FUGRO TECHNICAL SERVICES LIMITED

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QUARTERLY EM&A REPORT

March 2020 – May 2020

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/0473B

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

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Our ref: PL-202011034

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

Attention: Miss FUNG Cannifer

30 November 2020

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 2020

I refer to the email of the ET regarding to the captioned Annual EM&A Report with report No. 0064/18/ED/0473B, we have no adverse comment on it and verify this annual 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)
CEDD – Mr. YAN Joseph (by email only: jkcyan@cedd.gov.hk)

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Date 30 November 2020
Our Ref. MCL/ED/0636/2020/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/0473B)

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/0473B) 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.

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

David Hung
Environmental Team Leader

c.c.

CEDD	Attn: Mr. Kevin Yip / Ms. Cannifer Fung (by E-mail)
AECOM	Attn: Mr. Albert Yu / Mr. Jacky Tse / Mr. Andrew Cheng / Mr. Matthew Ma (by E-mail)
IEC	Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail)
CCZJV	Attn: Mr. Chung Sing Chu / Ms. Kimberly Wong / Mr. Aaron Au (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 6th Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 1 Mar 2020 and 31 May 2020. As informed by the Contractor, major activities in the reporting period included:

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Mar 2020	• Trial pits excavation • Construct temporary road and site access • Road surface remedial works • Pre-drilling works • Mini pile works	• Road surface remedial works • Mini pile works	• Trial pits excavation • Tree preservation / pruning / transplantation • Underground utilities detections • Underground utilities diversion • Pre-drilling works • Construction of central median (STRCR) • Pre bored H-pile works • Soldier pile works • Mini pile works	• Trial pits excavation • Construct temporary road and site access • Underground utilities detections • Underground utilities diversion • Structural Works for Footbridge NF40 Staircases • Foundation works of footbridge NF66 • Pre-drilling works • Construction / diversion of temporary cycle track and footpath	• Trial pits excavation • Construct temporary road and site access • Tree preservation / pruning • Underground utilities detections • Underground utilities diversion • Construction of Noise Barrier Foundation and soil replacement at slope • Modification of Road Marking and Road Feature (TTA Preparation works)
Apr 2020	• Trial pits excavation • Tree preservation / pruning • Construct temporary road and site access • Road surface remedial works • Pre-drilling works • Mini pile works	• Trial pits excavation • Road surface remedial works • Mini pile works	• Trial pits excavation • Tree preservation / pruning • Underground utilities detections • Underground utilities diversion • Pre-drilling works • Pre bored H-pile works • Soldier pile works • Mini pile works	• Trial pits excavation • Construct temporary road and site access • Underground utilities detections • Underground utilities diversion • Structural Works for Footbridge NF40 Staircases • Foundation works of footbridge NF66 • Pre-drilling works • Construction / diversion of temporary cycle track and footpath	• Trial pits excavation • Construct temporary road and site access • Tree preservation / pruning • Underground utilities detections • Underground utilities diversion • Construction of Noise Barrier Foundation and soil replacement at slope • Modification of Road Marking and Road Feature (TTA Preparation works)
May 2020	• Trial pits excavation	• Trial pits excavation	• Trial pits excavation	• Trial pits excavation	• Trial pits excavation

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	• Tree preserv ation / pruning • Underground utilities diversion • Construct temporary road and site access • Road surface remedial works • Pre-drilling works • Mini pile works	• Underground utilities diversion • Road surface remedial works • Mini pile works	• Tree preservati on / pruning • Underground utilities detections • Underground utilities diversion • Pre-drilling works • Pre bored H-pile works • Soldier pile works • Mini pile works • Construct temporary road and site access	• Underground utilities detections • Underground utilities diversion • Structural Works for Footbridge NF40 Staircases • Pre-drilling works • Construction / diversion of temporary cycle track and footpath	• Tree preservation / pruning • Underground utilities detections • Underground utilities diversion • Pre-drilling works • Construction of Noise Barrier Foundation and soil replacement at slope

Breaches of the Action and Limit Levels

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

iv. Day time construction noise monitoring was carried out in the reporting quarter, no Action / Limit Level exceedance was recorded during the period.

v. For night time construction noise monitoring, total 3 exceedance cases at NMS 5 on 12 Mar and 16 Mar, at NMS 13 on 16 Mar were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET's investigation, the 3 exceedance cases should be the background traffic noise, the noise exceedance cases were considered not project-related.

Complaint, Notification of Summons and Successful Prosecution

vi. Total 10 complaint cases were received during the reporting period. 3 complaint cases were received on 24th Mar, 27th Mar, 28th Mar 2020 from the project hotline regarding to the noise nuisance near Wai Wah Centre about the night time construction works at zone 2. 7 complaint cases were received on 6th, 20th, 21st, Apr from project hotline, 23rd Apr from project email, 28th Apr from the 1823 regarding to the noise nuisance, and odour nuisance. After ET's investigation, the 10 complaint cases were considered to be not project-related.

vii. 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

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(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 6th 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 2020 and 31 May 2020.

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	Ms. Cannifer Fung	3152 3446
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

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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:

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Mar 2020	• Trial pits excavation • Construct temporary road and site access • Road surface remedial works • Pre-drilling works • Mini pile works	• Road surface remedial works • Mini pile works	• Trial pits excavation • Tree preservation / pruning / transplantation • Underground utilities detections • Underground utilities diversion • Pre-drilling works • Construction of central median (STRCR) • Pre bored H-pile works • Soldier pile works • Mini pile works	• Trial pits excavation • Construct temporary road and site access • Underground utilities detections • Underground utilities diversion • Structural Works for Footbridge NF40 Staircases • Foundation works of footbridge NF66 • Pre-drilling works • Construction / diversion of temporary cycle track and footpath	• Trial pits excavation • Construct temporary road and site access • Tree preservation / pruning • Underground utilities detections • Underground utilities diversion • Construction of Noise Barrier Foundation and soil replacement at slope • Modification of Road Marking and Road Feature (TTA Preparation works)
Apr 2020	• Trial pits excavation • Tree preservation / pruning • Construct temporary road and site access • Road surface remedial works • Pre-drilling works • Mini pile works	• Trial pits excavation • Road surface remedial works • Mini pile works	• Trial pits excavation • Tree preservation / pruning • Underground utilities detections • Underground utilities diversion • Pre-drilling works • Pre bored H-pile works • Soldier pile works • Mini pile works	• Trial pits excavation • Construct temporary road and site access • Underground utilities detections • Underground utilities diversion • Structural Works for Footbridge NF40 Staircases • Foundation works of footbridge NF66 • Pre-drilling works • Construction / diversion of temporary cycle track and footpath	• Trial pits excavation • Construct temporary road and site access • Tree preservation / pruning • Underground utilities detections • Underground utilities diversion • Construction of Noise Barrier Foundation and soil replacement at slope • Modification of Road Marking and Road Feature (TTA Preparation works)
May 2020	• Trial pits excavation • Tree preservation / pruning • Undergroun	• Trial pits excavation • Underground utilities diversion • Road surface	• Trial pits excavation • Tree preservation / pruning • Underground utilities	• Trial pits excavation • Underground utilities detections • Underground utilities diversion	• Trial pits excavation • Tree preservation / pruning • Underground utilities detections

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	d utilities diversion • Construct temporary road and site access • Road surface remedial works • Pre-drilling works • Mini pile works	remedial works • Mini pile works	detections • Underground utilities diversion • Pre-drilling works • Pre bored H-pile works • Soldier pile works • Mini pile works • Construct temporary road and site access	• Structural Works for Footbridge NF40 Staircases • Pre-drilling works • Construction / diversion of temporary cycle track and footpath	• Underground utilities diversion • Pre-drilling works • Construction of Noise Barrier Foundation and soil replacement at slope

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	06/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	09/11/2018	30/11/2023
Construction Noise Permit for Road Closure works at restricted hours	GW-RN0002-20	01/02/2020	31/03/2020
	GW-RN0152-20	01/04/2020	31/05/2020
	GW-RN0355-20	01/06/2020	31/07/2020

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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. 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 2020	AMS 5	Tin Liu	Residential
	AMS 7A	Sheung Wo Che	Residential
	AMS 11A	Sheung Wo Che	Residential
	AMS 15	Ha Wo Che	Residential
April 2020	AMS 2	Villa Le Parc	Residential
	AMS 3A	Wai Wah Centre	Residential
	AMS 11A	Sheung Wo Che	Residential
	AMS 14	Ha Wo Che	Residential
May 2020	AMS 5	Tin Liu	Residential
	AMS 6	Sha Tin Plaze	Residential
	AMS 7A	Sheung Wo Che	Residential
	AMS 13	Fung Wo Estate	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**.

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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**.

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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)
	Mar 2020	Apr 2020	May 2020			
AMS 2	-	58 - 88	-	77	166	260
AMS 3A	-	52 - 85	-	73	200	
AMS 5	68 - 70	-	81 - 84	76	156	
AMS 6	-	-	67 - 86	80	165	
AMS 7A	64 - 90	-	81 - 89	82	171	
AMS 11A	73 - 95	57 - 74	-	75	165	
AMS 13	-	-	71 - 83	80	174	
AMS 14	-	59 - 72	-	70	174	
AMS 15	62 - 82	-	-	71	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)
	Mar 2020	Apr 2020	May 2020			
AMS 2	-	62 - 99	-	85	324	500
AMS 3A	-	53 - 96	-	76	350	
AMS 5	64 - 88	-	79 - 100	84	340	
AMS 6	-	-	65 - 99	84	347	
AMS 7A	59 - 106	-	70 - 100	86	344	
AMS 11A	67 - 107	56 - 92	-	81	335	
AMS 13	-	-	62 - 95	83	303	
AMS 14	-	63 - 86	-	76	350	
AMS 15	50 - 86	-	-	73	350	

2.3.2 No Action / Limit Level exceedance for day time construction noise monitoring 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)
	Mar 2020	Apr 2020	May 2020	
NMS1	67.4 – 68.5	66.7 – 67.3	65.3 – 66.9	75
NMS2	56.1 – 61.2	56.1 – 62.8	59.7 – 61.4	75
NMS3	68.7 – 70.1	68.1 – 70.6	68.7 – 70.2	75
NMS4	67.0 – 71.1	68.2 – 70.6	68.4 – 69.8	75
NMS5A	69.4 – 72.6	71.6 – 73.5	70.9 – 72.6	75
NMS6A	70.8 – 73.9	71.8 – 72.8	70.3 – 71.6	75
NMS7	70.5 – 72.2	65.2 – 74.2	69.7 – 71.3	75
NMS8	69.1 – 71.1	66.8 – 71.3	68.7 – 71.8	75
NMS9	65.9 – 69.2	65.2 – 69.1	66.9 – 68.8	75
NMS10A	63.8 – 65.6	62.3 – 65.3	63.9 – 64.4	70*
NMS11	65.4 – 68.2	62.3 – 68.2	68.5 – 69.4	75

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NMS12	64.8 – 68.4	63.3 – 66.2	64.2 – 65.3	70*
NMS13	67.5 – 69.1	65.7 – 68.4	67.4 – 69.8	75
NMS14	65.7 – 68.2	61.1 – 68.2	65.8 – 69.5	75
NMS15	65.3 – 67.2	66.0 – 67.3	67.4 – 68.7	75
NMS16	66.8 – 67.6	65.8 – 67.5	65.7 – 68.1	75
NMS17	62.8 – 65.2	60.4 – 64.8	63.8 – 65.2	70*
NMS18	66.9 – 68.6	63.6 – 65.4	64.9 – 66.1	75
NMS19	67.5 – 69.1	67.1 – 68.2	67.2 – 69.1	75
NMS20	66.8 – 71.1	63.4 – 69.3	67.4 – 69.2	75
NMS23	65.2 – 68.1	66.1 – 70.4	66.9 – 68.6	75
NMS24	67.9 – 69.2	62.8 – 69.5	69.2 – 71.2	75
NMS25A	68.7 – 71.6	68.7 – 71.0	69.2 – 71.3	75
NMS26	69.8 – 73.9	68.7 – 73.9	69.6 – 72.0	75
NMS27	64.4 – 68.9	64.4 – 67.3	63.8 – 66.9	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, 3 exceedance cases at NMS 5 on 12 Mar and 16 Mar, at NMS 13 on 16 Mar were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET's further investigation, as the dominant noise should be the background traffic noise, the noise exceedance cases were considered not project-related. The results are summarized in **Table 2.6.**

Table 2.6 Summary of Night Time Noise Impact Monitoring Results (2300 – 0700)

Monitoring Station	Leq Range ,dB(A) in Reporting Period			Baseline Level, dB(A)	Leq Limit Level, dB(A)
	Mar 2020	Apr 2020	May 2020		
NMS 1	55.9 - 61.9[2]	43.7 – 53.1[2]	58.0 – 61.2	61.4	55
NMS 2	44.7 - 47.9	42.6 – 46.5	45.1 – 52.5	49.7	55
NMS 3	60.9 - 62.8	60.5 – 62.3	60.3 – 62.0	70.9	55
NMS 4	56.0 - 59.7	56.5 – 60.8	56.4 – 58.0	62.6	55
NMS 5A	58.0 - 73.3[2]	65.5 – 73.3[2]	38.2 – 67.6[2]	67.9	55
NMS 6A	58.2 - 68.5	66.9 – 71.0	69.4 – 70.0	71.5	55
NMS 7	57.5 - 60.2[2]	52.7 – 54.8[2]	53.5 – 58.9[2]	59.0	55
NMS 8	56.9 - 59.4	56.2 – 61.1	58.0 – 60.7	64.4	55
NMS 9	56.1 - 57.5[2]	53.0 – 54.3[2]	49.9 – 54.2[2]	53.5	55
NMS 11	52.7 - 55.1[2]	52.2 – 56.7[2]	53.1 – 54.1[2]	53.2	55
NMS 13	56.8 - 59.4[2]	51.4 – 60.6[2]	45.7 – 51.4[2]	57.3	55
NMS 14	53.4 - 55.5[2]	51.8 – 54.7[2]	47.7 – 54.9[2]	54.1	55
NMS 15	53.7 - 60.2[2]	42.6 – 58.7[2]	45.9 – 58.4[2]	58.8	55
NMS 16	55.4 - 58.1	52.0 – 58.0	55.0 – 58.8	60.1	55
NMS 18	53.0 - 54.7	53.1 – 55.8	55.0 – 59.2	63.2	55
NMS 19	58.4 - 61.7[2]	58.7 – 60.6	59.8 – 61.3	61.7	55
NMS 20	55.5 - 59.0[2]	45.2 – 57.2[2]	56.7 – 57.6	57.7	55
NMS 23	55.4 - 59.5	39.6 – 57.3	55.1 – 57.7	59.9	55
NMS 24	57.0 - 59.7[2]	53.9 – 55.0[2]	44.0 – 53.0[2]	58.0	55
NMS 25A	56.2 - 60.5[2]	58.7 – 59.6	52.1 – 54.9[2]	59.7	55

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NMS 26	55.9 - 58.7	55.8 – 58.7	58.5 – 60.3	61.2	55

Note: 1) $L_{eq\ (15min)}$ was measured at night-time (2300-0700).
2) When the Average Measured Noise Level is greater than Limit Level and baseline level, Average Construction Noise Level (CNL) will be applied, where
Calculated CNL = Measured Noise Level during operation – Baseline

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

2.3.5 During the reporting period, major dust sources including trial pits excavation and bore piling were 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.

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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**.

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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.

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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 Public complaints about the muddy water observed at Shing Mun River. EPD conducted a site visit and inspection on 6th & 7th April 2020 regarding those public complaints about the muddy water observed from one of outfall at Shing Mun River. EPD has inspected the condition of U-channel along with R1 (northbound) and the condition of water discharged from the U-channel on 6th Apr 2020. Also, photo record of the Catch-pit condition was taken by EPD. EPD conducted second site inspection for wastewater treatment system at the mini-piling area on 7th Apr 2020. Main Contractor proposed to clean the mud in desilting tanks more frequent when rainy days. Also, discharge hose from the desilting tank shall be disconnected and effluent discharge shall be stopped if the tanks is full of mud or the tank operation is out of order. Main contractor shall provide mitigation measure to prevent the water leakage.

5.1.4 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.

5.1.5 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	5 Mar 2020	Reminder: 1. Dusty stockpile shall be covered. (Work area B)	-
	29 Apr 2020	Reminder : 1. Please provide cover for construction materials (cement, stockpile). (Zone 4)	-
	5 May 2020	Reminder : 1. Please increase the frequency of water spray. (Zone 3 & NF40) 2. Please be reminded that cover the stockpile when no construction activity. (Zone 3)	-
	14 May 2020	Reminder : 1. Cover shall be provided for stockpile. (TKO storage area)	-
Noise	12 Mar 2020	Reminder 1. The contractor is reminded to maintain regular noise mitigation measure for mini piling works. (Zone 1)	-
Water Quality	19 Mar 2020	Reminder: 1. Mitigation measure shall be provide to prevent soil leakage. (Zone 3 & Zone 5)	-
	26 Mar 2020	Observation: 1. Mitigation measure shall be provide to prevent sand leakage. (Zone 4 NF 40)	1. Mitigation measures were provided to prevent sand leakage.
	9 Apr 2020	Reminder: 1. Continue to clean up of water ponding	1. (Zone 3) The mitigation measure was enhanced.

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Parameters	Date	Observations and Recommendations	Follow-up
		and muddy areas (Zone 1&2). 2. Mitigation measures such as paving to reduce runoff through exposed surfaces. (Zone 1&2) Observation: 1. Provide mitigation measure to prevent overflow of sum-pit. (Zone 3). 2. Remove silty materials in the sedimentation tank and ensure improvement of water quality standard before discharge (Zone 3). 3. Clear the silty materials in the boundary drain regularly to ensure its proper functioning (Zone 3). 4. Remove / Cover the excavated materials near the site entrance/exit (Zone 3). 5. Clean up silty materials in the desilting tanks and ensure discharge standard of water quality (Zone 1 & 2).	2. (Zone 3) The sedimentation tank was cleared. 3. (Zone 3) The U-channel was cleared. 4. (Zone 3) The muddy pit was covered. 5. (Zone 1 & 2) The sedimentation tank was cleared.
	16 Apr 2020	Reminder: 1. Cleaning frequency of sedimentation tank shall be increased. (Zone 1 & 2) 2. Mitigation measure shall be provided for exposure solid ground to prevent sludge or minimise surface runoff (Zone 1 & 2) 3. Efficiency of sedimentation tank shall be enhance before work start during wet season. (Zone 1 & 2)	-
	29 Apr 2020	Reminder: 1. Please provide cleaning record for water tank. (Zone 4) 2. Please provide label for each water tank. (all zone) Observation: 1. Please provide mitigation measure to prevent sand and sludge leakage. (Zone 4& 5) 2. Please provide mitigation measure for slope to prevent sand and water leakage during wet season. (Zone 5) 3. Please clean the sedimentation tank. (Zone 3)	1. (Zone 4 & 5) Cover was provided to prevent leakage. 2. (Zone 5) Cover was provided to prevent leakage. 3. (Zone 3) The sediment was removed.
	21 May 2020	Reminder: 1. Please be reminded that the flooding area/ puddle shall be filled or levelled after rain. (zone 3)	-
	27 May 2020	Observation: 1. Wastewater from washing machine shall not be discharge directly. (Zone 3) 2. Checklist of sedimentation tank shall be provided. (All site area) 3. Mitigation measure shall be provided to prevent water leakage in entrance. (Zone 3)	1. The washing machine will not be operated before further follow up action. 2. Checklist and label of Desilting Tank was displayed. 3. Bunding was enhanced to prevent water leakage in the entrance
Chemical and Waste Management	26 Mar 2020	Reminder: 1. Drip tray shall be provided for chemical storage. (Zone 3) 2. Relocation or cleaning of chemical waste storage tank. (Zone 3) 3. Please be mind that the sand or sludge shall not bring outside of site area. (Zone 3)	-

