing subway NS30	120	120	22-May-19	15-Oct-19	22-May-19	15-Oct-19
WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)							
PRELIMINARIES WORKS							
TEMPORARY TRAFFIC ARRAGEMENT							
TTA PERIOD							
Z4_1390	Construction Zone 4_Stage 1 Northbound structure	207	207	08-Jun-19	17-Feb-20	07-May-19	14-Jan-20
Z4_1470	Construction Zone 4_NF66 Construction	243	243	15-Apr-19	10-Feb-20	14-Mar-19	08-Jan-20
Z4_1480	Construction Zone 4_NF40 Construction	489	489	01-Apr-19	23-Nov-20	28-Feb-19	21-Oct-20
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z4_1320	Zone 4_NB tree felling works	18	17	25-Jan-19 A	24-Apr-19	31-Jan-19	23-Feb-19
Z4_1330	Zone 4_SB tree felling works	18	9	29-Mar-19 A	31-Jan-20	05-Dec-19	27-Dec-19
UTILITIES DIVERSION							
NORTHBOUND							
Z4_1270	UU_CLP-abandoned 33kv cable for N4 CH2100-2350	36	36	24-Apr-19	08-Jun-19	20-Mar-19	06-May-19
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	08-May-19	08-Jun-19	02-Apr-19	06-May-19
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-	9	9	28-May-19	08-Jun-19	25-Apr-19	06-May-19
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	24-Apr-19	30-Apr-19	20-Mar-19	25-Mar-19
Z4_1360	UU_Fresh watermain for N4 CH2150-2200 77m 600mr	40	40	08-Jun-19	26-Jul-19	07-May-19	24-Jun-19
NOISE BARRIER AND SEMI-ENCLOSURE							



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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
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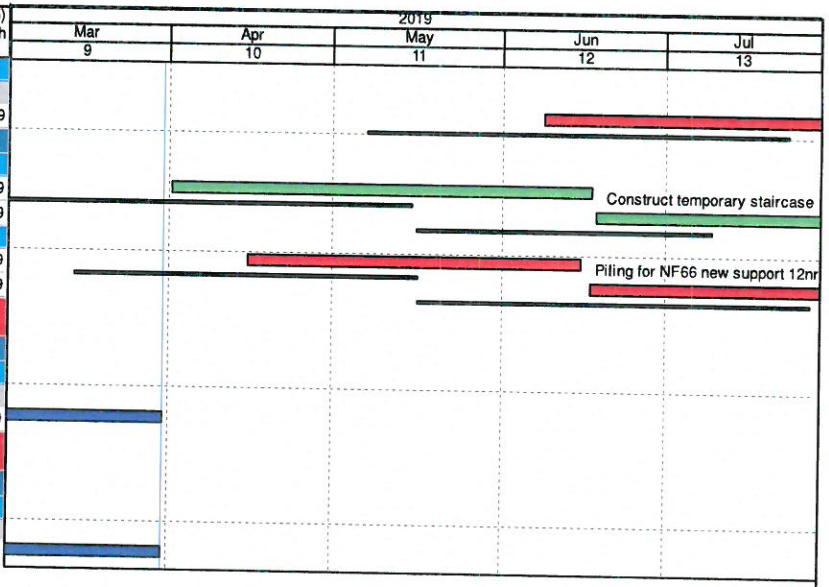
09-Apr-19	3MRP DWP 1903	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP5) Start	DWP (AP5) Finish
PILE CAP AND FOOTING							
NORTHBOUND							
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (231m	64	64	08-Jun-19	23-Aug-19	07-May-19	23-Jul-19
BRIDGE AND STRUCTURE WORKS							
MODIFICATION WORKS FOR NF40							
NF40_1000	Construct temporary staircase	60	60	01-Apr-19	17-Jun-19	28-Feb-19	15-May-19
NF40_1010	Demolish existing staircase & part of existing footing	45	45	18-Jun-19	09-Aug-19	16-May-19	09-Jul-19
MODIFICATION WORKS FOR NF66							
NF66_1000	Piling for NF66 new support 12nr mini pile	48	48	15-Apr-19	15-Jun-19	14-Mar-19	16-May-19
NF66_1010	Pile cap construction 2nr	60	60	17-Jun-19	26-Aug-19	16-May-19	27-Jul-19
WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z5_1710	Zone 5_tree felling works	18	13	22-Jan-19 A	20-Nov-19	21-Sep-19	15-Oct-19
PORTION E (ZONE 5)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z5E_1140	Portion E_tree felling works	30	21	22-Jan-19 A	27-Jun-20	15-Apr-20	22-May-20



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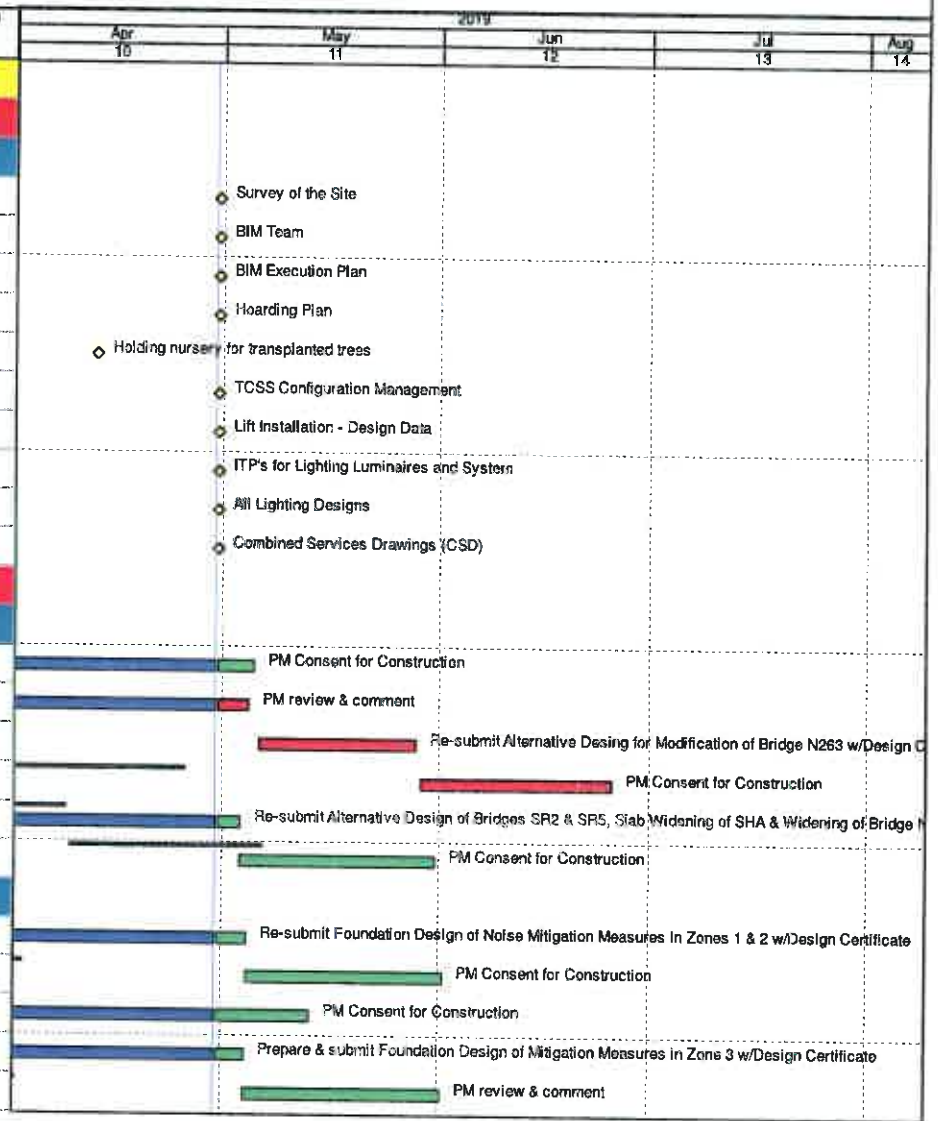
中國中鐵-中鐵一局-振華工程聯營
CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

14-May-19

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP5 Start	AP5 Finish
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Roa							
PRELIMINARIES & GENERAL REQUIREMENT							
GENERAL SUBMISSION							
SUB1115	Survey of the Site	0	0	30-Apr-19*		28-Feb-19	
SUB1153	BIM Team	0	0	30-Apr-19*		28-Feb-19	
SUB1155	BIM Execution Plan	0	0	30-Apr-19*		28-Feb-19	
SUB1200	Hoarding Plan	0	0	30-Apr-19*		28-Feb-19	
SUB1305	Holding nursery for transplanted trees	0	0	10-Apr-19 A		28-Feb-19	
SUB1343	TCSS Configuration Management	0	0	30-Apr-19*		28-Feb-19	
SUB1347	Lift Installation - Design Data	0	0	30-Apr-19*		28-Feb-19	
SUB1403	ITP's for Lighting Luminaires and System	0	0	30-Apr-19*		28-Feb-19	
SUB1405	All Lighting Designs	0	0	30-Apr-19*		28-Feb-19	
SUB1410	Combined Services Drawings (CSD)	0	0	30-Apr-19*		28-Feb-19	
DESIGN SUBMISSION							
STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)							
DES1070	PM Consent for Construction	28	6	06-Nov-18 A	05-May-19	29-Feb-19	19-Mar-19
DES1090	PM review & comment	28	5	07-Dec-18 A	04-May-19	05-Oct-18	01-Nov-18
DES1100	Re-submit Alternative Desing for Modification of Bridge N263 w/Design Certificate	23	23	06-May-19	28-May-19	06-Mar-19	28-Mar-19
DES1110	PM Consent for Construction	28	28	29-May-19	25-Jun-19	29-Mar-19	25-Apr-19
DES1140	Re-submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262	28	3	19-Feb-19 A	03-May-19	12-Mar-19	08-Apr-19
DES1150	PM Consent for Construction	28	28	03-May-19	31-May-19	09-Apr-19	06-May-19
NOISE MITIGATION MEASURES							
DES1180	Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate	22	4	24-Nov-18 A	04-May-19	29-Jan-19	19-Feb-19
DES1190	PM Consent for Construction	28	28	04-May-19	01-Jun-19	06-Mar-19	02-Apr-19
DES1230	PM Consent for Construction	28	14	02-Jan-19 A	13-May-19	31-Jan-19	27-Feb-19
DES1240	Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate	21	4	26-Nov-18 A	04-May-19	31-Dec-18	20-Jan-19
DES1250	PM review & comment	28	28	04-May-19	01-Jun-19	05-Mar-19	01-Apr-19



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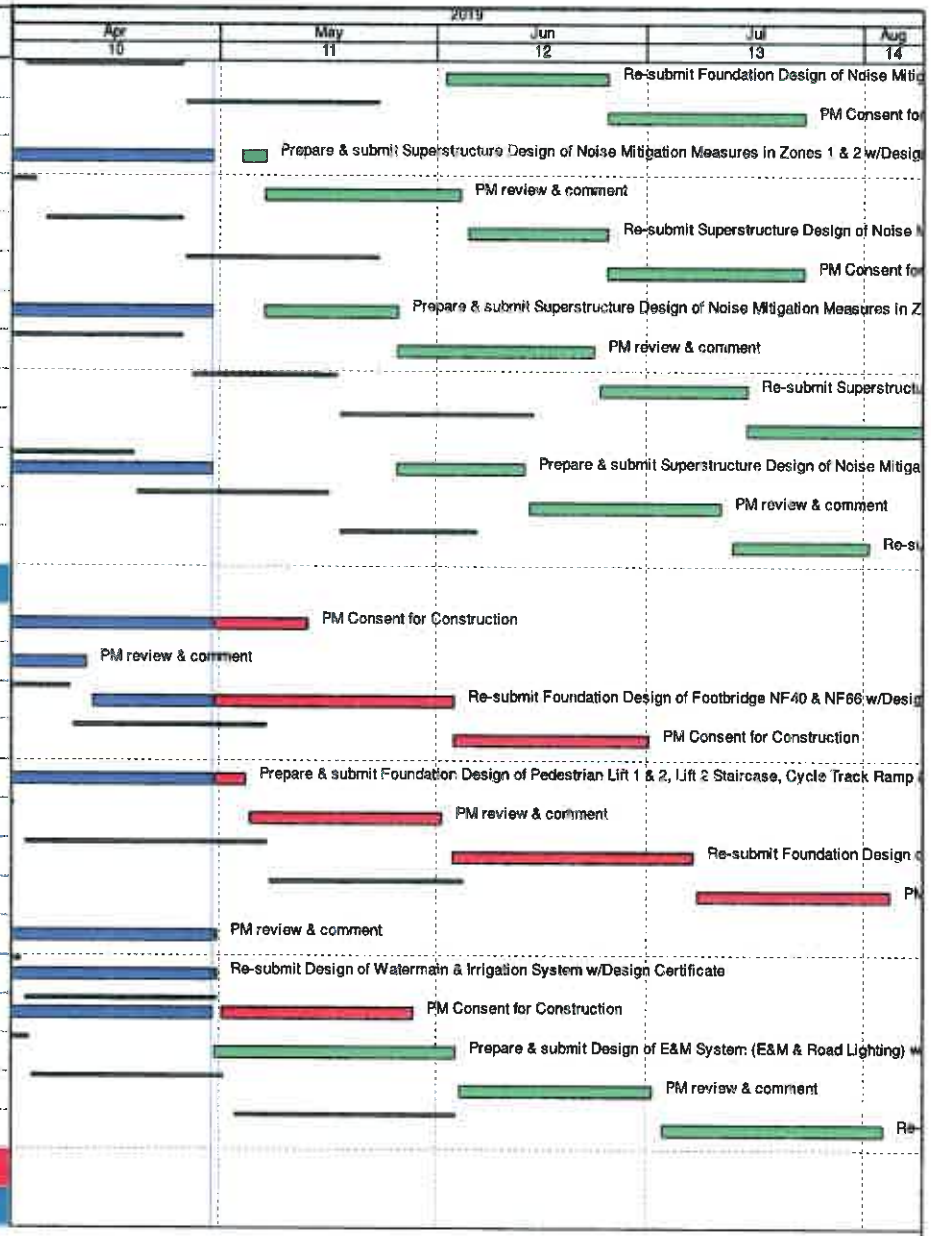
Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP5 Start	AP5 Finish
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23	02-Jun-19	25-Jun-19	03-Apr-19	25-Apr-19
DES1270	PM Consent for Construction	28	28	25-Jun-19	23-Jul-19	25-Apr-19	23-May-19
DES1280	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design	21	3	14-Jan-19 A	07-May-19	05-Feb-19	25-Feb-19
DES1290	PM review & comment	28	28	07-May-19	04-Jun-19	08-Mar-19	04-Apr-19
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design	20	20	05-Jun-19	25-Jun-19	06-Apr-19	25-Apr-19
DES1310	PM Consent for Construction	28	28	25-Jun-19	23-Jul-19	26-Apr-19	23-May-19
DES1320	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	19	20-Mar-19 A	26-May-19	08-Mar-19	28-Mar-19
DES1330	PM review & comment	28	28	26-May-19	23-Jun-19	29-Mar-19	25-Apr-19
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	24-Jun-19	15-Jul-19	27-Apr-19	17-May-19
DES1350	PM Consent for Construction	28	28	15-Jul-19	12-Aug-19	18-May-19	14-Jun-19
DES1360	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	21	19	20-Mar-19 A	13-Jun-19	29-Mar-19	18-Apr-19
DES1370	PM review & comment	28	28	14-Jun-19	11-Jul-19	19-Apr-19	16-May-19
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	20	20	13-Jul-19	01-Aug-19	18-May-19	06-Jun-19
REMAINING WORKS							
DES1430	PM Consent for Construction	28	14	11-Jan-19 A	13-May-19	04-Mar-19	31-Mar-19
DES1450	PM review & comment	28	0	02-Jan-19 A	12-Apr-19 A	31-Jan-19	27-Feb-19
DES1460	Re-submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate	35	34	13-Apr-19 A	03-Jun-19	06-Mar-19	09-Apr-19
DES1470	PM Consent for Construction	28	28	03-Jun-19	01-Jul-19	10-Apr-19	07-May-19
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	5	26-Nov-18 A	04-May-19	31-Dec-18	20-Jan-19
DES1490	PM review & comment	28	28	05-May-19	01-Jun-19	05-Mar-19	01-Apr-19
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry	35	35	03-Jun-19	07-Jul-19	03-Apr-19	07-May-19
DES1510	PM Consent for Construction	28	28	08-Jul-19	04-Aug-19	08-May-19	04-Jun-19
DES1530	PM review & comment	28	1	02-Jan-19 A	30-Apr-19	31-Jan-19	27-Feb-19
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	30-Apr-19	02-Mar-19	02-Apr-19
DES1550	PM Consent for Construction	28	28	21-Jan-19 A	28-May-19	03-Apr-19	30-Apr-19
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	30-Apr-19	03-Jun-19	23-Feb-19	03-Apr-19
DES1570	PM review & comment	28	28	04-Jun-19	01-Jul-19	04-Apr-19	01-May-19
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Jul-19	03-Aug-19	03-May-19	03-Jun-19
SUBLETTING & PROCUREMENT SCHEDULE							
SUBLETTING							



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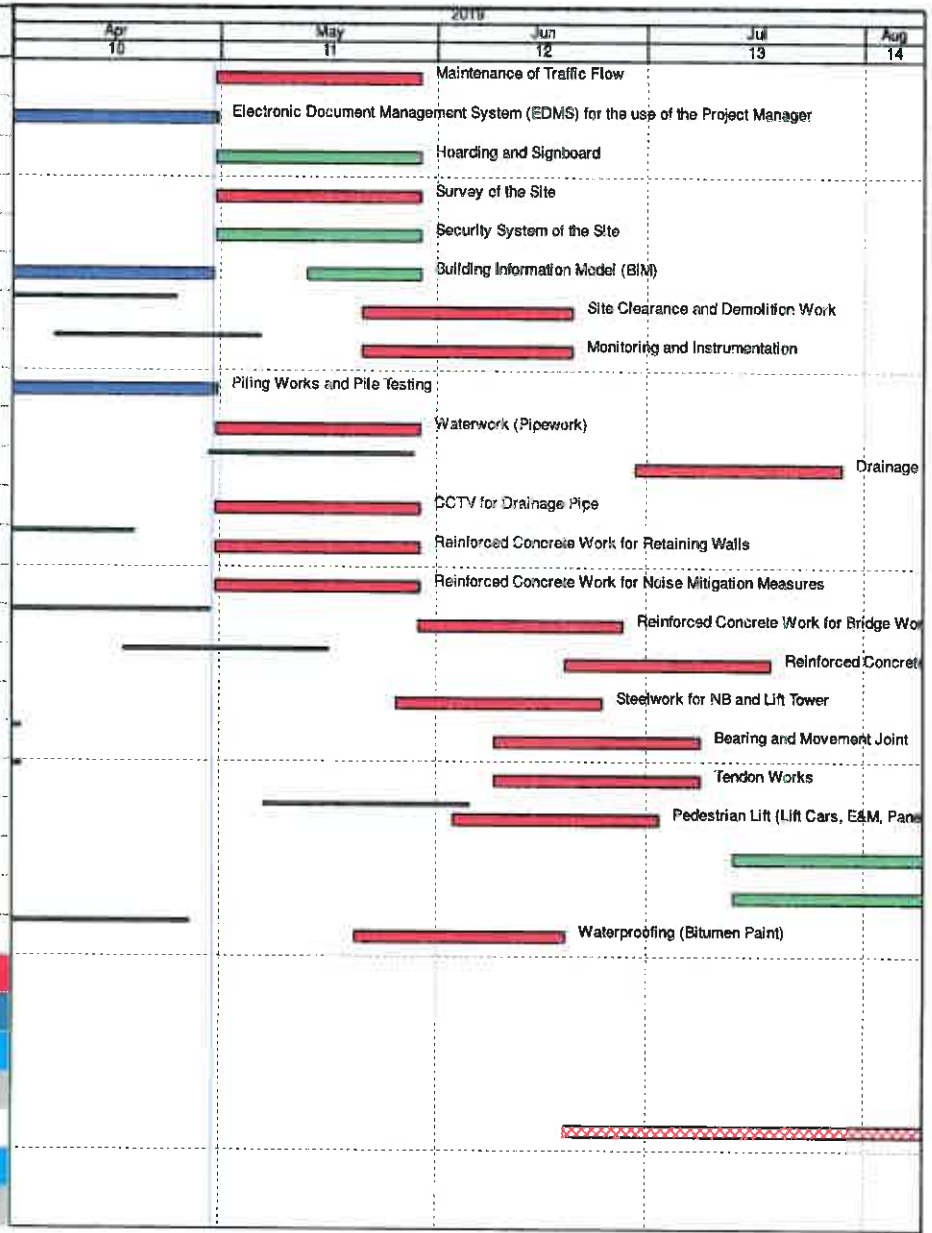
Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	APS Start	APS Finish
SPS1000	Maintenance of Traffic Flow	30	30	30-Apr-19	29-May-19	28-Feb-19	29-Mar-19
SPS1010	Electronic Document Management System (EDMS) for the use of the Project Manager	30	1	18-Oct-18 A	30-Apr-19*	31-Dec-18	29-Jan-19
SPS1030	Hoarding and Signboard	30	30	30-Apr-19	29-May-19	28-Feb-19	29-Mar-19
SPS1040	Survey of the Site	30	30	30-Apr-19	29-May-19	28-Feb-19	29-Mar-19
SPS1060	Security System of the Site	30	30	30-Apr-19	29-May-19	28-Feb-19	29-Mar-19
SPS1090	Building Information Model (BIM)	30	17	12-Mar-19 A	29-May-19	28-Feb-19	29-Mar-19
SPS1140	Site Clearance and Demolition Work	30	30	21-May-19	20-Jun-19	26-Mar-19	24-Apr-19
SPS1160	Monitoring and Instrumentation	30	30	21-May-19	20-Jun-19	07-Apr-19	06-May-19
SPS1170	Piling Works and Pile Testing	30	1	21-Dec-18 A	30-Apr-19	28-Feb-19	29-Mar-19
SPS1200	Waterwork (Pipework)	30	30	30-Apr-19	29-May-19	28-Feb-19	29-Mar-19
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	29-Jun-19	28-Jul-19	29-Apr-19	28-May-19
SPS1220	CCTV for Drainage Pipe	30	30	30-Apr-19	29-May-19	28-Feb-19	29-Mar-19
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	30-Apr-19	29-May-19	20-Mar-19	18-Apr-19
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	30-Apr-19	29-May-19	28-Feb-19	29-Mar-19
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	29-May-19	27-Jun-19	31-Mar-19	29-Apr-19
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF66	30	30	19-Jun-19	18-Jul-19	17-Apr-19	16-May-19
SPS1290	Steelwork for NB and Lift Tower	30	30	26-May-19	24-Jun-19	28-Feb-19	29-Mar-19
SPS1310	Bearing and Movement Joint	30	30	09-Jun-19	08-Jul-19	04-Mar-19	02-Apr-19
SPS1320	Tendon Works	30	30	09-Jun-19	08-Jul-19	04-Mar-19	02-Apr-19
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Louvre & Signature)	30	30	03-Jun-19	02-Jul-19	07-May-19	05-Jun-19
SPS1420	Lighting System for Noise Mitigation Measures	30	30	13-Jul-19	11-Aug-19	01-Mar-19	30-Mar-19
SPS1440	Drainage for Noise Mitigation Measures	30	30	13-Jul-19	11-Aug-19	01-Mar-19	30-Mar-19
SPS1460	Waterproofing (Bitumen Paint)	30	30	20-May-19	19-Jun-19	28-Mar-19	26-Apr-19
	WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZON						
	PRELIMINARIES WORKS						
	TEMPORARY TRAFFIC ARRAGEMENT						
	TTA PERIOD						
Z1_1410	Construction Zone 1_Stage 1 Northbound R1 structure	300	300	19-Jun-19	20-Jun-20	29-Apr-19	14-Apr-20
	PREPARATORY WORKS						
	TREE FELLING/TRANPLANT						



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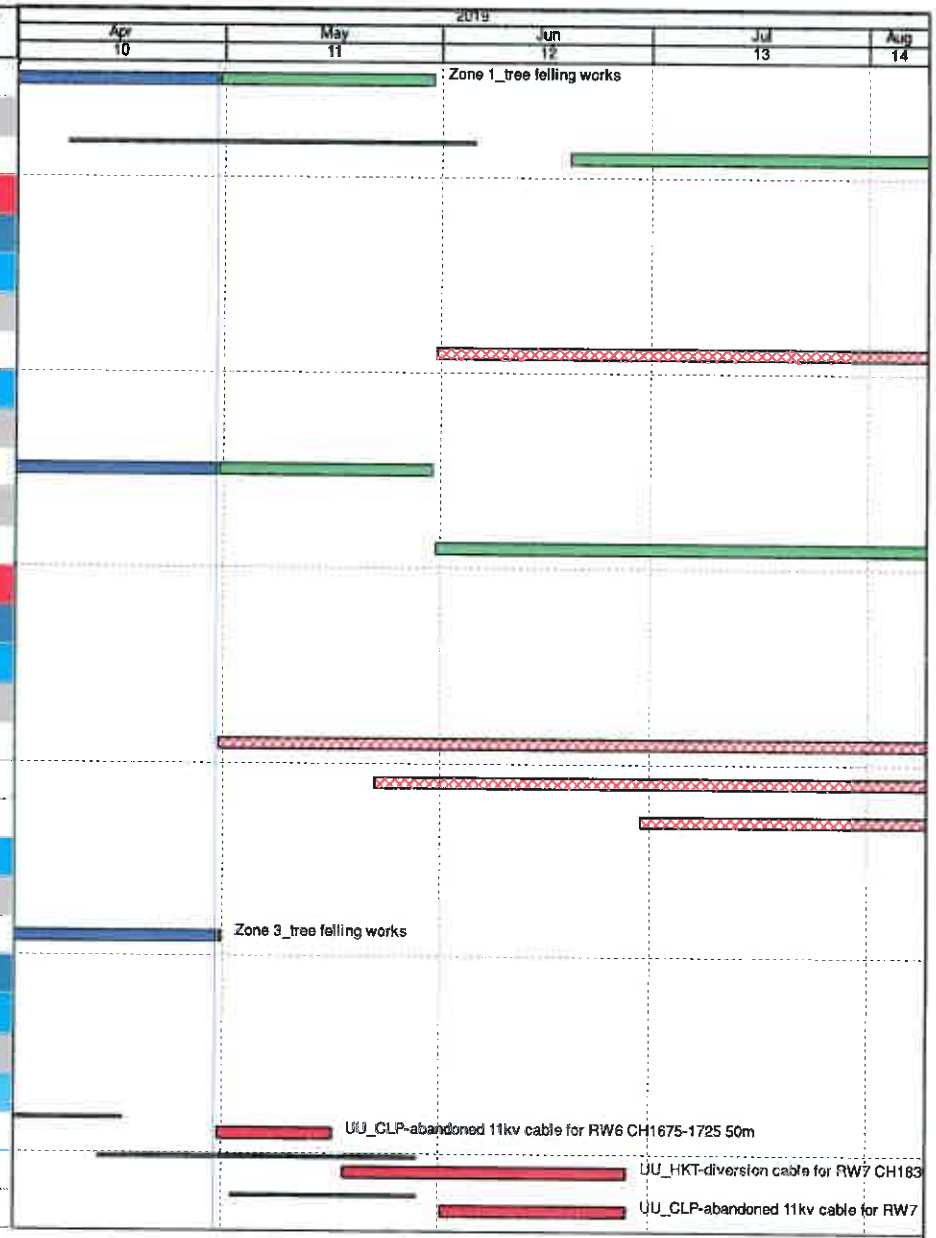
Z1_1290	Zone 1_tree felling works	18	25	25-Jan-19 A	30-May-19	11-Mar-19	01-Apr-19
	MODIFICATION EXISTING ROAD/TEMPORARY ROAD						
Z1_1270	Zone 1-1_construct temporary road platform along Northbound for R1	60	60	19-Jun-19	28-Aug-19	08-Apr-19	05-Jun-19
	WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)						
	PRELIMINARIES WORKS						
	TEMPORARY TRAFFIC ARRAGEMENT						
	TTA PERIOD						
Z2_1260	Construction Zone 2_Stage 1 Central Barrier structure	518	518	31-May-19	25-Feb-21	15-Apr-20	12-Aug-21
	PREPARATORY WORKS						
	TREE FELLING/TRANPLANT						
Z2_1220	Zone 2_tree felling works	18	25	19-Feb-19 A	30-May-19	24-Jan-20	17-Feb-20
	MODIFICATION EXISTING ROAD/TEMPORARY ROAD						
Z2_1230	Zone 2-1_construct temporary road platform along Southbound	60	60	31-May-19	10-Aug-19	18-Feb-20	14-Apr-20
	WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)						
	PRELIMINARIES WORKS						
	TEMPORARY TRAFFIC ARRAGEMENT						
	TTA PERIOD						
Z3_3270	Construction period of Zone 3a_1	342	342	30-Apr-19	23-Jun-20	17-Apr-19	20-May-20
Z3_3340	Construction period of Zone 3c_1	325	325	22-May-19	24-Jun-20	22-May-19	29-May-20
Z3_3400	Construction period of Zone 3b_1	302	302	29-Jun-19	07-Jul-20	06-May-19	30-May-20
	PREPARATORY WORKS						
	TREE FELLING/TRANPLANT						
Z3_2800	Zone 3_tree felling works	18	1	22-Jan-19 A	30-Apr-19	25-Feb-19	16-Mar-19
	BRIDGE AND STRUCTURE WORKS						
	PRELIMINARIES WORKS						
	UTILITIES DIVERSION						
	NORTHBOUND						
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 50m	13	13	30-Apr-19	16-May-19	01-Apr-19	16-Apr-19
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	18-May-19	27-Jun-19	13-Apr-19	28-May-19
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22	22	01-Jun-19	27-Jun-19	02-May-19	28-May-19

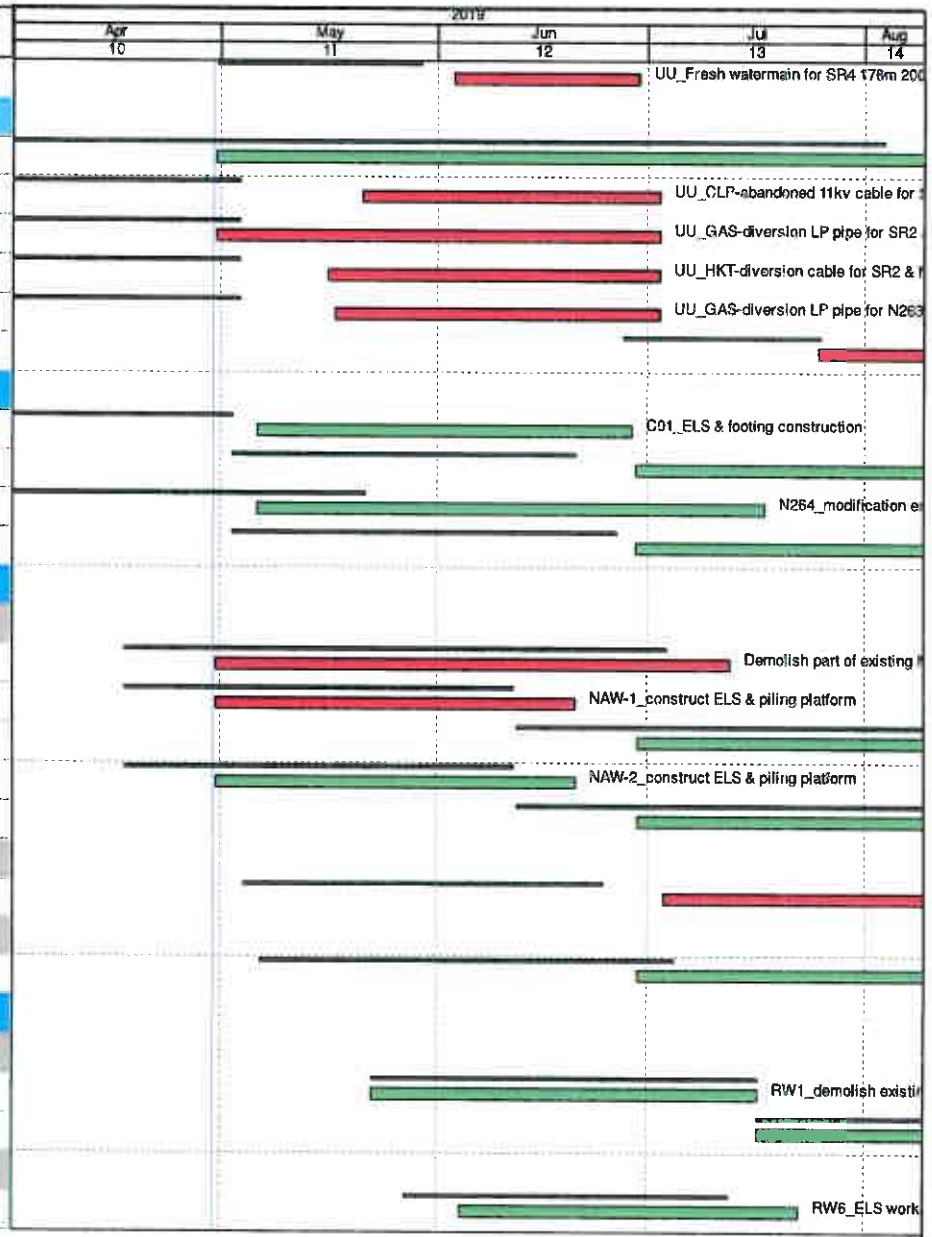


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/19)
Page 4 of 7

Date	Revision	Check...	Approved
08-May-19	3MRP DWP 1904	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	APS Start	APS Finish
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23	03-Jun-19	29-Jun-19	30-Apr-19	29-May-19
SOUTHBOUND							
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127	30-Apr-19	30-Sep-19	28-Feb-19	03-Aug-19
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m	35	35	21-May-19	02-Jul-19	19-Mar-19	03-May-19
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m	51	51	30-Apr-19	02-Jul-19	28-Feb-19	03-May-19
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-1840 210m	39	39	16-May-19	02-Jul-19	14-Mar-19	03-May-19
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-1960 135m	38	38	17-May-19	02-Jul-19	15-Mar-19	03-May-19
Z3_3120	UU_Fresh watermain for Staircase & N263 150PE	23	23	25-Jul-19	20-Aug-19	27-Jun-19	25-Jul-19
WIDENING FOR NORTH HOLLOW ABUTMENT (N264)							
Z3_4200	C01_ELS & footing construction	45	45	06-May-19	28-Jun-19	05-Mar-19	02-May-19
Z3_4210	C01_cloumn construction	40	40	29-Jun-19	15-Aug-19	02-May-19	20-Jun-19
Z3_4220	N264_modification existing MTRC fencing for deck widening	60	60	06-May-19	17-Jul-19	05-Mar-19	21-May-19
Z3_4240	N264_temporary protection MTRC cable	45	45	29-Jun-19	21-Aug-19	02-May-19	26-Jun-19
MODIFICATION OF BRIDGE N263							
RECONSTRUCTION ABUTMENT WALL AT NHA							
Z3_4100	Demolish part of existing NHA wall for construction new wall	60	60	30-Apr-19*	12-Jul-19	17-Apr-19	03-Jul-19
Z3_4110	NAW-1_construct ELS & piling platform	42	42	30-Apr-19*	20-Jun-19	17-Apr-19	11-Jun-19
Z3_4120	NAW-1_piling works for new NHA wall 5nr 1.5m bored pile	70	70	29-Jun-19	21-Sep-19	12-Jun-19	02-Sep-19
Z3_4150	NAW-2_construct ELS & piling platform	42	42	30-Apr-19	20-Jun-19	17-Apr-19	11-Jun-19
Z3_4160	NAW-2_piling works for new NHA wall 4nr 1.5m bored pile	56	56	29-Jun-19	04-Sep-19	12-Jun-19	16-Aug-19
MODIFICATION EXISTING PIER WALL OF N263							
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m bored pile	42	42	03-Jul-19	20-Aug-19	04-May-19	24-Jun-19
MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL							
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	29-Jun-19	26-Aug-19	06-May-19	04-Jul-19
RETAINING WALL & SUBWAY							
RETAINING WALL NO.1							
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45	22-May-19	16-Jul-19	22-May-19	16-Jul-19
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	45	16-Jul-19	05-Sep-19	16-Jul-19	06-Sep-19
RETAINING WALL NO.6							
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	35	04-Jun-19	22-Jul-19	27-May-19	12-Jul-19

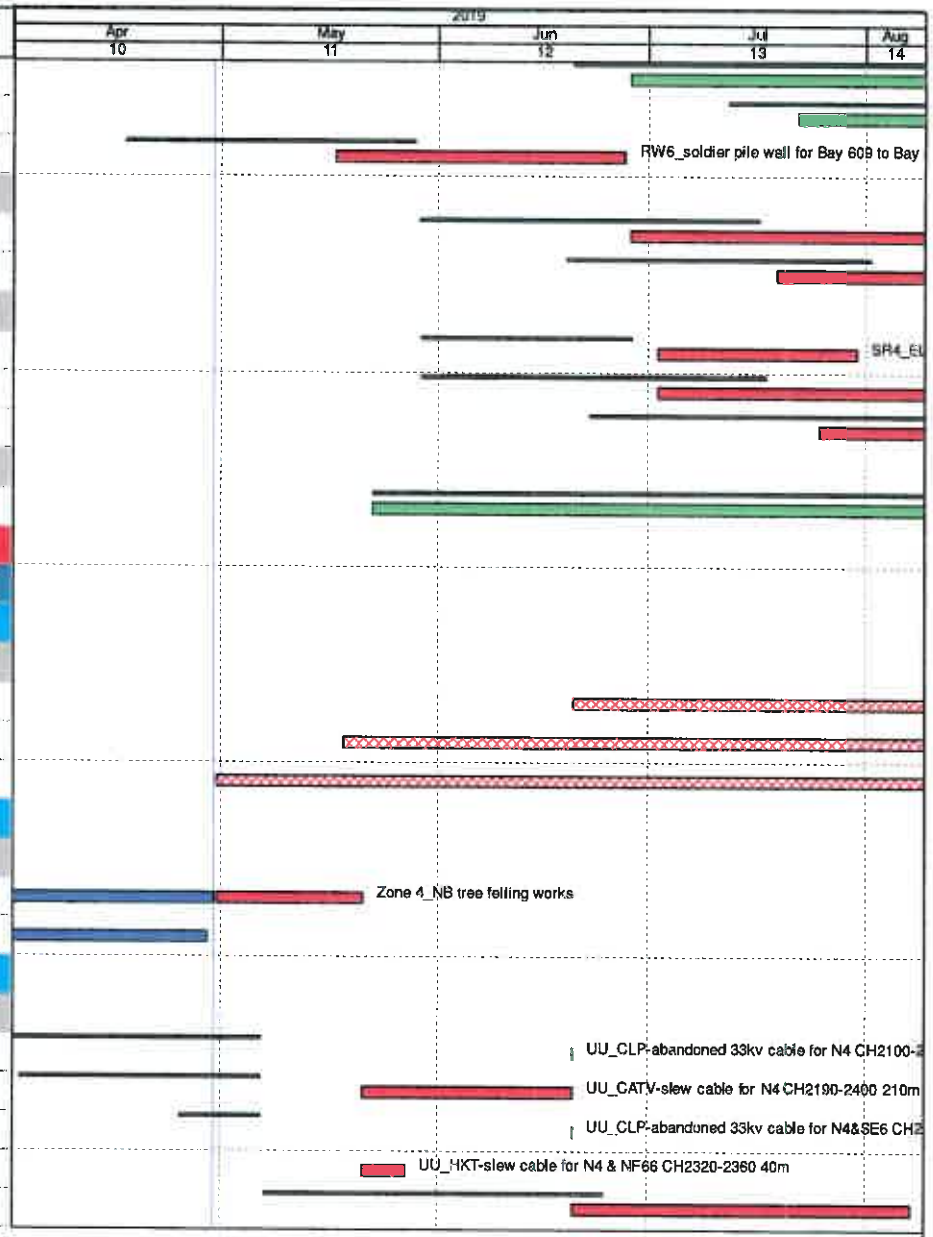


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
◇ Milestone
◆ Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/19)
Page 5 of 7

Date	Revision	Check...	Approved
08-May-19	3MRP DWP 1904	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP5 Start	AP5 Finish
Z3_1218_1010	RW6_base slab construction for Bay 601 to Bay 608	64	64	28-Jun-19	25-Sep-19	20-Jun-19	17-Sep-19
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 608	96	96	22-Jul-19	02-Dec-19	12-Jul-19	22-Nov-19
Z3_1218_1040	RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30	17-May-19	27-Jun-19	17-Apr-19	28-May-19
	RETAINING WALL NO.7						
Z3_1218_2040	RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35	28-Jun-19	15-Aug-19	29-May-19	16-Jul-19
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	32	19-Jul-19	02-Sep-19	19-Jun-19	01-Aug-19
	MODIFY EXISTING RETAINING WALL SR4						
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405 (90m_1 side)	25	25	02-Jul-19	30-Jul-19	29-May-19	28-Jun-19
Z3_5080	SR4_base slab construction for Bay SR401 to Bay SR405	40	40	02-Jul-19	16-Aug-19	29-May-19	17-Jul-19
Z3_5090	SR4_retaining wall construction for Bay SR401 to SR405	60	60	25-Jul-19	04-Oct-19	22-Jun-19	02-Sep-19
	MODIFY EXISTING SUBWAY NS30						
Z3_5200	Re-align existing subway NS30	120	120	22-May-19	15-Oct-19	22-May-19	15-Oct-19
	WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)						
	PRELIMINARIES WORKS						
	TEMPORARY TRAFFIC ARRAGEMENT						
	TTA PERIOD						
Z4_1390	Construction Zone 4_Stage 1 Northbound structure	207	207	20-Jun-19	28-Feb-20	07-May-19	14-Jan-20
Z4_1470	Construction Zone 4_NF66 Construction	220	220	18-May-19	12-Feb-20	14-Mar-19	08-Jan-20
Z4_1480	Construction Zone 4_NF40 Construction	489	489	30-Apr-19	17-Dec-20	28-Feb-19	21-Oct-20
	PREPARATORY WORKS						
	TREE FELLING/TRANPLANT						
Z4_1320	Zone 4_NB tree felling works	18	13	25-Jan-19 A	21-May-19	31-Jan-19	23-Feb-19
Z4_1330	Zone 4_SB tree felling works	18	0	29-Mar-19 A	29-Apr-19 A	05-Dec-19	27-Dec-19
	UTILITIES DIVERSION						
	NORTHBOUND						
Z4_1270	UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m (Abandoned)	0	0	20-Jun-19	20-Jun-19	20-Mar-19	06-May-19
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	21-May-19	20-Jun-19	02-Apr-19	06-May-19
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0	20-Jun-19	20-Jun-19	25-Apr-19	06-May-19
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	21-May-19	27-May-19	20-Mar-19	25-Mar-19
Z4_1360	UU_Fresh watermain for N4 CH2150-2200 77m 600mm	40	40	20-Jun-19	07-Aug-19	07-May-19	24-Jun-19



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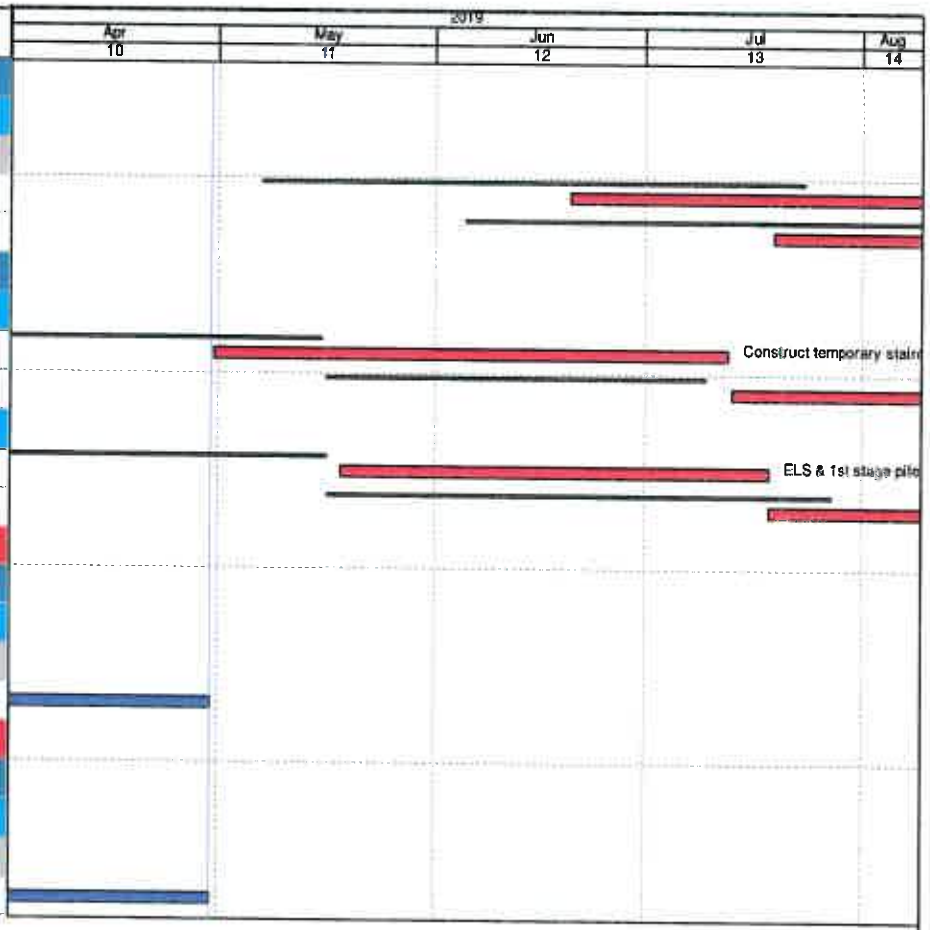
ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/19)
Page 6 of 7

Date	Revision	Check...	Approved
08-May-19	3MRP DWP 1904	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP5 Start	AP5 Finish
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE CAP AND FOOTING							
NORTHBOUND							
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (231m_2 side)	64	64	20-Jun-19	04-Sep-19	07-May-19	23-Jul-19
Z4_1010	N4_footing construction N4-12 to N4-29 (19nr)	126	126	19-Jul-19	17-Dec-19	06-Jun-19	04-Nov-19
BRIDGE AND STRUCTURE WORKS							
MODIFICATION WORKS FOR NF40							
NF40_1000	Construct temporary staircase	60	60	30-Apr-19	12-Jul-19	28-Feb-19	15-May-19
NF40_1010	Demolish existing staircase & part of existing footing	45	45	13-Jul-19	03-Sep-19	16-May-19	09-Jul-19
MODIFICATION WORKS FOR NF66							
NF66_1000	ELS & 1st stage pile cap construction (CSD)	50	50	18-May-19	18-Jul-19	14-Mar-19	16-May-19
NF66_1010	Pile cap construction (CSD)	35	35	16-Jul-19	28-Aug-19	16-May-19	27-Jul-19
WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z5_1710	Zone 5_tree felling works	18	10	22-Jan-19 A	02-Dec-19	21-Sep-19	15-Oct-19
PORTION E (ZONE 5)							
PRELIMINARIES WORKS							
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
ZSE_1140	Portion E_tree felling works	30	18	22-Jan-19 A	10-Jul-20	15-Apr-20	22-May-20



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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/19)
Page 7 of 7

Date	Revision	Check...	Approved
08-May-19	3MRP DWP 1904	Tim	

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix B

Project Organization Chart

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
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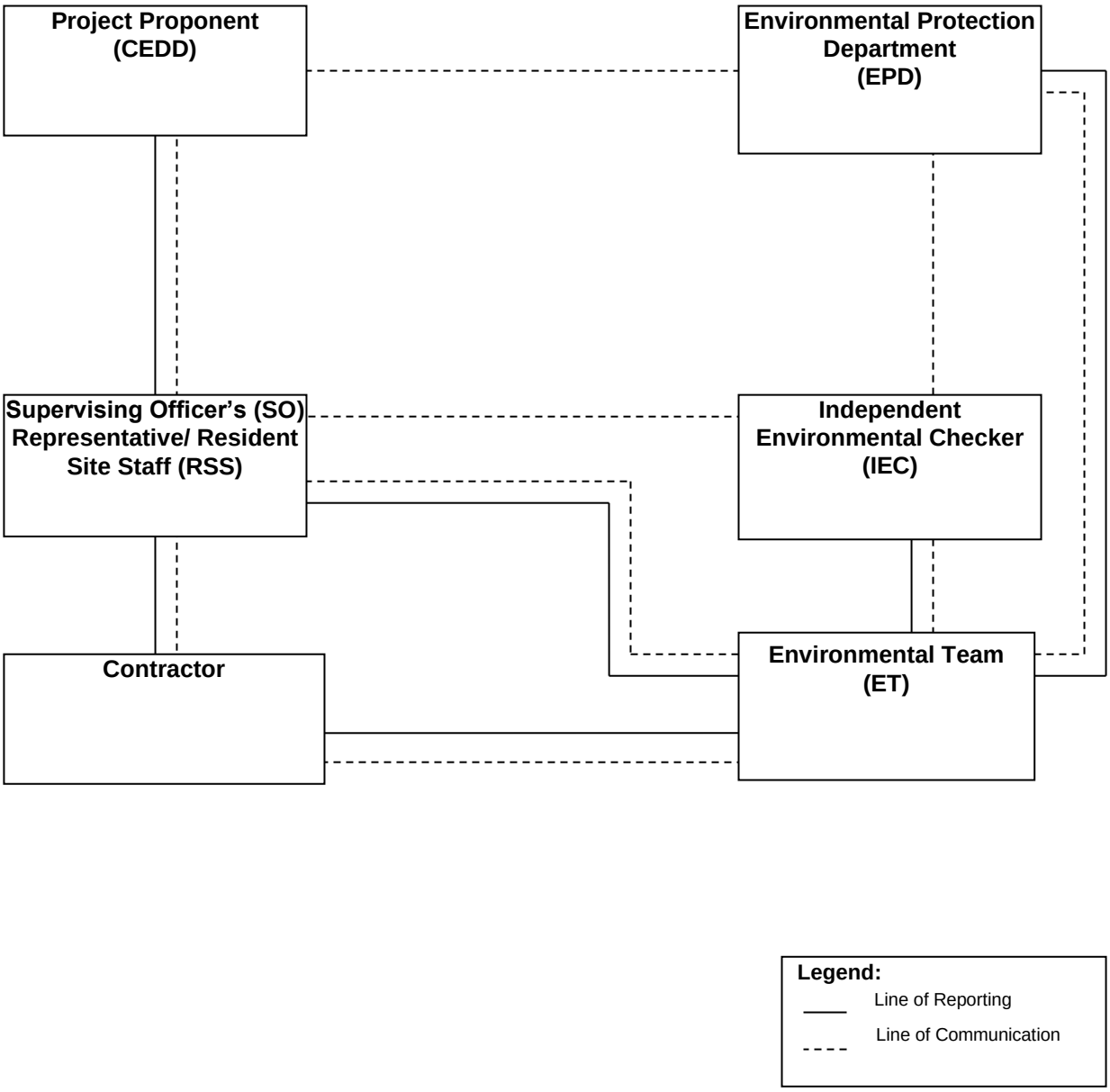

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Appendix C

Action and Limit Levels for Air Quality and Noise

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre,
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Tel : +852 2450 8233
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E-mail : matlab@fugro.com
Website : www.fugro.com

Action and Limit Levels for 24-hr TSP and 1-hr TSP

Parameter	Monitoring Station	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/ m^3$)
24-hr TSP ($\mu g/m^3$)	AMS 1	171	260
	AMS 2	166	
	AMS 4A	200	
	AMS 6	165	
	AMS 7A	171	
	AMS 12	168	
	AMS 15	172	
1-hr TSP ($\mu g/m^3$)	AMS 1	350	500
	AMS 2	324	
	AMS 4A	348	
	AMS 6	347	
	AMS 7A	344	
	AMS 12	296	
	AMS 15	350	

Action and Limit Levels for Construction Noise, Leq (30min), dB(A)

Time Period	Location	Action	Limit
0700-1900 hrs on normal weekdays	NMS1 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS8 NMS9 NMS10A* NMS11 NMS12* NMS13 NMS14 NMS15 NMS16 NMS17* NMS18 NMS19 NMS20 NMS23 NMS24 NMS25A NMS26 NMS27*	When one documented complaint is received	75 dB(A)

* For NMS 10A, 12, 17 and 27, the Limit Level is reduced to 70 dB(A) for schools and 65 dB(A) during school examination periods.