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Parameters	Date	Observations and Recommendations	Follow-up
	9 Apr 2020	Observation: 1. Clean up the chemicals and treat as chemical waste for disposal (Zone 1).	1. (Zone 1) The chemical was cleared
	23 Apr 2020	Observation: 1. Housekeeping in Zone 3 RW 6. Keep tidy of drip tray in Zone 3 RW 7.	1. (Zone 3) The rubbish was removed. 2. (Zone 3) The stagnant water within the drip trays was removed.
	29 Apr 2020	Observation: 1. Please provide drip tray for storage of diesel oil. (Zone 4& 5) 2. Please clean the drip tray of generator (GS-JV-01) (Zone 3, RW 7)	1. (Zone 4 & 5) The Chemicals were removed. 2. (Zone 3) The drip tray was cleared.
	14 May 2020	Observation: 1. Drip tray shall be provided for the chemical/ diesel. (TKO storage area) 2. Drip tray shall be cleared. (Zone 1) The chemical/ oil shall be cleared. (Zone 1)	1. (Works Area B) The Chemicals were removed. 2. (Zone 1) The stagnant water in drip tray was cleared. (Zone 1) The leakage of chemical was removed and stored in chemical waste storage.
	27 May 2020	Observation: 1. Drip tray shall be cleared. (Zone 4) 2. Housekeeping in Zone 1. Reminder 1. Chemicals shall be stored and covered. (Zone 3)	1. Stagnant water was cleared from drip tray. 2. Waste was removed.
Land Contamination	No deficiency was found during the reporting quarter.		
Landscape and Visual Impact	No deficiency was found during the reporting month.		
General Condition	26 Mar 2020	Reminder: 1. Environmental Permit shall be provided in entrance. (RW 7)	-

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6. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

6.1 Environmental Exceedance

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

6.1.2 For night time construction noise monitoring, 3 exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET's investigation, the 3 exceedance cases should be the background traffic noise, the noise exceedance cases were considered not project-related. 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 2020	Apr 2020	May 2020	Total	Mar 2020	Apr 2020	May 2020	Total
AMS 2	AL	-	0	-	0	-	0	-	0
	LL	-	0	-	0	-	0	-	0
AMS 3A	AL	-	0	-	0	-	0	-	0
	LL	-	0	-	0	-	0	-	0
AMS 5	AL	0	-	0	0	0	-	0	0
	LL	0	-	0	0	0	-	0	0
AMS 6	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 7A	AL	0	-	0	0	0	-	0	0
	LL	0	-	0	0	0	-	0	0
AMS 11A	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 13	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 14	AL	-	0	-	0	-	0	-	0
	LL	-	0	-	0	-	0	-	0
AMS15	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

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Table 6.2 Summary of Exceedance of Daytime Noise Monitoring in Reporting Period

Monitoring Station[1]		Number of exceedance in the reporting period			
		Leq (30min)&(15min) dB(A)			Total
		Mar 2020	Apr 2020	May 2020	
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 10A	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**

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Table 6.3 Summary of Exceedance of Night-time Noise Monitoring in Reporting Period

Monitoring Station[1]	Number of exceedance in the reporting period			
	$Leq_{(15min)}$ dB(A)			Total
	Mar 2020	Apr 2020	May 2020	
NMS 1	0	0	0	0
NMS 2	0	0	0	0
NMS 3	0	0	0	0
NMS 4	0	0	0	0
NMS 5A	2[1]	0	0	2[1]
NMS 6A	0	0	0	0
NMS 7	0	0	0	0
NMS 8	0	0	0	0
NMS 9	0	0	0	0
NMS 11	0	0	0	0
NMS 13	1[1]	0	0	1[1]
NMS 14	0	0	0	0
NMS 15	0	0	0	0
NMS 16	0	0	0	0
NMS 18	0	0	0	0
NMS 19	0	0	0	0
NMS 20	0	0	0	0
NMS 23	0	0	0	0
NMS 24	0	0	0	0
NMS 25A	0	0	0	0
NMS 26	0	0	0	0
Total	3[1]	0	0	3[1]

Remark: [1] According to onsite staff's observation, the noise source of the exceedance should be road traffic noise and not project-related construction noise.

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6.2 Complaints, Notification of Summons and Prosecution

6.2.1 Total 10 complaint cases were received during the reporting period. 3 complaint cases were received on 24th Mar, 27th Mar, 28th Mar 2020 from the project hotline regarding to the noise nuisance near Wai Wah Centre about the night time construction works at zone 2. 7 complaint cases were received on 6th, 20th, 21st, Apr from project hotline, 23rd Apr from project email, 28th Apr from the 1823 regarding to the noise nuisance, and odour nuisance. After ET's investigation, the 10 complaint cases were considered to be not project-related.

6.2.2 The complaint was received via project hotline on 24th March 2020 at 03:00am. A resident of Wai Wah Centre complained that noise generated from construction activities at night disturbing the nearby resident. According to the Contractor's information, loading/unloading, steel bar cutting, steel plate grinding and asphalt compaction were carried out in the early hours of 24th Mar 2020. The night work activities were within the site boundary. Also, 4 sides with top cover acoustic enclosure for the portable generator was used during the night work. Furthermore, mitigation measures listed in the CNP were implemented for PMEs and works activities. Three sides with top cover enclosure and additional acoustic comprised with 50 mm sound absorbing lining were used for night works activities. ET analysed that the complaint noise source should not be project-related construction noise.

6.2.3 Two complaint cases were received on 27th & 28th Mar 2020 via project hotline. Both complaint cases were concerning about the noise nuisance generated from the construction work activities at night time disturbing the nearby Wai Wah Centre residence. According to the Main Contractor, similar nature of major construction works carried out between 03:00 a.m. and 04:00 a.m. on 27th & 28th March 2020 was the asphalt compaction for the road surface remedial works at zone 2 south lane adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0002-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26th March 2020 to 04:00 27th March 2020, and between 23:00 2nd April 2020 to 04:00 3rd April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark on-site any noise related to construction works at above noise monitoring nights for which the results were lower than baseline noise level. Hence, ET analysed that the dominant noise source should be road traffic noise but not the project-related construction noise.

6.2.4 The complaint case on 6th Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6th April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The corrected noise level measured at NMS 7 is lower than the night time limit 55 dB(A). Therefore, there was no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.

6.2.5 A continues complaint were received on 20th Apr and 21st Apr 2020. A resident of Wai Wah Centre filed three complaints about the noise nuisance generated by the nearby construction

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activities during daytime. Two complaints were made through project hotline on 20th Apr 2020 at 10:57 a.m. and 21st Apr 2020 at 9:03 a.m., while the other one was through project email on 20th Apr 2020 at 12:43 p.m. The noise source(s) of the concerned nuisance during complaint period should be mini piling works, which is opposite to Wai Wah Centre. According to the Contractor's information, the major construction activities at zone 2 was mini piling works. According to the contractor's work schedule, major day work activity was mini-piling operation since early Feb 2020 at zone 2 in central median at non-restricted hours, from Mondays to Saturdays between 0800 and 1800 not including General Holidays. The mini piling operation on 20th & 21st Apr 2020 was carried out at non restricted hours. Non restricted hours include the daytime hours on working days which are not a Sunday or a public holiday between 07:00-19:00. The limited level of noise generated by the construction of the Project during the non-restricted daytime hours will be 75 dB (A) for dwelling. The mini piling operation on 20th and 21st Apr 2020 was carried out at non restricted hours with green tarpaulin curtain and sound proof canvas. The green tarpaulin curtain can block the view of nearby NSR and sound proof canvas can mitigate the noise level during the mini piling operation. The noise monitoring stations close to the concerned works area in Zone 2 are NMS 3, NMS 4, NMS 5A, and NMS6A & NMS 7. NMS5A and NMS6A are the most representing monitoring location of Wai Wah Centre. The noise level of NMS 5A and NMS 6A on 22nd Apr 2020 were 73.5 dB (A) and 72.6 dB (A) respectively. No noise exceedance was occurred at NMS 5A and NMS 6A. The construction activity on 22nd Apr 2020 was similar to 20th and 21st Apr 2020. Therefore, ET's day-time monitoring result on 22nd April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20th and 21st April 2020. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.

6.2.6 The complaint cases on 21st Apr 2020 was received by project hotline from Police. According to the complainant who is the local resident at Wai Wah Centre, the noise source(s) of the concerned nuisance during night works was at zone 2 is opposite to Wai Wah Centre. The major construction works was road surface remedial work since 15th April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 23rd April 2020 to 04:00 24th April 2020. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. There were no exceedance on the night time noise monitoring, especially measured at NMS 5A & NMS 6A where locate at the Wai Wah Centre, the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Therefore, no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.

6.2.7 The complaint was received via project hotline on 23rd April 2020 at 10:45 a.m. A resident of Wai Wah Centre complained that noise generated from operation of the two piling machines disturbing her daughter's study for DSE examination, and demanding limitation on operation hours of the machines only at two separate periods between 12 noon and 1p.m and 3 p.m. to 6 p.m. According to the Main Contractor, the major construction works at day time (08:00-18:00) on 23rd April 2020 was mini-piling operation at Zone 2 Central Median of Tai Po Road near Wai Wah Centre. According to the photo records of day-time site condition on 23rd April 2020 provided by Main Contractor, the green tarpaulin curtain was provided for the mini-pile drilling machines so that the bottom part of the mini-pile drilling machine was blocked from view of nearby NSR (e.g. residents at Wai Wah Centre) and an additional layer of sound proof

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canvas was installed at lower level to mitigate the noise from mini-pile drilling operation. The five noise monitoring stations close to the concerned works area (where located at zone 2, the complaint from Wai Wah Centre) are NMS3, NMS4, NMS5A, NMS6A & NMS7, and especially NMS5A & NMS6A locate at the Wai Wah Centre. The day-time noise monitoring results measured at NMS3, 4, 5A, 6A and 7 were all lower than the limit level, especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. In particular, ET arranged on RE request a join site (with RE & JV) regular day-time noise monitoring at locations NMS 5A & NMS 6A during the mini-piling operation of both machines at 10:00 a.m. on 22nd April 2020, when the mitigation measures of additional acoustic sound proof layers at lower part of the machines and tarpaulin screens were observed. The monitoring results show no noise exceedance occurred at both locations. Thus, ET day-time monitoring result on 22nd April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23rd April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.

6.2.8 The complainant on via ICC1823 on 28th April 2020 complained about the noise and odor nuisance generated from the night-time asphalt laying construction works at Shatin Rural Committee Road (Zone 3) area. Although the main contractor no work at zone 3, but the major night-time construction works was road surface remedial work which was related to the complainant concerned. Therefore, the following section would further investigate on the main contractor night-time works at the nearby zone 2 area. There was no construction work at Shatin Rural Committee Road (Zone 3) on 27^28 April 2020. The major construction works was road surface remedial work since 15th April 2020 at approved restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. Also, Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The concerned night work could only be conducted during off-peak period at night time under temporary traffic diversion to avoid causing traffic congestion. The major construction works was road surface remedial work since 15th April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The lorry had been used in TTA implementation & road opening, portable generator and electric handheld breaker had been used in asphalt removal work, dump truck with grab had been used for loading and unloading of asphalt or rubble, vibratory compactor had been used in asphalt compaction for road surface remedial works on 27^28 April 2020. The Main Contractor complied with CNP No.: GW-RN0152-20 that allowed PME used in Group C or Group F. According to the Main Contractor, advance “Notice to Affected Residents” had been issued and distributed on 26th March 2020 in accordance with the CNP advice that prior notification should be given to nearby residents. Besides, the road re-surfacing work would be carried out at approximately 14 night-time works between 2nd and 28th April 2020 listed in the distributed notices. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at NMS 5A & NMS 6A where locate close to the works area (Wai Wah Centre in Zone 2), the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Besides, the measured result after correction of baseline at NMS 9 (Lek Yuen Estate) & NMS 24 (Shatin Plaza) were lower than that of the limit level, whilst the measured result at NMS 25A (Sheung Wo Cheu) was lower than that of measured in the baseline. These three locations NMS 9, NMS 24 & 25A are located at the section of the Sha Tin Rural Committee Road closest to the complainant’s complain area in Zone 3. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.

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

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

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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 G**.

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8. CONCLUSIONS

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

8.1.2 Day time construction noise monitoring was carried out in the reporting quarter, no Action / Limit Level exceedance was recorded during the period.

8.1.3 For night time construction noise monitoring, total 3 exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET's investigation, the 3 exceedance cases should be the background traffic noise, the noise exceedance cases were considered not project-related.

8.1.4 Total 10 complaint cases were received during the reporting period. 3 complaint cases were received on 24th Mar, 27th Mar, 28th Mar 2020 from the project hotline regarding to the noise nuisance near Wai Wah Centre about the night time construction works at zone 2. 7 complaint cases were received on 6th, 20th, 21st, Apr from project hotline, 23rd Apr from project email, 28th Apr from the 1823 regarding to the noise nuisance, and odour nuisance. After ET's investigation, the 10 complaint cases were considered to be not project-related.

8.1.5 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.

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

Comment and Recommendations

8.1.7 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.

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

<u>Air Quality Impact</u>

- Dusty stockpile shall be covered. (Work area B)
- Please provide cover for construction materials (cement, stockpile). (Zone 4)
- Please increase the frequency of water spray. (Zone 3 & NF40)
- Please be remaindered that cover the stockpile when no construction activity. (Zone 3)
- Cover shall be provided for stockpile. (TKO storage area)

<u>Construction Noise Impact</u>

- The contractor is reminded to maintain regular noise mitigation measure for mini piling works.(Zone 1)

<u>Water Quality Impact</u>

- Mitigation measure shall be provide to prevent soil leakage. (Zone 3 & Zone 5)

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- Mitigation measure shall be provide to prevent sand leakage. (Zone 4 NF 40)
- Continue to clean up of water ponding and muddy areas (Zone 1&2).
- Mitigation measures such as paving to reduce runoff through exposed surfaces. (Zone 1&2)
- Extend bunding/ sandbags at the edge of sum-pit/piling area to mitigate ingress/egress of water (Zone 3).
- Remove silty materials in the sedimentation tank and ensure improvement of water quality standard before discharge (Zone 3).
- Clear the silty materials in the boundary drain regularly to ensure its proper functioning (Zone 3).
- Remove / Cover the excavated materials near the site entrance/exit (Zone 3).
- Clean up silty materials in the desilting tanks and ensure discharge standard of water quality (Zone 1 & 2).
- Cleaning frequency of sedimentation tank shall be increased. (Zone 1 & 2)
- Mitigation measure shall be provided for exposure solid ground to prevent sludge or minimise surface runoff (Zone 1 & 2)
- Efficiency of sedimentation tank shall be enhance before work start during wet season. (Zone 1 & 2)
- Please provide cleaning record for water tank. (Zone 4)
- Please provide label for each water tank. (all zone)
- Please provide mitigation measure to prevent sand and sludge leakage. (Zone 4& 5)
- Please provide mitigation measure for slope to prevent sand and water leakage during wet season. (Zone 5)
- Please clean the sedimentation tank. (Zone 3)
- Please be reminded that the flooding area/ puddle after rain. (zone 3)
- Wastewater from washing machine shall not be discharge directly. (Zone 3)
- Checklist of sedimentation tank shall be provided. (All site area)
- Mitigation measure shall be provided to prevent water leakage in entrance. (Zone 3)

Chemical and Waste Management

- Drip tray shall be provided for chemical storage. (Zone 3)
- Relocation or cleaning of chemical waste storage tank. (Zone 3)
- Please be mind that the sand or sludge shall not bring outside of site area. (Zone 3)
- Clean up the chemicals and treat as chemical waste for disposal (Zone 1).
- Housekeeping in Zone 3 RW 6.
- Keep tidy of drip tray in Zone 3 RW 7.
- Please provide drip tray for storage of diesel oil. (Zone 4& 5)
- Please clean the drip tray of generator (GS-JV-01) (Zone 3, RW 7)
- Drip tray shall be provided for the chemical/ diesel. (TKO storage area)
- Drip tray shall be cleared. (Zone 1)
- The chemical/ oil shall be cleared. (Zone 1)
- Drip tray shall be cleared. (Zone 4)
- Chemicals shall be stored and covered. (Zone 3)
- Housekeeping in Zone 1.

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.

Permit / Licenses

- Environmental Permit shall be provided in entrance. (RW 7)

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Figure 1

Project General Layout

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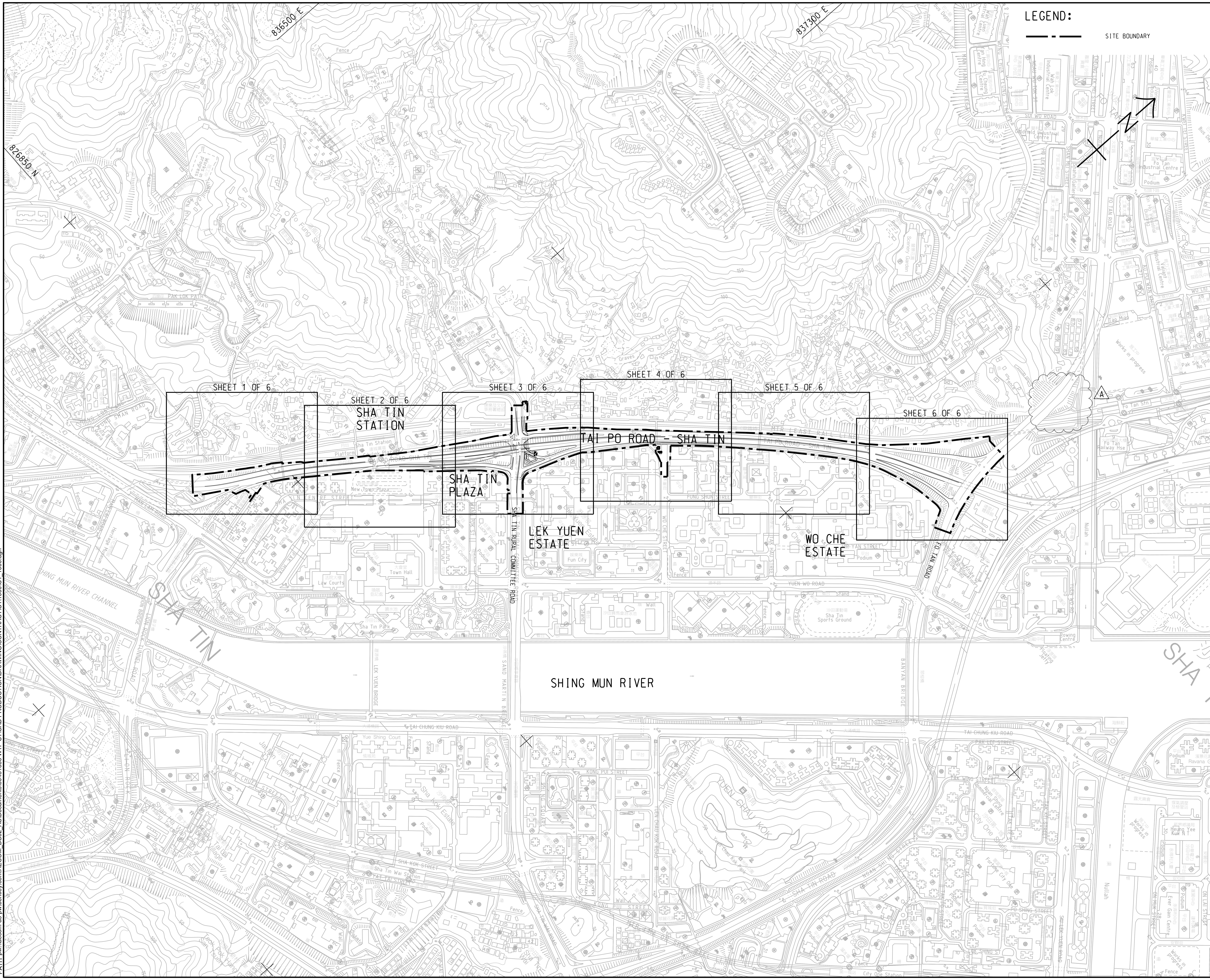

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PROJECT 項目

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

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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

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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

CUT LINE A-A

SEE DRAWING NO. 60481656/C1/1002

EXISTING FOOTBRIDGE, NF71A

RSE1

RSE2

FIGURE 1.1a

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STATUS 階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

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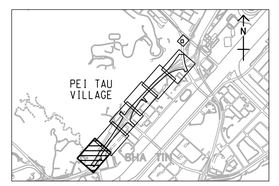
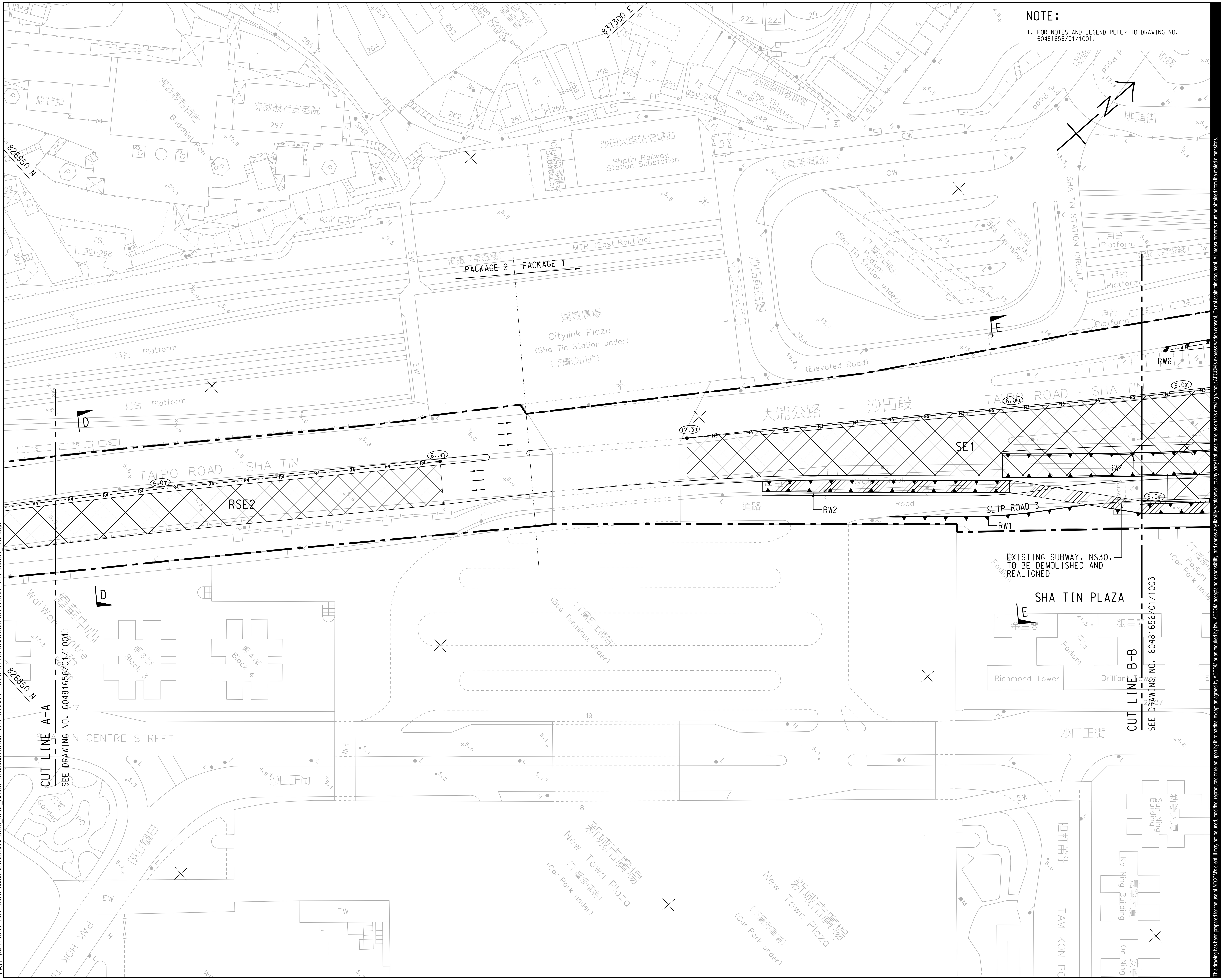


CONTRACT NO. 合約編號
60481656 NE/2017/05

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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DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 40000

CONTRACT NO. 合約編號

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SHEET TITLE 圖紙名稱

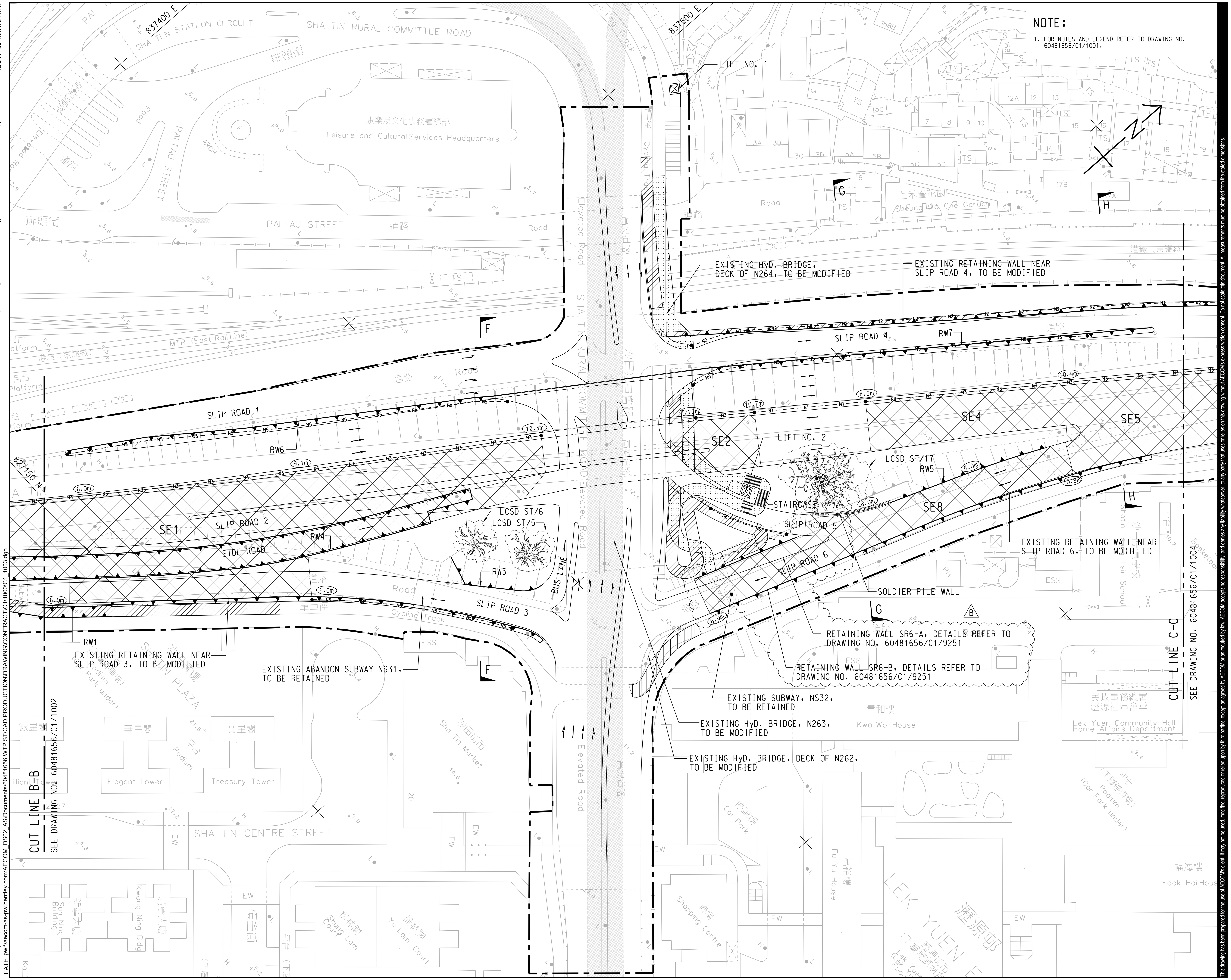
GENERAL LAYOUT PLAN

FIGURE 1.1b

SHEET 2 OF 6

SHEET NUMBER 圖紙編號

60481656/C1/1002



NOTE:
1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60481656/C1/1001.
837400 E
837500 E
827150 N
SHA TIN RURAL COMMITTEE ROAD
PAI TAU STREET
排頭街
Leisure and Cultural Services Headquarters
康樂及文化事務署總部
MTR (East Rail Line)
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/5
LCSD ST/6
LCSD ST/17
STAIRCASE
BUS LANE
Elevated Road
SOLDIER PILE WALL
EXISTING RETAINING WALL NEAR SLIP ROAD 6, TO BE MODIFIED
EXISTING RETAINING WALL NEAR SLIP ROAD 3, TO BE MODIFIED
EXISTING ABANDON SUBWAY NS31, TO BE RETAINED
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
SHA TIN CENTRE STREET
Elegant Tower
Treasury Tower
Sha Tin Market
Kwai Wo House
Lek Yuen Community Hall
Home Affairs Department
Fu Yu House
Fook Hoi House
Shopping Centre
Sheung Wo Che Garden
Yu Lam Court
Shung Lam Court
Kwong Ning Bldg
Sun Ning Building
LEK YUEN

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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

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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

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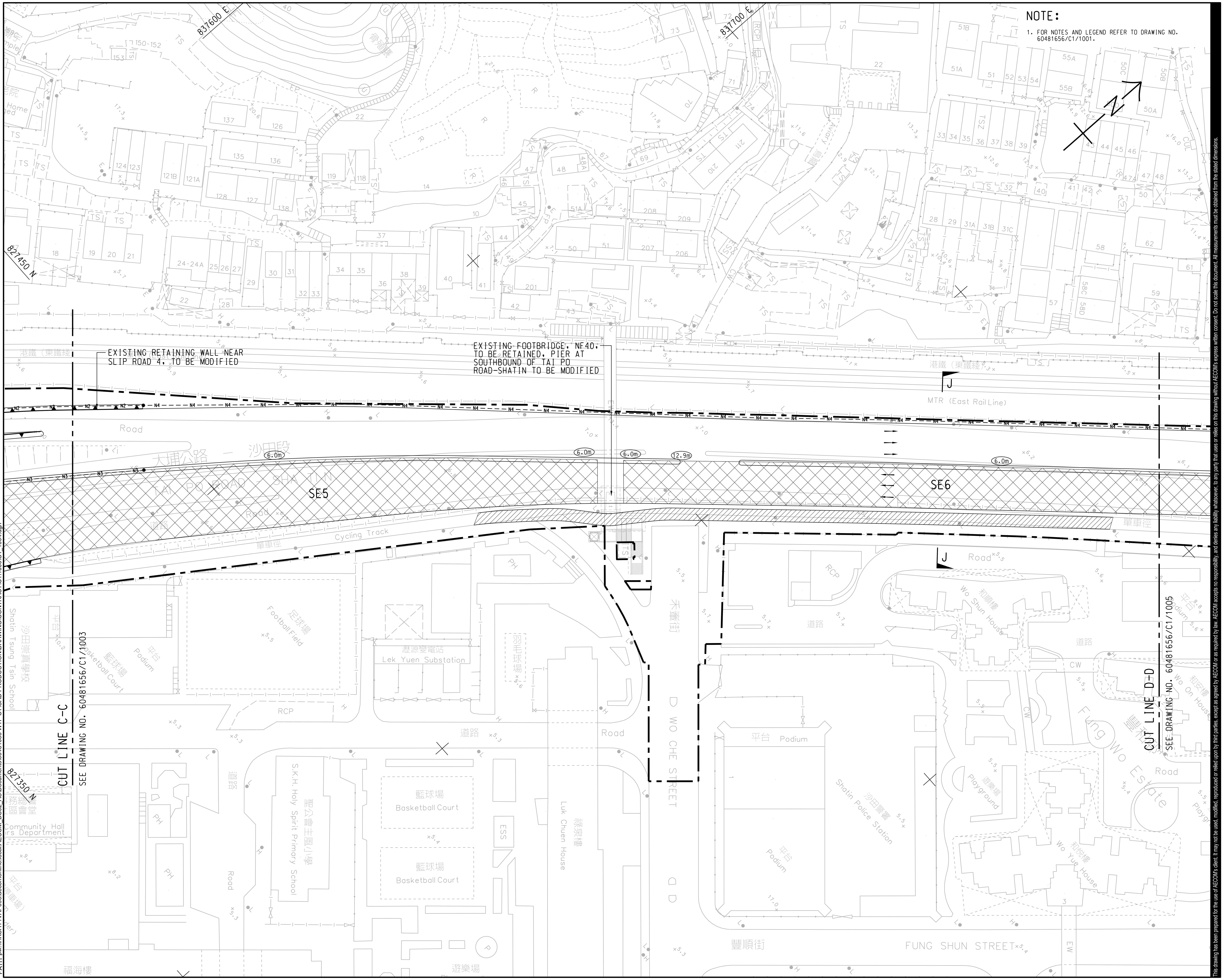

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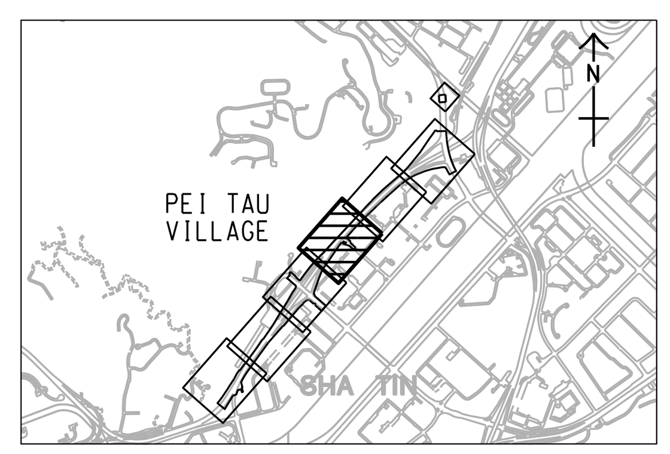

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SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

FIGURE 1.1b

SHEET 4 OF 6

SHEET NUMBER 圖紙編號

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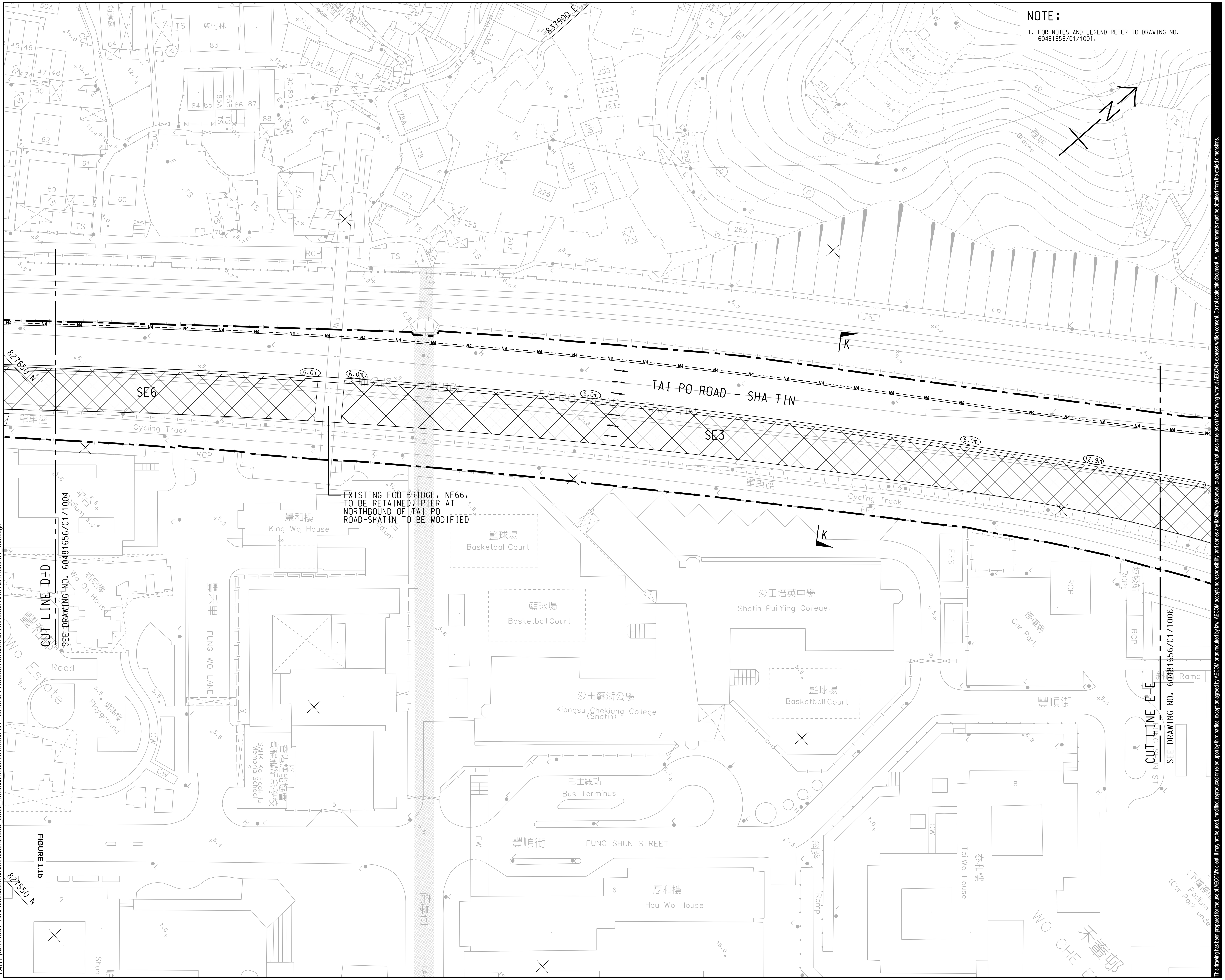

ISO A1 594mm x 841mm

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FIGURE 1.1b

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SCALE 比例: A1 1 : 500

DIMENSION UNIT 尺寸單位: METRES

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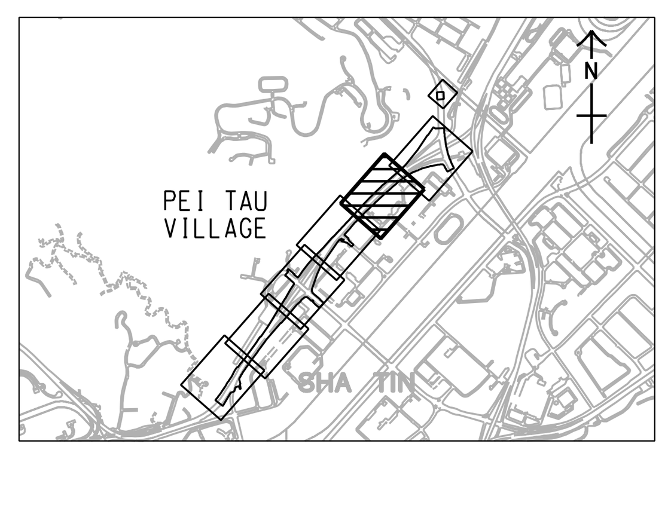

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SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

FIGURE 1.1b

SHEET 5 OF 6

SHEET NUMBER 圖紙編號

60481656/C1/1005

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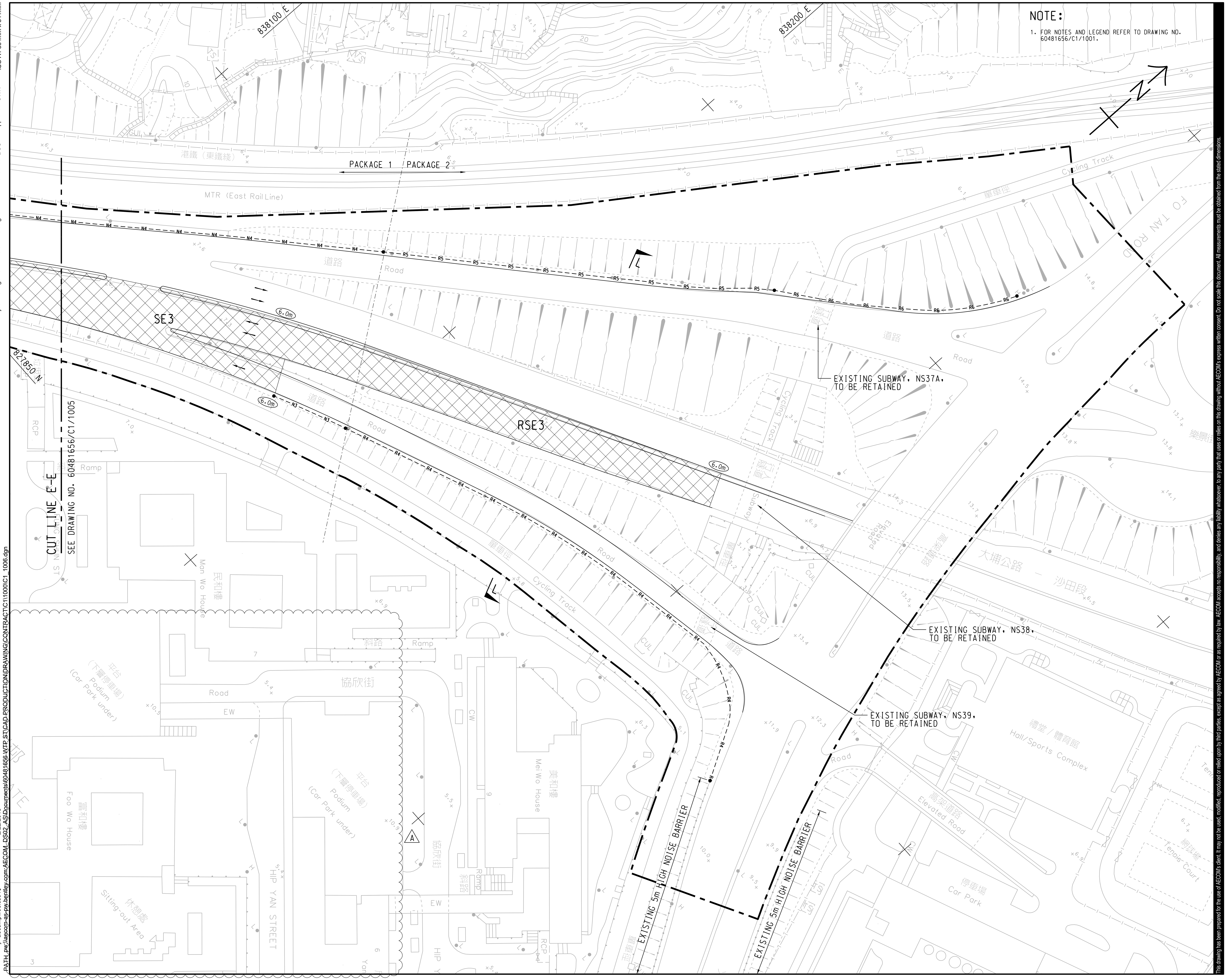