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Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix D

Graphical Presentation of Monitoring Data

1-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS 1 Scenery Court

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Mar-19	08:57	62	66	58	62	350	500	Fine
08-Mar-19	10:30	23	23	12	19			Cloudy
14-Mar-19	11:30	55	46	45	49			Cloudy
20-Mar-19	09:52	48	39	43	43			Fine
26-Mar-19	08:46	24	31	29	28			Sunny
01-Apr-19	09:15	57	69	80	69			Overcast
06-Apr-19	09:19	89	79	77	82			Hazy
12-Apr-19	09:48	22	70	41	44			Cloudy
17-Apr-19	09:00	53	45	55	51			Sunny
23-Apr-19	10:00	65	55	69	63			Sunny
29-Apr-19	15:46	37	39	48	41			Overcast

Average	50
Max	89
Min	12

AMS 2 Villa Le Parc

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Feb-19	10:40	48	46	45	46	324	500	**Fine**
08-Feb-19	10:56	45	45	42	44			**Fine**
14-Feb-19	10:57	45	40	38	41			**Fine**
20-Feb-19	11:13	24	20	16	20			**Fine**
26-Feb-19	10:00	26	24	20	23			**Sunny**
04-Mar-19	12:00	51	49	45	48			Cloudy
08-Mar-19	14:56	50	55	61	55			Fine
14-Mar-19	14:15	60	49	53	54			Cloudy
20-Mar-19	15:10	45	42	53	47			Fine
26-Mar-19	10:49	40	43	40	41			Fine
01-Apr-19	09:46	116	96	81	98			Overcast
06-Apr-19	11:29	129	101	73	101			Hazy
12-Apr-19	15:02	23	30	48	34			Cloudy
17-Apr-19	12:32	24	20	26	23			Sunny
23-Apr-19	14:17	52	24	33	36			Sunny
29-Apr-19	15:46	37	39	48	41			Overcast

Average	53
Max	129
Min	20

AMS 3A Wai Wah Centre

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Feb-19	15:15	42	54	67	54	350	500	Fine
08-Feb-19	15:53	66	72	72	70			Fine
14-Feb-19	11:28	56	42	46	48			Fine
20-Feb-19	10:52	82	78	71	77			Fine
26-Feb-19	15:00	59	64	70	64			Sunny

Average	63
Max	82
Min	42

AMS 4A Wai Wah Centre

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Mar-19	11:00	64	67	69	67	348	500	Fine
08-Mar-19	10:30	81	80	77	79			Cloudy
14-Mar-19	14:47	83	97	86	89			Cloudy
20-Mar-19	15:45	59	64	62	62			Fine
26-Mar-19	15:41	41	46	43	43			Sunny
01-Apr-19	09:08	107	85	67	86			Overcast
06-Apr-19	11:19	116	96	79	97			Hazy
12-Apr-19	14:13	74	43	55	57			Cloudy
17-Apr-19	13:10	33	35	39	36			Sunny
23-Apr-19	13:04	33	30	22	28			Sunny
29-Apr-19	15:41	39	40	38	39			Overcast

Average	62
Max	116
Min	22

AMS 6 - Shatin Plaza

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Mar-19	09:56	92	83	96	90	347	500	Fine
08-Mar-19	12:40	49	52	43	48			Cloudy
14-Mar-19	11:30	77	72	72	74			Cloudy
20-Mar-19	15:00	66	69	72	69			Fine
26-Mar-19	15:43	94	107	103	101			Sunny
01-Apr-19	09:40	46	55	50	50			Overcast
06-Apr-19	09:07	89	97	106	97			Hazy
12-Apr-19	09:58	45	97	68	70			Cloudy
17-Apr-19	13:00	64	65	84	71			Sunny
23-Apr-19	09:30	73	82	64	73			Sunny
29-Apr-19	15:41	39	40	38	39			Overcast
04-May-19	11:05	50	66	69	62			Fine
10-May-19	09:25	57	55	64	59			Sunny
16-May-19	10:00	75	82	69	75			Sunny
22-May-19	08:28	48	46	52	49			Fine
28-May-19	09:08	78	73	71	74			Overcast

Average	69
Max	107
Min	38

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS 7A - Sheung Wo Che

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-May-19	14:46	25	25	24	25	344	500	Fine
10-May-19	11:56	47	44	40	44			Sunny
16-May-19	15:35	42	45	51	46			Sunny
22-May-19	15:01	81	81	90	84			Fine
28-May-19	13:14	105	114	92	104			Overcast

Average	60
Max	114
Min	24

AMS 12 - Fung Wo Estate

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-May-19	12:00	32	32	32	32	296	500	Fine
10-May-19	11:57	92	52	52	65			Sunny
16-May-19	12:13	79	83	70	77			Sunny
22-May-19	14:43	55	58	56	56			Fine
28-May-19	12:06	52	58	55	55			Overcast

Average	57
Max	92
Min	32

AMS13 - Fung Wo Estate

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Feb-19	15:40	46	48	56	50	303	500	Fine
08-Feb-19	13:11	57	56	55	56			Fine
14-Feb-19	15:14	54	58	62	58			Fine
20-Feb-19	11:52	41	26	23	30			Fine
26-Feb-19	15:17	64	65	73	67			Sunny

Average	52
Max	73
Min	23

AMS 14 - Ha Wo Che

1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Feb-19	08:45	67	71	67	69	350	500	Fine
08-Feb-19	09:30	90	71	96	86			Fine
14-Feb-19	10:00	35	26	39	34			Fine
20-Feb-19	10:00	43	44	52	46			Fine
26-Feb-19	14:00	57	69	72	66			Sunny

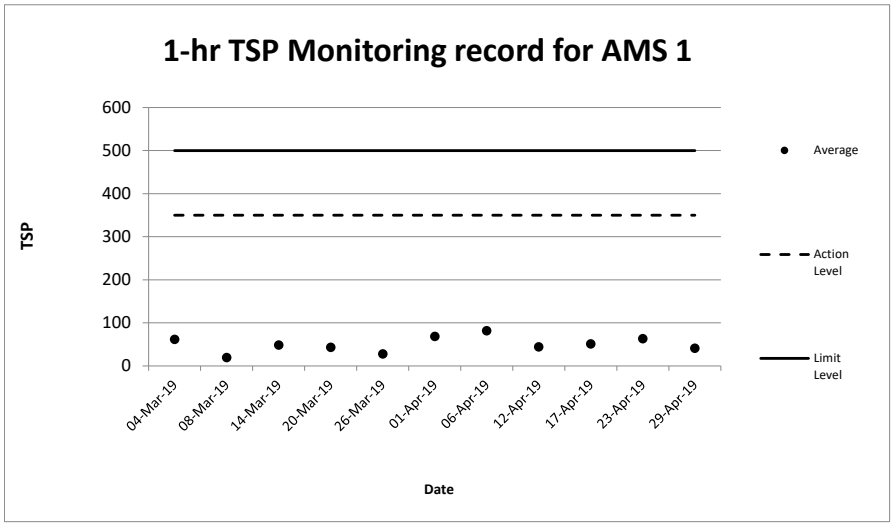
Average	60
Max	96
Min	26

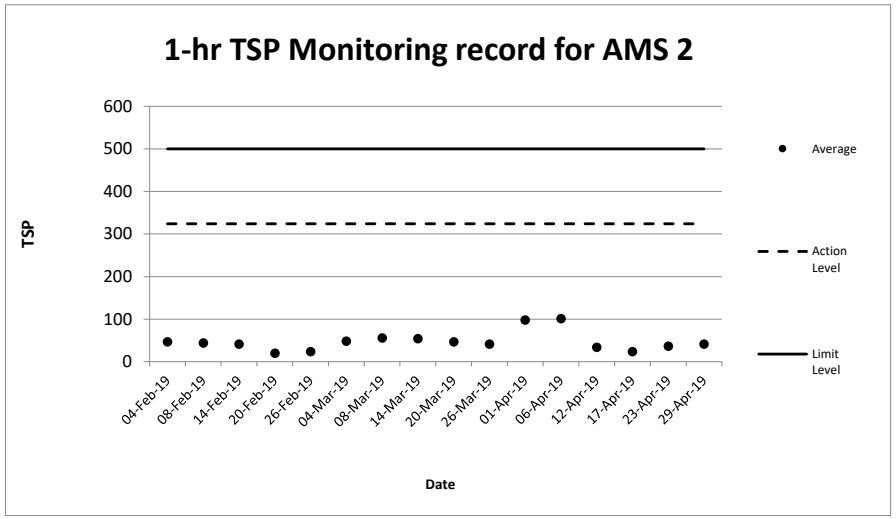
AMS 15 - Ha Wo Che

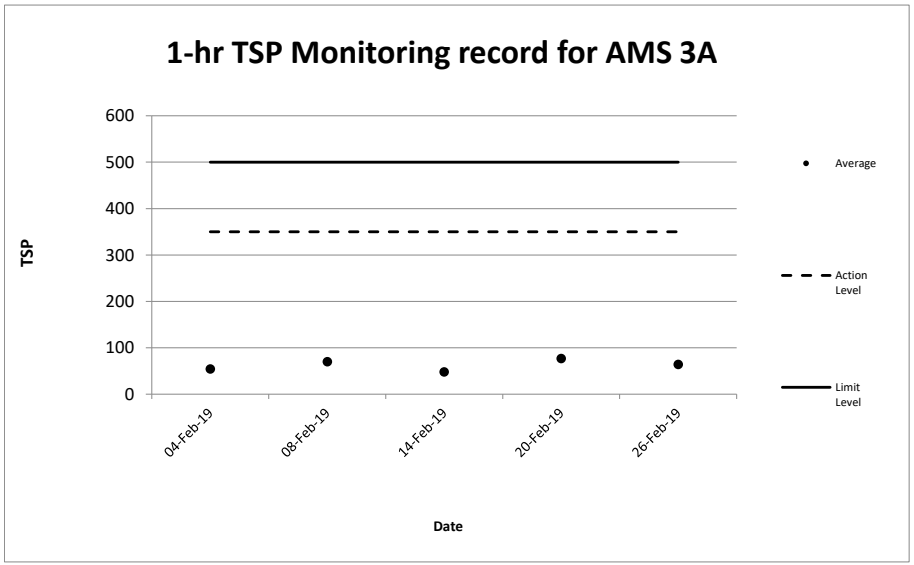
1-hour TSP (μg/m³)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-May-19	09:36	72	77	70	73	350	500	Fine
10-May-19	13:45	81	86	74	80			Sunny
16-May-19	10:40	57	63	72	64			Sunny
22-May-19	13:07	68	64	73	68			Fine
28-May-19	14:00	50	39	53	47			Overcast

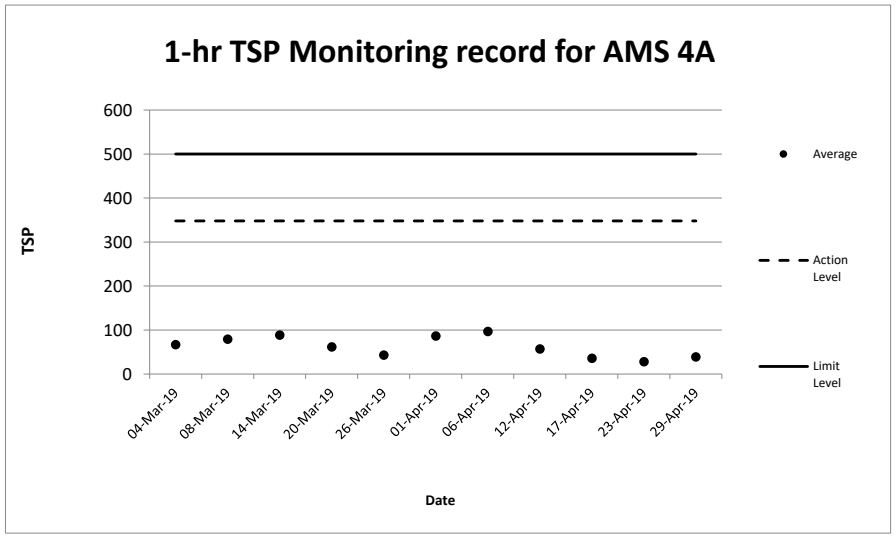
Average	67
Max	86
Min	39

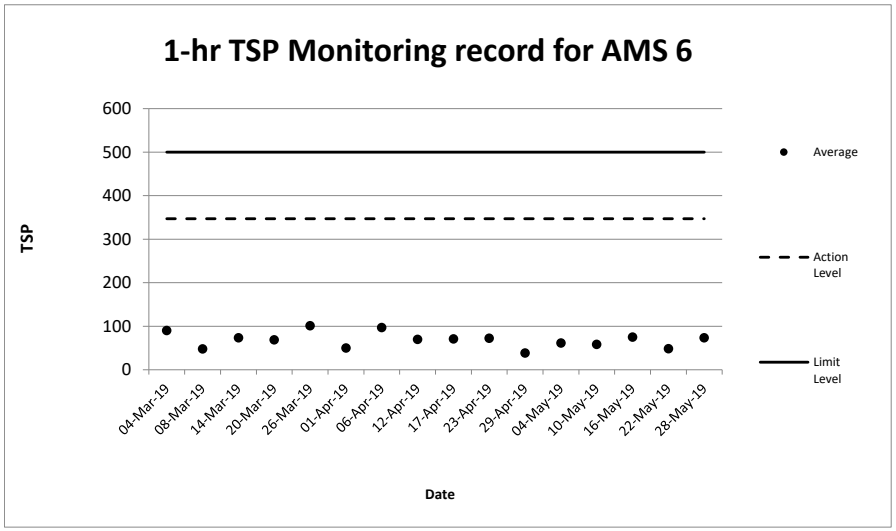
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

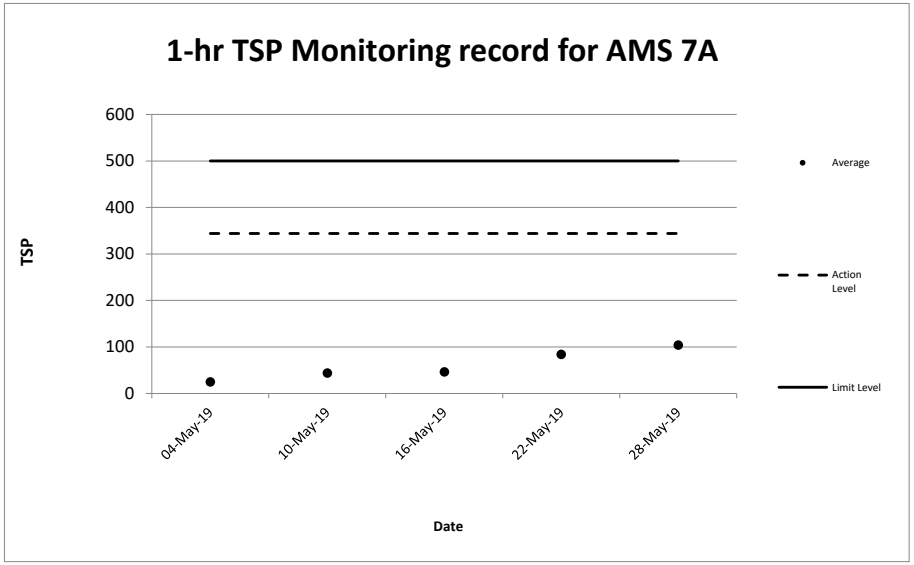

1-hr TSP Monitoring record for AMS 1
TSP
600
500
400
300
200
100
0
04-Mar-19
08-Mar-19
14-Mar-19
20-Mar-19
26-Mar-19
01-Apr-19
06-Apr-19
12-Apr-19
17-Apr-19
23-Apr-19
29-Apr-19
Date
Average
Action Level
Limit Level

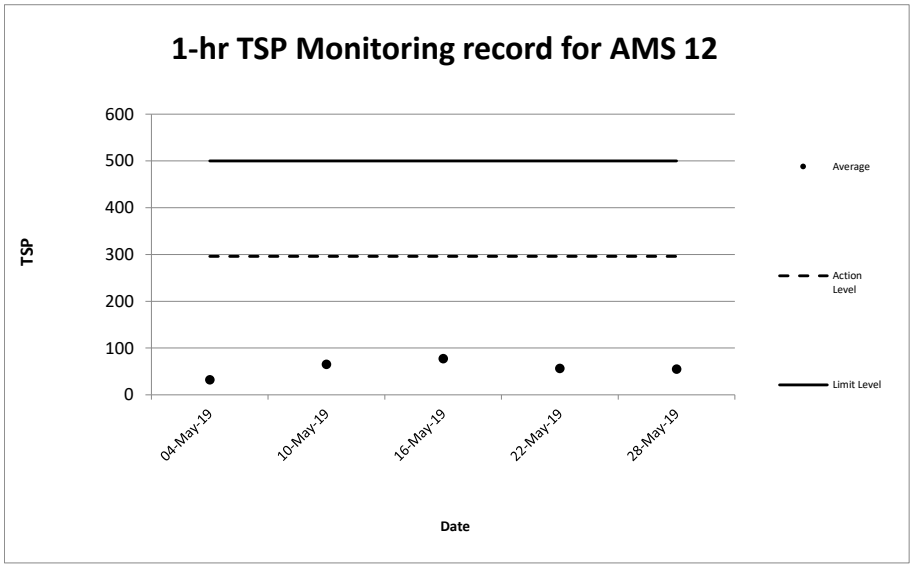

1-hr TSP Monitoring record for AMS 2
TSP
600
500
400
300
200
100
0
04-Feb-19
08-Feb-19
14-Feb-19
20-Feb-19
26-Feb-19
04-Mar-19
08-Mar-19
14-Mar-19
20-Mar-19
26-Mar-19
01-Apr-19
06-Apr-19
12-Apr-19
17-Apr-19
23-Apr-19
29-Apr-19
Date
Average
Action Level
Limit Level

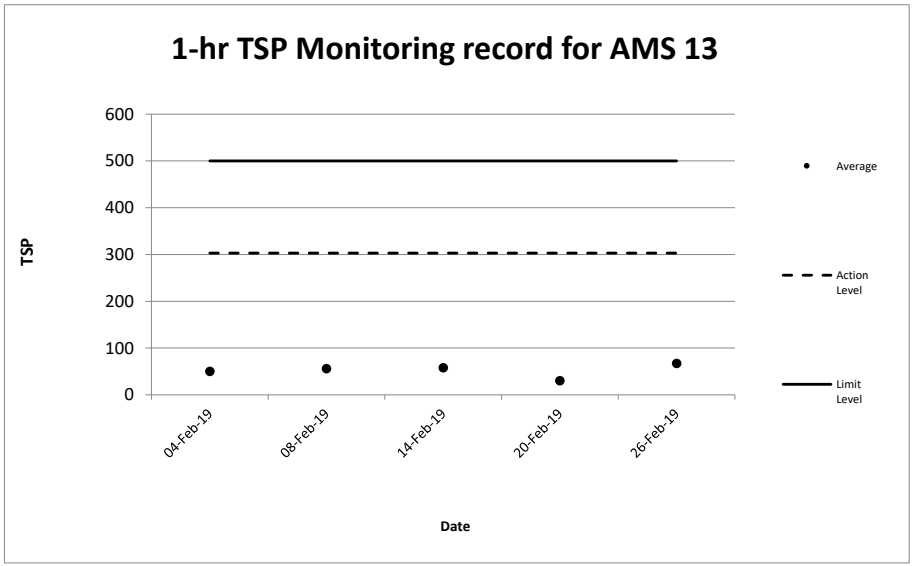

1-hr TSP Monitoring record for AMS 3A
TSP
600
500
400
300
200
100
0
04-Feb-19
08-Feb-19
14-Feb-19
20-Feb-19
26-Feb-19
Date
Average
Action Level
Limit Level

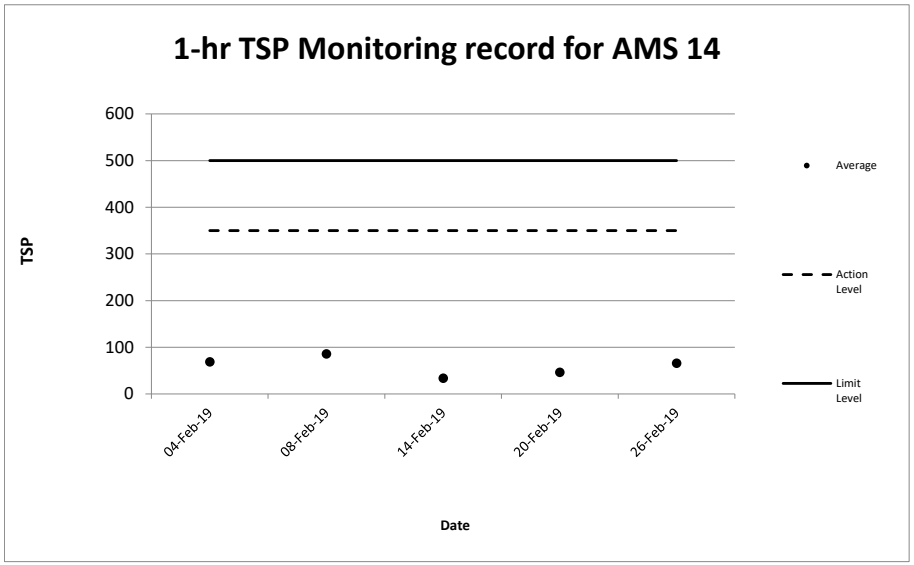

1-hr TSP Monitoring record for AMS 4A
TSP
600
500
400
300
200
100
0
04-Mar-19
08-Mar-19
14-Mar-19
20-Mar-19
26-Mar-19
01-Apr-19
06-Apr-19
12-Apr-19
17-Apr-19
23-Apr-19
29-Apr-19
Date
Average
Action Level
Limit Level

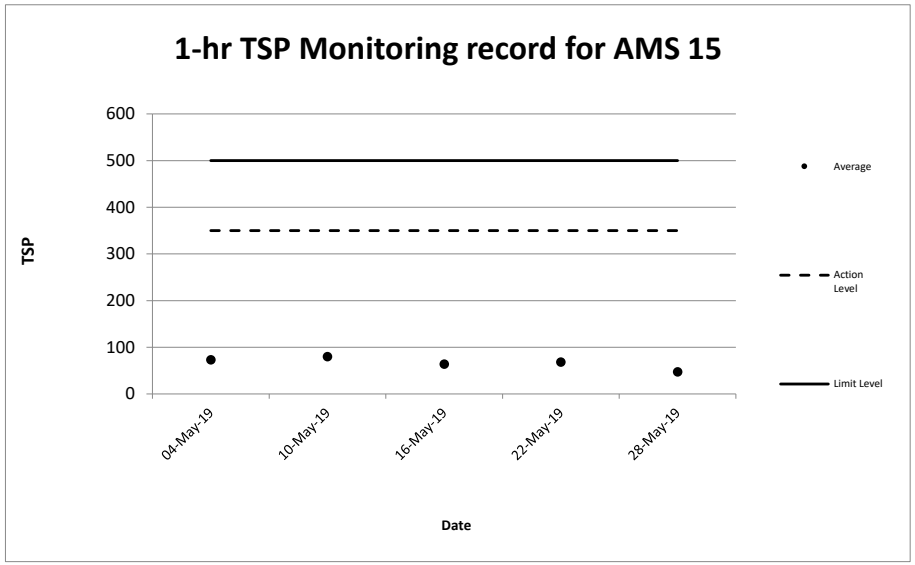

1-hr TSP Monitoring record for AMS 6
TSP
600
500
400
300
200
100
0
04-Mar-19
08-Mar-19
14-Mar-19
20-Mar-19
26-Mar-19
01-Apr-19
06-Apr-19
12-Apr-19
17-Apr-19
23-Apr-19
29-Apr-19
04-May-19
10-May-19
16-May-19
22-May-19
28-May-19
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 7A
TSP
600
500
400
300
200
100
0
04-May-19
10-May-19
16-May-19
22-May-19
28-May-19
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 12
TSP
600
500
400
300
200
100
0
04-May-19
10-May-19
16-May-19
22-May-19
28-May-19
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 13
TSP
600
500
400
300
200
100
0
04-Feb-19
08-Feb-19
14-Feb-19
20-Feb-19
26-Feb-19
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 14
TSP
600
500
400
300
200
100
0
04-Feb-19
08-Feb-19
14-Feb-19
20-Feb-19
26-Feb-19
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 15
TSP
600
500
400
300
200
100
0
04-May-19
10-May-19
16-May-19
22-May-19
28-May-19
Date
Average
Action Level
Limit Level

24-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS 1 - Scenery Court

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m^3/min.)		Average flow (m^3/min.)	Total volume (m^3)	Conc. (ug/m^3)	Action Level	Limit Level
				Initial	Final			Initial	Final				(ug/m^3)	(ug/m^3)
4-Mar-19	Fine	294.1	760	2.6750	2.7511	0.0761	24	1.73	1.72	1.73	2485.93	31	171	260
8-Mar-19	Cloudy	289.7	762	2.6689	2.6989	0.0300	24	0.62	0.61	0.61	884.22	34		
14-Mar-19	Cloudy	293.6	764	2.7140	2.7700	0.0560	24	1.90	1.88	1.89	2728.07	21		
20-Mar-19	Fine	296.7	760	2.6702	2.7316	0.0614	24	1.23	1.23	1.23	1768.09	35		
26-Mar-19	Sunny	295.1	764	2.6493	2.7052	0.0559	24	1.24	1.23	1.23	1772.92	32		
1-Apr-19	Overcast	293.5	765	2.6840	2.7301	0.0461	24	0.91	0.90	0.90	1299.07	35		
6-Apr-19	Hazy	298.3	760	2.7007	2.7478	0.0471	24	1.06	1.06	1.06	1528.71	31		
12-Apr-19	Cloudy	295.5	760	2.7595	2.7869	0.0274	24	0.98	0.98	0.98	1413.69	19		
17-Apr-19	Sunny	296.7	759	2.7857	2.8075	0.0218	24	0.82	0.81	0.82	1174.60	19		
23-Apr-19	Sunny	301.2	758	2.7794	2.7923	0.0129	24	0.81	0.81	0.81	1169.62	11		
29-Apr-19	Overcast	299.9	756	2.7972	2.8308	0.0336	24	0.97	0.98	0.98	1406.57	24		
											Min	11		
											Max	35		
											Average	26		

Remark
1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS 6 - Shatin Plaza

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m^3/min.)		Average flow (m^3/min.)	Total volume (m^3)	Conc. (ug/m^3)	Action Level	Limit Level
				Initial	Final			Initial	Final				(ug/m^3)	(ug/m^3)
4-Mar-19	Fine	294.1	760	2.5689	2.6321	0.0632	24	1.4422	1.4323	1.44	2069.6586	31	165	260
8-Mar-19	Cloudy	289.7	762	2.6987	2.7590	0.0603	24	1.4131	1.3911	1.40	2019.0266	30		
14-Mar-19	Cloudy	293.6	764	2.6852	2.7439	0.0587	24	1.5715	1.5557	1.56	2251.5955	26		
20-Mar-19	Fine	296.7	760	2.6459	2.7006	0.0547	24	1.0230	1.0207	1.02	1471.4594	37		
26-Mar-19	Sunny	295.1	764	2.6237	2.6998	0.0761	24	1.5676	1.5557	1.56	2248.8122	34		
1-Apr-19	Overcast	293.5	765	2.6883	2.7423	0.0540	24	1.2398	1.2265	1.23	1775.7112	30		
6-Apr-19	Hazy	298.3	760	2.6668	2.6834	0.0166	24	0.8968	0.8973	0.90	1291.7285	13		
12-Apr-19	Cloudy	295.5	760	2.7098	2.7433	0.0335	24	0.8185	0.8150	0.82	1176.1254	28		
17-Apr-19	Sunny	296.7	759	2.7771	2.8020	0.0249	24	1.2287	1.2265	1.23	1767.7345	14		
23-Apr-19	Sunny	301.2	758	2.7644	2.7928	0.0284	24	1.3818	1.3911	1.39	1996.5295	14		
29-Apr-19	Overcast	299.9	756	2.7858	2.8052	0.0194	24	1.1396	1.1442	1.14	1644.3265	12		
4-May-19	Fine	295.8	760	2.7646	2.8001	0.0355	24	1.6443	1.6381	1.64	2363.2636	15		
10-May-19	Sunny	297.1	758	2.7513	2.8086	0.0573	24	1.0619	1.0619	1.06	1529.1215	37		
16-May-19	Sunny	302.4	756	2.7042	2.7365	0.0323	24	1.5400	1.5557	1.55	2228.9087	14		
22-May-19	Fine	298.5	758	2.7710	2.8105	0.0395	24	1.6343	1.6381	1.64	2356.0567	17		
28-May-19	Overcast	299.1	757	2.7654	2.7897	0.0243	24	1.47	1.47	1.47	2117.48	11		
											Min	11		
											Max	37		
											Average	23		

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS 14 - Ha Wo Che

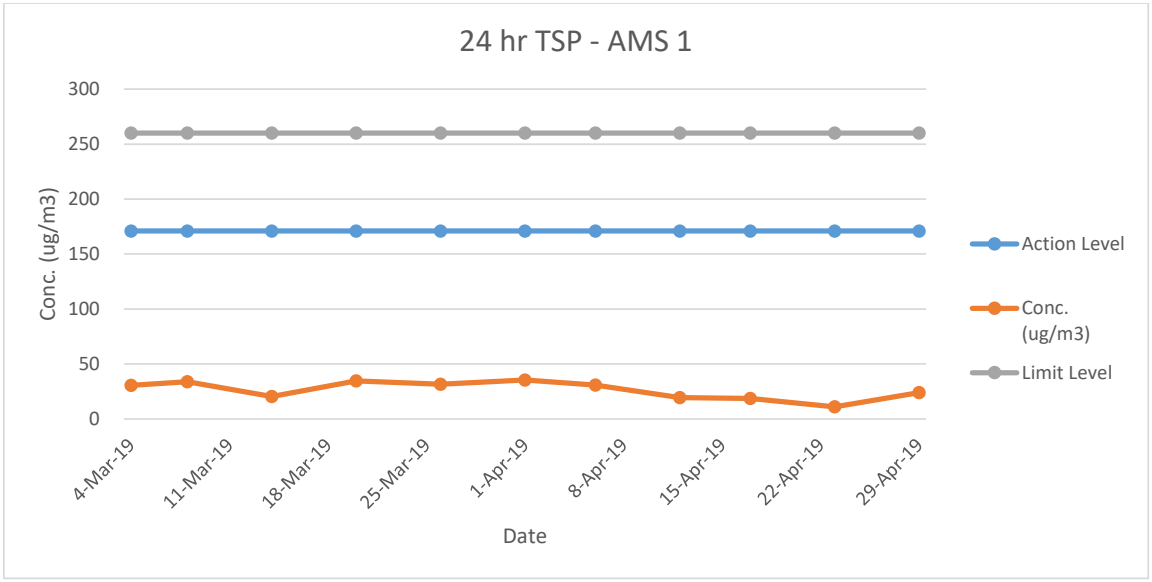
Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m^3/min.)		Average flow (m^3/min.)	Total volume (m^3)	Conc. (ug/m^3)	Action Level (ug/m^3)	Limit Level (ug/m^3)
				Initial	Final			Initial	Final					
4-Feb-19	Cloudy	294.9	764	2.7549	2.8377	0.0828	24	0.82	0.81	0.82	1178.14	70	174	260
8-Feb-19	Fine	294.9	762	2.6701	2.6882	0.0181	24	0.61	0.61	0.61	880.07	21		
14-Feb-19	Cloudy	293.6	766	2.6787	2.7234	0.0447	24	0.66	0.65	0.65	941.82	47		
20-Feb-19	Fine	295.8	764	2.6367	2.6633	0.0266	24	0.61	0.61	0.61	880.09	30		
26-Feb-19	Fine	291.9	763	2.6664	2.7167	0.0503	24	0.74	0.73	0.74	1061.78	47		
											Min	21		
											Max	70		
											Average	43		