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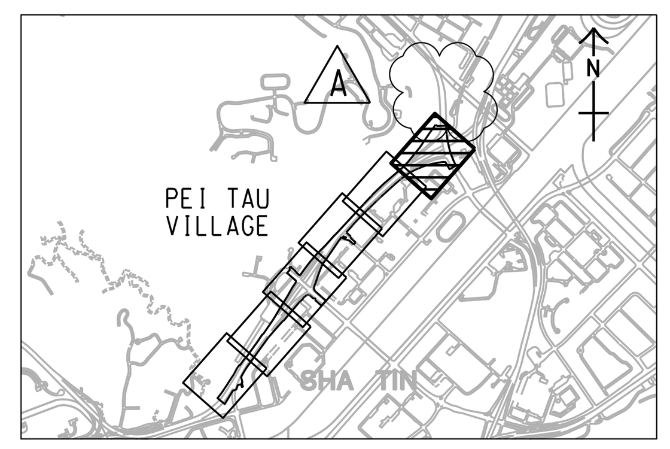
STATUS 階段

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

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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

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Figure 2a

Air Monitoring Locations

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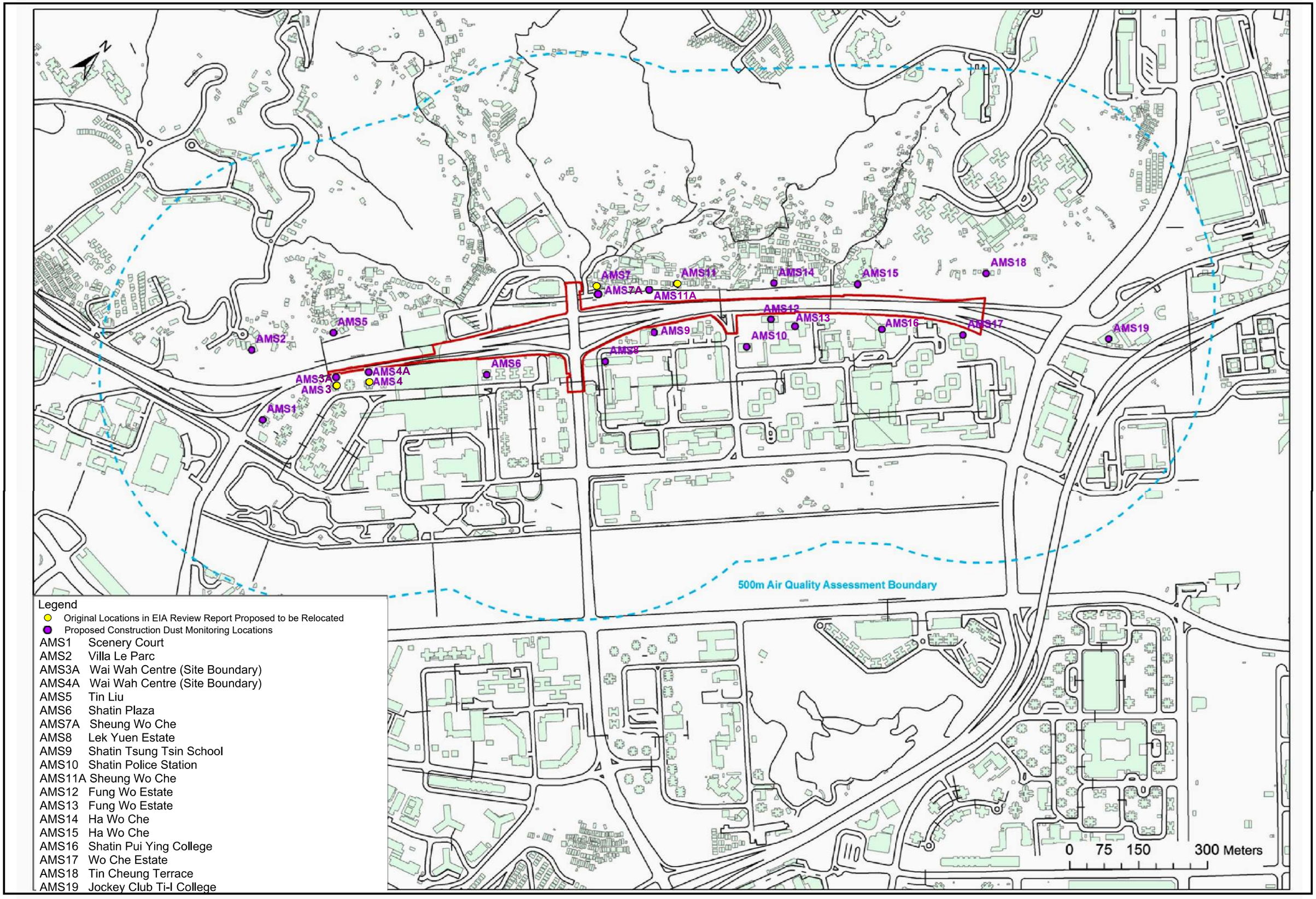

Figure 2a Air Quality Monitoring Locations

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Tel : +852 2450 8233
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Website : www.fugro.com

Figure 2b

Noise Monitoring Locations

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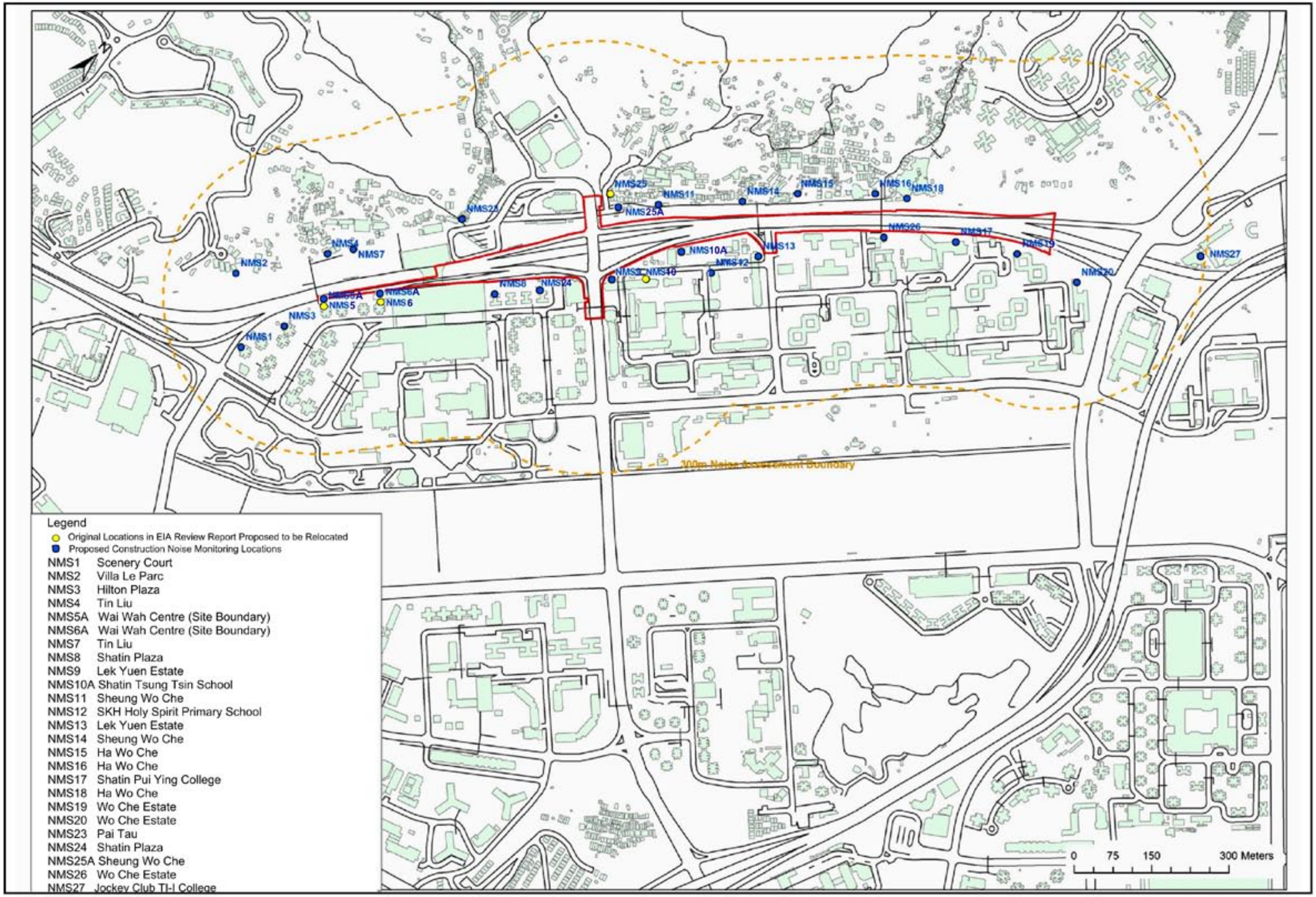

Figure 2b Noise Monitoring Locations

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
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Appendix A

Construction Programme

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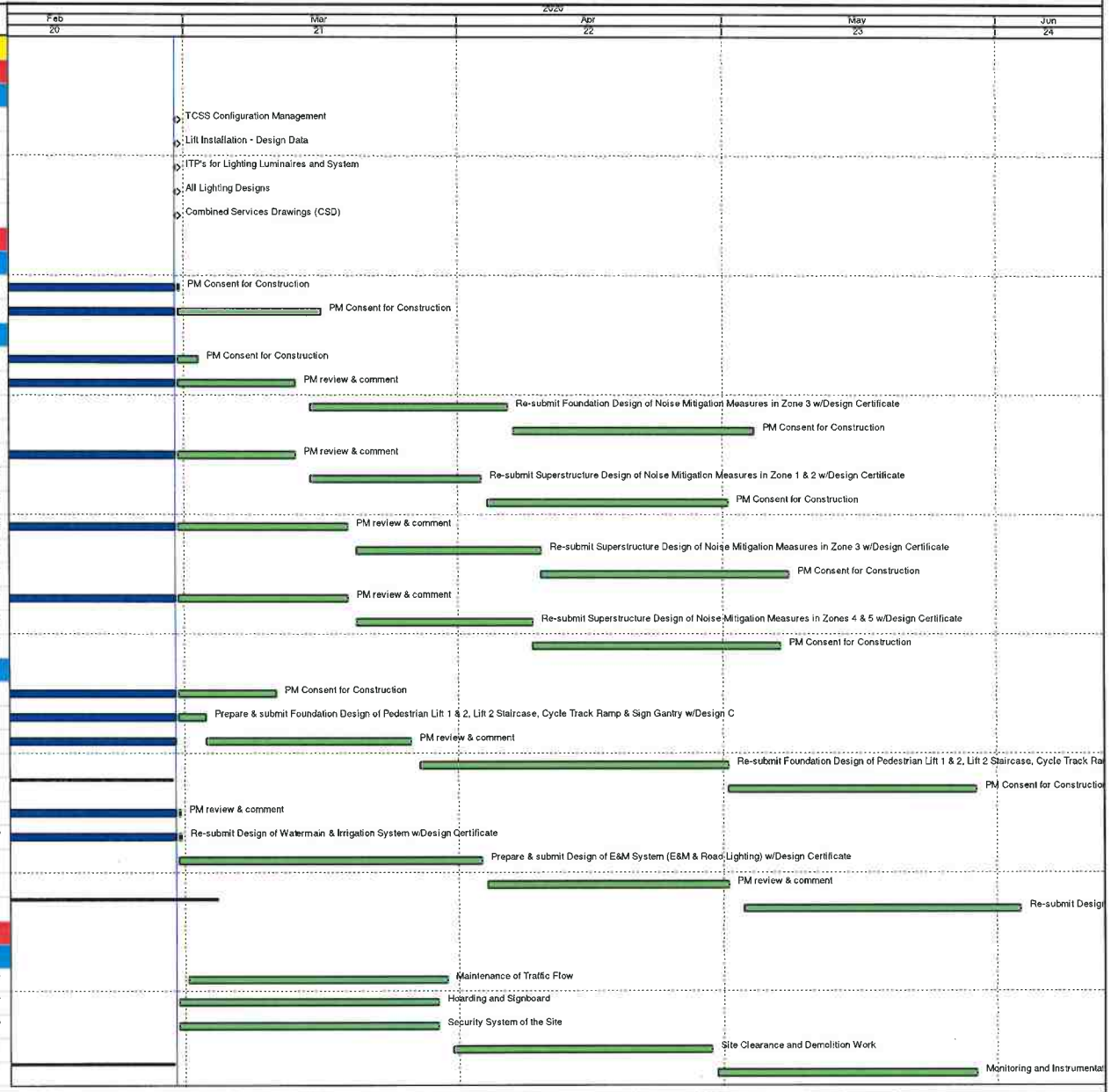
中國中鐵-中鐵一局-振華工程聯營
CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

06-Mar-20

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Roa							
PRELIMINARIES & GENERAL REQUIREMENT							
GENERAL SUBMISSION							
SUB1343	TCSS Configuration Management	0	0	29-Feb-20*		30-Nov-19	
SUB1347	Lift Installation - Design Data	0	0	29-Feb-20*		30-Nov-19	
SUB1403	ITP's for Lighting Luminaires and System	0	0	29-Feb-20*		30-Nov-19	
SUB1405	All Lighting Designs	0	0	29-Feb-20*		30-Nov-19	
SUB1410	Combined Services Drawings (CSD)	0	0	29-Feb-20*		30-Nov-19	
DESIGN SUBMISSION							
STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)							
DES1070	PM Consent for Construction	28	1	06-Nov-18 A	29-Feb-20	20-Feb-19	19-Mar-19
DES1150	PM Consent for Construction	28	17	03-May-19 A	16-Mar-20	31-Jul-19	27-Aug-19
NOISE MITIGATION MEASURES							
DES1230	PM Consent for Construction	28	3	02-Jan-19 A	02-Mar-20	31-Jan-19	27-Feb-19
DES1250	PM review & comment	28	14	12-Jul-19 A	13-Mar-20	01-Sep-19	29-Sep-19
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23	15-Mar-20	06-Apr-20	15-Dec-19	06-Jan-20
DES1270	PM Consent for Construction	28	28	07-Apr-20	04-May-20	07-Jan-20	03-Feb-20
DES1290	PM review & comment	28	14	07-Aug-19 A	13-Mar-20	31-Aug-19	27-Sep-19
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design	20	20	15-Mar-20	03-Apr-20	20-Dec-19	09-Jan-20
DES1310	PM Consent for Construction	28	28	04-Apr-20	01-May-20	09-Jan-20	06-Feb-20
DES1330	PM review & comment	28	20	07-Aug-19 A	19-Mar-20	31-Aug-19	27-Sep-19
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	20-Mar-20	10-Apr-20	20-Dec-19	10-Jan-20
DES1350	PM Consent for Construction	28	28	10-Apr-20	08-May-20	10-Jan-20	07-Feb-20
DES1370	PM review & comment	28	20	07-Aug-19 A	19-Mar-20	31-Aug-19	27-Sep-19
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	20	20	20-Mar-20	09-Apr-20	20-Dec-19	09-Jan-20
DES1390	PM Consent for Construction	28	28	09-Apr-20	07-May-20	09-Jan-20	06-Feb-20
REMAINING WORKS							
DES1470	PM Consent for Construction	28	11	11-Mar-19 A	11-Mar-20	31-Jul-19	27-Aug-19
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	3	26-Nov-18 A	03-Mar-20	31-Dec-18	20-Jan-19
DES1490	PM review & comment	28	24	25-Jan-19 A	26-Mar-20	04-Aug-19	01-Sep-19
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry	35	35	27-Mar-20	01-May-20	27-Dec-19	31-Jan-20
DES1510	PM Consent for Construction	28	28	01-May-20	29-May-20	31-Jan-20	28-Feb-20
DES1530	PM review & comment	28	1	02-Jan-19 A	29-Feb-20	31-Jan-19	27-Feb-19
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	29-Feb-20	02-Apr-19	03-May-19
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	29-Feb-20	03-Apr-20	30-Nov-19	03-Jan-20
DES1570	PM review & comment	28	28	04-Apr-20	01-May-20	04-Jan-20	31-Jan-20
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-May-20	03-Jun-20	02-Feb-20	04-Mar-20
SUBLETTING & PROCUREMENT SCHEDULE							
SUBLETTING							
SPS1000	Maintenance of Traffic Flow	30	30	01-Mar-20	30-Mar-20	01-Dec-19	30-Dec-19
SPS1030	Hoarding and Signboard	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1060	Security System of the Site	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1140	Site Clearance and Demolition Work	30	30	31-Mar-20	29-Apr-20	31-Dec-19	29-Jan-20
SPS1160	Monitoring and Instrumentation	30	30	30-Apr-20	29-May-20	30-Jan-20	28-Feb-20

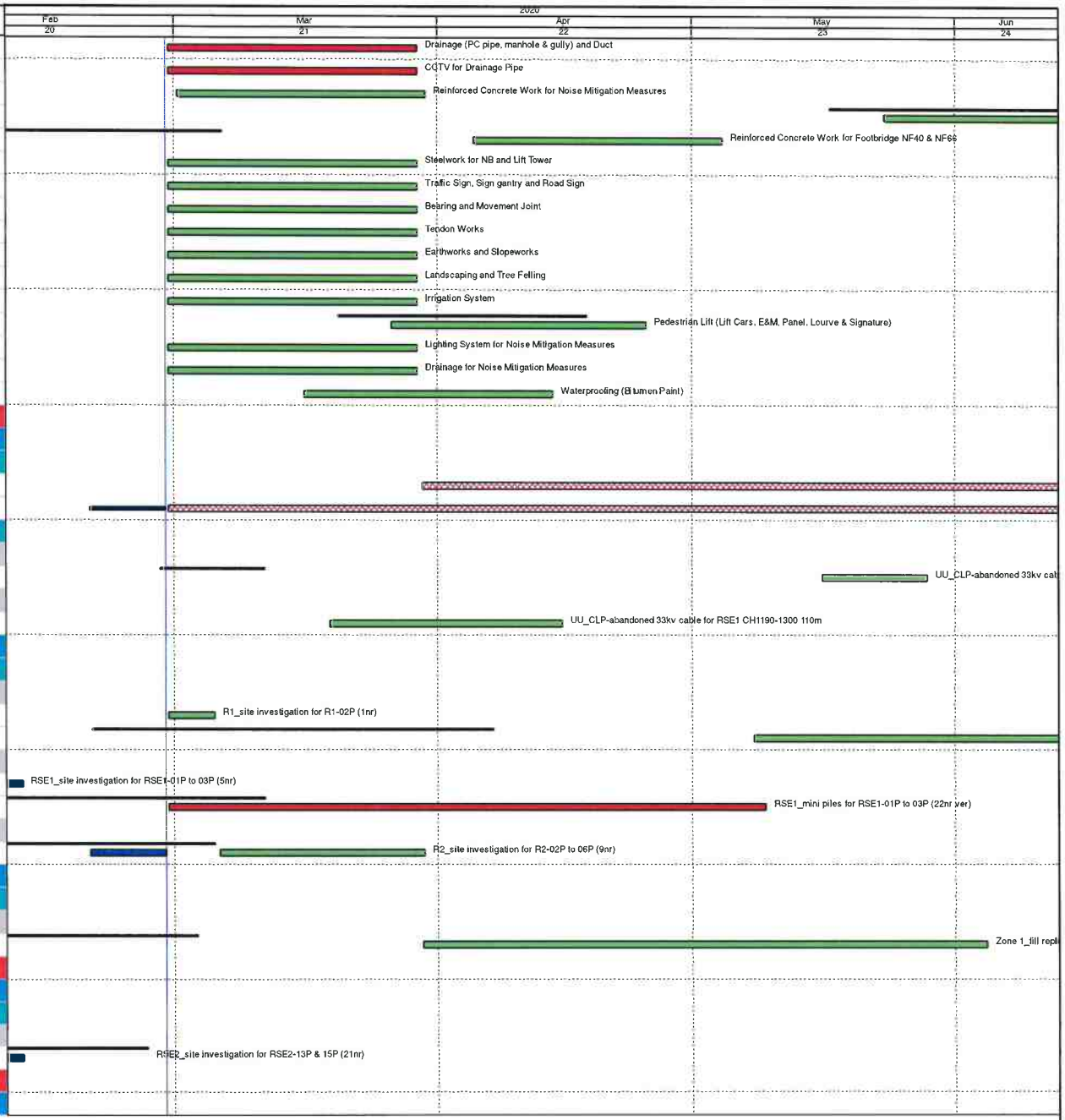


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
◇ Milestone
◆ Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (29/02/20)
Page 1 of 5

Date	Revision	Checked	Approved
06-Mar-20	3MRP DWP 2002	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1220	CCTV for Drainage Pipe	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	01-Mar-20	30-Mar-20	01-Dec-19	30-Dec-19
SPS1270	Reinforced Concrete Work for Pedestrian Lift	30	30	23-May-20	22-Jun-20	17-May-20	15-Jun-20
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF66	30	30	05-Apr-20	04-May-20	06-Feb-20	06-Mar-20
SPS1290	Steelwork for NB and Lift Tower	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1300	Traffic Sign, Sign gantry and Road Sign	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1310	Bearing and Movement Joint	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1320	Tendon Works	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1340	Earthworks and Slopeworks	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1350	Landscaping and Tree Felling	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1360	Irrigation System	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30	26-Mar-20	25-Apr-20	20-Mar-20	18-Apr-20
SPS1420	Lighting System for Noise Mitigation Measures	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1440	Drainage for Noise Mitigation Measures	30	30	29-Feb-20	29-Mar-20	30-Nov-19	29-Dec-19
SPS1460	Waterproofing (Bitumen Paint)	30	30	16-Mar-20	14-Apr-20	27-Dec-19	25-Jan-20
WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	269	269	30-Mar-20	25-Feb-21	30-Dec-19	05-Dec-20
Z1SU1034	Zone 1 Stage 1 R1 structure R2	435	452	20-Feb-20 A	07-Sep-21	06-Feb-20	28-Jun-21
UTILITIES DIVERSION							
NORTHBOUND							
Z1_1330	UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 30m	11	11	16-May-20	28-May-20	28-Feb-20	11-Mar-20
CENTRAL BARRIER							
Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110m	20	20	19-Mar-20	15-Apr-20	20-Dec-19	15-Jan-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							
Z1_1510	R1_site investigation for R1-02P (1nr)	5	5	29-Feb-20	05-Mar-20	31-Jan-20	05-Feb-20
Z1_1520	R1_mini piles for R1-02P (5nr raking, 3nr ver)	40	40	08-May-20	23-Jun-20	20-Feb-20	07-Apr-20
CENTRAL BARRIER							
Z1_1490	RSE1_site investigation for RSE1-01P to 03P (5nr)	15	0	28-Dec-19 A	12-Feb-20 A	30-Nov-19	17-Dec-19
Z1_1500	RSE1_mini piles for RSE1-01P to 03P (22nr ver)	55	55	29-Feb-20	09-May-20	04-Jan-20	11-Mar-20
SOUTHBOUND							
Z1_1050	R2_site investigation for R2-02P to 06P (9nr)	25	20	20-Feb-20 A	30-Mar-20	06-Feb-20	05-Mar-20
ROADWORKS AND REMAINING WORKS							
GEOTECHNICAL WORKS							
NORTHBOUND							
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	30-Mar-20*	04-Jun-20	30-Dec-19	03-Mar-20
WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)							
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
CENTRAL BARRIER							
Z2_1000	RSE2_site investigation for RSE2-13P & 15P (21nr)	55	0	21-Nov-19 A	12-Feb-20 A	18-Dec-19	26-Feb-20
WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)							
PRELIMINARIES WORKS							

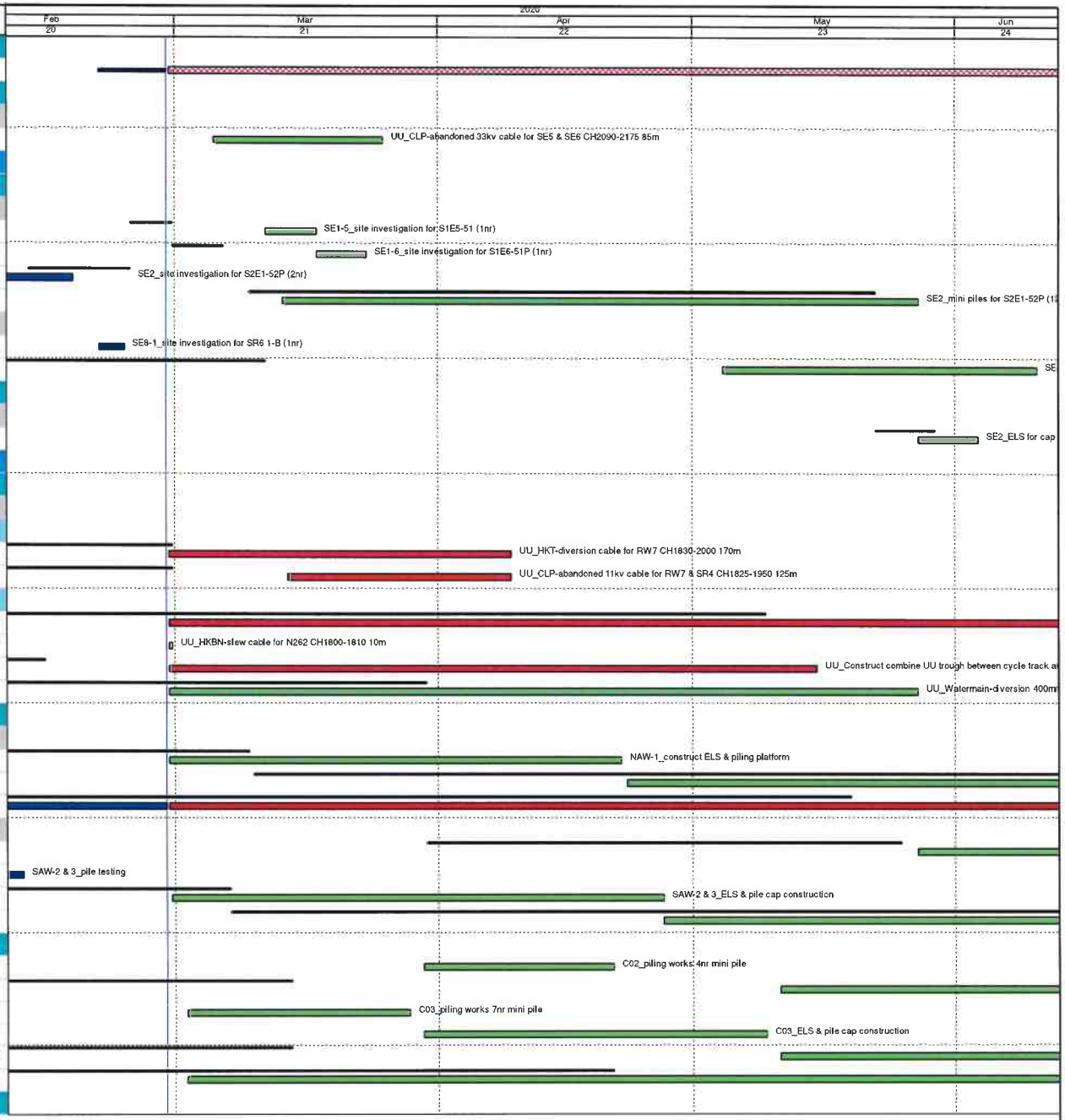


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (29/02/20)
Page 2 of 5

Date	Revision	Checked	Approved
06-Mar-20	3MRP DWP 2002	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	APd Start	APd Finish
SUMMARY PROGRAMME							
Z3SU5050	Zone 3b (near SR6) Stage 1 SE5, SE8, SR6 foundation and N262 bridge	323	323	21-Feb-20 A	31-Mar-21	30-Nov-19	11-Feb-21
UTILITIES DIVERSION							
SOUTHBOUND							
Z3_2900	UU_CLP-abandoned 33kv cable for SE5 & SE6 CH2090-2175 85m	17	17	05-Mar-20	25-Mar-20	05-Dec-19	27-Dec-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
SOUTHBOUND							
Z3_1522	SE1-5_site investigation for S1E5-51 (1nr)	5	5	11-Mar-20	17-Mar-20	24-Feb-20	29-Feb-20
Z3_1530	SE1-6_site investigation for S1E6-51P (1nr)	5	5	17-Mar-20	23-Mar-20	29-Feb-20	06-Mar-20
Z3_5630	SE2_site investigation for S2E1-52P (2nr)	10	0	04-Feb-20 A	18-Feb-20 A	12-Feb-20	24-Feb-20
Z3_5640	SE2_mini piles for S2E1-52P (12nr raking, 11nr ver)	58	58	13-Mar-20	27-May-20	09-Mar-20	22-May-20
SOUTHBOUND SLIP ROAD							
Z3_1720	SE8-1_site investigation for SR6 1-B (1nr)	5	0	21-Feb-20 A	24-Feb-20 A	30-Nov-19	05-Dec-19
Z3_1730	SE8-1_mini piles for SR6 1-B (8nr)	32	32	04-May-20	10-Jun-20	03-Feb-20	11-Mar-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z3_5650	SE2_ELS for cap construction S2E1-52P (10m_2 side)	6	6	27-May-20	03-Jun-20	22-May-20	29-May-20
BRIDGE AND STRUCTURE WORKS							
PRELIMINARIES WORKS							
UTILITIES DIVERSION							
NORTHBOUND							
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	29-Feb-20	09-Apr-20	18-Jan-20	29-Feb-20
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22	22	14-Mar-20	09-Apr-20	05-Feb-20	29-Feb-20
SOUTHBOUND							
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127	29-Feb-20	04-Aug-20	30-Nov-19	09-May-20
Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	29-Feb-20	29-Feb-20	30-Nov-19	30-Nov-19
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	60	60	29-Feb-20*	15-May-20	30-Nov-19	14-Feb-20
Z3_5740	UU_Watermain-diversion 400mm pipe for SAW1 (Additional)	70	70	29-Feb-20*	27-May-20	06-Jan-20	30-Mar-20
MODIFICATION OF BRIDGE N263							
RECONSTRUCTION ABUTMENT WALL AT NHA							
Z3_4110	NAW-1_construct ELS & piling platform	42	42	29-Feb-20	22-Apr-20	17-Jan-20	09-Mar-20
Z3_4120	NAW-1_piling works for new NHA wall (23nr socket H-pile)	161	161	23-Apr-20	04-Nov-20	10-Mar-20	22-Sep-20
Z3_4160	NAW-2_piling works for new NHA wall (16nr socket H-pile)	112	95	09-Feb-20 A	27-Jun-20	30-Dec-19	19-May-20
MODIFICATION EXISTING PIER WALL OF N263							
Z3_3870	SAW-1_piling works for new south abutment wall (3nr 1.5m bored pile)	42	42	27-May-20	17-Jul-20	30-Mar-20	25-May-20
Z3_3920	SAW-2 & 3_pile testing	28	0	17-Jan-20 A	12-Feb-20 A	14-Dec-19	11-Jan-20
Z3_3930	SAW-2 & 3_ELS & pile cap construction	45	45	29-Feb-20	27-Apr-20	11-Jan-20	07-Mar-20
Z3_3940	Modify existing N263 pier wall (North side)	90	90	27-Apr-20	14-Aug-20	07-Mar-20	29-Jun-20
MODIFICATION OF BRIDGE N262							
Z3_3510	C02_piling works 4nr mini pile	16	16	30-Mar-20	21-Apr-20	02-Jan-20	20-Jan-20
Z3_3520	C02_ELS & pile cap construction	30	30	11-May-20	13-Jun-20	10-Feb-20	14-Mar-20
Z3_3540	C03_piling works 7nr mini pile	24	24	02-Mar-20*	28-Mar-20	02-Dec-19	31-Dec-19
Z3_3550	C03_ELS & pile cap construction	30	30	30-Mar-20	09-May-20	02-Jan-20	08-Feb-20
Z3_3560	C03_column construction	30	30	11-May-20	13-Jun-20	10-Feb-20	14-Mar-20
Z3_3580	C04_ELS & footing construction 2nr	90	90	02-Mar-20	20-Jun-20	30-Dec-19	21-Apr-20
NEW SLIP ROAD 2							

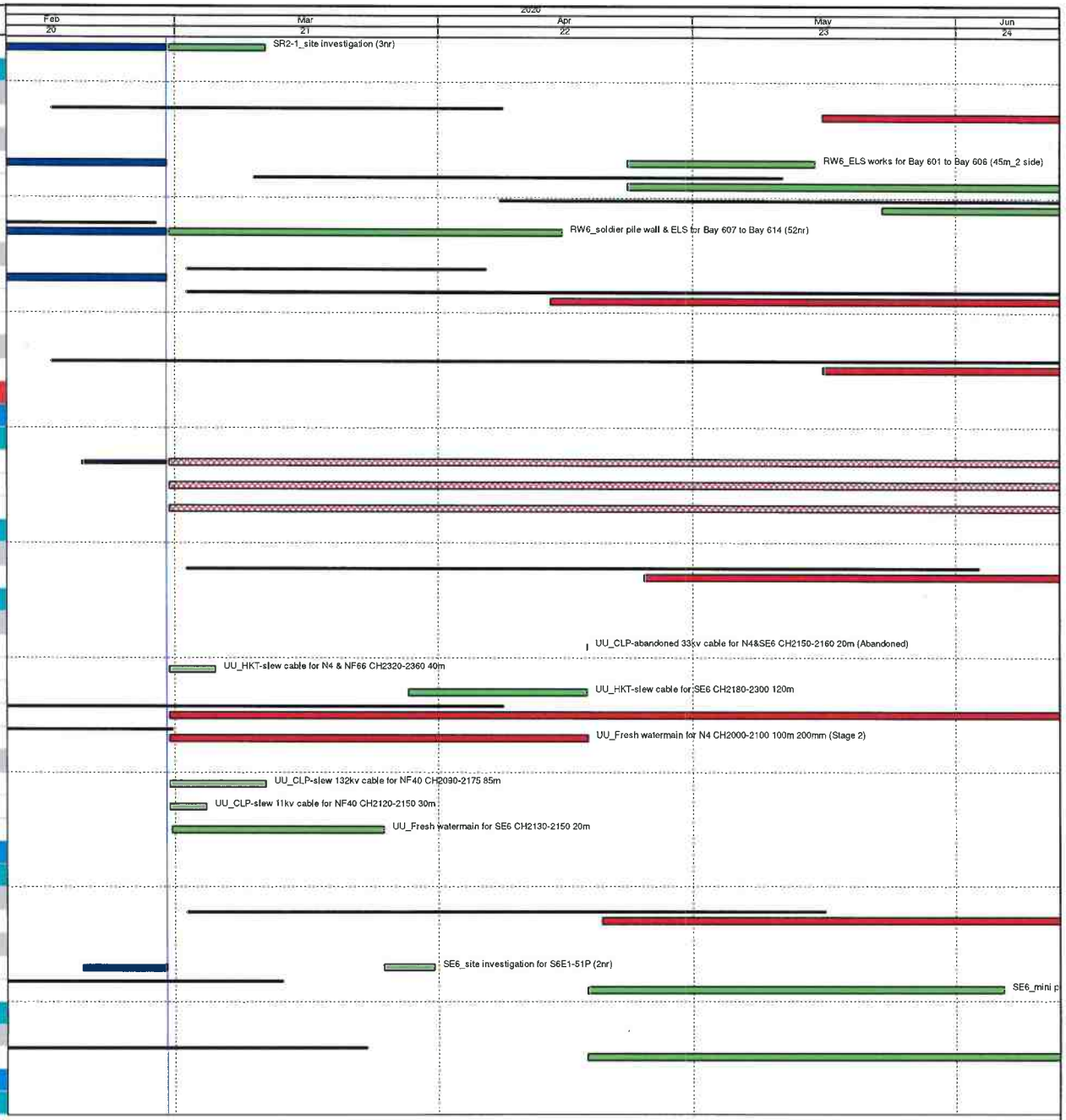


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
◇ Milestone
◆ Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (29/02/20)

Date	Revision	Checked	Approved
06-Mar-20	3MRP DWP 2002	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
Z3_5325	SR2-1_site investigation (3nr)	15	10	11-Jun-19 A	11-Mar-20	15-Oct-19	31-Oct-19
RETAINING WALL & SUBWAY							
RETAINING WALL NO.1							
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45	16-May-20	09-Jul-20	15-Feb-20	08-Apr-20
RETAINING WALL NO.6							
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 606 (45m_2 side)	25	18	12-Jul-19 A	15-May-20	02-Sep-19	02-Oct-19
Z3_1218_1010	RW6_base slab construction for Bay 601 to Bay 606	48	48	23-Apr-20	19-Jun-20	10-Mar-20	11-May-20
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	72	23-May-20	17-Aug-20	08-Apr-20	08-Jul-20
Z3_1218_1040	RW6_soldier pile wall & ELS for Bay 607 to Bay 614 (52nr)	58	36	20-Nov-19 A	15-Apr-20	16-Dec-19	27-Feb-20
RETAINING WALL NO.7							
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	23	26-Jul-19 A	18-Nov-20	02-Mar-20	06-Apr-20
Z3_1218_2040	RW7_soldier pile wall & ELS for Bay 701 to Bay 705 (62nr)	124	124	14-Apr-20	09-Sep-20	02-Mar-20	01-Aug-20
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	32	13-Aug-20	18-Sep-20	06-Jul-20	11-Aug-20
MODIFY EXISTING SUBWAY NS30							
Z3_5200	Demolish existing subway & construct NS30	160	160	16-May-20	24-Nov-20	15-Feb-20	28-Aug-20
WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z4SU1000	Zone 4 Stage 1 SE6 51 to 57	154	171	19-Feb-20 A	24-Sep-20	27-Dec-19	08-Jul-20
Z4SU1005	Zone 4 Stage 2 NB & SB foundation	435	435	29-Feb-20	18-Aug-21	13-Jan-20	28-Jun-21
Z4SU1100	Zone 4 NF66 Construction	230	230	29-Feb-20	05-Dec-20	06-Jan-20	14-Oct-20
PREPARATORY WORKS							
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z4_1335	Zone 4 & 5_construct temporary road platform along Northbound	75	75	25-Apr-20	25-Jul-20	02-Mar-20	03-Jun-20
UTILITIES DIVERSION							
NORTHBOUND							
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0	18-Apr-20	18-Apr-20	23-Jan-20	23-Jan-20
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	29-Feb-20	05-Mar-20	30-Nov-19	05-Dec-19
Z4_1310	UU_HKT-slew cable for SE6 CH2180-2300 120m	14	14	28-Mar-20	18-Apr-20	07-Jan-20	23-Jan-20
Z4_1490	UU_Fresh watermain for N4 CH2300-2550 250m 600mm (Additional)	105	105	29-Feb-20*	09-Jul-20	30-Nov-19	08-Apr-20
Z4_1500	UU_Fresh watermain for N4 CH2000-2100 100m 200mm (Stage 2)	39	39	29-Feb-20*	18-Apr-20	13-Jan-20	29-Feb-20
SOUTHBOUND							
Z4_1340	UU_CLP-slew 132kv cable for NF40 CH2090-2175 85m	10	10	29-Feb-20	11-Mar-20	30-Nov-19	11-Dec-19
Z4_1350	UU_CLP-slew 11kv cable for NF40 CH2120-2150 30m	4	4	29-Feb-20	04-Mar-20	30-Nov-19	04-Dec-19
Z4_1370	UU_Fresh watermain for SE6 CH2130-2150 20m	21	21	29-Feb-20	25-Mar-20	30-Nov-19	27-Dec-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							
Z4_1510	N4_site investigation for N4-12 to N4-27 (24nr)	60	60	20-Apr-20	02-Jul-20	02-Mar-20	16-May-20
SOUTHBOUND							
Z4_1110	SE6_site investigation for S6E1-51P (2nr)	10	5	19-Feb-20 A	31-Mar-20	27-Dec-19	09-Jan-20
Z4_1120	SE6_mini piles for S6E1-51P (10nr ver)	40	40	18-Apr-20	06-Jun-20	23-Jan-20	13-Mar-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	48	18-Apr-20	16-Jun-20	23-Jan-20	23-Mar-20
BRIDGE AND STRUCTURE WORKS							
MODIFICATION WORKS FOR NF40							



Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
◇ Milestone
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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (29/02/20)