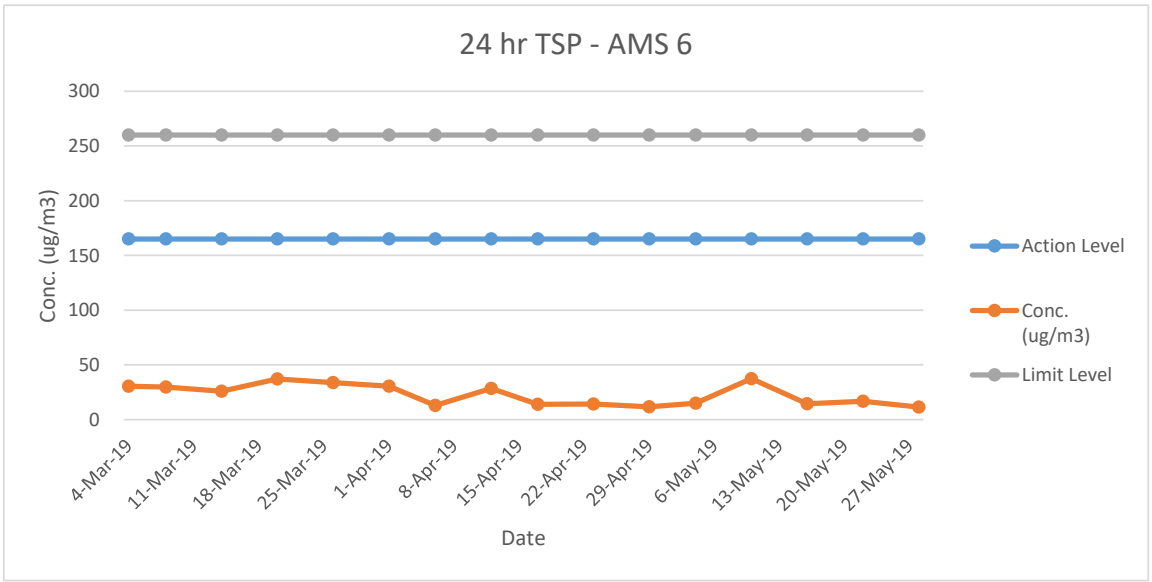
AMS 15 - Ha Wo Che

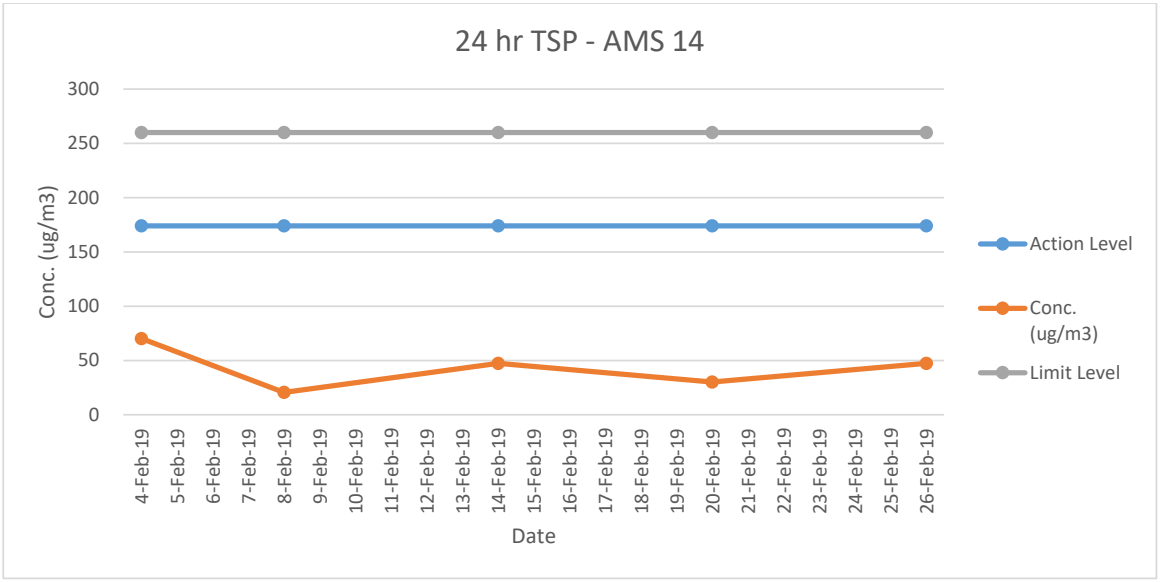
Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m^3/min.)		Average flow (m^3/min.)	Total volume (m^3)	Conc. (ug/m^3)	Action Level (ug/m^3)	Limit Level (ug/m^3)
				Initial	Final			Initial	Final					
4-May-19	Fine	295.8	760	2.7773	2.8031	0.0258	24	0.74	0.73	0.73	1057.05	24	172	260
10-May-19	Sunny	297.1	758	2.7330	2.7751	0.0421	24	0.98	0.98	0.98	1410.60	30		
16-May-19	Sunny	302.4	756	2.6877	2.6963	0.0086	24	0.73	0.73	0.73	1049.65	8		
22-May-19	Fine	298.5	758	2.7690	2.7920	0.0230	24	0.73	0.73	0.73	1053.80	22		
28-May-19	Overcast	299.1	757	2.7027	2.7878	0.0851	24	1.47	1.47	1.47	2117.48	40		
											Min	8		
											Max	40		
											Average	25		

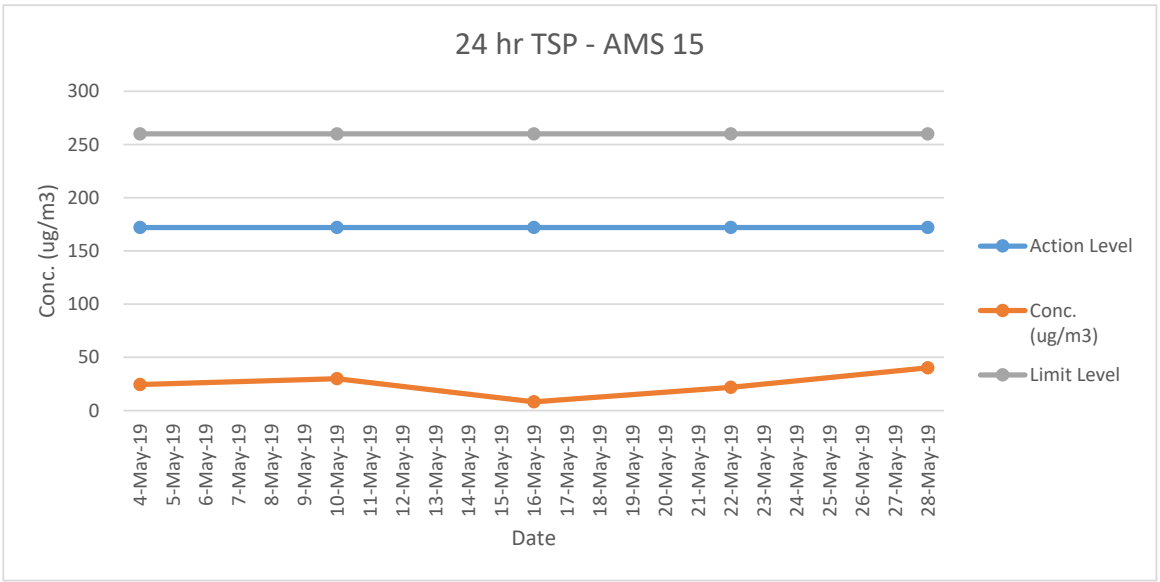
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.


24 hr TSP - AMS 1
300
250
200
150
100
50
0
Conc. (ug/m3)
4-Mar-19
11-Mar-19
18-Mar-19
25-Mar-19
1-Apr-19
8-Apr-19
15-Apr-19
22-Apr-19
29-Apr-19
Date
Action Level
Conc. (ug/m3)
Limit Level


24 hr TSP - AMS 6
300
250
200
150
100
50
0
Conc. (ug/m3)
4-Mar-19
11-Mar-19
18-Mar-19
25-Mar-19
1-Apr-19
8-Apr-19
15-Apr-19
22-Apr-19
29-Apr-19
6-May-19
13-May-19
20-May-19
27-May-19
Date
Action Level
Conc. (ug/m3)
Limit Level


24 hr TSP - AMS 14
300
250
200
150
100
50
0
Conc. (ug/m3)
4-Feb-19
5-Feb-19
6-Feb-19
7-Feb-19
8-Feb-19
9-Feb-19
10-Feb-19
11-Feb-19
12-Feb-19
13-Feb-19
14-Feb-19
15-Feb-19
16-Feb-19
17-Feb-19
18-Feb-19
19-Feb-19
20-Feb-19
21-Feb-19
22-Feb-19
23-Feb-19
24-Feb-19
25-Feb-19
26-Feb-19
Date
Action Level
Conc. (ug/m3)
Limit Level


24 hr TSP - AMS 15
300
250
200
150
100
50
0
Conc. (ug/m3)
4-May-19
5-May-19
6-May-19
7-May-19
8-May-19
9-May-19
10-May-19
11-May-19
12-May-19
13-May-19
14-May-19
15-May-19
16-May-19
17-May-19
18-May-19
19-May-19
20-May-19
21-May-19
22-May-19
23-May-19
24-May-19
25-May-19
26-May-19
27-May-19
28-May-19
Date
Action Level
Conc. (ug/m3)
Limit Level

24-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS2 - Villa Le Parc

Date and Time	TSP Concentration (μg/m³)
04/02/19 10:40	48
04/02/19 11:40	46
04/02/19 12:40	45
04/02/19 13:40	47
04/02/19 14:40	42
04/02/19 15:40	40
04/02/19 16:40	44
04/02/19 17:40	46
04/02/19 18:40	46
04/02/19 19:40	44
04/02/19 20:40	48
04/02/19 21:40	62
04/02/19 22:40	74
04/02/19 23:40	67
05/02/19 00:40	66
05/02/19 01:40	56
05/02/19 02:40	48
05/02/19 03:40	47
05/02/19 04:40	46
05/02/19 05:40	41
05/02/19 06:40	44
05/02/19 07:40	46
05/02/19 08:40	42
05/02/19 09:40	45
Average	49
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
08/02/19 09:56	42
08/02/19 10:56	45
08/02/19 11:56	45
08/02/19 12:56	42
08/02/19 13:56	38
08/02/19 14:56	38
08/02/19 15:56	32
08/02/19 16:56	30
08/02/19 17:56	30
08/02/19 18:56	34
08/02/19 19:56	32
08/02/19 20:56	40
08/02/19 21:56	55
08/02/19 22:56	68
08/02/19 23:56	72
09/02/19 00:56	79
09/02/19 01:56	62
09/02/19 02:56	40
09/02/19 03:56	49
09/02/19 04:56	51
09/02/19 05:56	64
09/02/19 06:56	64
09/02/19 07:56	60
09/02/19 08:56	53
Average	49
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/02/19 10:57	45
14/02/19 11:57	40
14/02/19 12:57	38
14/02/19 13:57	36
14/02/19 14:57	34
14/02/19 15:57	32
14/02/19 16:57	30
14/02/19 17:57	34
14/02/19 18:57	36
14/02/19 19:57	42
14/02/19 20:57	57
14/02/19 21:57	68
14/02/19 22:57	72
14/02/19 23:57	79
15/02/19 00:57	62
15/02/19 01:57	42
15/02/19 02:57	51
15/02/19 03:57	51
15/02/19 04:57	64
15/02/19 05:57	62
15/02/19 06:57	51
15/02/19 07:57	45
15/02/19 08:57	43
15/02/19 09:57	45
Average	48
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/02/19 11:13	24
20/02/19 12:13	20
20/02/19 13:13	16
20/02/19 14:13	15
20/02/19 15:13	14
20/02/19 16:13	15
20/02/19 17:13	14
20/02/19 18:13	16
20/02/19 19:13	19
20/02/19 20:13	25
20/02/19 21:13	39
20/02/19 22:13	57
20/02/19 23:13	54
21/02/19 00:13	42
21/02/19 01:13	30
21/02/19 02:13	35
21/02/19 03:13	27
21/02/19 04:13	16
21/02/19 05:13	15
21/02/19 06:13	14
21/02/19 07:13	17
21/02/19 08:13	19
21/02/19 09:13	20
21/02/19 10:13	22
Average	24
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/02/19 10:00	26
26/02/19 11:00	24
26/02/19 12:00	20
26/02/19 13:00	15
26/02/19 14:00	14
26/02/19 15:00	16
26/02/19 16:00	15
26/02/19 17:00	17
26/02/19 18:00	19
26/02/19 19:00	22
26/02/19 20:00	24
26/02/19 21:00	29
26/02/19 22:00	39
26/02/19 23:00	42
27/02/19 00:00	38
27/02/19 01:00	36
27/02/19 02:00	35
27/02/19 03:00	29
27/02/19 04:00	28
27/02/19 05:00	20
27/02/19 06:00	17
27/02/19 07:00	23
27/02/19 08:00	27
27/02/19 09:00	22
Average	25
Action Level	166
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS2 - Villa Le Parc

Date and Time	TSP Concentration (μg/m³)
04/03/19 12:00	51
04/03/19 13:00	49
04/03/19 14:00	45
04/03/19 15:00	42
04/03/19 16:00	34
04/03/19 17:00	32
04/03/19 18:00	36
04/03/19 19:00	42
04/03/19 20:00	36
04/03/19 21:00	45
04/03/19 22:00	40
04/03/19 23:00	66
05/03/19 00:00	60
05/03/19 01:00	64
05/03/19 02:00	72
05/03/19 03:00	59
05/03/19 04:00	32
05/03/19 05:00	36
05/03/19 06:00	38
05/03/19 07:00	45
05/03/19 08:00	42
05/03/19 09:00	45
05/03/19 10:00	49
05/03/19 11:00	45
Average	46
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
08/03/19 09:56	45
08/03/19 10:56	42
08/03/19 11:56	40
08/03/19 12:56	47
08/03/19 13:56	48
08/03/19 14:56	50
08/03/19 15:56	55
08/03/19 16:56	61
08/03/19 17:56	56
08/03/19 18:56	51
08/03/19 19:56	50
08/03/19 20:56	35
08/03/19 21:56	30
08/03/19 22:56	46
08/03/19 23:56	48
09/03/19 00:56	50
09/03/19 01:56	61
09/03/19 02:56	65
09/03/19 03:56	36
09/03/19 04:56	32
09/03/19 05:56	39
09/03/19 06:56	40
09/03/19 07:56	42
09/03/19 08:56	48
Average	47
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/03/19 12:15	45
14/03/19 13:15	53
14/03/19 14:15	60
14/03/19 15:15	49
14/03/19 16:15	53
14/03/19 17:15	53
14/03/19 18:15	36
14/03/19 19:15	47
14/03/19 20:15	55
14/03/19 21:15	60
14/03/19 22:15	49
14/03/19 23:15	42
15/03/19 00:15	36
15/03/19 01:15	40
15/03/19 02:15	34
15/03/19 03:15	30
15/03/19 04:15	34
15/03/19 05:15	36
15/03/19 06:15	45
15/03/19 07:15	53
15/03/19 08:15	60
15/03/19 09:15	64
15/03/19 10:15	62
15/03/19 11:15	59
Average	48
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/03/19 09:10	49
20/03/19 10:10	36
20/03/19 11:10	42
20/03/19 12:10	43
20/03/19 13:10	34
20/03/19 14:10	40
20/03/19 15:10	45
20/03/19 16:10	42
20/03/19 17:10	53
20/03/19 18:10	45
20/03/19 19:10	55
20/03/19 20:10	60
20/03/19 21:10	98
20/03/19 22:10	91
20/03/19 23:10	87
21/03/19 00:10	79
21/03/19 01:10	52
21/03/19 02:10	49
21/03/19 03:10	47
21/03/19 04:10	43
21/03/19 05:10	36
21/03/19 06:10	49
21/03/19 07:10	48
21/03/19 08:10	53
Average	53
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/03/19 09:49	36
26/03/19 10:49	40
26/03/19 11:49	43
26/03/19 12:49	40
26/03/19 13:49	32
26/03/19 14:49	30
26/03/19 15:49	25
26/03/19 16:49	26
26/03/19 17:49	26
26/03/19 18:49	32
26/03/19 19:49	36
26/03/19 20:49	45
26/03/19 21:49	38
26/03/19 22:49	53
26/03/19 23:49	53
27/03/19 00:49	43
27/03/19 01:49	33
27/03/19 02:49	34
27/03/19 03:49	26
27/03/19 04:49	26
27/03/19 05:49	28
27/03/19 06:49	30
27/03/19 07:49	34
27/03/19 08:49	38
Average	35
Action Level	166
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS2 - Villa Le Parc

Date and Time	TSP Concentration (μg/m³)
01/04/19 09:46	100
01/04/19 10:46	96
01/04/19 11:46	81
01/04/19 12:46	74
01/04/19 13:46	44
01/04/19 14:46	42
01/04/19 15:46	44
01/04/19 16:46	46
01/04/19 17:46	42
01/04/19 18:46	39
01/04/19 19:46	44
01/04/19 20:46	42
01/04/19 21:46	46
01/04/19 22:46	42
01/04/19 23:46	33
02/04/19 00:46	35
02/04/19 01:46	37
02/04/19 02:46	37
02/04/19 03:46	42
02/04/19 04:46	48
02/04/19 05:46	52
02/04/19 06:46	46
02/04/19 07:46	42
02/04/19 08:46	37
Average	50
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
06/04/19 11:29	98
06/04/19 12:29	101
06/04/19 13:29	73
06/04/19 14:29	49
06/04/19 15:29	36
06/04/19 16:29	43
06/04/19 17:29	36
06/04/19 18:29	52
06/04/19 19:29	71
06/04/19 20:29	73
06/04/19 21:29	79
06/04/19 22:29	81
06/04/19 23:29	73
07/04/19 00:29	64
07/04/19 01:29	52
07/04/19 02:29	62
07/04/19 03:29	39
07/04/19 04:29	45
07/04/19 05:29	49
07/04/19 06:29	54
07/04/19 07:29	60
07/04/19 08:29	73
07/04/19 09:29	86
07/04/19 10:29	99
Average	65
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
12/04/19 10:02	17
12/04/19 11:02	27
12/04/19 12:02	25
12/04/19 13:02	27
12/04/19 14:02	49
12/04/19 15:02	23
12/04/19 16:02	30
12/04/19 17:02	48
12/04/19 18:02	51
12/04/19 19:02	59
12/04/19 20:02	65
12/04/19 21:02	72
12/04/19 22:02	80
12/04/19 23:02	65
13/04/19 00:02	42
13/04/19 01:02	25
13/04/19 02:02	21
13/04/19 03:02	29
13/04/19 04:02	32
13/04/19 05:02	25
13/04/19 06:02	21
13/04/19 07:02	27
13/04/19 08:02	29
13/04/19 09:02	21
Average	38
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
17/04/19 11:32	22
17/04/19 12:32	24
17/04/19 13:32	20
17/04/19 14:32	26
17/04/19 15:32	23
17/04/19 16:32	25
17/04/19 17:32	26
17/04/19 18:32	39
17/04/19 19:32	65
17/04/19 20:32	66
17/04/19 21:32	77
17/04/19 22:32	55
17/04/19 23:32	68
18/04/19 00:32	66
18/04/19 01:32	50
18/04/19 02:32	61
18/04/19 03:32	63
18/04/19 04:32	72
18/04/19 05:32	72
18/04/19 06:32	57
18/04/19 07:32	48
18/04/19 08:32	44
18/04/19 09:32	39
18/04/19 10:32	39
Average	48
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
23/04/19 11:17	30
23/04/19 12:17	26
23/04/19 13:17	28
23/04/19 14:17	52
23/04/19 15:17	24
23/04/19 16:17	33
23/04/19 17:17	50
23/04/19 18:17	57
23/04/19 19:17	63
23/04/19 20:17	70
23/04/19 21:17	80
23/04/19 22:17	83
23/04/19 23:17	72
24/04/19 00:17	46
24/04/19 01:17	26
24/04/19 02:17	22
24/04/19 03:17	28
24/04/19 04:17	35
24/04/19 05:17	24
24/04/19 06:17	28
24/04/19 07:17	33
24/04/19 08:17	26
24/04/19 09:17	22
24/04/19 10:17	24
Average	41
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
29/04/19 11:46	25
29/04/19 12:46	29
29/04/19 13:46	46
29/04/19 14:46	33
29/04/19 15:46	37
29/04/19 16:46	39
29/04/19 17:46	48
29/04/19 18:46	62
29/04/19 19:46	64
29/04/19 20:46	72
29/04/19 21:46	60
29/04/19 22:46	48
29/04/19 23:46	37
30/04/19 00:46	33
30/04/19 01:46	52
30/04/19 02:46	66
30/04/19 03:46	68
30/04/19 04:46	77
30/04/19 05:46	81
30/04/19 06:46	72
30/04/19 07:46	54
30/04/19 08:46	29
30/04/19 09:46	33
30/04/19 10:46	48
Average	51
Action Level	166
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS3A - Wai Wah Centre

Date and Time	TSP Concentration (μg/m³)
04/02/19 11:15	47
04/02/19 12:15	39
04/02/19 13:15	31
04/02/19 14:15	31
04/02/19 15:15	42
04/02/19 16:15	54
04/02/19 17:15	67
04/02/19 18:15	69
04/02/19 19:15	72
04/02/19 20:15	74
04/02/19 21:15	78
04/02/19 22:15	81
04/02/19 23:15	62
05/02/19 00:15	64
05/02/19 01:15	68
05/02/19 02:15	64
05/02/19 03:15	59
05/02/19 04:15	72
05/02/19 05:15	66
05/02/19 06:15	64
05/02/19 07:15	54
05/02/19 08:15	56
05/02/19 09:15	48
05/02/19 10:15	52
Average	59
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
08/02/19 12:53	59
08/02/19 13:53	69
08/02/19 14:53	62
08/02/19 15:53	66
08/02/19 16:53	72
08/02/19 17:53	72
08/02/19 18:53	80
08/02/19 19:53	77
08/02/19 20:53	77
08/02/19 21:53	69
08/02/19 22:53	63
08/02/19 23:53	66
09/02/19 00:53	53
09/02/19 01:53	52
09/02/19 02:53	44
09/02/19 03:53	45
09/02/19 04:53	45
09/02/19 05:53	45
09/02/19 06:53	52
09/02/19 07:53	56
09/02/19 08:53	58
09/02/19 09:53	63
09/02/19 10:53	65
09/02/19 11:53	60
Average	61
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/02/19 11:28	56
14/02/19 12:28	42
14/02/19 13:28	46
14/02/19 14:28	37
14/02/19 15:28	31
14/02/19 16:28	27
14/02/19 17:28	33
14/02/19 18:28	37
14/02/19 19:28	41
14/02/19 20:28	48
14/02/19 21:28	54
14/02/19 22:28	54
14/02/19 23:28	52
15/02/19 00:28	42
15/02/19 01:28	21
15/02/19 02:28	27
15/02/19 03:28	27
15/02/19 04:28	33
15/02/19 05:28	35
15/02/19 06:28	35
15/02/19 07:28	39
15/02/19 08:28	42
15/02/19 09:28	48
15/02/19 10:28	52
Average	40
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/02/19 10:22	82
20/02/19 11:22	78
20/02/19 12:22	71
20/02/19 13:22	65
20/02/19 14:22	57
20/02/19 15:22	50
20/02/19 16:22	47
20/02/19 17:22	43
20/02/19 18:22	46
20/02/19 19:22	47
20/02/19 20:22	48
20/02/19 21:22	60
20/02/19 22:22	75
20/02/19 23:22	66
21/02/19 00:22	55
21/02/19 01:22	45
21/02/19 02:22	46
21/02/19 03:22	33
21/02/19 04:22	25
21/02/19 05:22	38
21/02/19 06:22	61
21/02/19 07:22	67
21/02/19 08:22	75
21/02/19 09:22	79
Average	57
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/02/19 11:00	55
26/02/19 12:00	56
26/02/19 13:00	56
26/02/19 14:00	56
26/02/19 15:00	59
26/02/19 16:00	64
26/02/19 17:00	70
26/02/19 18:00	71
26/02/19 19:00	60
26/02/19 20:00	67
26/02/19 21:00	60
26/02/19 22:00	54
26/02/19 23:00	35
27/02/19 00:00	28
27/02/19 01:00	28
27/02/19 02:00	26
27/02/19 03:00	21
27/02/19 04:00	26
27/02/19 05:00	40
27/02/19 06:00	39
27/02/19 07:00	42
27/02/19 08:00	45
27/02/19 09:00	48
27/02/19 10:00	50
Average	48
Action Level	200
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS4A - Wai Wah Centre