Date	Revision	Checked	Approved
06-Mar-20	3MRP DWP 2002	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
NF40_1000	Construct new staircase	120	18	12-Oct-19 A	20-Mar-20	06-Jan-20	03-Jun-20
NF40_1010	Demolish existing staircase	45	45	21-Mar-20	19-May-20	14-Mar-20	12-May-20
NF40_1080	Construct pile cap & part of new column	60	60	20-May-20	30-Jul-20	13-May-20	23-Jul-20
MODIFICATION WORKS FOR NF66							
NF66_1000	ELS & footing construction	50	50	29-Feb-20*	04-May-20	06-Jan-20	06-Mar-20
NF66_1020	Construct the new column & columnhead	60	60	05-May-20	15-Jul-20	07-Mar-20	22-May-20
WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z5SU1000	Zone 5 Stage 1 SE3-2 SB foundation	291	274	15-Feb-20 A	29-Jan-21	30-Nov-19	23-Nov-20
Z5SU1005	Zone 5 Stage 2 NB & SB foundation	467	467	29-Feb-20	25-Sep-21	30-Nov-19	02-Jul-21
PREPARATORY WORKS							
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z5_1720	Zone 5-1_construct temporary road platform along Northbound	45	45	15-Apr-20	08-Jun-20	15-Jan-20	10-Mar-20
UTILITIES DIVERSION							
NORTHBOUND							
Z5_1610	UU_CLP-slew 132kv cable for N4 CH2500-2550 50m	6	6	12-May-20	18-May-20	14-Mar-20	20-Mar-20
Z5_1620	UU_CLP-abandoned 33kv cable for N4 CH2550-2630 100m	19	19	19-May-20	09-Jun-20	21-Mar-20	16-Apr-20
Z5_1650	UU_CLP-abandoned 33kv cable for N4& SE3 CH2640 30m	11	11	23-May-20	04-Jun-20	26-Feb-20	09-Mar-20
Z5_1850	UU_Fresh watermain for N4 CH2450-2560 63m 600mm	35	35	28-May-20	09-Jul-20	31-Mar-20	16-May-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
SOUTHBOUND							
Z5_1990	SE3-2_site investigation for S3E2-61P (2nr)	10	0	15-Feb-20 A	21-Feb-20 A	30-Nov-19	11-Dec-19
Z5_2000	SE3-2_mini piles for S3E2-61P (8nr ver)	32	32	06-Mar-20	16-Apr-20	28-Dec-19	07-Feb-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-60 (131m_2 side)	73	73	06-Mar-20	05-Jun-20	28-Dec-19	26-Mar-20
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (10nr)	210	210	23-Apr-20	04-Jan-21	14-Feb-20	28-Oct-20
PORTION E (ZONE 5)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
TPR NORTHBOUND							
PESU1000	Construction Zone 5 Portion E_Northbound structure	450	450	29-Feb-20	06-Sep-21	30-Nov-19	22-Jul-21
UTILITIES DIVERSION							
NORTHBOUND							
Z5E_1180	UU_Fresh watermain for R5 & R6 CH2750-2845 115m 150mm	52	52	29-Feb-20*	07-May-20	30-Nov-19	06-Feb-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND SLIP ROAD							
Z5E_1000	R6_site investigation for R6-02P (6nr)	30	30	07-May-20	11-Jun-20	06-Feb-20	12-Mar-20
ROADWORKS AND REMAINING WORKS							
GEOTECHNICAL WORKS							
NORTHBOUND SLIP ROAD							
Z5E_1150	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)	31	31	07-May-20*	12-Jun-20	14-Feb-20	21-Mar-20

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◇ Milestone
◆ Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (29/02/20)
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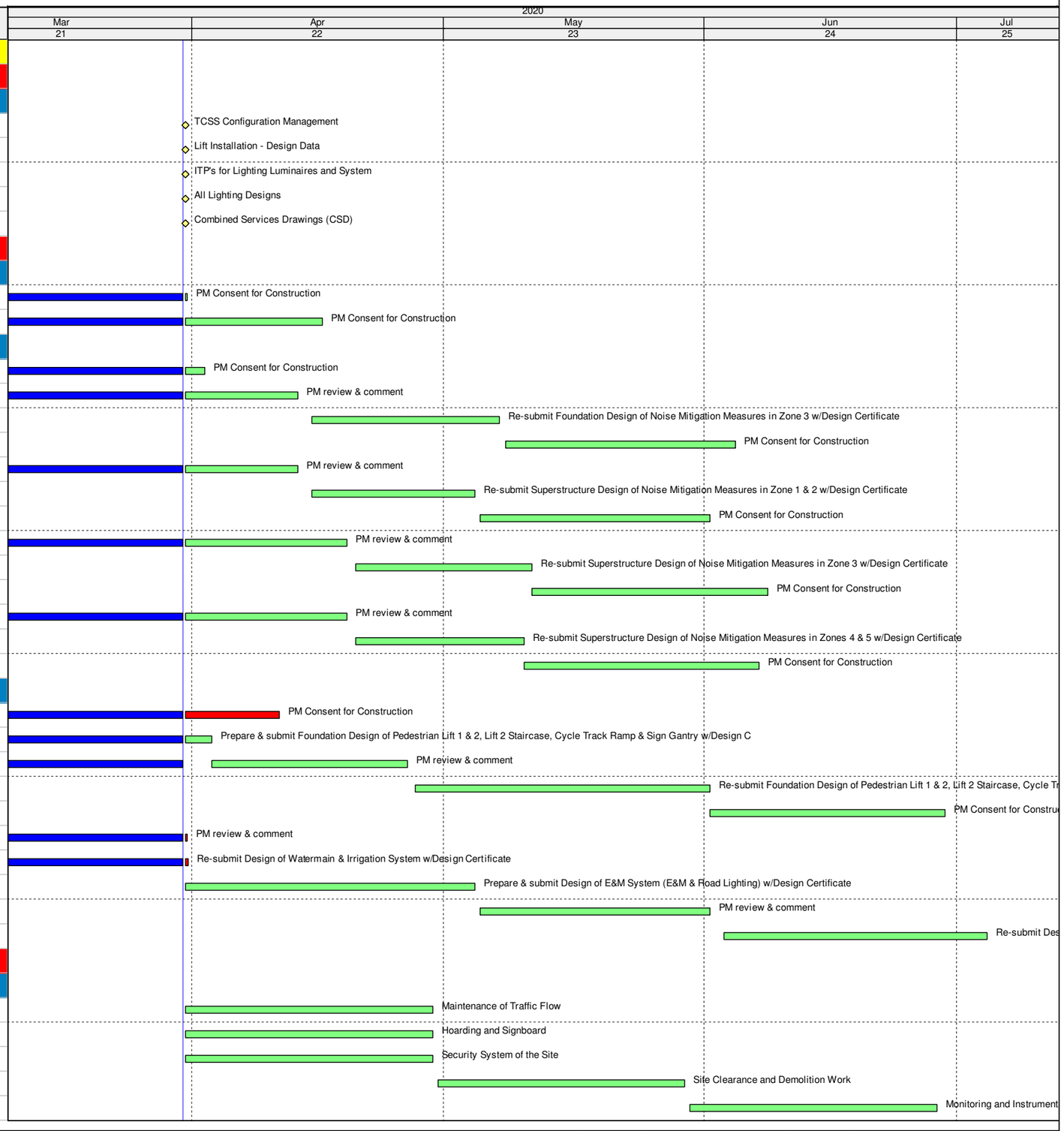
Date	Revision	Checked	Approved
06-Mar-20	3MRP DWP 2002	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha T							
PRELIMINARIES & GENERAL REQUIREMENT							
GENERAL SUBMISSION							
SUB1343	TCSS Configuration Management	0	0	31-Mar-20*		30-Nov-19	
SUB1347	Lift Installation - Design Data	0	0	31-Mar-20*		30-Nov-19	
SUB1403	ITP's for Lighting Luminaires and System	0	0	31-Mar-20*		30-Nov-19	
SUB1405	All Lighting Designs	0	0	31-Mar-20*		30-Nov-19	
SUB1410	Combined Services Drawings (CSD)	0	0	31-Mar-20*		30-Nov-19	
DESIGN SUBMISSION							
STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)							
DES1070	PM Consent for Construction	28	1	06-Nov-18 A	31-Mar-20	20-Feb-19	19-Mar-19
DES1150	PM Consent for Construction	28	17	03-May-19 A	16-Apr-20	31-Jul-19	27-Aug-19
NOISE MITIGATION MEASURES							
DES1230	PM Consent for Construction	28	3	02-Jan-19 A	02-Apr-20	31-Jan-19	27-Feb-19
DES1250	PM review & comment	28	14	12-Jul-19 A	13-Apr-20	01-Sep-19	29-Sep-19
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23	15-Apr-20	07-May-20	15-Dec-19	06-Jan-20
DES1270	PM Consent for Construction	28	28	08-May-20	04-Jun-20	07-Jan-20	03-Feb-20
DES1290	PM review & comment	28	14	07-Aug-19 A	13-Apr-20	31-Aug-19	27-Sep-19
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	15-Apr-20	04-May-20	20-Dec-19	09-Jan-20
DES1310	PM Consent for Construction	28	28	05-May-20	01-Jun-20	09-Jan-20	06-Feb-20
DES1330	PM review & comment	28	20	07-Aug-19 A	19-Apr-20	31-Aug-19	27-Sep-19
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	20-Apr-20	11-May-20	20-Dec-19	10-Jan-20
DES1350	PM Consent for Construction	28	28	11-May-20	08-Jun-20	10-Jan-20	07-Feb-20
DES1370	PM review & comment	28	20	07-Aug-19 A	19-Apr-20	31-Aug-19	27-Sep-19
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	20-Apr-20	10-May-20	20-Dec-19	09-Jan-20
DES1390	PM Consent for Construction	28	28	10-May-20	07-Jun-20	09-Jan-20	06-Feb-20
REMAINING WORKS							
DES1470	PM Consent for Construction	28	11	11-Mar-19 A	11-Apr-20	31-Jul-19	27-Aug-19
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design C	21	3	26-Nov-18 A	03-Apr-20	31-Dec-18	20-Jan-19
DES1490	PM review & comment	28	24	25-Jan-19 A	26-Apr-20	04-Aug-19	01-Sep-19
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design Certific	35	35	27-Apr-20	01-Jun-20	27-Dec-19	31-Jan-20
DES1510	PM Consent for Construction	28	28	01-Jun-20	29-Jun-20	31-Jan-20	28-Feb-20
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Mar-20	31-Jan-19	27-Feb-19
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Mar-20	02-Apr-19	03-May-19
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Mar-20	04-May-20	30-Nov-19	03-Jan-20
DES1570	PM review & comment	28	28	05-May-20	01-Jun-20	04-Jan-20	31-Jan-20
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Jun-20	04-Jul-20	02-Feb-20	04-Mar-20
SUBLETTING & PROCUREMENT SCHEDULE							
SUBLETTING							
SPS1000	Maintenance of Traffic Flow	30	30	31-Mar-20	29-Apr-20	01-Dec-19	30-Dec-19
SPS1030	Hoarding and Signboard	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1060	Security System of the Site	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1140	Site Clearance and Demolition Work	30	30	30-Apr-20	29-May-20	31-Dec-19	29-Jan-20
SPS1160	Monitoring and Instrumentation	30	30	30-May-20	28-Jun-20	30-Jan-20	28-Feb-20



Remaining Level of Effort
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Milestone
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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/03/20)

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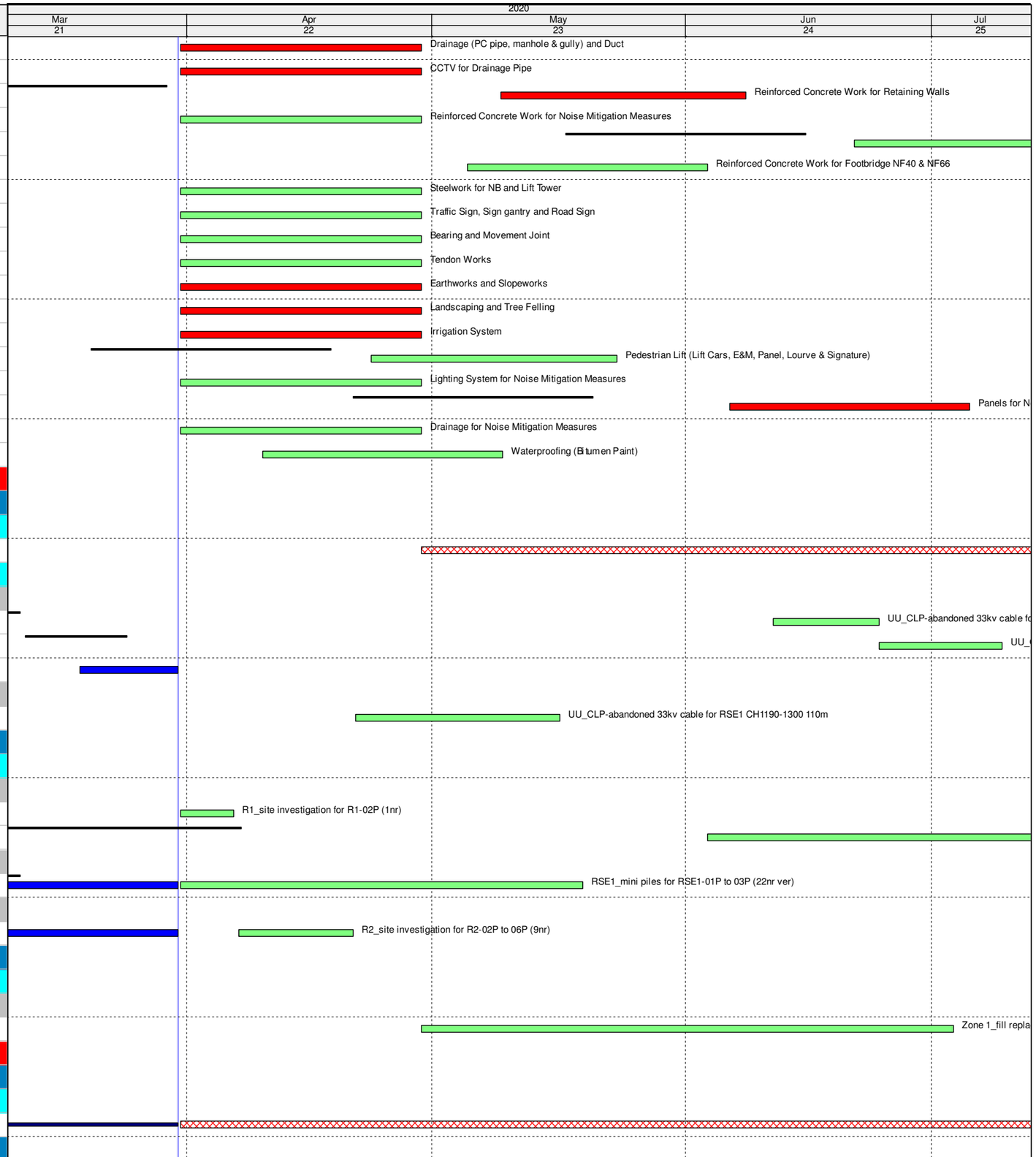
08-Apr-20	3MRP DWP 2003	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1220	CCTV for Drainage Pipe	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	09-May-20	08-Jun-20	29-Feb-20	29-Mar-20
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	31-Mar-20	29-Apr-20	01-Dec-19	30-Dec-19
SPS1270	Reinforced Concrete Work for Pedestrian Lift	30	30	21-Jun-20	21-Jul-20	17-May-20	15-Jun-20
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF66	30	30	05-May-20	03-Jun-20	06-Feb-20	06-Mar-20
SPS1290	Steelwork for NB and Lift Tower	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1300	Traffic Sign, Sign gantry and Road Sign	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1310	Bearing and Movement Joint	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1320	Tendon Works	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1340	Earthworks and Slopeworks	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1350	Landscaping and Tree Felling	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1360	Irrigation System	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30	23-Apr-20	23-May-20	20-Mar-20	18-Apr-20
SPS1420	Lighting System for Noise Mitigation Measures	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1430	Panels for Noise Mitigation Measures	30	30	06-Jun-20	05-Jul-20	21-Apr-20	20-May-20
SPS1440	Drainage for Noise Mitigation Measures	30	30	31-Mar-20	29-Apr-20	30-Nov-19	29-Dec-19
SPS1460	Waterproofing (Bitumen Paint)	30	30	10-Apr-20	09-May-20	27-Dec-19	25-Jan-20
WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	271	271	29-Apr-20	26-Mar-21	30-Dec-19	05-Dec-20
UTILITIES DIVERSION							
NORTHBOUND							
Z1_1330	UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 30m	11	11	11-Jun-20	24-Jun-20	28-Feb-20	11-Mar-20
Z1_1340	UU_CLP-abandoned 11kv cable for R1 & R2 CH1090-1110 40m	11	11	24-Jun-20	09-Jul-20	12-Mar-20	24-Mar-20
Z1_1400	UU_Fresh watermain for R1 CH1225-1275 50m 150PE	31	23	19-Mar-20 A	02-Aug-21	07-Jul-21	11-Aug-21
CENTRAL BARRIER							
Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110m	20	20	21-Apr-20	16-May-20	20-Dec-19	15-Jan-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							
Z1_1510	R1_site investigation for R1-02P (1nr)	5	5	31-Mar-20	06-Apr-20	31-Jan-20	05-Feb-20
Z1_1520	R1_mini piles for R1-02P (5nr raking, 3nr ver)	40	40	03-Jun-20	22-Jul-20	20-Feb-20	07-Apr-20
CENTRAL BARRIER							
Z1_1500	RSE1_mini piles for RSE1-01P to 03P (22nr ver)	55	36	07-Mar-20 A	19-May-20	04-Jan-20	11-Mar-20
SOUTHBOUND							
Z1_1050	R2_site investigation for R2-02P to 06P (9nr)	25	9	20-Feb-20 A	21-Apr-20	06-Feb-20	05-Mar-20
ROADWORKS AND REMAINING WORKS							
GEOTECHNICAL WORKS							
NORTHBOUND							
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	29-Apr-20*	03-Jul-20	30-Dec-19	03-Mar-20
WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	398	10-Jul-19 A	06-Aug-21	08-Aug-19	10-Aug-21
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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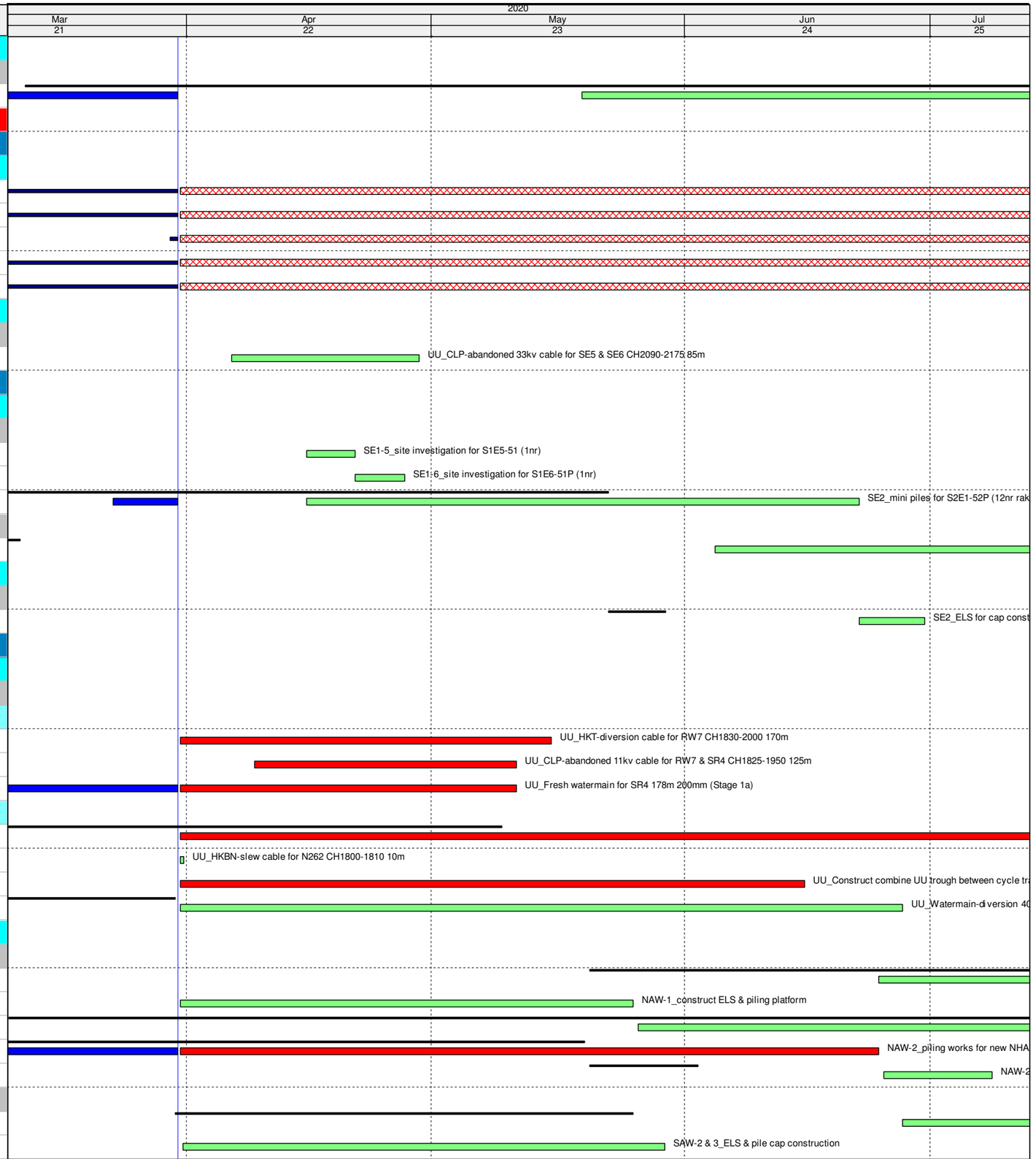
PILE FOUNDATION WORKS							
CENTRAL BARRIER							
Z2_1010	RSE2_mini piles for RSE2-01P, 03P to 15P (57nr raking, 59nr ver)	195	140	17-Jan-20 A	04-Nov-20	12-Mar-20	06-Nov-20
WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z3SU5000	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	325	12-Jul-19 A	08-May-21	02-Sep-19	10-Nov-20
Z3SU5030	Zone 3b (near SR6) Stage 1 Construct N263 & N264 foundation	393	366	20-May-19 A	29-Jun-21	31-Jul-19	23-Nov-20
Z3SU5040	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2	256	325	30-Mar-20 A	08-May-21	22-May-20	30-Mar-21
Z3SU5050	Zone 3b (near SR6) Stage 1 SE5, SE8, SR6 foundation and N262 bridge	323	319	21-Feb-20 A	30-Apr-21	30-Nov-19	11-Feb-21
Z3SU5100	Zone 3c (near SR3) Stage 1 construct NS30, RW1, SR2 foundation & RW3	311	267	11-Jun-19 A	24-Feb-21	16-Sep-19	30-Sep-20
UTILITIES DIVERSION							
SOUTHBOUND							
Z3_2900	UU_CLP-abandoned 33kv cable for SE5 & SE6 CH2090-2175 85m	17	17	06-Apr-20	29-Apr-20	05-Dec-19	27-Dec-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
SOUTHBOUND							
Z3_1522	SE1-5_site investigation for S1E5-51 (1nr)	5	5	15-Apr-20	21-Apr-20	24-Feb-20	29-Feb-20
Z3_1530	SE1-6_site investigation for S1E6-51P (1nr)	5	5	21-Apr-20	27-Apr-20	29-Feb-20	06-Mar-20
Z3_5640	SE2_mini piles for S2E1-52P (12nr raking, 11nr ver)	58	55	23-Mar-20 A	22-Jun-20	09-Mar-20	22-May-20
SOUTHBOUND SLIP ROAD							
Z3_1730	SE8-1_mini piles for SR6 1-B (8nr)	32	32	04-Jun-20	14-Jul-20	03-Feb-20	11-Mar-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z3_5650	SE2_ELS for cap construction S2E1-52P (10m_2 side)	6	6	22-Jun-20	30-Jun-20	22-May-20	29-May-20
BRIDGE AND STRUCTURE WORKS							
PRELIMINARIES WORKS							
UTILITIES DIVERSION							
NORTHBOUND							
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	31-Mar-20	15-May-20	18-Jan-20	29-Feb-20
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22	22	09-Apr-20	11-May-20	05-Feb-20	29-Feb-20
Z3_3130	UU_Fresh watermain for SR4 178m 200mm (Stage 1a)	30	29	22-Jul-19 A	11-May-20	31-Oct-19	04-Dec-19
SOUTHBOUND							
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127	31-Mar-20	03-Sep-20	30-Nov-19	09-May-20
Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	31-Mar-20	31-Mar-20	30-Nov-19	30-Nov-19
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	60	60	31-Mar-20*	15-Jun-20	30-Nov-19	14-Feb-20
Z3_5740	UU_Watermain-diversion 400mm pipe for SAW1 (Additional)	70	70	31-Mar-20*	27-Jun-20	06-Jan-20	30-Mar-20
MODIFICATION OF BRIDGE N263							
RECONSTRUCTION ABUTMENT WALL AT NHA							
Z3_4100	Demolish part of existing NHA wall for construction new wall	60	60	24-Jun-20*	04-Sep-20	20-May-20	30-Jul-20
Z3_4110	NAW-1_construct ELS & piling platform	42	42	31-Mar-20	25-May-20	17-Jan-20	09-Mar-20
Z3_4120	NAW-1_piling works for new NHA wall (23nr socket H-pile)	161	161	26-May-20	04-Dec-20	10-Mar-20	22-Sep-20
Z3_4160	NAW-2_piling works for new NHA wall (16nr socket H-pile)	112	68	09-Feb-20 A	24-Jun-20	30-Dec-19	19-May-20
Z3_4170	NAW-2_pile testing	14	14	25-Jun-20	08-Jul-20	20-May-20	02-Jun-20
MODIFICATION EXISTING PIER WALL OF N263							
Z3_3870	SAW-1_piling works for new south abutment wall (3nr 1.5m bored pile)	42	42	27-Jun-20	17-Aug-20	30-Mar-20	25-May-20
Z3_3930	SAW-2 & 3_ELS & pile cap construction	45	45	31-Mar-20	29-May-20	11-Jan-20	07-Mar-20