Date and Time	TSP Concentration (μg/m³)
04/03/19 11:00	64
04/03/19 12:00	67
04/03/19 13:00	69
04/03/19 14:00	62
04/03/19 15:00	48
04/03/19 16:00	46
04/03/19 17:00	45
04/03/19 18:00	45
04/03/19 19:00	42
04/03/19 20:00	38
04/03/19 21:00	44
04/03/19 22:00	52
04/03/19 23:00	54
05/03/19 00:00	48
05/03/19 01:00	49
05/03/19 02:00	44
05/03/19 03:00	42
05/03/19 04:00	38
05/03/19 05:00	34
05/03/19 06:00	36
05/03/19 07:00	41
05/03/19 08:00	42
05/03/19 09:00	48
05/03/19 10:00	54
Average	48
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
08/03/19 10:30	81
08/03/19 11:30	80
08/03/19 12:30	77
08/03/19 13:30	77
08/03/19 14:30	78
08/03/19 15:30	79
08/03/19 16:30	79
08/03/19 17:30	74
08/03/19 18:30	68
08/03/19 19:30	65
08/03/19 20:30	64
08/03/19 21:30	59
08/03/19 22:30	53
08/03/19 23:30	49
09/03/19 00:30	47
09/03/19 01:30	48
09/03/19 02:30	46
09/03/19 03:30	45
09/03/19 04:30	43
09/03/19 05:30	44
09/03/19 06:30	46
09/03/19 07:30	47
09/03/19 08:30	45
09/03/19 09:30	44
Average	60
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/03/19 14:47	83
14/03/19 15:47	97
14/03/19 16:47	86
14/03/19 17:47	79
14/03/19 18:47	92
14/03/19 19:47	96
14/03/19 20:47	50
14/03/19 21:47	33
14/03/19 22:47	22
14/03/19 23:47	26
15/03/19 00:47	33
15/03/19 01:47	41
15/03/19 02:47	33
15/03/19 03:47	30
15/03/19 04:47	30
15/03/19 05:47	31
15/03/19 06:47	33
15/03/19 07:47	69
15/03/19 08:47	74
15/03/19 09:47	74
15/03/19 10:47	85
15/03/19 11:47	89
15/03/19 12:47	88
15/03/19 13:47	45
Average	59
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/03/19 09:45	48
20/03/19 10:45	52
20/03/19 11:45	58
20/03/19 12:45	62
20/03/19 13:45	61
20/03/19 14:45	54
20/03/19 15:45	59
20/03/19 16:45	64
20/03/19 17:45	62
20/03/19 18:45	58
20/03/19 19:45	64
20/03/19 20:45	67
20/03/19 21:45	52
20/03/19 22:45	50
20/03/19 23:45	48
21/03/19 00:45	46
21/03/19 01:45	44
21/03/19 02:45	42
21/03/19 03:45	46
21/03/19 04:45	48
21/03/19 05:45	49
21/03/19 06:45	52
21/03/19 07:45	54
21/03/19 08:45	49
Average	54
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/03/19 11:41	52
26/03/19 12:41	33
26/03/19 13:41	37
26/03/19 14:41	37
26/03/19 15:41	41
26/03/19 16:41	46
26/03/19 17:41	43
26/03/19 18:41	33
26/03/19 19:41	30
26/03/19 20:41	26
26/03/19 21:41	26
26/03/19 22:41	19
26/03/19 23:41	20
27/03/19 00:41	24
27/03/19 01:41	22
27/03/19 02:41	17
27/03/19 03:41	15
27/03/19 04:41	22
27/03/19 05:41	28
27/03/19 06:41	35
27/03/19 07:41	44
27/03/19 08:41	48
27/03/19 09:41	52
27/03/19 10:41	54
Average	34
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
01/04/19 09:08	107
01/04/19 10:08	85
01/04/19 11:08	67
01/04/19 12:08	56
01/04/19 13:08	43
01/04/19 14:08	22
01/04/19 15:08	20
01/04/19 16:08	26
01/04/19 17:08	24
01/04/19 18:08	19
01/04/19 19:08	20
01/04/19 20:08	27
01/04/19 21:08	33
01/04/19 22:08	28
01/04/19 23:08	33
02/04/19 00:08	37
02/04/19 01:08	26
02/04/19 02:08	20
02/04/19 03:08	20
02/04/19 04:08	24
02/04/19 05:08	24
02/04/19 06:08	30
02/04/19 07:08	33
02/04/19 08:08	41
Average	36
Action Level	200
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS4A - Wai Wah Centre

Date and Time	TSP Concentration (μg/m³)
06/04/19 11:19	99
06/04/19 12:19	96
06/04/19 13:19	79
06/04/19 14:19	49
06/04/19 15:19	29
06/04/19 16:19	37
06/04/19 17:19	38
06/04/19 18:19	90
06/04/19 19:19	98
06/04/19 20:19	100
06/04/19 21:19	86
06/04/19 22:19	81
06/04/19 23:19	82
07/04/19 00:19	78
07/04/19 01:19	61
07/04/19 02:19	56
07/04/19 03:19	58
07/04/19 04:19	56
07/04/19 05:19	64
07/04/19 06:19	70
07/04/19 07:19	56
07/04/19 08:19	66
07/04/19 09:19	78
07/04/19 10:19	92
Average	71
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
12/04/19 10:13	36
12/04/19 11:13	45
12/04/19 12:13	53
12/04/19 13:13	57
12/04/19 14:13	74
12/04/19 15:13	43
12/04/19 16:13	55
12/04/19 17:13	70
12/04/19 18:13	79
12/04/19 19:13	83
12/04/19 20:13	85
12/04/19 21:13	85
12/04/19 22:13	85
12/04/19 23:13	60
13/04/19 00:13	43
13/04/19 01:13	28
13/04/19 02:13	21
13/04/19 03:13	30
13/04/19 04:13	34
13/04/19 05:13	32
13/04/19 06:13	28
13/04/19 07:13	32
13/04/19 08:13	36
13/04/19 09:13	32
Average	51
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
17/04/19 12:10	30
17/04/19 13:10	33
17/04/19 14:10	35
17/04/19 15:10	39
17/04/19 16:10	30
17/04/19 17:10	20
17/04/19 18:10	27
17/04/19 19:10	41
17/04/19 20:10	53
17/04/19 21:10	58
17/04/19 22:10	56
17/04/19 23:10	56
18/04/19 00:10	42
18/04/19 01:10	45
18/04/19 02:10	45
18/04/19 03:10	44
18/04/19 04:10	39
18/04/19 05:10	40
18/04/19 06:10	42
18/04/19 07:10	55
18/04/19 08:10	59
18/04/19 09:10	50
18/04/19 10:10	44
18/04/19 11:10	42
Average	43
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
23/04/19 11:04	26
23/04/19 12:04	26
23/04/19 13:04	33
23/04/19 14:04	30
23/04/19 15:04	22
23/04/19 16:04	30
23/04/19 17:04	30
23/04/19 18:04	35
23/04/19 19:04	54
23/04/19 20:04	59
23/04/19 21:04	46
23/04/19 22:04	30
23/04/19 23:04	28
24/04/19 00:04	30
24/04/19 01:04	26
24/04/19 02:04	26
24/04/19 03:04	26
24/04/19 04:04	30
24/04/19 05:04	28
24/04/19 06:04	35
24/04/19 07:04	35
24/04/19 08:04	37
24/04/19 09:04	39
24/04/19 10:04	26
Average	33
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
29/04/19 11:41	31
29/04/19 12:41	33
29/04/19 13:41	33
29/04/19 14:41	36
29/04/19 15:41	39
29/04/19 16:41	40
29/04/19 17:41	38
29/04/19 18:41	36
29/04/19 19:41	49
29/04/19 20:41	50
29/04/19 21:41	48
29/04/19 22:41	46
29/04/19 23:41	46
30/04/19 00:41	44
30/04/19 01:41	39
30/04/19 02:41	35
30/04/19 03:41	34
30/04/19 04:41	32
30/04/19 05:41	32
30/04/19 06:41	30
30/04/19 07:41	33
30/04/19 08:41	36
30/04/19 09:41	37
30/04/19 10:41	38
Average	38
Action Level	200
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS7A - Sheung Wo Che

Date and Time	TSP Concentration (μg/m³)
04/05/19 10:46	22
04/05/19 11:46	24
04/05/19 12:46	24
04/05/19 13:46	24
04/05/19 14:46	25
04/05/19 15:46	24
04/05/19 16:46	25
04/05/19 17:46	25
04/05/19 18:46	24
04/05/19 19:46	23
04/05/19 20:46	30
04/05/19 21:46	31
04/05/19 22:46	31
04/05/19 23:46	32
05/05/19 00:46	22
05/05/19 01:46	27
05/05/19 02:46	26
05/05/19 03:46	29
05/05/19 04:46	28
05/05/19 05:46	29
05/05/19 06:46	20
05/05/19 07:46	21
05/05/19 08:46	23
05/05/19 09:46	24
Average	26
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
10/05/19 09:56	41
10/05/19 10:56	42
10/05/19 11:56	47
10/05/19 12:56	44
10/05/19 13:56	40
10/05/19 14:56	39
10/05/19 15:56	36
10/05/19 16:56	37
10/05/19 17:56	38
10/05/19 18:56	41
10/05/19 19:56	47
10/05/19 20:56	45
10/05/19 21:56	52
10/05/19 22:56	57
10/05/19 23:56	69
11/05/19 00:56	70
11/05/19 01:56	67
11/05/19 02:56	48
11/05/19 03:56	40
11/05/19 04:56	34
11/05/19 05:56	37
11/05/19 06:56	38
11/05/19 07:56	36
11/05/19 08:56	35
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
16/05/19 08:35	45
16/05/19 09:35	41
16/05/19 10:35	50
16/05/19 11:35	45
16/05/19 12:35	43
16/05/19 13:35	37
16/05/19 14:35	40
16/05/19 15:35	42
16/05/19 16:35	45
16/05/19 17:35	51
16/05/19 18:35	51
16/05/19 19:35	53
16/05/19 20:35	61
16/05/19 21:35	64
16/05/19 22:35	67
16/05/19 23:35	66
17/05/19 00:35	56
17/05/19 01:35	54
17/05/19 02:35	41
17/05/19 03:35	42
17/05/19 04:35	43
17/05/19 05:35	43
17/05/19 06:35	32
17/05/19 07:35	41
Average	48
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
22/05/19 11:01	59
22/05/19 12:01	63
22/05/19 13:01	79
22/05/19 14:01	74
22/05/19 15:01	81
22/05/19 16:01	81
22/05/19 17:01	90
22/05/19 18:01	83
22/05/19 19:01	79
22/05/19 20:01	70
22/05/19 21:01	70
22/05/19 22:01	63
22/05/19 23:01	70
23/05/19 00:01	72
23/05/19 01:01	79
23/05/19 02:01	72
23/05/19 03:01	81
23/05/19 04:01	61
23/05/19 05:01	57
23/05/19 06:01	74
23/05/19 07:01	74
23/05/19 08:01	70
23/05/19 09:01	61
23/05/19 10:01	55
Average	72
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
28/05/19 11:14	81
28/05/19 12:14	96
28/05/19 13:14	105
28/05/19 14:14	114
28/05/19 15:14	92
28/05/19 16:14	87
28/05/19 17:14	79
28/05/19 18:14	92
28/05/19 19:14	81
28/05/19 20:14	81
28/05/19 21:14	63
28/05/19 22:14	70
28/05/19 23:14	79
29/05/19 00:14	70
29/05/19 01:14	83
29/05/19 02:14	70
29/05/19 03:14	81
29/05/19 04:14	90
29/05/19 05:14	87
29/05/19 06:14	77
29/05/19 07:14	77
29/05/19 08:14	70
29/05/19 09:14	87
29/05/19 10:14	83
Average	83
Action Level	171
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS12 - Fung Wo Estate

Date and Time	TSP Concentration (μg/m³)
04/05/19 11:00	29
04/05/19 12:00	32
04/05/19 13:00	32
04/05/19 14:00	32
04/05/19 15:00	32
04/05/19 16:00	31
04/05/19 17:00	32
04/05/19 18:00	32
04/05/19 19:00	36
04/05/19 20:00	36
04/05/19 21:00	38
04/05/19 22:00	42
04/05/19 23:00	36
05/05/19 00:00	38
05/05/19 01:00	28
05/05/19 02:00	27
05/05/19 03:00	20
05/05/19 04:00	25
05/05/19 05:00	28
05/05/19 06:00	23
05/05/19 07:00	21
05/05/19 08:00	21
05/05/19 09:00	25
05/05/19 10:00	28
Average	30
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
10/05/19 11:57	92
10/05/19 12:57	55
10/05/19 13:57	52
10/05/19 14:57	50
10/05/19 15:57	48
10/05/19 16:57	52
10/05/19 17:57	72
10/05/19 18:57	92
10/05/19 19:57	107
10/05/19 20:57	120
10/05/19 21:57	150
10/05/19 22:57	157
10/05/19 23:57	125
11/05/19 00:57	116
11/05/19 01:57	101
11/05/19 02:57	77
11/05/19 03:57	70
11/05/19 04:57	61
11/05/19 05:57	52
11/05/19 06:57	57
11/05/19 07:57	83
11/05/19 08:57	83
11/05/19 09:57	87
11/05/19 10:57	90
Average	85
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
16/05/19 10:13	61
16/05/19 11:13	68
16/05/19 12:13	79
16/05/19 13:13	83
16/05/19 14:13	70
16/05/19 15:13	57
16/05/19 16:13	59
16/05/19 17:13	72
16/05/19 18:13	70
16/05/19 19:13	79
16/05/19 20:13	79
16/05/19 21:13	87
16/05/19 22:13	68
16/05/19 23:13	66
17/05/19 00:13	79
17/05/19 01:13	81
17/05/19 02:13	81
17/05/19 03:13	52
17/05/19 04:13	59
17/05/19 05:13	61
17/05/19 06:13	61
17/05/19 07:13	57
17/05/19 08:13	52
17/05/19 09:13	59
Average	68
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
22/05/19 10:43	39
22/05/19 11:43	42
22/05/19 12:43	45
22/05/19 13:43	53
22/05/19 14:43	55
22/05/19 15:43	58
22/05/19 16:43	56
22/05/19 17:43	42
22/05/19 18:43	48
22/05/19 19:43	45
22/05/19 20:43	44
22/05/19 21:43	42
22/05/19 22:43	39
22/05/19 23:43	37
23/05/19 00:43	35
23/05/19 01:43	39
23/05/19 02:43	42
23/05/19 03:43	39
23/05/19 04:43	48
23/05/19 05:43	48
23/05/19 06:43	48
23/05/19 07:43	48
23/05/19 08:43	41
23/05/19 09:43	38
Average	45
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
28/05/19 11:06	50
28/05/19 12:06	52
28/05/19 13:06	58
28/05/19 14:06	55
28/05/19 15:06	41
28/05/19 16:06	51
28/05/19 17:06	50
28/05/19 18:06	45
28/05/19 19:06	53
28/05/19 20:06	55
28/05/19 21:06	58
28/05/19 22:06	61
28/05/19 23:06	56
29/05/19 00:06	50
29/05/19 01:06	49
29/05/19 02:06	47
29/05/19 03:06	53
29/05/19 04:06	50
29/05/19 05:06	43
29/05/19 06:06	41
29/05/19 07:06	40
29/05/19 08:06	44
29/05/19 09:06	41
29/05/19 10:06	44
Average	50
Action Level	168
Limit Level	260

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

AMS13 - Fung Wo Estate

Date and Time	TSP Concentration (μg/m³)
04/02/19 11:40	48
04/02/19 12:40	42
04/02/19 13:40	46
04/02/19 14:40	44
04/02/19 15:40	46
04/02/19 16:40	48
04/02/19 17:40	56
04/02/19 18:40	54
04/02/19 19:40	56
04/02/19 20:40	61
04/02/19 21:40	65
04/02/19 22:40	58
04/02/19 23:40	56
05/02/19 00:40	51
05/02/19 01:40	44
05/02/19 02:40	41
05/02/19 03:40	38
05/02/19 04:40	42
05/02/19 05:40	46
05/02/19 06:40	41
05/02/19 07:40	38
05/02/19 08:40	41
05/02/19 09:40	42
05/02/19 10:40	48
Average	48
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
08/02/19 10:11	49
08/02/19 11:11	52
08/02/19 12:11	53
08/02/19 13:11	57
08/02/19 14:11	56
08/02/19 15:11	55
08/02/19 16:11	49
08/02/19 17:11	56
08/02/19 18:11	54
08/02/19 19:11	52
08/02/19 20:11	56
08/02/19 21:11	51
08/02/19 22:11	58
08/02/19 23:11	58
09/02/19 00:11	55
09/02/19 01:11	50
09/02/19 02:11	48
09/02/19 03:11	46
09/02/19 04:11	46
09/02/19 05:11	44
09/02/19 06:11	46
09/02/19 07:11	45
09/02/19 08:11	45
09/02/19 09:11	44
Average	51
Action Level	174
Limit Level	260

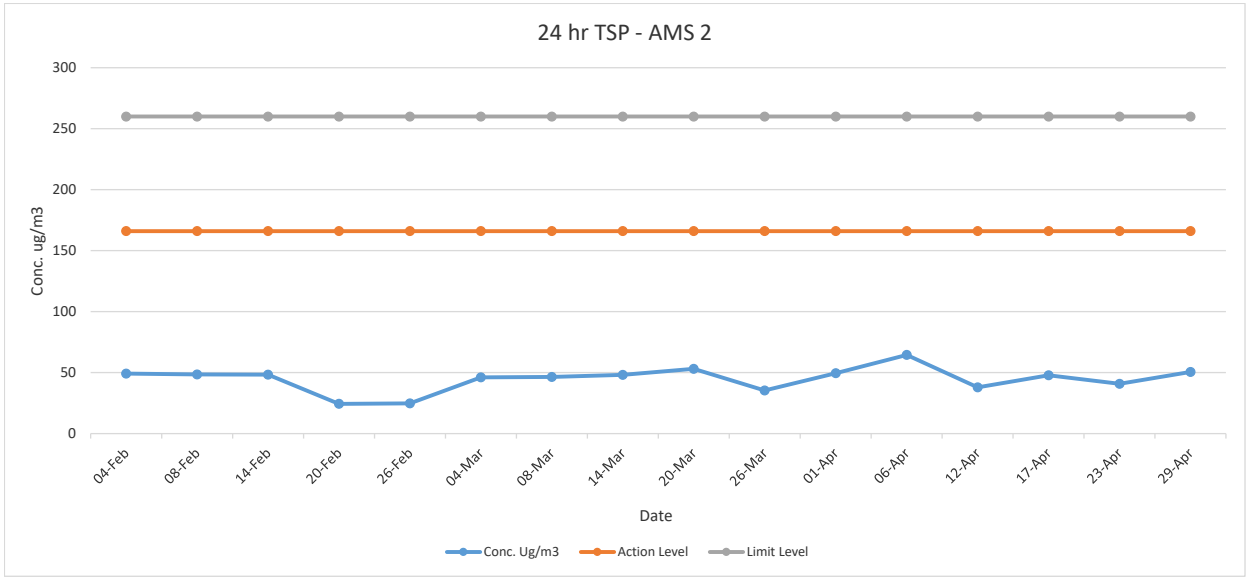
Date and Time	TSP Concentration (μg/m³)
14/02/19 10:14	52
14/02/19 11:14	54
14/02/19 12:14	56
14/02/19 13:14	56
14/02/19 14:14	56
14/02/19 15:14	54
14/02/19 16:14	58
14/02/19 17:14	62
14/02/19 18:14	58
14/02/19 19:14	62
14/02/19 20:14	64
14/02/19 21:14	54
14/02/19 22:14	52
14/02/19 23:14	48
15/02/19 00:14	50
15/02/19 01:14	46
15/02/19 02:14	42
15/02/19 03:14	46
15/02/19 04:14	44
15/02/19 05:14	48
15/02/19 06:14	50
15/02/19 07:14	52
15/02/19 08:14	54
15/02/19 09:14	54
Average	53
Action Level	174
Limit Level	260

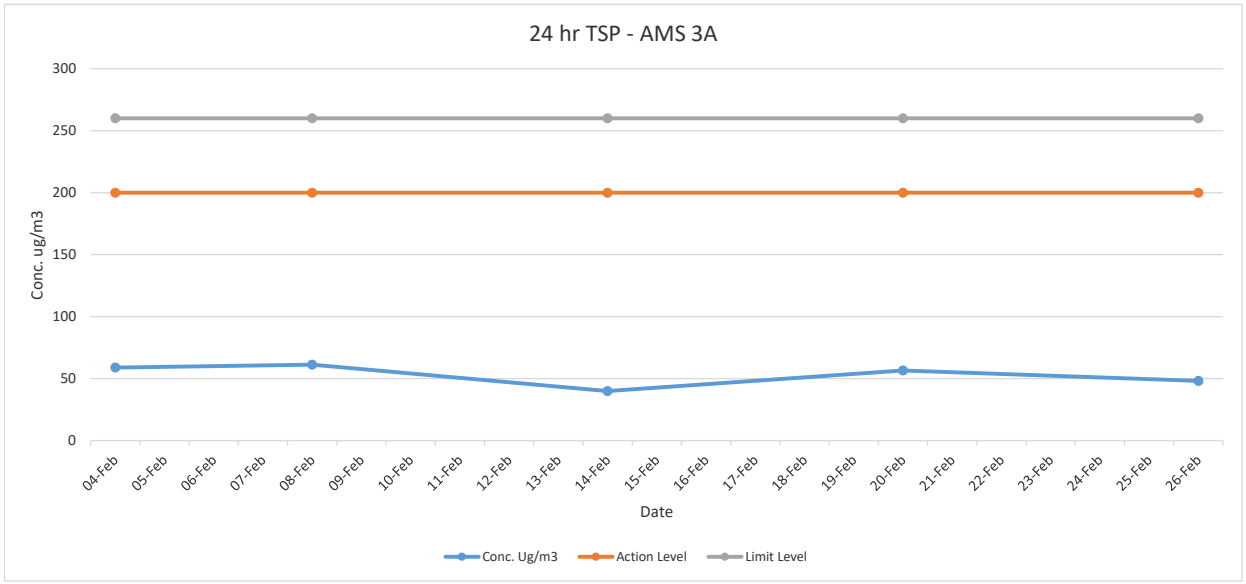
Date and Time	TSP Concentration (μg/m³)
20/02/19 11:52	41
20/02/19 12:52	26
20/02/19 13:52	23
20/02/19 14:52	23
20/02/19 15:52	24
20/02/19 16:52	25
20/02/19 17:52	36
20/02/19 18:52	44
20/02/19 19:52	52
20/02/19 20:52	65
20/02/19 21:52	85
20/02/19 22:52	78
20/02/19 23:52	58
21/02/19 00:52	54
21/02/19 01:52	45
21/02/19 02:52	40
21/02/19 03:52	33
21/02/19 04:52	31
21/02/19 05:52	26
21/02/19 06:52	27
21/02/19 07:52	39
21/02/19 08:52	40
21/02/19 09:52	42
21/02/19 10:52	41
Average	42
Action Level	174
Limit Level	260

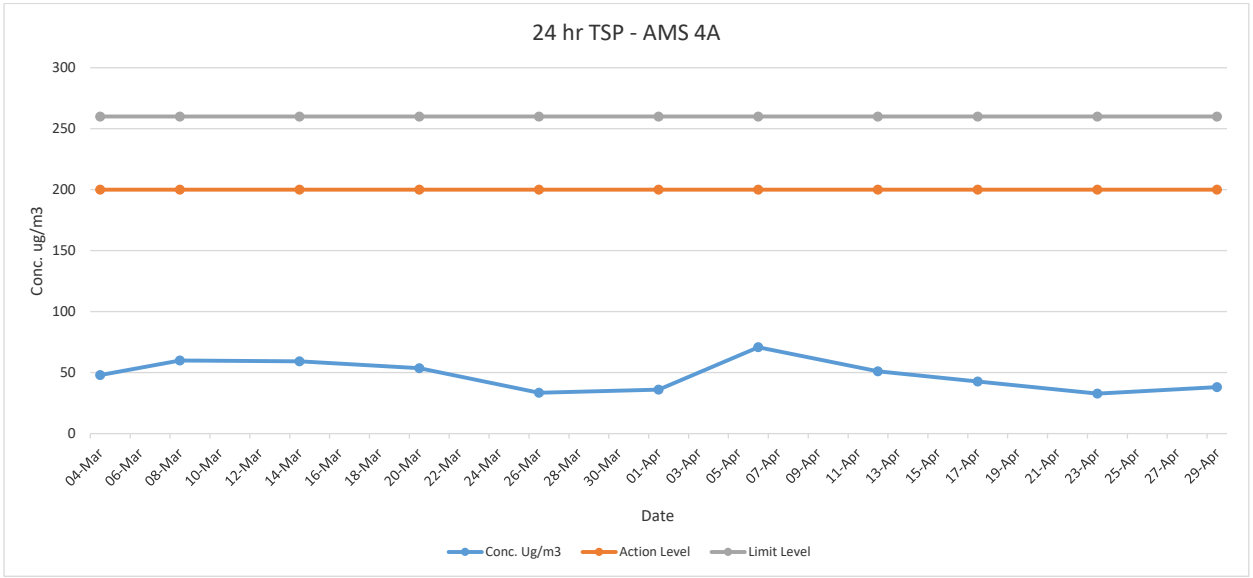
Date and Time	TSP Concentration (μg/m³)
26/02/19 12:17	66
26/02/19 13:17	57
26/02/19 14:17	59
26/02/19 15:17	64
26/02/19 16:17	65
26/02/19 17:17	73
26/02/19 18:17	78
26/02/19 19:17	86
26/02/19 20:17	84
26/02/19 21:17	79
26/02/19 22:17	84
26/02/19 23:17	77
27/02/19 00:17	53
27/02/19 01:17	50
27/02/19 02:17	48
27/02/19 03:17	47
27/02/19 04:17	42
27/02/19 05:17	49
27/02/19 06:17	44
27/02/19 07:17	48
27/02/19 08:17	53
27/02/19 09:17	56
27/02/19 10:17	60
27/02/19 11:17	62
Average	62
Action Level	174
Limit Level	260

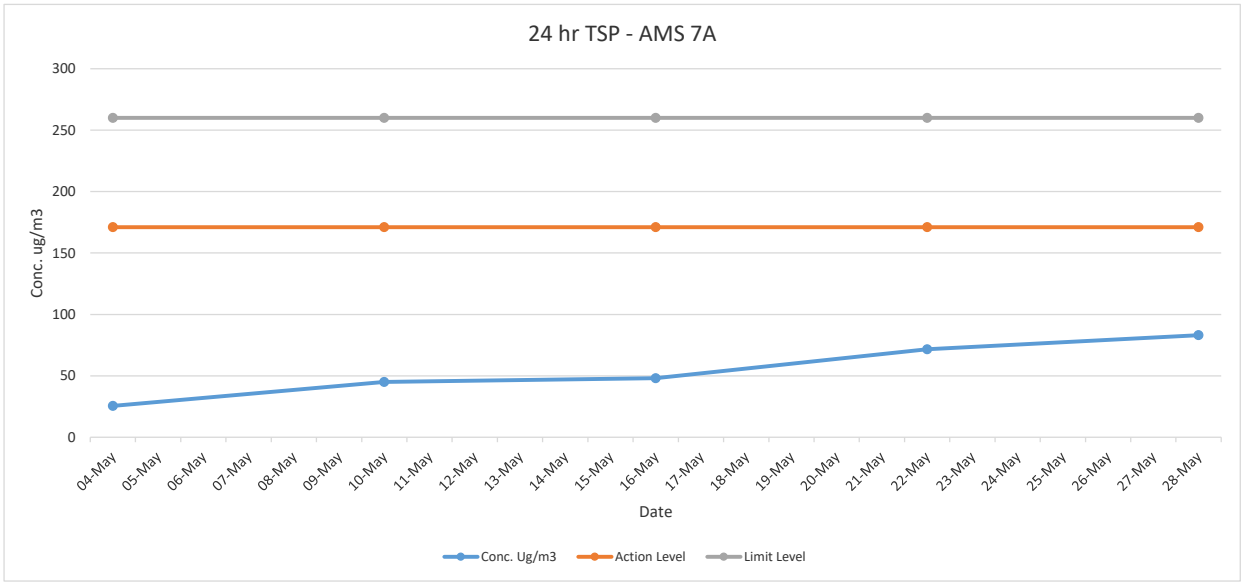
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

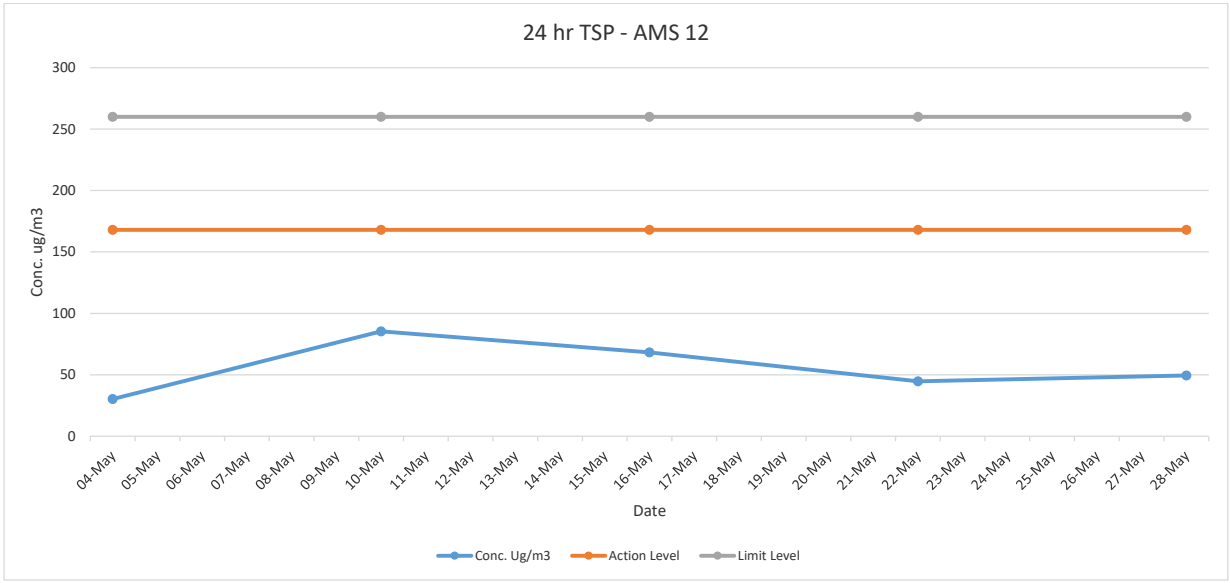
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

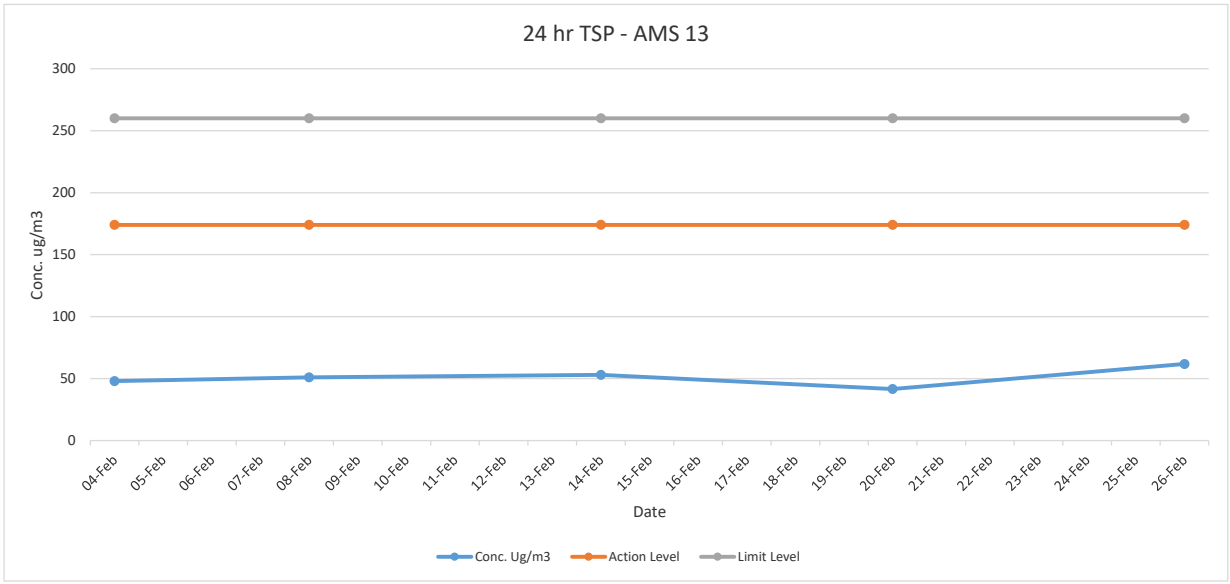

24 hr TSP - AMS 2
300
250
200
150
100
50
0
Conc. ug/m3
04-Feb
08-Feb
14-Feb
20-Feb
26-Feb
04-Mar
08-Mar
14-Mar
20-Mar
26-Mar
01-Apr
06-Apr
12-Apr
17-Apr
23-Apr
29-Apr
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 3A
300
250
200
150
100
50
0
Conc. ug/m3
04-Feb
05-Feb
06-Feb
07-Feb
08-Feb
09-Feb
10-Feb
11-Feb
12-Feb
13-Feb
14-Feb
15-Feb
16-Feb
17-Feb
18-Feb
19-Feb
20-Feb
21-Feb
22-Feb
23-Feb
24-Feb
25-Feb
26-Feb
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 4A
300
250
200
150
100
50
0
Conc. ug/m3
04-Mar
06-Mar
08-Mar
10-Mar
12-Mar
14-Mar
16-Mar
18-Mar
20-Mar
22-Mar
24-Mar
26-Mar
28-Mar
30-Mar
01-Apr
03-Apr
05-Apr
07-Apr
09-Apr
11-Apr
13-Apr
15-Apr
17-Apr
19-Apr
21-Apr
23-Apr
25-Apr
27-Apr
29-Apr
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 7A
300
250
200
150
100
50
0
Conc. ug/m3
04-May
05-May
06-May
07-May
08-May
09-May
10-May
11-May
12-May
13-May
14-May
15-May
16-May
17-May
18-May
19-May
20-May
21-May
22-May
23-May
24-May
25-May
26-May
27-May
28-May
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 12
300
250
200
150
100
50
0
Conc. ug/m3
04-May
05-May
06-May
07-May
08-May
09-May
10-May
11-May
12-May
13-May
14-May
15-May
16-May
17-May
18-May
19-May
20-May
21-May
22-May
23-May
24-May
25-May
26-May
27-May
28-May
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 13
300
250
200
150
100
50
0
Conc. ug/m3
04-Feb
05-Feb
06-Feb
07-Feb
08-Feb
09-Feb
10-Feb
11-Feb
12-Feb
13-Feb
14-Feb
15-Feb
16-Feb
17-Feb
18-Feb
19-Feb
20-Feb
21-Feb
22-Feb
23-Feb
24-Feb
25-Feb
26-Feb
Date
Conc. Ug/m3
Action Level
Limit Level

Impact Noise Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

NMS 1 Scenery Court

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	08:30	68.2	62.5	71.0	75	68.2	Fine	1.2
08-Feb-19	09:00	68.4	65.0	71.0		68.4	Fine	0.8
14-Feb-19	09:00	67.6	64.0	70.5		67.6	Fine	1.6
20-Feb-19	08:30	66.8	61.0	69.0		66.8	Fine	1.3
26-Feb-19	08:00	66.3	64.5	69.0		66.3	Sunny	1.7
05-Mar-19	08:30	63.5	61.0	65.5		63.5	Fine	1.2
12-Mar-19	08:00	69.2	59.5	72.0		69.2	Fine	1.1
19-Mar-19	08:30	70.1	61.0	75.5		70.1	Fine	0.3
26-Mar-19	09:45	70.8	66.5	73.5		70.8	Sunny	1.2
02-Apr-19	13:35	61.6	57.5	65.0		61.6	Fine	0.8
12-Apr-19	09:46	61.2	59.5	62.5		61.2	Hazy	0.1
18-Apr-19	14:15	70.7	61.5	76.5		70.7	Sunny	1.6
24-Apr-19	14:13	62.4	59.0	67.0		62.4	Sunny	0.9
30-Apr-19	12:46	69.5	67.5	71.0		69.5	Overcast	0.8
11-May-19	13:02	67.6	61.5	71.0		67.6	Fine	1.0
17-May-19	13:05	66.4	60.5	67.0		66.4	Sunny	1.3
23-May-19	08:00	70.6	64.5	72.0		70.6	Fine	0.9
29-May-19	13:40	66.8	62.5	69.0		66.8	Overcast	1.3

NMS 2 Villa Le Parc

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	13:00	58.5	51.5	60.0	75	58.5	Fine	1.2
08-Feb-19	09:45	59.5	53.5	61.0		59.5	Fine	1.2
14-Feb-19	14:15	58.7	51.5	60.0		58.7	Fine	1.1
20-Feb-19	13:00	58.0	52.5	59.5		58.0	Fine	1.1
26-Feb-19	13:00	59.5	51.0	60.5		59.5	Sunny	1.4
05-Mar-19	13:40	61.2	51.5	62.0		61.2	Fine	1.4
12-Mar-19	13:00	61.0	51.5	62.0		61.0	Fine	1.1
19-Mar-19	13:40	61.5	50.5	62.5		61.5	Fine	1.2
26-Mar-19	13:12	62.0	52.0	63.5		62.0	Sunny	1.3
02-Apr-19	08:31	61.8	57.0	63.0		61.8	Fine	0.6
12-Apr-19	10:00	59.8	54.5	61.5		59.8	Hazy	1.2
18-Apr-19	09:00	62.4	59.0	65.5		62.4	Sunny	0.8
24-Apr-19	08:58	62.4	56.0	64.0		62.4	Sunny	1.4
30-Apr-19	14:40	57.3	53.5	59.0		57.3	Overcast	0.6
11-May-19	08:30	59.2	52.5	62.0		59.2	Fine	1.1
17-May-19	08:40	60.6	52.5	63.0		60.6	Sunny	1.2
23-May-19	13:00	61.6	50.5	62.0		61.6	Fine	1.2
29-May-19	08:35	59.0	52.0	60.5		59.0	Overcast	1.0

NMS 3 Hilton Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	09:10	70.2	63.0	72.0	75	70.2	Fine	1.2
08-Feb-19	13:40	68.5	65.5	71.0		68.5	Fine	0.8
14-Feb-19	09:40	66.8	64.5	69.5		66.8	Fine	1.2
20-Feb-19	09:05	66.2	60.0	69.5		66.2	Fine	1.4
26-Feb-19	08:35	64.0	61.5	66.5		64.0	Sunny	1.2
05-Mar-19	09:55	66.8	64.0	68.5		66.8	Fine	1.2
12-Mar-19	08:35	69.2	59.5	71.5		69.2	Fine	1.2
19-Mar-19	09:05	71.0	61.0	73.5		71.0	Fine	1.0
26-Mar-19	09:11	70.1	61.5	73.0		70.1	Sunny	0.8
02-Apr-19	13:02	71.5	61.0	75.5		71.5	Fine	1.1
12-Apr-19	10:33	63.9	61.5	66.0		63.9	Hazy	0.0
18-Apr-19	13:41	70.6	60.5	76.5		70.6	Sunny	0.7
24-Apr-19	13:40	72.0	62.5	76.0		72.0	Sunny	0.9
30-Apr-19	11:59	68.1	66.0	69.5		68.1	Overcast	0.8
11-May-19	11:23	71.2	66.0	73.5		71.2	Fine	1.2
17-May-19	11:44	71.8	66.5	74.5		71.8	Sunny	0.8
23-May-19	08:34	72.3	66.0	74.5		72.3	Fine	1.2
29-May-19	13:00	72.2	66.5	74.0		72.2	Overcast	0.7

NMS 4 Tin Liu

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	11:35	71.6	66.5	73.0		71.6	Fine	1.4
08-Feb-19	10:20	71.6	67.5	74.0		71.6	Fine	1.1
14-Feb-19	13:35	71.4	67.5	73.0		71.4	Fine	1.6
20-Feb-19	11:55	71.4	66.0	73.0		71.4	Fine	1.4
26-Feb-19	11:35	71.4	62.0	73.0		71.4	Sunny	1.4
05-Mar-19	13:00	71.4	65.0	73.5		71.4	Fine	1.4
12-Mar-19	11:35	66.8	60.5	69.5		66.8	Fine	1.0
19-Mar-19	13:00	72.1	61.5	75.5		72.1	Fine	1.0
26-Mar-19	13:00	71.6	62.0	74.0		71.6	Sunny	1.4
02-Apr-19	09:04	71.4	60.5	74.5	75	71.4	Fine	0.8
12-Apr-19	10:40	66.3	63.0	68.5		66.3	Hazy	0.5
18-Apr-19	09:33	72.6	61.5	76.0		72.6	Sunny	1.2
24-Apr-19	09:35	72.1	62.0	76.0		72.1	Sunny	1.2
30-Apr-19	13:53	70.2	65.0	72.5		70.2	Overcast	0.7
11-May-19	09:07	72.6	66.5	75.0		72.6	Fine	1.2
17-May-19	09:18	73.1	67.0	76.0		73.1	Sunny	1.0
23-May-19	11:33	72.1	66.0	75.5		72.1	Fine	1.3
29-May-19	09:11	72.1	67.5	76.5		72.1	Overcast	1.2

NMS 5A Wai Wah Centre

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	09:45	69.2	64.0	73.0		69.2	Fine	1.3
08-Feb-19	13:00	73.1	69.0	73.5		73.1	Fine	1.3
14-Feb-19	10:20	72.6	67.5	73.5		72.6	Fine	1.1
20-Feb-19	09:40	68.0	66.5	71.0		68.0	Fine	1.1
26-Feb-19	09:10	73.4	68.0	76.0		73.4	Sunny	1.4
05-Mar-19	10:35	68.1	65.5	72.0		68.1	Fine	1.1
12-Mar-19	09:10	72.5	63.0	75.5		72.5	Fine	1.1
19-Mar-19	09:40	73.1	62.5	78.0		73.1	Fine	0.7
26-Mar-19	09:55	74.5	64.5	78.0		74.5	Sunny	0.7
02-Apr-19	11:35	74.6	68.0	77.0	75	74.6	Fine	1.6
12-Apr-19	13:03	71.8	68.5	73.5		71.8	Hazy	0.0
18-Apr-19	13:02	73.5	69.0	75.5		73.5	Sunny	1.3
24-Apr-19	13:00	73.5	67.5	77.0		73.5	Sunny	1.2
30-Apr-19	11:24	73.0	70.5	75.5		73.0	Overcast	0.9
11-May-19	10:48	72.8	67.5	74.5		72.8	Fine	1.1
17-May-19	10:58	70.9	66.0	73.0		70.9	Sunny	1.4
23-May-19	09:08	73.6	69.5	77.0		73.6	Fine	1.4
29-May-19	11:33	74.1	69.5	77.0		74.1	Overcast	0.9

NMS 6A Wai Wah Centre

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	10:20	68.5	63.0	72.0		68.5	Fine	0.8
08-Feb-19	11:35	72.4	68.0	74.5		72.4	Fine	1.2
14-Feb-19	10:55	71.2	66.5	73.0		71.2	Fine	1.4
20-Feb-19	10:15	67.4	65.5	69.5		67.4	Fine	1.4
26-Feb-19	09:45	72.5	67.5	76.0		72.5	Sunny	1.2
05-Mar-19	11:10	69.2	66.0	72.5		69.2	Fine	1.4
12-Mar-19	09:45	71.6	61.5	74.0		71.6	Fine	1.1
19-Mar-19	10:15	72.6	63.0	75.5		72.6	Fine	1.6
26-Mar-19	10:55	74.7	72.0	77.0		74.7	Sunny	1.4
02-Apr-19	11:00	72.4	66.0	75.0	75	72.4	Fine	0.9
12-Apr-19	11:23	71.4	67.5	73.5		71.4	Hazy	1.4
18-Apr-19	11:28	73.6	66.5	76.5		73.6	Sunny	1.2
24-Apr-19	11:29	71.0	65.0	74.5		71.0	Sunny	1.6
30-Apr-19	10:53	73.3	70.5	75.5		73.3	Overcast	0.8
11-May-19	10:16	73.2	68.5	76.5		73.2	Fine	1.2
17-May-19	10:25	74.0	66.5	78.0		74.0	Sunny	1.1
23-May-19	09:41	74.2	69.0	77.5		74.2	Fine	1.1
29-May-19	11:00	73.7	69.0	76.5		73.7	Overcast	1.6

NMS 7 Tin Liu

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	11:00	74.2	69.0	77.0		74.2	Fine	1.2
08-Feb-19	10:55	73.5	68.0	76.0		73.5	Fine	1.2
14-Feb-19	13:00	74.1	69.5	77.5		74.1	Fine	1.4
20-Feb-19	11:20	73.2	69.5	77.0		73.2	Fine	1.1
26-Feb-19	11:00	74.2	65.5	78.0		74.2	Sunny	1.1
05-Mar-19	11:50	74.1	67.5	77.0		74.1	Fine	1.2
12-Mar-19	10:25	64.3	60.0	66.5		64.3	Fine	0.8
19-Mar-19	11:35	74.1	62.0	77.5		74.1	Fine	1.1
26-Mar-19	11:08	73.2	63.5	76.0		73.2	Sunny	1.3
02-Apr-19	09:42	73.7	71.0	78.5	75	73.7	Fine	0.9
12-Apr-19	11:20	67.7	62.5	72.5		67.7	Hazy	0.4
18-Apr-19	10:10	74.1	69.0	77.0		74.1	Sunny	0.7
24-Apr-19	10:11	72.8	68.5	75.5		72.8	Sunny	1.1
30-Apr-19	13:26	69.9	65.5	73.0		69.9	Overcast	0.7
11-May-19	09:40	74.1	68.0	77.5		74.1	Fine	1.6
17-May-19	09:50	74.7	69.0	78.0		74.7	Sunny	1.4
23-May-19	11:01	73.0	66.0	77.5		73.0	Fine	1.0
29-May-19	09:44	73.6	69.0	78.0		73.6	Overcast	0.7

NMS 8 Shatin Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	09:02	65.5	63.0	67.0		65.5	Fine	0.5
11-Feb-19	09:44	65.8	64.5	67.0		65.8	Fine	0.4
18-Feb-19	08:30	68.6	64.5	71.0		68.6	Fine	1.2
25-Feb-19	09:38	64.6	63.0	66.0		64.6	Fine	0.2
04-Mar-19	09:13	65.7	65.0	67.5		65.7	Fine	0.3
11-Mar-19	08:00	71.4	61.5	73.5		71.4	Fine	1.2
18-Mar-19	08:00	70.3	60.5	72.5		70.3	Fine	1.3
25-Mar-19	08:40	69.1	61.0	72.5		69.1	Sunny	1.2
01-Apr-19	16:00	72.1	66.0	73.5	75	72.1	Overcast	0.9
11-Apr-19	09:29	69.2	59.5	73.0		69.2	Overcast	1.0
17-Apr-19	09:00	70.2	60.0	72.5		70.2	Sunny	1.1
23-Apr-19	09:03	70.9	61.0	73.0		70.9	Sunny	0.8
29-Apr-19	09:00	71.2	61.5	73.0		71.2	Overcast	0.7
10-May-19	10:11	66.2	65.0	68.5		66.2	Sunny	0.2
16-May-19	08:35	70.6	66.5	73.0		70.6	Sunny	1.0
22-May-19	08:02	71.2	66.0	74.0		71.2	Fine	0.7
28-May-19	08:33	72.1	66.5	75.5		72.1	Overcast	1.2

NMS 9 Lek Yuen Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	09:38	64.1	58.5	65.5		64.1	Fine	0.0
11-Feb-19	10:37	64.0	62.0	65.0		64.0	Fine	0.3
18-Feb-19	09:45	68.2	62.0	70.5		68.2	Fine	1.4
25-Feb-19	11:05	62.3	61.0	65.0		62.3	Fine	0.3
04-Mar-19	11:08	62.9	62.5	65.0		62.9	Fine	0.1
11-Mar-19	09:15	64.5	60.0	67.5		64.5	Fine	0.7
18-Mar-19	09:15	63.2	59.5	65.5		63.2	Fine	0.8
25-Mar-19	09:55	64.4	59.0	69.0		64.4	Sunny	0.8
01-Apr-19	14:43	64.4	59.0	66.5	75	64.4	Overcast	1.2
11-Apr-19	10:10	64.1	59.0	66.0		64.1	Overcast	0.8
17-Apr-19	10:14	63.4	58.5	65.0		63.4	Sunny	0.7
23-Apr-19	10:15	63.6	57.5	66.0		63.6	Sunny	1.3
29-Apr-19	10:12	66.1	62.0	69.0		66.1	Overcast	1.2
10-May-19	10:47	65.0	62.0	67.0		65.0	Sunny	0.1
16-May-19	09:46	67.4	60.5	69.5		67.4	Sunny	1.4
22-May-19	09:11	68.6	66.5	71.5		68.6	Fine	1.1
28-May-19	09:09	70.6	67.0	72.0		70.6	Overcast	1.1

NMS 10A Shatin Tsung Tsin School

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	10:12	63.8	60.0	66.5	70	63.8	Fine	0.0
11-Feb-19	11:14	65.2	60.5	68.0		65.2	Fine	0.4
18-Feb-19	10:20	66.4	61.0	68.5		66.4	Fine	1.4
25-Feb-19	11:50	64.9	63.0	65.0		64.9	Fine	0.3
04-Mar-19	11:46	64.6	61.5	66.0	65	64.6	Fine	0.3
11-Mar-19	09:50	72.0	64.0	77.5	70	68.7*	Fine	0.8
18-Mar-19	09:55	71.0	63.5	77.5		66.1*	Fine	1.0
25-Mar-19	10:30	72.4	63.5	76.0		69.5*	Sunny	1.3
01-Apr-19	14:10	69.0	65.0	77.5		69.0	Overcast	1.4
11-Apr-19	10:48	71.5	64.0	73.5		67.5*	Overcast	0.6
17-Apr-19	10:50	72.0	63.5	74.5		68.7*	Sunny	0.5
23-Apr-19	10:51	72.5	65.0	77.5		69.7*	Sunny	0.6
29-Apr-19	10:49	64.1	58.5	67.0		64.1	Overcast	0.7
10-May-19	11:21	65.8	60.5	68.5		65.8	Sunny	0.1
16-May-19	10:23	63.2	58.5	64.5		63.2	Sunny	1.0
22-May-19	09:45	70.6	66.0	73.0		64.7*	Fine	1.4
28-May-19	09:43	63.1	58.5	65.0		63.1	Overcast	1.5

Note: (1) Since the measured noise level was greater than the limit level, construction noise level (CNL) was appplied on 11/3, 18/3, 25/3, 11/4, 17/4, 13/4 and 22/5, where Calculated CNL = Measured Noise Level during operation – Baseline (69.3 dB(A)).
(2) According to the school schedule, there was an exam period from 4/3 to 8/3.

NMS 11 Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	09:05	57.9	52.0	61.0	75	57.9	Fine	0.0
11-Feb-19	12:53	60.6	52.5	62.0		60.6	Fine	0.2
18-Feb-19	16:05	68.4	63.5	71.0		68.4	Fine	1.2
25-Feb-19	15:08	61.0	53.0	61.5		61.0	Fine	0.1
04-Mar-19	14:12	61.1	53.5	63.0		61.1	Fine	0.1
11-Mar-19	11:00	71.2	62.0	72.5		71.2	Fine	2.9
18-Mar-19	11:25	70.6	61.5	73.0		70.6	Fine	0.7
25-Mar-19	11:40	70.6	61.5	72.5		70.6	Sunny	1.7
01-Apr-19	09:05	71.1	62.0	72.5		71.1	Overcast	1.1
11-Apr-19	09:33	72.0	62.5	74.0		72.0	Overcast	1.0
17-Apr-19	16:00	71.2	61.5	73.5		71.2	Sunny	1.2
23-Apr-19	13:32	71.0	58.5	73.0		71.0	Sunny	0.6
29-Apr-19	09:34	68.6	62.0	72.5		68.6	Overcast	0.7
10-May-19	11:58	60.8	52.5	63.0		60.8	Sunny	0.3
16-May-19	16:02	66.5	61.5	69.0		66.5	Sunny	1.4
22-May-19	13:00	66.1	60.5	68.0		66.1	Fine	1.1
28-May-19	13:00	66.4	61.0	69.0		66.4	Overcast	1.4

NMS 12 SKH Holy Spirit Primary School

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	10:48	62.9	59.0	65.0	70	62.9	Fine	0.3
11-Feb-19	13:21	59.0	56.0	61.5		59.0	Fine	0.2
18-Feb-19	10:55	64.1	58.0	65.5		64.1	Fine	1.1
25-Feb-19	12:37	62.3	59.0	63.0		62.3	Fine	0.2
04-Mar-19	12:14	59.5	57.5	62.0		59.5	Fine	0.2
11-Mar-19	10:25	65.0	59.5	68.0		65.0	Fine	0.8
18-Mar-19	10:30	64.2	59.0	68.0		64.2	Fine	1.4
25-Mar-19	11:05	65.6	60.0	69.5	65	59.1*	Sunny	1.2
01-Apr-19	13:38	63.5	65.0	77.5	70	63.5	Overcast	0.7
11-Apr-19	11:21	63.7	58.0	69.0		63.7	Overcast	0.4
17-Apr-19	11:25	64.0	57.5	67.5		64.0	Sunny	0.6
23-Apr-19	11:23	64.6	56.5	65.5		64.6	Sunny	0.9
29-Apr-19	10:28	62.7	58.0	64.5		62.7	Overcast	0.8
10-May-19	12:36	59.5	55.5	62.0		59.5	Sunny	0.2
16-May-19	10:57	62.8	57.5	64.5		62.8	Sunny	1.2
22-May-19	10:19	64.6	61.5	69.0		64.6	Fine	0.7
28-May-19	10:17	64.2	60.0	66.0		64.2	Overcast	1.0

Note: (1) Since the measured noise level was greater than the limit level, construction noise level (CNL) was appplied on 25/3/2019, where Calculated CNL = Measured Noise Level during operation – Baseline (64.5 dB(A)).
(2) According to the school schedule, there was an exam period from 21/3 to 26/3.