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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
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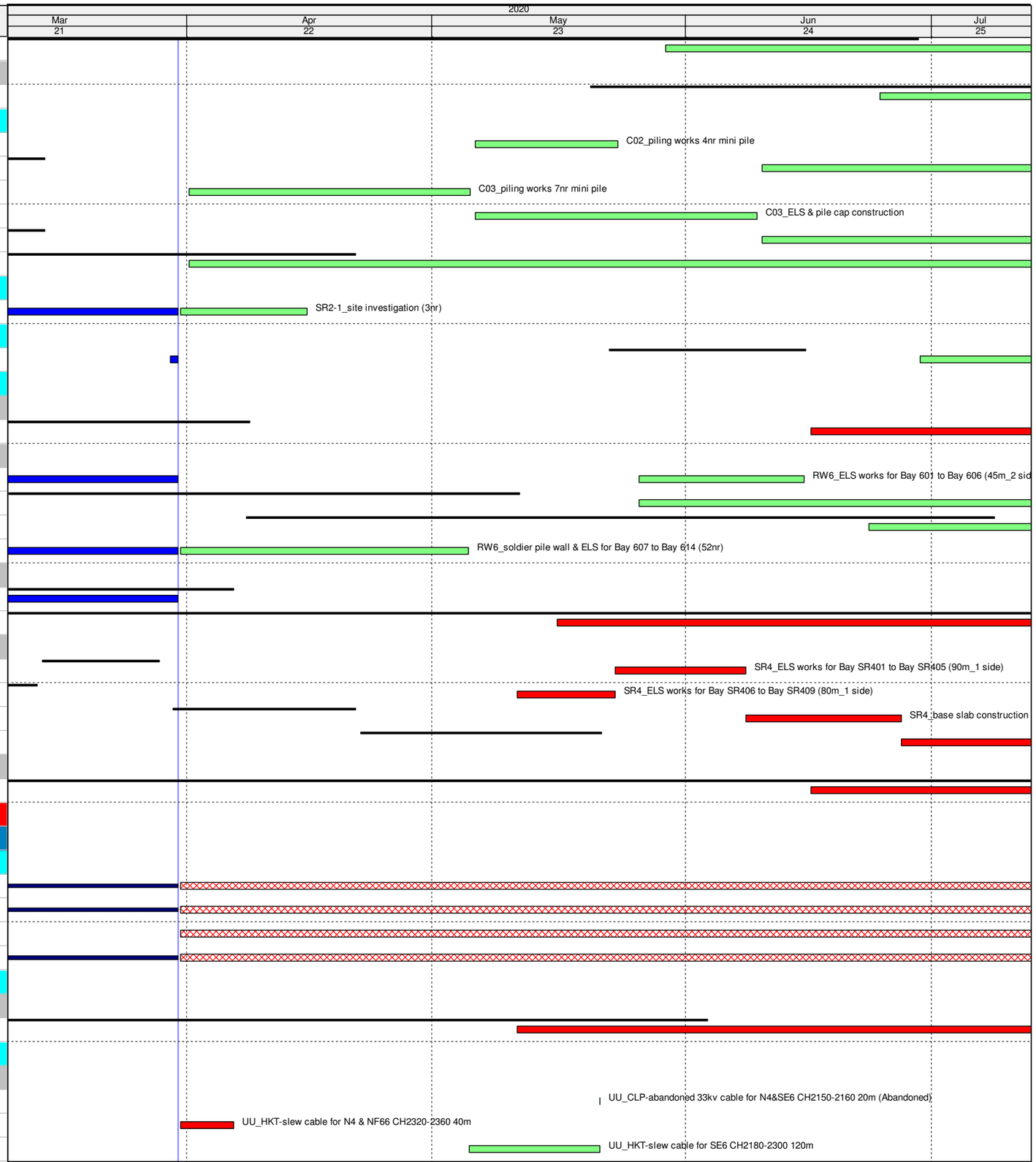
Z3_3940	Modify existing N263 pier wall (North side)	90	90	29-May-20	14-Sep-20	07-Mar-20	29-Jun-20
MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL							
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	24-Jun-20	21-Aug-20	20-May-20	16-Jul-20
MODIFICATION OF BRIDGE N262							
Z3_3510	C02_piling works 4nr mini pile	16	16	06-May-20	23-May-20	02-Jan-20	20-Jan-20
Z3_3520	C02_ELS & pile cap construction	30	30	10-Jun-20	16-Jul-20	10-Feb-20	14-Mar-20
Z3_3540	C03_piling works 7nr mini pile	24	24	01-Apr-20*	05-May-20	02-Dec-19	31-Dec-19
Z3_3550	C03_ELS & pile cap construction	30	30	06-May-20	09-Jun-20	02-Jan-20	08-Feb-20
Z3_3560	C03_column construction	30	30	10-Jun-20	16-Jul-20	10-Feb-20	14-Mar-20
Z3_3580	C04_ELS & footing construction 2nr	90	90	01-Apr-20	23-Jul-20	30-Dec-19	21-Apr-20
NEW SLIP ROAD 2							
Z3_5325	SR2-1_site investigation (3nr)	15	10	11-Jun-19 A	15-Apr-20	15-Oct-19	31-Oct-19
LIFT TOWER 2 & STAIRCASE							
Z3_3670	L2-PC1_piling works 5nr mini pile	20	18	30-Mar-20 A	21-Jul-20	22-May-20	15-Jun-20
RETAINING WALL & SUBWAY							
RETAINING WALL NO.1							
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45	16-Jun-20	08-Aug-20	15-Feb-20	08-Apr-20
RETAINING WALL NO.6							
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 606 (45m_2 side)	25	18	12-Jul-19 A	15-Jun-20	02-Sep-19	02-Oct-19
Z3_1218_1010	RW6_base slab construction for Bay 601 to Bay 606	48	48	26-May-20	22-Jul-20	10-Mar-20	11-May-20
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	72	23-Jun-20	16-Sep-20	08-Apr-20	08-Jul-20
Z3_1218_1040	RW6_soldier pile wall & ELS for Bay 607 to Bay 614 (52nr)	58	24	20-Nov-19 A	05-May-20	16-Dec-19	27-Feb-20
RETAINING WALL NO.7							
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	23	26-Jul-19 A	09-Nov-20	02-Mar-20	06-Apr-20
Z3_1218_2040	RW7_soldier pile wall & ELS for Bay 701 to Bay 705 (62nr)	124	124	16-May-20	12-Oct-20	02-Mar-20	01-Aug-20
MODIFY EXISTING RETAINING WALL SR4							
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405 (90m_1 side)	13	13	23-May-20	08-Jun-20	14-Mar-20	28-Mar-20
Z3_5110	SR4_ELS works for Bay SR406 to Bay SR409 (80m_1 side)	11	11	11-May-20	23-May-20	02-Mar-20	13-Mar-20
Z3_5120	SR4_base slab construction for Bay SR406 to Bay SR409	16	16	08-Jun-20	27-Jun-20	30-Mar-20	21-Apr-20
Z3_5130	SR4_retaining wall construction for Bay SR406 to SR409	24	24	27-Jun-20	27-Jul-20	22-Apr-20	21-May-20
MODIFY EXISTING SUBWAY NS30							
Z3_5200	Demolish existing subway & construct NS30	160	160	16-Jun-20	24-Dec-20	15-Feb-20	28-Aug-20
WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z4SU1000	Zone 4 Stage 1 SE6 51 to 57	154	171	19-Feb-20 A	28-Oct-20	27-Dec-19	08-Jul-20
Z4SU1005	Zone 4 Stage 2 NB & SB foundation	434	420	06-Mar-20 A	01-Sep-21	13-Jan-20	28-Jun-21
Z4SU1100	Zone 4 NF66 Construction	230	230	31-Mar-20	08-Jan-21	06-Jan-20	14-Oct-20
Z4SU1110	Zone 4 NF40 Construction	387	285	12-Oct-19 A	17-Mar-21	06-Jan-20	28-Apr-21
PREPARATORY WORKS							
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z4_1335	Zone 4 & 5_construct temporary road platform along Northbound	75	75	11-May-20	08-Aug-20	02-Mar-20	03-Jun-20
UTILITIES DIVERSION							
NORTHBOUND							
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0	21-May-20	21-May-20	23-Jan-20	23-Jan-20
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	31-Mar-20	06-Apr-20	30-Nov-19	05-Dec-19
Z4_1310	UU_HKT-slew cable for SE6 CH2180-2300 120m	14	14	05-May-20	21-May-20	07-Jan-20	23-Jan-20



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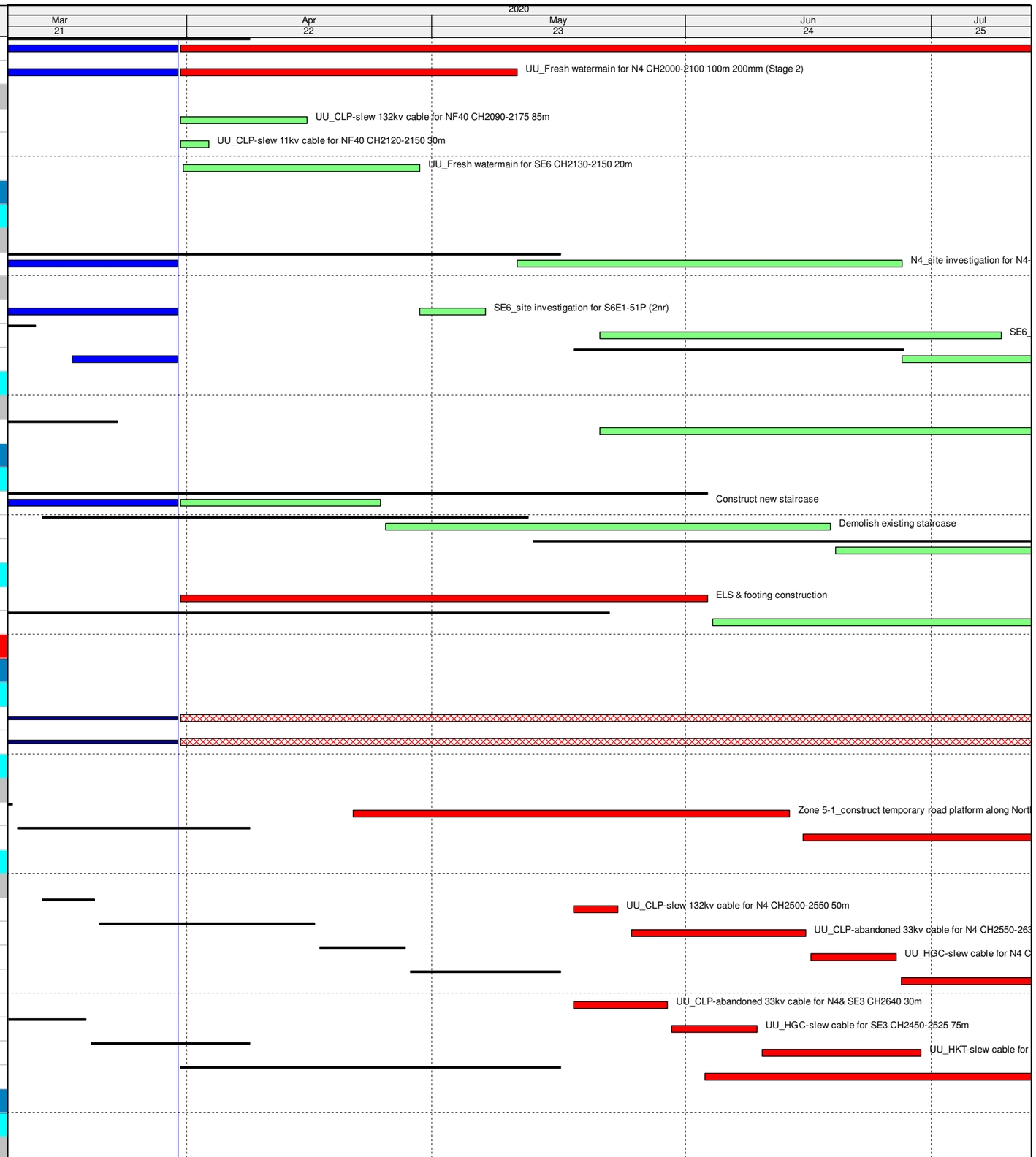
Critical Remaining Work
Milestone
Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/03/20)

Date	Revision	Checked	Approved
08-Apr-20	3MRP DWP 2003	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
Z4_1490	UU_Fresh watermain for N4 CH2300-2550 250m 600mm (Additional)	105	84	10-Feb-20 A	15-Jul-20	30-Nov-19	08-Apr-20
Z4_1500	UU_Fresh watermain for N4 CH2000-2100 100m 200mm (Stage 2)	39	29	06-Mar-20 A	11-May-20	13-Jan-20	29-Feb-20
SOUTHBOUND							
Z4_1340	UU_CLP-slew 132kv cable for NF40 CH2090-2175 85m	10	10	31-Mar-20	15-Apr-20	30-Nov-19	11-Dec-19
Z4_1350	UU_CLP-slew 11kv cable for NF40 CH2120-2150 30m	4	4	31-Mar-20	03-Apr-20	30-Nov-19	04-Dec-19
Z4_1370	UU_Fresh watermain for SE6 CH2130-2150 20m	21	21	31-Mar-20	29-Apr-20	30-Nov-19	27-Dec-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							
Z4_1510	N4_site investigation for N4-12 to N4-27 (24nr)	60	40	04-Mar-20 A	27-Jun-20	02-Mar-20	16-May-20
SOUTHBOUND							
Z4_1110	SE6_site investigation for S6E1-51P (2nr)	10	5	19-Feb-20 A	07-May-20	27-Dec-19	09-Jan-20
Z4_1120	SE6_mini piles for S6E1-51P (10nr ver)	40	40	21-May-20	09-Jul-20	23-Jan-20	13-Mar-20
Z4_1530	SE6_site investigation for S6E1-58 to S6E1-69 (15nr)	35	23	18-Mar-20 A	25-Jul-20	18-May-20	27-Jun-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	48	21-May-20	18-Jul-20	23-Jan-20	23-Mar-20
BRIDGE AND STRUCTURE WORKS							
MODIFICATION WORKS FOR NF40							
NF40_1000	Construct new staircase	120	18	12-Oct-19 A	24-Apr-20	06-Jan-20	03-Jun-20
NF40_1010	Demolish existing staircase	45	45	25-Apr-20	18-Jun-20	14-Mar-20	12-May-20
NF40_1080	Construct pile cap & part of new column	60	60	19-Jun-20	29-Aug-20	13-May-20	23-Jul-20
MODIFICATION WORKS FOR NF66							
NF66_1000	ELS & footing construction	50	50	31-Mar-20*	03-Jun-20	06-Jan-20	06-Mar-20
NF66_1020	Construct the new column & columnhead	60	60	04-Jun-20	14-Aug-20	07-Mar-20	22-May-20
WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z5SU1000	Zone 5 Stage 1 SE3-2 SB foundation	291	269	15-Feb-20 A	26-Feb-21	30-Nov-19	23-Nov-20
Z5SU1005	Zone 5 Stage 2 NB & SB foundation	467	446	10-Feb-20 A	02-Oct-21	30-Nov-19	02-Jul-21
PREPARATORY WORKS							
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z5_1720	Zone 5-1_construct temporary road platform along Northbound	45	45	21-Apr-20	13-Jun-20	15-Jan-20	10-Mar-20
Z5_1730	Zone 5-1_remove existing central barrier	21	21	15-Jun-20	15-Jul-20	11-Mar-20	08-Apr-20
UTILITIES DIVERSION							
NORTHBOUND							
Z5_1610	UU_CLP-slew 132kv cable for N4 CH2500-2550 50m	6	6	18-May-20	23-May-20	14-Mar-20	20-Mar-20
Z5_1620	UU_CLP-abandoned 33kv cable for N4 CH2550-2630 100m	19	19	25-May-20	15-Jun-20	21-Mar-20	16-Apr-20
Z5_1630	UU_HGC-slew cable for N4 CH2575-2650 75m	9	9	16-Jun-20	26-Jun-20	17-Apr-20	27-Apr-20
Z5_1640	UU_NWT-slew cable for N4 CH2580-2650 70m	15	15	27-Jun-20	15-Jul-20	28-Apr-20	16-May-20
Z5_1650	UU_CLP-abandoned 33kv cable for N4& SE3 CH2640 30m	11	11	18-May-20	29-May-20	26-Feb-20	09-Mar-20
Z5_1670	UU_HGC-slew cable for SE3 CH2450-2525 75m	9	9	30-May-20	09-Jun-20	10-Mar-20	19-Mar-20
Z5_1680	UU_HKT-slew cable for SE3 CH2675-2810 135m	16	16	10-Jun-20	29-Jun-20	20-Mar-20	08-Apr-20
Z5_1850	UU_Fresh watermain for N4 CH2450-2560 63m 600mm	35	35	03-Jun-20	15-Jul-20	31-Mar-20	16-May-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							