NMS 13 Lek Yuen Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	11:26	58.7	56.0	59.5	75	58.7	Fine	0.6
11-Feb-19	14:18	60.5	55.2	68.0		60.5	Fine	0.2
18-Feb-19	11:30	65.5	59.0	67.0		65.5	Fine	1.2
25-Feb-19	12:37	62.3	59.0	63.0		62.3	Fine	0.2
04-Mar-19	12:51	61.3	59.0	67.0		61.3	Fine	0.2
11-Mar-19	11:20	72.2	61.0	74.5		72.2	Fine	1.1
18-Mar-19	11:05	71.3	60.0	74.0		71.3	Fine	1.2
25-Mar-19	15:20	73.1	61.5	75.5		73.1	Sunny	1.1
01-Apr-19	13:01	64.8	60.0	67.0		64.8	Overcast	0.6
11-Apr-19	11:55	66.6	61.0	70.0		66.6	Overcast	1.3
17-Apr-19	11:57	65.4	54.5	68.0		65.4	Sunny	1.0
23-Apr-19	13:00	66.1	60.0	69.5		66.1	Sunny	1.2
29-Apr-19	11:04	67.6	62.5	71.5		67.6	Overcast	1.3
10-May-19	13:18	55.4	53.5	63.0		55.4	Sunny	0.2
16-May-19	11:30	63.0	61.5	67.5		63.0	Sunny	0.8
22-May-19	10:53	70.6	63.0	72.5		70.6	Fine	0.9
28-May-19	10:52	71.0	63.5	73.0		71.0	Overcast	1.2

NMS 14 Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	09:40	60.1	56.0	62.0	75	60.1	Fine	0.0
11-Feb-19	12:18	60.4	56.5	62.0		60.4	Fine	0.2
18-Feb-19	15:30	66.7	59.0	69.0		66.7	Fine	1.1
25-Feb-19	15:51	61.0	57.0	62.5		61.0	Fine	0.0
04-Mar-19	14:47	60.6	57.0	63.5		60.6	Fine	0.2
11-Mar-19	11:55	69.2	61.0	71.5		69.2	Fine	1.6
18-Mar-19	11:45	70.6	61.5	73.5		70.6	Fine	1.1
25-Mar-19	15:55	70.2	61.5	73.0		70.2	Sunny	1.2
01-Apr-19	09:40	63.2	57.5	64.5		63.2	Overcast	0.7
11-Apr-19	10:11	63.4	57.5	65.5		63.4	Overcast	1.1
17-Apr-19	15:25	64.2	58.5	66.0		64.2	Sunny	1.0
23-Apr-19	11:23	64.7	54.0	67.0		64.7	Sunny	1.2
29-Apr-19	10:10	69.1	63.0	74.5		69.1	Overcast	1.1
10-May-19	13:55	60.7	56.0	62.5		60.7	Sunny	0.2
16-May-19	15:28	68.2	63.5	70.5		68.2	Sunny	1.2
22-May-19	11:30	68.1	60.5	69.5		68.1	Fine	1.1
28-May-19	11:33	67.6	60.0	69.0		67.6	Overcast	1.5

NMS 15 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	14:55	66.5	61.0	68.0	75	66.5	Fine	1.6
08-Feb-19	09:30	63.9	59.5	66.0		63.9	Fine	1.1
14-Feb-19	16:55	67.4	62.0	69.0		67.4	Fine	0.0
20-Feb-19	15:40	65.8	60.5	67.5		65.8	Fine	1.4
26-Feb-19	15:55	66.4	59.5	68.0		66.4	Sunny	1.5
05-Mar-19	09:50	66.1	62.5	67.5		66.1	Fine	1.2
12-Mar-19	09:05	64.9	63.0	66.0		64.9	Fine	1.0
19-Mar-19	09:00	65.3	63.5	66.5		65.3	Fine	1.1
26-Mar-19	09:04	66.0	63.0	68.0		66.0	Sunny	1.0
02-Apr-19	16:24	66.2	60.5	72.0		66.2	Fine	1.0
12-Apr-19	10:35	65.4	60.5	67.5		65.4	Hazy	0.0
18-Apr-19	11:00	64.2	61.5	66.5		64.2	Sunny	1.4
24-Apr-19	13:03	67.2	61.5	73.0		67.2	Sunny	0.0
30-Apr-19	13:02	69.4	59.5	72.5		69.4	Overcast	0.8
11-May-19	11:16	65.1	61.5	66.0		65.1	Fine	0.8
17-May-19	10:17	64.9	60.0	66.0		64.9	Sunny	1.1
23-May-19	11:40	65.8	61.0	67.0		65.8	Fine	0.7
29-May-19	11:46	69.2	63.5	73.0		69.2	Overcast	1.1

NMS 16 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	15:30	67.4	61.5	68.5	75	67.4	Fine	0.9
08-Feb-19	10:05	62.4	51.0	65.0		62.4	Fine	1.4
14-Feb-19	16:20	66.5	61.5	68.0		66.5	Fine	0.0
20-Feb-19	15:05	66.5	61.0	68.0		66.5	Fine	1.2
26-Feb-19	15:20	64.8	61.5	66.5		64.8	Sunny	1.6
05-Mar-19	10:25	64.2	60.5	66.0		64.2	Fine	1.4
12-Mar-19	09:48	63.1	57.5	66.0		63.1	Fine	1.1
19-Mar-19	09:50	63.4	58.0	67.5		63.4	Fine	1.3
26-Mar-19	09:10	63.6	60.5	65.5		63.6	Sunny	1.3
02-Apr-19	15:50	64.7	60.0	66.5		64.7	Fine	0.8
12-Apr-19	11:10	68.6	57.5	69.0		68.6	Hazy	0.8
18-Apr-19	11:32	61.7	57.5	64.5		61.7	Sunny	1.2
24-Apr-19	11:35	64.3	61.5	68.5		64.3	Sunny	0.0
30-Apr-19	11:30	68.3	63.0	71.5		68.3	Overcast	0.7
11-May-19	10:41	66.8	62.0	68.5		66.8	Fine	1.3
17-May-19	10:41	67.0	63.5	69.5		67.0	Sunny	0.8
23-May-19	11:06	66.8	61.5	67.5		66.8	Fine	1.1
29-May-19	11:14	68.7	63.0	71.5		68.7	Overcast	1.3

NMS 17 Shatin Pui Ying College

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	10:53	63.3	60.0	65.5	70	63.3	Fine	0.4
11-Feb-19	10:30	59.9	58.0	61.5		59.9	Fine	0.3
18-Feb-19	13:40	63.2	55.5	64.5		63.2	Fine	1.6
25-Feb-19	17:05	60.0	59.5	62.0		60.0	Fine	0.1
04-Mar-19	16:02	60.3	59.5	62.0		60.3	Fine	0.2
11-Mar-19	10:10	64.5	62.0	66.5		64.5	Fine	1.4
18-Mar-19	09:30	65.5	61.5	68.0		65.5	Fine	1.3
25-Mar-19	14:10	63.1	60.5	65.5		63.1	Sunny	0.8
01-Apr-19	11:30	62.7	57.0	66.0	65	62.7	Overcast	0.7
11-Apr-19	11:28	64.8	58.0	66.5	70	64.8	Overcast	0.7
17-Apr-19	13:34	64.1	57.5	65.0		64.1	Sunny	0.5
23-Apr-19	09:39	64.3	58.0	66.5		64.3	Sunny	1.1
29-Apr-19	11:31	64.1	59.5	66.0	65	64.1	Overcast	1.3
10-May-19	14:36	60.3	58.0	62.0	70	60.3	Sunny	0.2
16-May-19	13:41	64.6	58.5	66.0		64.6	Sunny	1.1
22-May-19	16:40	64.0	59.5	65.0		64.0	Fine	1.0
28-May-19	16:21	64.1	59.0	65.5		64.1	Overcast	1.3

Note: According to the school schedule, there was an exam period from 28/3 to 3/4 and from 29/4 to 30/4.

NMS 18 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	17:00	72.5	68.5	75.0	75	72.5	Fine	1.4
08-Feb-19	10:40	60.0	52.5	62.0		60.0	Fine	1.1
14-Feb-19	15:45	72.6	68.5	75.0		72.6	Fine	1.2
20-Feb-19	14:30	73.2	69.0	77.5		73.2	Fine	1.7
26-Feb-19	14:45	65.4	58.5	68.5		65.4	Sunny	1.1
05-Mar-19	11:00	62.5	60.0	65.5		62.5	Fine	1.2
12-Mar-19	10:33	65.5	63.0	68.5		65.5	Fine	1.4
19-Mar-19	10:30	64.2	63.5	70.0		64.2	Fine	1.2
26-Mar-19	10:20	62.8	60.5	65.0		62.8	Sunny	1.6
02-Apr-19	15:16	64.0	59.5	65.5		64.0	Fine	1.2
12-Apr-19	13:10	61.6	55.0	65.0		61.6	Hazy	0.0
18-Apr-19	13:02	60.3	58.0	64.0		60.3	Sunny	1.2
24-Apr-19	11:02	64.3	57.5	65.5		64.3	Sunny	1.3
30-Apr-19	10:52	65.8	58.5	69.0		65.8	Overcast	0.7
11-May-19	10:05	67.6	61.5	71.0		67.6	Fine	1.2
17-May-19	11:30	65.8	60.5	68.0		65.8	Sunny	1.7
23-May-19	10:26	67.6	60.0	69.0		67.6	Fine	0.9
29-May-19	10:20	67.6	62.5	69.5		67.6	Overcast	0.8

NMS 19 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	11:31	65.8	62.0	68.0		65.8	Fine	0.0
11-Feb-19	11:05	67.7	64.5	69.5		67.7	Fine	0.5
18-Feb-19	14:15	66.0	64.0	68.5		66.0	Fine	1.2
25-Feb-19	17:39	66.4	63.5	69.0		66.4	Fine	0.2
04-Mar-19	16:39	68.4	65.0	70.0		68.4	Fine	0.3
11-Mar-19	09:35	70.1	65.5	72.5		70.1	Fine	1.4
18-Mar-19	09:05	70.6	64.5	73.0		70.6	Fine	1.1
25-Mar-19	13:35	69.2	65.0	71.0		69.2	Sunny	1.1
01-Apr-19	10:56	70.6	67.0	75.0		70.6	Overcast	1.0
11-Apr-19	13:00	72.1	67.0	76.5	75	72.1	Overcast	0.9
17-Apr-19	14:11	71.2	66.0	74.5		71.2	Sunny	0.9
23-Apr-19	10:14	70.8	65.5	74.0		70.8	Sunny	2.7
29-Apr-19	13:02	67.3	60.5	70.0		67.3	Overcast	1.4
10-May-19	15:11	67.4	64.0	70.0		67.4	Sunny	0.2
16-May-19	14:14	66.3	60.5	69.0		66.3	Sunny	1.2
22-May-19	15:52	67.5	63.0	71.0		67.5	Fine	0.9
28-May-19	15:40	68.6	63.5	72.0		68.6	Overcast	0.8

NMS 20 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	12:05	58.8	55.0	61.0		58.8	Fine	0.0
11-Feb-19	11:42	60.1	57.5	62.0		60.1	Fine	0.3
18-Feb-19	14:50	67.5	65.0	70.0		67.5	Fine	0.9
25-Feb-19	18:13	60.9	58.0	63.0		60.9	Fine	0.3
04-Mar-19	17:17	60.6	58.0	63.0		60.6	Fine	0.2
11-Mar-19	09:00	64.4	61.0	67.0		64.4	Fine	1.1
18-Mar-19	08:30	65.4	61.5	68.0		65.4	Fine	1.0
25-Mar-19	13:00	63.4	60.0	65.5		63.4	Sunny	1.1
01-Apr-19	10:21	63.5	59.0	65.5	75	63.5	Overcast	1.2
11-Apr-19	13:43	64.7	58.5	65.5		64.7	Overcast	1.1
17-Apr-19	14:49	63.2	60.0	66.0		63.2	Sunny	1.0
23-Apr-19	10:30	63.8	61.0	65.0		63.8	Sunny	1.3
29-Apr-19	13:42	67.0	62.5	69.5		67.0	Overcast	0.8
10-May-19	15:45	60.6	57.0	62.5		60.6	Sunny	0.2
16-May-19	14:50	70.7	62.5	72.0		70.7	Sunny	1.1
22-May-19	15:14	66.2	61.0	69.0		66.2	Fine	1.2
28-May-19	14:55	65.8	60.0	68.0		65.8	Overcast	1.0

NMS 23 Pai Tau

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	13:40	68.6	64.5	71.0		68.6	Fine	1.4
08-Feb-19	14:20	62.5	54.0	64.0		62.5	Fine	1.4
14-Feb-19	11:40	64.5	58.5	66.0		64.5	Fine	0.8
20-Feb-19	10:45	66.5	62.0	69.0		66.5	Fine	1.6
26-Feb-19	10:25	68.5	60.0	72.0		68.5	Sunny	1.2
05-Mar-19	09:00	64.0	59.5	66.0		64.0	Fine	0.0
12-Mar-19	10:25	64.3	60.0	66.5		64.3	Fine	0.8
19-Mar-19	10:35	65.3	60.5	67.5		65.3	Fine	0.7
26-Mar-19	09:20	64.1	61.5	66.0		64.1	Sunny	1.6
02-Apr-19	10:26	61.8	59.0	66.0	75	61.8	Fine	1.1
12-Apr-19	10:00	67.2	62.5	69.5		67.2	Hazy	0.0
18-Apr-19	10:21	60.3	56.5	63.0		60.3	Sunny	1.2
24-Apr-19	10:55	63.1	60.0	66.5		63.1	Sunny	0.0
30-Apr-19	14:10	68.2	65.0	70.5		68.2	Overcast	2.0
11-May-19	13:00	67.5	62.0	69.0		67.5	Fine	0.9
17-May-19	09:40	68.0	60.5	71.5		68.0	Sunny	1.0
23-May-19	10:27	71.0	63.5	72.5		71.0	Fine	0.9
29-May-19	10:20	70.7	63.0	71.5		70.7	Overcast	0.8

NMS 24 Shatin Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	08:30	62.7	60.5	63.5	75	62.7	Fine	0.4
11-Feb-19	14:17	63.6	61.5	65.0		63.6	Fine	0.1
18-Feb-19	09:05	67.5	62.0	70.5		67.5	Fine	1.2
25-Feb-19	10:21	63.8	62.0	65.0		63.8	Fine	0.3
04-Mar-19	10:33	63.5	61.5	65.5		63.5	Fine	0.1
11-Mar-19	08:35	72.5	62.0	74.5		72.5	Fine	1.1
18-Mar-19	08:40	73.0	62.5	75.5		73.0	Fine	1.2
25-Mar-19	09:15	71.5	61.5	73.5		71.5	Sunny	1.6
01-Apr-19	15:22	71.6	66.5	75.0		71.6	Overcast	1.0
11-Apr-19	09:34	71.6	60.5	72.5		71.6	Overcast	0.7
17-Apr-19	09:35	70.8	67.0	73.5		70.8	Sunny	1.1
23-Apr-19	09:32	70.1	60.5	74.0		70.1	Sunny	0.6
29-Apr-19	09:33	72.1	62.0	75.0		72.1	Overcast	0.8
10-May-19	09:36	63.7	61.0	66.0		63.7	Sunny	0.2
16-May-19	09:07	71.8	67.0	74.0		71.8	Sunny	1.2
22-May-19	08:35	72.1	66.5	75.5		72.1	Fine	0.9
28-May-19	08:00	70.6	66.0	73.5		70.6	Overcast	1.4

NMS 25A Sheung Wo Che

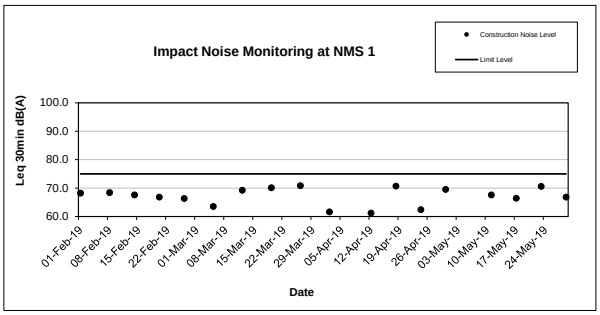
Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	08:30	62.1	60.4	63.8	75	62.1	Fine	0.0
11-Feb-19	14:58	70.2	67.0	71.5		70.2	Fine	0.4
18-Feb-19	16:40	72.1	68.5	74.0		72.1	Fine	1.5
25-Feb-19	14:23	66.0	60.0	69.0		66.0	Fine	0.1
04-Mar-19	13:38	68.6	61.0	70.5		68.6	Fine	0.3
11-Mar-19	11:35	69.2	60.0	71.5		69.2	Fine	1.2
18-Mar-19	11:40	70.4	61.0	72.5		70.4	Fine	0.6
25-Mar-19	08:00	72.4	63.0	76.0		72.4	Sunny	0.8
01-Apr-19	08:30	69.2	61.0	72.0		69.2	Overcast	0.0
11-Apr-19	09:00	71.2	63.0	75.0		71.2	Overcast	1.1
17-Apr-19	16:34	70.4	62.0	74.5		70.4	Sunny	0.7
23-Apr-19	13:40	72.1	64.0	75.5		72.1	Sunny	0.8
29-Apr-19	09:12	70.6	66.5	72.0		70.6	Overcast	0.7
10-May-19	17:02	70.4	67.0	72.0		70.4	Sunny	0.3
16-May-19	16:40	69.2	62.0	73.0		69.2	Sunny	1.2
22-May-19	13:34	70.5	63.0	72.0		70.5	Fine	1.2
28-May-19	13:40	71.2	64.0	73.5		71.2	Overcast	1.2

NMS 26 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
04-Feb-19	10:16	70.0	66.5	72.0	75	70.0	Fine	0.0
11-Feb-19	15:49	68.3	66.0	70.0		68.3	Fine	0.5
18-Feb-19	13:00	74.6	64.5	77.0		74.6	Fine	1.3
25-Feb-19	16:30	68.0	65.5	70.0		68.0	Fine	0.3
04-Mar-19	15:23	68.7	66.5	70.5		68.7	Fine	0.3
11-Mar-19	10:45	74.0	71.5	76.0		74.0	Fine	0.8
18-Mar-19	10:30	73.6	70.0	76.5		73.6	Fine	1.5
25-Mar-19	14:45	74.6	71.5	77.0		74.6	Sunny	1.4
01-Apr-19	12:02	74.5	71.0	77.0		74.5	Overcast	1.0
11-Apr-19	10:55	74.1	71.0	78.0		74.1	Overcast	1.2
17-Apr-19	13:01	73.8	70.5	76.5		73.8	Sunny	1.2
23-Apr-19	09:02	72.1	68.5	74.5		72.1	Sunny	1.1
29-Apr-19	10:52	73.6	68.5	77.0		73.6	Overcast	1.1
10-May-19	16:26	68.2	65.5	70.5		68.2	Sunny	0.2
16-May-19	13:00	74.1	69.5	77.0		74.1	Sunny	1.3
22-May-19	14:22	73.6	53.5	78.0		73.6	Fine	0.7
28-May-19	14:16	74.5	68.5	78.0		74.5	Overcast	1.0

NMS 27 Jockey Club Ti-I College

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
01-Feb-19	16:15	63.6	58.5	64.5	70	63.6	Fine	1.2
08-Feb-19	15:00	63.5	56.5	65.0		63.5	Fine	1.2
14-Feb-19	15:05	63.8	58.0	64.5		63.8	Fine	1.4
20-Feb-19	13:50	63.5	58.0	65.5		63.5	Fine	1.4
26-Feb-19	13:50	64.2	58.5	65.5		64.2	Sunny	1.2
05-Mar-19	14:25	63.2	58.5	64.5		63.2	Fine	1.3
12-Mar-19	11:57	64.5	63.0	67.0		64.5	Fine	1.2
19-Mar-19	11:40	63.5	59.5	65.5		63.5	Fine	1.3
26-Mar-19	10:30	64.6	59.0	67.0		64.6	Sunny	0.9
02-Apr-19	14:30	62.1	58.0	66.5		62.1	Fine	1.1
12-Apr-19	13:20	69.5	67.0	71.0		69.5	Hazy	0.7
18-Apr-19	09:27	63.9	61.5	67.5		63.9	Sunny	0.7
24-Apr-19	10:00	63.3	56.5	65.0		63.3	Sunny	1.2
30-Apr-19	10:06	68.4	59.0	71.5		68.4	Overcast	0.9
11-May-19	09:10	62.1	57.5	64.0		62.1	Fine	1.0
17-May-19	13:40	63.9	57.5	65.0		63.9	Sunny	0.6
23-May-19	09:30	64.7	56.5	66.0		64.7	Fine	1.2
29-May-19	09:35	63.0	58.0	64.5		63.0	Overcast	1.0


Impact Noise Monitoring at NMS 1
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
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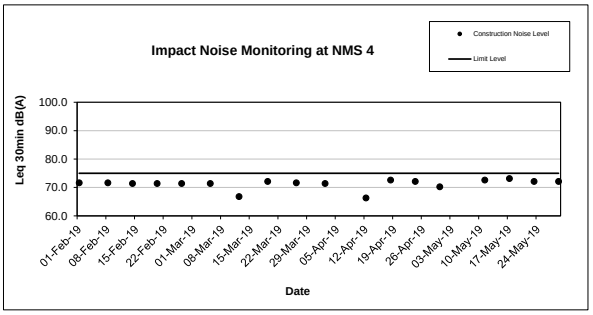
08-Feb-19
15-Feb-19
22-Feb-19
01-Mar-19
08-Mar-19
15-Mar-19
22-Mar-19
29-Mar-19
05-Apr-19
12-Apr-19
19-Apr-19
26-Apr-19
03-May-19
10-May-19
17-May-19
24-May-19
Date


Impact Noise Monitoring at NMS 4
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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08-Feb-19
15-Feb-19
22-Feb-19
01-Mar-19
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22-Mar-19
29-Mar-19
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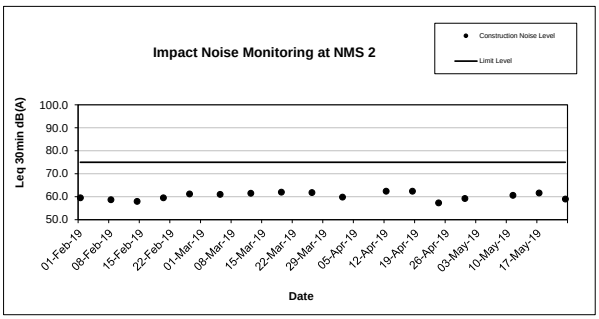
26-Apr-19
03-May-19
10-May-19
17-May-19
24-May-19
Date


Impact Noise Monitoring at NMS 2
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
50.0
01-Feb-19
08-Feb-19
15-Feb-19
22-Feb-19
01-Mar-19
08-Mar-19
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22-Mar-19
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19-Apr-19
26-Apr-19
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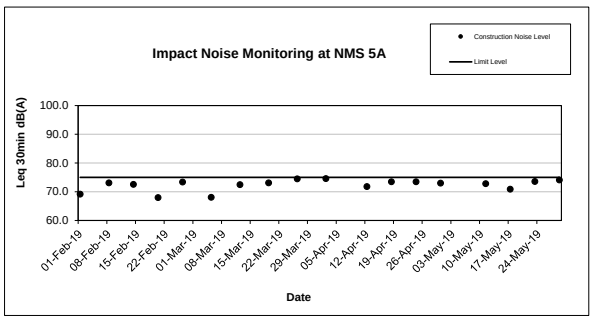
10-May-19
17-May-19
Date


Impact Noise Monitoring at NMS 5A
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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15-Feb-19
22-Feb-19
01-Mar-19
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22-Mar-19
29-Mar-19
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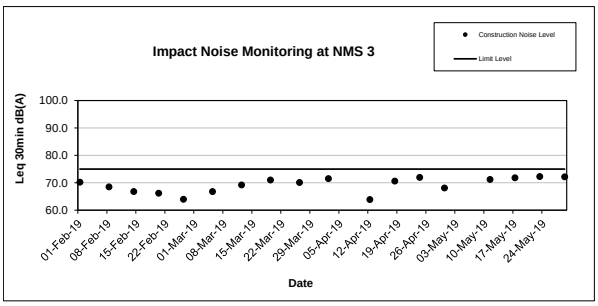
24-May-19
Date


Impact Noise Monitoring at NMS 3
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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08-Feb-19
15-Feb-19
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01-Mar-19
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29-Mar-19
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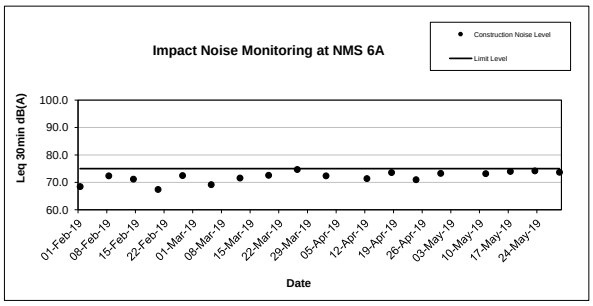
26-Apr-19
03-May-19
10-May-19
17-May-19
24-May-19
Date


Impact Noise Monitoring at NMS 6A
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
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22-Feb-19
01-Mar-19
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29-Mar-19
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26-Apr-19
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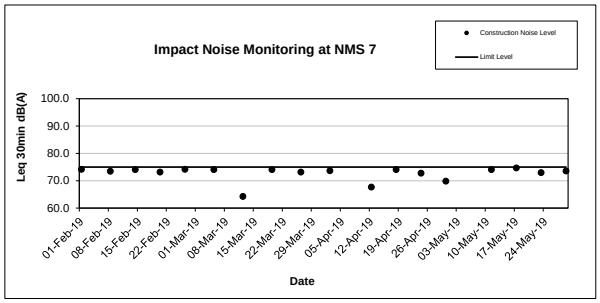
10-May-19
17-May-19
24-May-19
Date


Impact Noise Monitoring at NMS 7
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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08-Mar-19
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29-Mar-19
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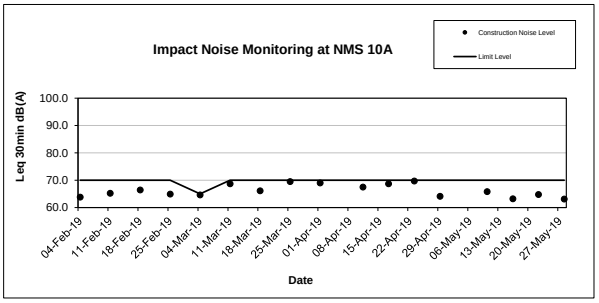
26-Apr-19
03-May-19
10-May-19
17-May-19
24-May-19
Date


Impact Noise Monitoring at NMS 10A
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
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11-Feb-19
18-Feb-19
25-Feb-19
04-Mar-19
11-Mar-19
18-Mar-19
25-Mar-19
01-Apr-19
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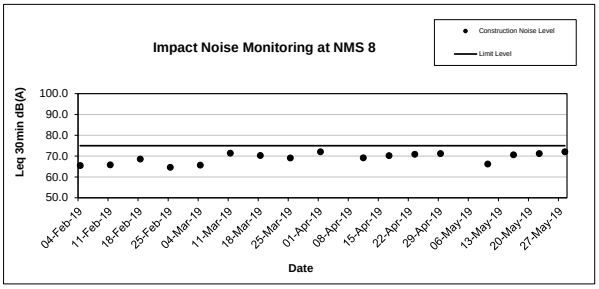
06-May-19
13-May-19
20-May-19
27-May-19
Date


Impact Noise Monitoring at NMS 8
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
50.0
04-Feb-19
11-Feb-19
18-Feb-19
25-Feb-19
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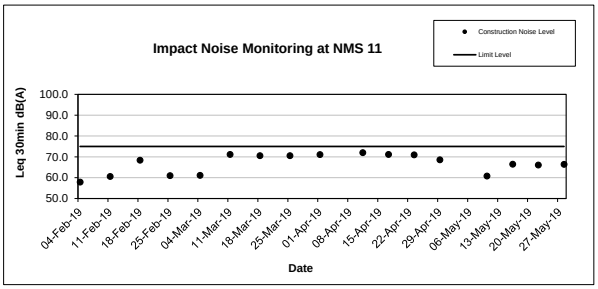
13-May-19
20-May-19
27-May-19
Date


Impact Noise Monitoring at NMS 11
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
50.0
04-Feb-19
11-Feb-19
18-Feb-19
25-Feb-19
04-Mar-19
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25-Mar-19
01-Apr-19
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06-May-19
13-May-19
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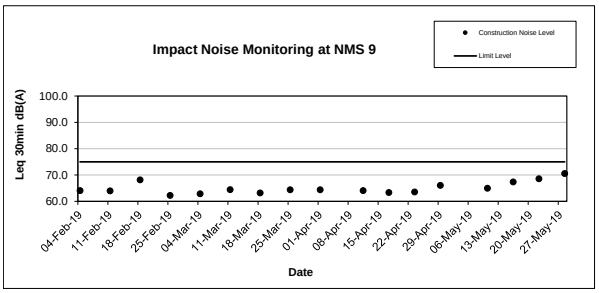
27-May-19
Date


Impact Noise Monitoring at NMS 9
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
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11-Feb-19
18-Feb-19
25-Feb-19
04-Mar-19
11-Mar-19
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01-Apr-19
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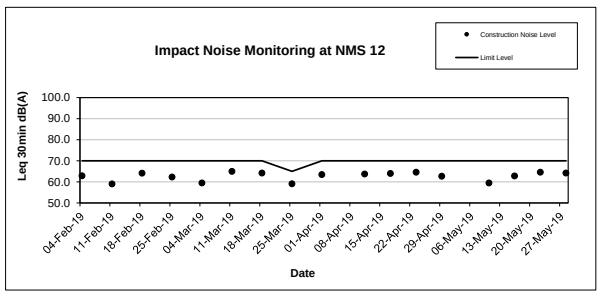
29-Apr-19
06-May-19
13-May-19
20-May-19
27-May-19
Date


Impact Noise Monitoring at NMS 12
Construction Noise Level
Limit Level
Leq 30min dB(A)
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70.0
60.0
50.0
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11-Feb-19
18-Feb-19
25-Feb-19
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25-Mar-19
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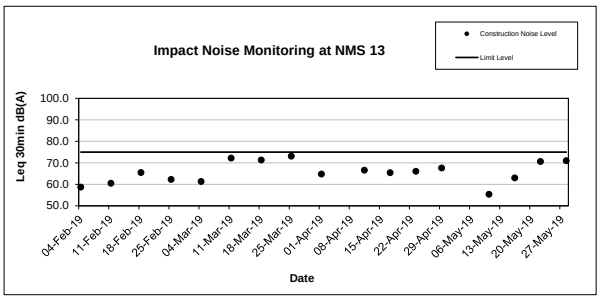
Impact Noise Monitoring at NMS 13
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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04-Feb-19
11-Feb-19
18-Feb-19
25-Feb-19
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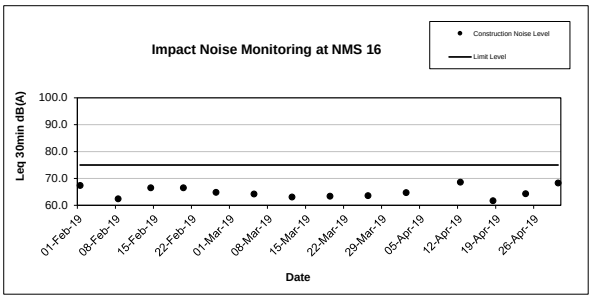
Date


Impact Noise Monitoring at NMS 16
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
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22-Feb-19
01-Mar-19
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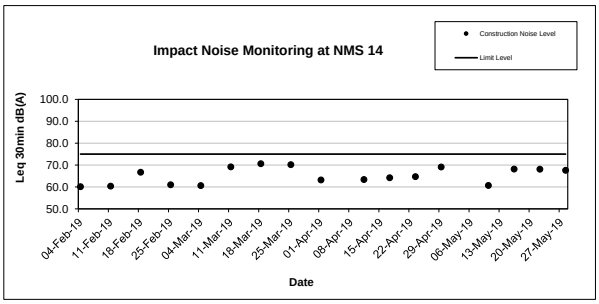
12-Apr-19
19-Apr-19
26-Apr-19
Date


Impact Noise Monitoring at NMS 14
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
50.0
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11-Feb-19
18-Feb-19
25-Feb-19
04-Mar-19
11-Mar-19
18-Mar-19
25-Mar-19
01-Apr-19
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06-May-19
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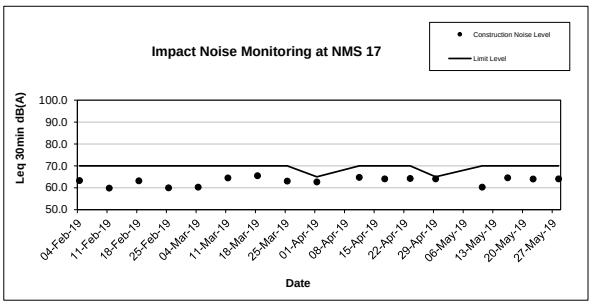
27-May-19
Date


Impact Noise Monitoring at NMS 17
Construction Noise Level
Limit Level
Leq 30min dB(A)
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70.0
60.0
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27-May-19
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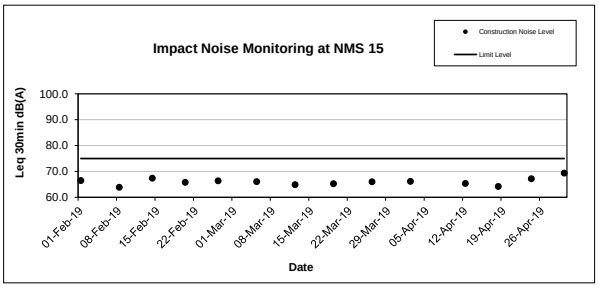
Impact Noise Monitoring at NMS 15
Construction Noise Level
Limit Level
Leq 30min dB(A)
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60.0
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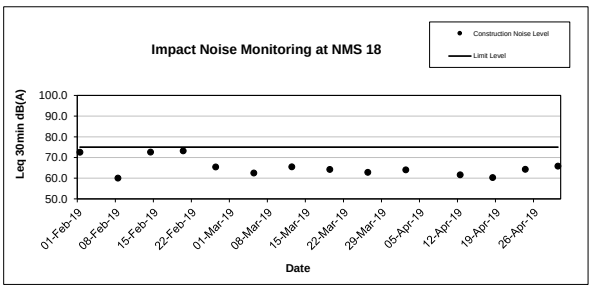
Impact Noise Monitoring at NMS 18
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
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70.0
60.0
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01-Mar-19
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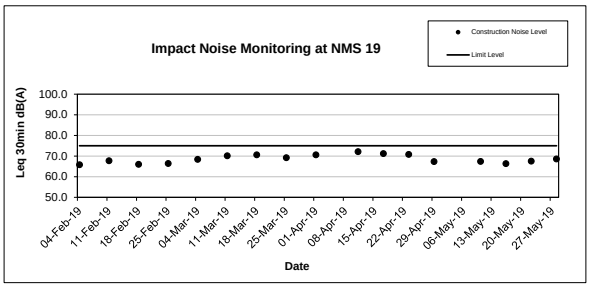
Impact Noise Monitoring at NMS 19
Construction Noise Level
Limit Level
Leq 30min dB(A)
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70.0
60.0
50.0
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11-Feb-19
18-Feb-19
25-Feb-19
04-Mar-19
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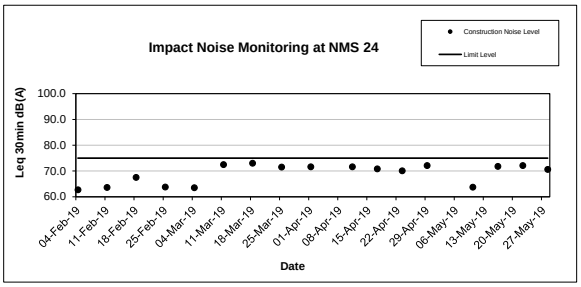
27-May-19
Date


Impact Noise Monitoring at NMS 24
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
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11-Feb-19
18-Feb-19
25-Feb-19
04-Mar-19
11-Mar-19
18-Mar-19
25-Mar-19
01-Apr-19
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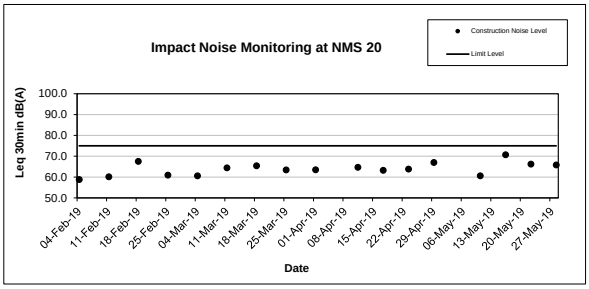
Date


Impact Noise Monitoring at NMS 20
Construction Noise Level
Limit Level
Leq 30min dB(A)
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70.0
60.0
50.0
04-Feb-19
11-Feb-19
18-Feb-19
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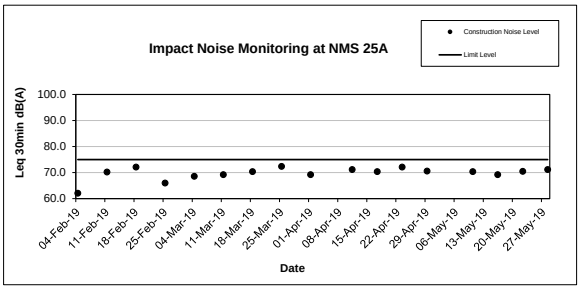
Date


Impact Noise Monitoring at NMS 25A
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
04-Feb-19
11-Feb-19
18-Feb-19
25-Feb-19
04-Mar-19
11-Mar-19
18-Mar-19
25-Mar-19
01-Apr-19
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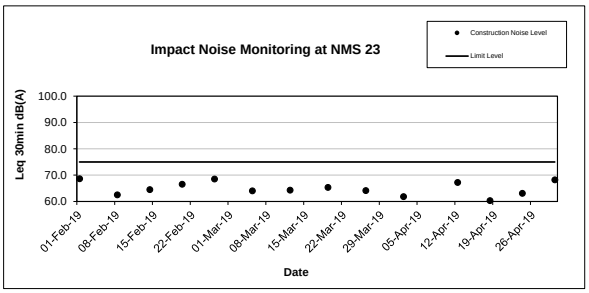
29-Apr-19
06-May-19
13-May-19
20-May-19
27-May-19
Date


Impact Noise Monitoring at NMS 23
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
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08-Feb-19
15-Feb-19
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01-Mar-19
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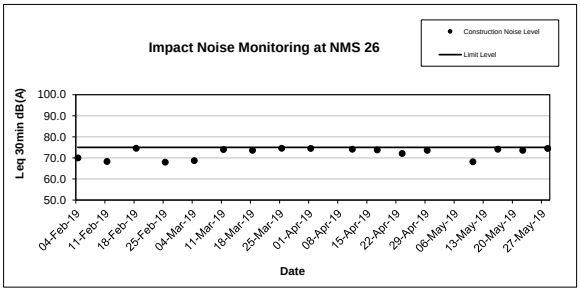
26-Apr-19
Date


Impact Noise Monitoring at NMS 26
Construction Noise Level
Limit Level
Leq 30min dB(A)
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80.0
70.0
60.0
50.0
04-Feb-19
11-Feb-19
18-Feb-19
25-Feb-19
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01-Apr-19
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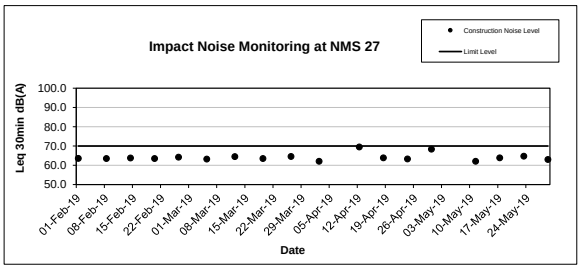
22-Apr-19
29-Apr-19
06-May-19
13-May-19
20-May-19
27-May-19
Date


Impact Noise Monitoring at NMS 27
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
50.0
01-Feb-19
08-Feb-19
15-Feb-19
22-Feb-19
01-Mar-19
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29-Mar-19
05-Apr-19
12-Apr-19
19-Apr-19
26-Apr-19
03-May-19
10-May-19
17-May-19
24-May-19
Date

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix E

Waste Flow Table

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Waste Flow Table for Year 2018

Months	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
2018 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
2018 Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
2018 Dec	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
Total	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.018

Note:
1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3.

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Tel : +852 2450 8233
Fax : +852 2450 6138
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Waste Flow Table for Year 2019

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	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
2019 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021
2019 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
2019 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
2019 Apr	0.100	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.089
2019 May	0.150	0.000	0.000	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.171
2019 Jun											
Sub-Total	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.378
2019 Jul											
2019 Aug											
2019 Sep											
2019 Oct											
2019 Nov											
2019 Dec											
Total	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.378

Note:
1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3.

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Appendix F

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

FUGRO TECHNICAL SERVICES LIMITED
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Environmental Complaints Log

Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
COM-2019-005	13/2/2019	EPD	Regarding to continuous noise nuisance starting from around 1 a.m. near Lek Yuen Estate Kwai Wo House.	According to the photo taken from the complainant, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Environmental Team conducted additional ad-hoc noise monitoring on 19:00 14th February 2019 to 07:00 15th February 2019 for evaluate the effectiveness on the proposed mitigation measures. No project-related noise exceedance case on 14-15 Feb 2019 Contractor's night tree-felling and removal works. The proposed mitigation measures were effective for noise impact.	Project-related	Closed
COM-2019-006	22/2/2019	Project Hotline of NE/2017/05	Regarding to continuous noise generated from the tree felling works during the midnight 12:00am near Lek Yuen Estate Kwai Wo House.	According to the location of complainant from Kwai Wo House, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are	Project-related	Closed

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				operating during restricted hour. An extended barrier at the top acts as a cantilever shape was recommended to modify the existing semi-enclosure installed in the cherry picker Also, three sides with top as a semi-enclosure to be used and those tree felling activities should be inside the semi-enclosure in the ground slope. The main contractor had been recommended to review their works program and methods of tree felling as to minimize the night time tree felling activities.		
COM-2019-0010	28/3/2019	Project Hotline of NE/2017/05	Regarding noise nuisance at 03:35am.	The complaint case should be related to the MTR night time maintenance works. Main Contractor used portable phones and head-set only for communication, and none of loudspeakers were allowed to be used. Main Contractor handled of tree debris into the lorry skip in care when loading. Besides, a layer of soft material (soil/tree debris) was observed leaving inside the skip of the grab lorry to reduce the loading noise. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0132-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour.	Project-not related	Closed

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Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints in the Reporting Period			Cumulative Project-to-Date
		March 2019	April 2019	May 2019	
Air	0	0	0	0	0
Noise	2	1	0	0	3
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	0	0	0	0	0

Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Reporting Period			Cumulative Project-to-Date
		March 2019	April 2019	May 2019	
Air	0	0	0	0	0
Noise	0	0	0	0	0
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	0	0	0	0	0

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Appendix G

Environmental Mitigation Implementation Schedule (EMIS)

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.
Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		Noise Measures		
3.10.2, 3.10.3, 3.10.14, 3.10.15 and Table 3.10	Within the boundaries of all construction sites.	• Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A).	Contractor	Implemented
		• PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period	Contractor	Implemented
		• The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for constriction activities is required during evening or night time hours.	Contractor	Implemented
		• Construction work programme should be considered before actual construction work is undertaken, and noise mitigation measures should be implemented to minimize the potential construction noise impact. Selection and optimization of construction programmes, avoidance and reduction of parallel operation of noisy PME during noise sensitive periods.	Contractor	Implemented
		• Use of well-maintained and regularly-serviced plant during the works.	Contractor	Implemented
		• Plant operating on intermittent basis should be turned off or throttled down when not in active use.	Contractor	Implemented
		• Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs.	Contractor	Implemented
		• Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works.	Contractor	Implemented
		• Fixed plants should be sited away from NSRs where possible.	Contractor	Not Applicable
		• Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.	Contractor	Not Applicable
3.10.4, 3.10.5 and Table 3.3		• The use of particular plant with equipment quieter than those specified in the GW-TM are recommended to reduce the noise levels generated by the plant.	Contractor	Not Applicable
		• Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes	Contractor	Not Applicable
3.10.6 to 3.10.9		• Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone.	Contractor	Not Applicable
		• The use of 3m high moveable barriers with skid footing and a small cantilevered upper portion	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		should be adopted. The barrier material shall have a surface mass of not less than 14kg/m^2 on skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect.		
		• These temporary noise barriers should be located immediately adjacent to working area.	Contractor	Not Applicable
		• The temporary noise barriers should be located along the working area to make sure the construction plant could be screened during all kinds of construction activities as far as practicable.	Contractor	Not Applicable
		• Noise jacket/muffler shall be used to cover the noisy part of the engine or at the engine exhaust of particular mobile plants respectively when temporary noise barriers are not practicable or noise reduction achieved is insufficient.	Contractor	Not Applicable
		• For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided.	Contractor	Not Applicable
		• Barrier material of surface density of at least 14 kg/m^2 is recommended in order to achieve the necessary screening effect.	Contractor	Not Applicable
3.10.10		• Full noise enclosures should cover the PME or fixed plants such as air compressor.	Contractor	Not Applicable
3.10.3		• Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works;	Contractor	Not Applicable
		• Where possible fixed plants should be sited away from NSRs; and	Contractor	Not Applicable
		• Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.	Contractor	Not Applicable
Air Quality Measures				
4.12.1 and 4.12.2	Within the boundaries of all construction sites.	• The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites.	Contractor	Implemented
		• The Contractor shall undertake at all times to prevent dust nuisance as a result of his activities. Dust suppression measures such as the water spraying are necessary and should be installed to ensure that the air quality at the boundary of the site and at any sensitive receivers complies with the Hong Kong Air Quality Objectives.	Contractor	Implemented
		• The Contractor shall apply for a license or permit under the requirements of the relevant	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable.		
		• Watering of unpaved areas, access roads, construction areas and dusty stockpiles shall be undertaken at least eight times daily during dry and windy weather. Watering of the haul road shall be undertaken four to eight times daily during dry or windy weather. Water sprays may be either fixed or mobile to follow individual areas to be wetted as and when required. Application of suitable wetting agents, such as dust suppression chemicals, shall be used in addition to water, especially during the dry season (October to December). It is also suggested that watering with complete coverage of active construction area eight times a day.	Contractor	Implemented
		• Effective water sprays shall be used during the delivery and handling of all raw sand and aggregate, and other similar materials, wet dust is likely to be created and to dampen all stored materials during dry and windy weather.	Contractor	Implemented
4.12.1		• Stockpiles of sand, aggregate or any other dusty materials greater than 20m^3 shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile.	Contractor	Implemented
		• Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion.	Contractor	Not Observed
		• Areas within the construction site where there is a regular movement of vehicles shall have a paved surface and be kept clear of loose surface material.	Contractor	Implemented
		• The Contractor shall restrict all motorized vehicles within the construction site, excluding those on public roads, to maximum speed of 20 km per hour and confine haulage and delivery vehicles to designated roadways inside the Site.	Contractor	Implemented
		• Construction working areas should be restricted to a minimum practicable size.	Contractor	Implemented
		• The Contractor shall ensure that no earth, rock or debris is deposited on public or private rights of way as result of his activities, including any deposits arising from the movement of plant or vehicles.	Contractor	Implemented
		• The Contractor shall provide a wheel washing facility at the exits from work areas to the satisfaction of the Engineer and to the requirements of the Commissioner of Police. Water in wheel washing facilities and sediment shall be changed and removed respectively at least once a month.	Contractor	Not Observed

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• The Contractor shall submit details of the wheel washing facilities, which shall be usable prior to any earthworks excavation activity on the construction site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road.	Contractor	Not Applicable
		• In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer.	Contractor	Not Applicable
		• If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas.	Contractor	Implemented
		• Plant and vehicles shall be inspected annually to ensure that they are operating efficiently and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground.	Contractor	Implemented
4.12.1, 4.13.1 and Table 8.2		•Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.	Contractor	Implemented
		• Path for complaints and handling procedures should be set up and implement.	Contractor	Implemented
NA		• Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.	Contractor	Implemented
		• Plant and equipment should be well maintained to prevent dark smoke emission.	Contractor	Implemented
		• Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site.	Contractor	Implemented
Water Quality Measures				
5.7	Within the boundaries of all construction sites.	• Silt-laden surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The mitigation measures described below for the construction phase are in accordance with ProPECC PN 1/94:	Contractor	Partially Implemented
		• Construction works should be programmed so as to minimise excavation during the wet season	Contractor	Partially Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		(April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.		
		• Existing and newly constructed open manholes should be covered and sealed to prevent run off and water borne debris entering the drainage network without having previously passed through a sediment trap.	Contractor	Partially Implemented
		• Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap.	Contractor	Partially Implemented
		• The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks.	Contractor	Partially Implemented
		• The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained by regular cleaning of accumulated silt and sand. Particular attention should be paid to maintenance following heavy rainfall and immediately after the issue of heavy rainfall warning by the Hong Kong Observatory.	Contractor	Partially Implemented
		• The ingress of rainwater into trenches should be minimised by the construction of bunds to prevent water flowing into the trench and covering by tarpaulins to prevent direct entry. The lengths of excavated trenches should be minimised and backfilled at the earliest opportunity. Water pumped from the trenches should be discharged to the storm water drains following passage through a suitable silt trap.	Contractor	Partially Implemented
		• Any ground water seeping into any trenches or foundation works should be passed through a silt trap prior to discharge to the storm water drains.	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.	Contractor	Not Applicable
		• The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir.	Contractor	Not Applicable
		• Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals.	Contractor	Not Applicable
		• Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages.	Contractor	Not Applicable
		• Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. Wastewater collected from canteen kitchens should be discharged to the foul sewers via grease traps which provide a minimum of 20 minutes retention during peak flow. AII discharges into foul sewers and storm sewers should have to be complied with TM standards under WPCO.	Contractor	Not Applicable
		• Run off from roofed surfaces of site facilities should be collected and diverted to a storm water drain. Passage through a silt trap is only required if the water is diverted via open .channels which might accumulate solids during non-rainy periods or which intercept surface run off from unpaved areas.	Contractor	Not Applicable

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		• Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO).	Contractor	Implemented
Section 12.6 of the Approved EIA Report		• Regular site inspection of the construction works shall be carried out to determine compliance with the recommended mitigation measures. Inspection should be included:		
		(i) The functioning of onsite surface water collection channels and sediment traps.	Contractor	Implemented
		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	Partially Implemented
		(iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps.	Contractor	Partially Implemented
		(iv) The pumping procedures for emptying trenches and other excavations and the use of silt traps prior to the discharge of the water to the storm water system.	Contractor	Partially Implemented
		(v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps.	Contractor	Not Applicable
		(vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area.	Contractor	Not Applicable
		(vii) The connection of the site office wastewater discharge to an existing foul sewer if appropriate or the operation of the kitchen wastewater grease trap and the regular emptying of the chemical toilets	Contractor	Not Applicable
		(viii)The operation of the roof rain water collection and drainage system.	Contractor	Not Applicable
Landscape and Visual Mitigation Measures				
Table 6.5	**Construction Phase**			
	During construction within the Project Boundary.	• Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015.	Contractor	Implemented
		• Topsoil will be conserved as far as possible during the road improvement works and utilized during the replanting operations. The stock piling height of the topsoil will not be more than 2m.	Contractor	Implemented
		• Old and valuable trees (OVTs) identified in the Project Boundary shall be protected in accordance with ETWB TCW no. 29/2004.	Contractor	Implemented
		• Night-time lighting glare shall be properly managed and control during construction so as	Contractor	Implemented

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		to minimize any adverse visual impact on adjacent VSRs.		
		• Decorative screen hoarding with design compatible with the surrounding landscape setting shall be erected along the southern boundary of Tai Po Road to mitigate any potential adverse impact on adjacent Pedestrian and Cyclists on Footpath/Bicycle Track.	Contractor	Not Applicable
	Operation Phase			
	During construction within the Project Boundary.	• Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB TC (W) No. 7/2015.	Contractor	Not Applicable
		• Planting shall be undertaken at the earliest practical time in the construction period. The planting proposal shall aim to strengthen the existing tree species and supplement the existing tree planting to provide an effective screen to ameliorate any potential landscape and visual impacts. The proposed species to be utilized for road improvement works shall be agreed with LCSD and future maintenance authorities. All the proposed species for compensatory planting shall be suitable for roadside streetscape planting.	Contractor	Not Applicable
		• Provision of visually pleasing noise barriers and enclosures design shall be proposed. The design of these structures aims to minimize any potential visual impact and visually integrate the proposed structures into the adjacent landscape context. This should be achieved through the use of form, color, tones, materials and planting materials.	Contractor	Not Applicable
		• Aesthetically pleasing hard landscape treatment of the carriageway and roadside furniture shall be proposed, including development of chromatic themes in the architectural treatment of engineering structures, and the consideration of landscape lighting and special landscape features.	Contractor	Not Applicable
		• Shrubs and climbers planting are proposed on the facade of Noise Enclosures and Barriers to mitigate any adverse impact on adjacent VSRs in area where space for tree planting is not feasible.	Contractor	Not Applicable
Waste Management Measures				
7.6.2 to 7.6.4	Within the boundaries of all construction sites.	• In accordance with ETWB TC (W) No. 19/2005 - Environmental Management on Construction Sites", the Contractor shall prepare and implement a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP). The EMP shall describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and	Contractor	Implemented

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.
Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

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		disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval.		
		• The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	Contractor	Implemented
7.6.5 to 7.6.6		• Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy.	Contractor	Partially Implemented
		• Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste.	Contractor	Implemented
		• Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment.	Contractor	Implemented
7.6.7	Within the boundaries of all construction sites as well as transportation routes to designed areas for off-site disposal of materials/Prior to and during construction activities.	• To facilitate adoption of the best-practice philosophy, training shall be provided to all personnel working on site. The training shall promote the concept of general site cleanliness and clearly explain the appropriate waste management procedures defined in the EMP. Overall, the training should encourage all workers to reduce, reuse and recycle wastes.	Contractor	Implemented
7.6.8 to 7.6.9		• The contractor's environmental performance shall be monitored and controlled through the weekly environmental walks. The items after the environmental walks shall include:		
		• A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor;	Contractor	Implemented
		• The environmental performance of the contractor and his sub-contractors;	Contractor	Partially Implemented
		• The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and	Contractor	Implemented
		• The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.	Contractor	Implemented
		• Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public	Contractor	Implemented

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		fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.		
7.6.10		• Work site(s) shall be arranged and managed to facilitate the proper management of wastes and materials. The WMP shall include plans indicating specific areas designated for the storage of particular types of waste, reusable and recyclable materials as well as areas and management proposals for any stockpiling areas. Waste storage areas should be well maintained and cleaned regularly. Specific provisions for different types of material are outlined below. In general, these areas should be designed to avoid cross contamination of materials as well as pollution of the surrounding environment.	Contractor	Partially Implemented
7.6.11 to 7.6.14		• In order to minimize the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated fill materials should be reused on site as backfill material as far as possible.	Contractor	Implemented
		• Careful design, planning and good site management should be maintained in order to minimise over ordering and generation of surplus materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse.	Contractor	Implemented
		• C&D materials should be segregated on site into different waste and material types. The Contractor should clearly demonstrate in the EMP how he intends to maximise the reuse of C&D material on-site. Where reuse of materials on site is not feasible, the Contractor should explore opportunities for recycling materials off-site, and inert C&D materials shall be reused on site as much as possible.	Contractor	Implemented
		• Paving bricks arising from existing pavement should be recycled on site as much as possible.	Contractor	Not Applicable
		• Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible,	Contractor	Not Applicable
		• Existing bridge parapets comprise aluminum post and railings, which have a recyclable value and should be sold for reconditioning or reused for scrap metal as much as possible	Contractor	Not Applicable
		• Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality.	Contractor	Partially Implemented

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7.6.15 to 7.6.17		• Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows. Containers used for the storage of chemical wastes should:		
		• be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;	Contractor	Implemented
		• have a capacity of less than 450L unless the specifications have been approved by the EPD; and	Contractor	Implemented
		• display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C).	Contractor	Implemented
		The storage area for chemical wastes should:		
		• be clearly labelled and used solely for the storage of chemical waste;	Contractor	Implemented
		• be enclosed on at least 3 sides;	Contractor	Implemented
		• have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;	Contractor	Implemented
		• have adequate ventilation;	Contractor	Implemented
		• be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and	Contractor	Implemented
		• be arranged so that incompatible materials are adequately separated.	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other chemical wastes as defined in the Waste Disposal (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require pre-notification to EPD prior to disposal. Appropriate means include disposal:		
		• via a licensed waste collector; and	Contractor	Implemented
		• to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers; or	Contractor	Implemented
		• to a reuser of the waste, under approval from EPD.	Contractor	Not Applicable
7.6.18 to 7.6.20		• General refuse generated on-site should be stored in enclosed bins or compaction units separate from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily or every second day basis to minimize	Contractor	Implemented

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		odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.		
		• Separate labelled bins should be provided if feasible.	Contractor	Not Observed
		• Office waste can be reduced through recycling of paper if volume is large enough to warrant collection. Participation in a local collection scheme should be considered if one is available.	Contractor	Not Observed
7.7.1		• All wastes produced during the construction of the Project shall be handled, stored, and disposed of in accordance with good waste management practices and relevant regulations and requirements.	Contractor	Partially Implemented
		• The mitigation measures recommended in the EIA/EIA review report should form a basis of the WMP to be developed by the Contractor in the construction phase of the Project.	Contractor	Implemented
EP 1.5	*General Condition*			
N.A	During construction within the Project Boundary.	• The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrance/exits or at a convenient location for public information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including ant amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).	Contractor	Implemented

Implementation status: Implemented / Partially Implemented / Not Implemented / Not Observed / Not Applicable