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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/03/20)
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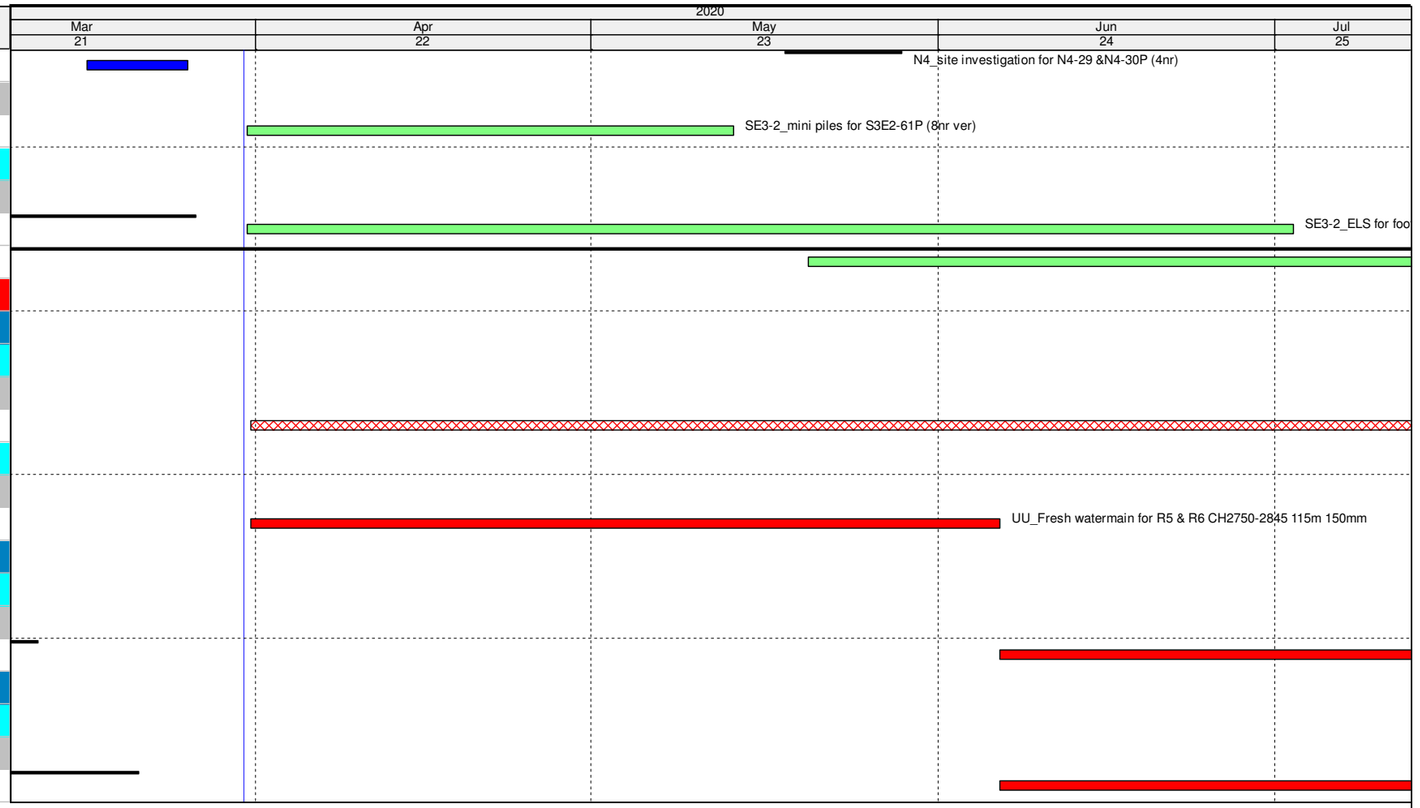
Date	Revision	Checked	Approved
08-Apr-20	3MRP DWP 2003	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
Z5_1000	N4_site investigation for N4-29 &N4-30P (4nr)	10	0	17-Mar-20 A	26-Mar-20 A	18-May-20	28-May-20
SOUTHBOUND							
Z5_2000	SE3-2_mini piles for S3E2-61P (8nr ver)	32	32	31-Mar-20	13-May-20	28-Dec-19	07-Feb-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-60 (131m_2 side)	73	73	31-Mar-20	02-Jul-20	28-Dec-19	26-Mar-20
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (10nr)	210	210	20-May-20	28-Jan-21	14-Feb-20	28-Oct-20
PORTION E (ZONE 5)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
TPR NORTHBOUND							
PESU1000	Construction Zone 5 Portion E_Northbound structure	449	449	31-Mar-20	07-Oct-21	30-Nov-19	22-Jul-21
UTILITIES DIVERSION							
NORTHBOUND							
Z5E_1180	UU_Fresh watermain for R5 & R6 CH2750-2845 115m 150mm	52	52	31-Mar-20*	06-Jun-20	30-Nov-19	06-Feb-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND SLIP ROAD							
Z5E_1000	R6_site investigation for R6-02P (6nr)	30	30	06-Jun-20	14-Jul-20	06-Feb-20	12-Mar-20
ROADWORKS AND REMAINING WORKS							
GEOTECHNICAL WORKS							
NORTHBOUND SLIP ROAD							
Z5E_1150	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)	31	31	06-Jun-20*	15-Jul-20	14-Feb-20	21-Mar-20



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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/03/20)
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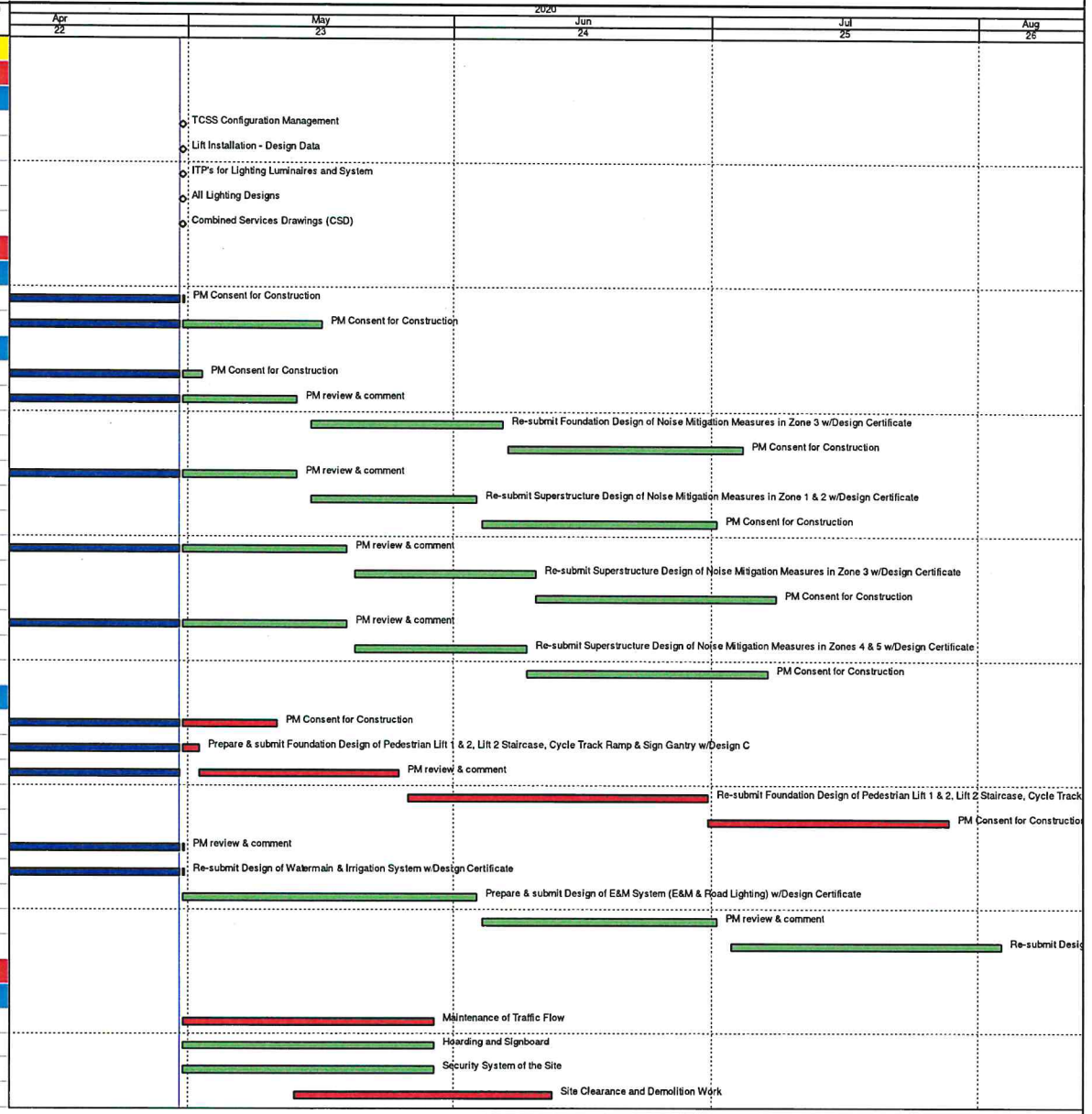
中國中鐵-中鐵一局-振華工程聯營
CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

13-May-20

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road 03_20							
PRELIMINARIES & GENERAL REQUIREMENT							
GENERAL SUBMISSION							
SUB1343	TCSS Configuration Management	0	0	30-Apr-20*		30-Nov-19	
SUB1347	Lift Installation - Design Data	0	0	30-Apr-20*		30-Nov-19	
SUB1403	ITP's for Lighting Luminaires and System	0	0	30-Apr-20*		30-Nov-19	
SUB1405	All Lighting Designs	0	0	30-Apr-20*		30-Nov-19	
SUB1410	Combined Services Drawings (CSD)	0	0	30-Apr-20*		30-Nov-19	
DESIGN SUBMISSION							
STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)							
DES1070	PM Consent for Construction	28	1	06-Nov-18 A	30-Apr-20	20-Feb-19	19-Mar-19
DES1150	PM Consent for Construction	28	17	03-May-19 A	16-May-20	31-Jul-19	27-Aug-19
NOISE MITIGATION MEASURES							
DES1230	PM Consent for Construction	28	3	02-Jan-19 A	02-May-20	31-Jan-19	27-Feb-19
DES1250	PM review & comment	28	14	12-Jul-19 A	13-May-20	01-Sep-19	29-Sep-19
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23	15-May-20	06-Jun-20	15-Dec-19	06-Jan-20
DES1270	PM Consent for Construction	28	28	07-Jun-20	04-Jul-20	07-Jan-20	03-Feb-20
DES1290	PM review & comment	28	14	07-Aug-19 A	13-May-20	31-Aug-19	27-Sep-19
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	15-May-20	03-Jun-20	20-Dec-19	09-Jan-20
DES1310	PM Consent for Construction	28	28	04-Jun-20	01-Jul-20	09-Jan-20	06-Feb-20
DES1330	PM review & comment	28	20	07-Aug-19 A	19-May-20	31-Aug-19	27-Sep-19
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	20-May-20	10-Jun-20	20-Dec-19	10-Jan-20
DES1350	PM Consent for Construction	28	28	10-Jun-20	08-Jul-20	10-Jan-20	07-Feb-20
DES1370	PM review & comment	28	20	07-Aug-19 A	19-May-20	31-Aug-19	27-Sep-19
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	20-May-20	09-Jun-20	20-Dec-19	09-Jan-20
DES1390	PM Consent for Construction	28	28	09-Jun-20	07-Jul-20	09-Jan-20	06-Feb-20
REMAINING WORKS							
DES1470	PM Consent for Construction	28	11	11-Mar-19 A	11-May-20	31-Jul-19	27-Aug-19
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design C	21	2	26-Nov-18 A	02-May-20	31-Dec-18	20-Jan-19
DES1490	PM review & comment	28	24	25-Jan-19 A	25-May-20	04-Aug-19	01-Sep-19
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design Certific	35	35	26-May-20	30-Jun-20	27-Dec-19	31-Jan-20
DES1510	PM Consent for Construction	28	28	30-Jun-20	28-Jul-20	31-Jan-20	28-Feb-20
DES1530	PM review & comment	28	1	02-Jan-19 A	30-Apr-20	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-20	02-Apr-19	03-May-19
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	30-Apr-20	03-Jun-20	30-Nov-19	03-Jan-20
DES1570	PM review & comment	28	28	04-Jun-20	01-Jul-20	04-Jan-20	31-Jan-20
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Jul-20	03-Aug-20	02-Feb-20	04-Mar-20
SUBLETTING & PROCUREMENT SCHEDULE							
SUBLETTING							
SPS1000	Maintenance of Traffic Flow	30	30	30-Apr-20	29-May-20	01-Dec-19	30-Dec-19
SPS1030	Hoarding and Signboard	30	30	30-Apr-20	29-May-20	30-Nov-19	29-Dec-19
SPS1060	Security System of the Site	30	30	30-Apr-20	29-May-20	30-Nov-19	29-Dec-19
SPS1140	Site Clearance and Demolition Work	30	30	13-May-20	12-Jun-20	31-Dec-19	29-Jan-20



Remaining Level of Effort | Actual Work | Milestone
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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
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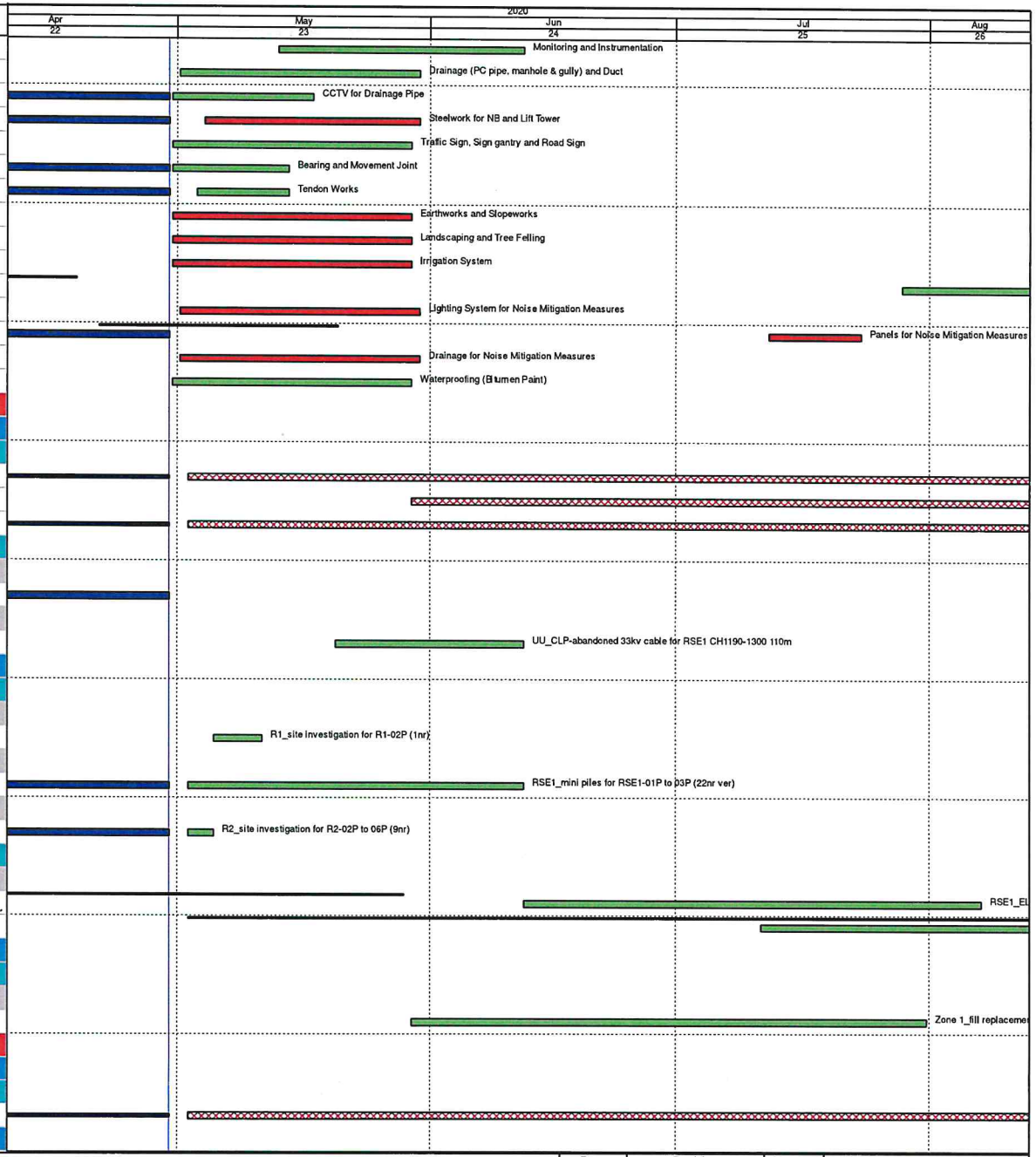
Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
SPS1160	Monitoring and Instrumentation	30	30	13-May-20	12-Jun-20	30-Jan-20	28-Feb-20
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	01-May-20	30-May-20	30-Nov-19	29-Dec-19
SPS1220	CCTV for Drainage Pipe	30	18	31-Mar-20 A	17-May-20	30-Nov-19	29-Dec-19
SPS1290	Steelwork for NB and Lift Tower	30	27	31-Mar-20 A	30-May-20	30-Nov-19	29-Dec-19
SPS1300	Traffic Sign, Sign gantry and Road Sign	30	30	30-Apr-20	29-May-20	30-Nov-19	29-Dec-19
SPS1310	Bearing and Movement Joint	30	15	31-Dec-19 A	14-May-20	30-Nov-19	29-Dec-19
SPS1320	Tendon Works	30	12	25-Mar-20 A	14-May-20	30-Nov-19	29-Dec-19
SPS1340	Earthworks and Slopeworks	30	30	30-Apr-20	29-May-20	30-Nov-19	29-Dec-19
SPS1350	Landscaping and Tree Felling	30	30	30-Apr-20	29-May-20	30-Nov-19	29-Dec-19
SPS1360	Irrigation System	30	30	30-Apr-20	29-May-20	30-Nov-19	29-Dec-19
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Louvre & Signature)	30	30	28-Jul-20	27-Aug-20	20-Mar-20	18-Apr-20
SPS1420	Lighting System for Noise Mitigation Measures	30	30	01-May-20	30-May-20	30-Nov-19	29-Dec-19
SPS1430	Panels for Noise Mitigation Measures	30	12	31-Mar-20 A	23-Jul-20	21-Apr-20	20-May-20
SPS1440	Drainage for Noise Mitigation Measures	30	30	01-May-20	30-May-20	30-Nov-19	29-Dec-19
SPS1460	Waterproofing (Bitumen Paint)	30	30	30-Apr-20	29-May-20	27-Dec-19	25-Jan-20
WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z1SU1030	Zone 1 Stage 1 RSE1 CM foundation	328	206	28-Dec-19 A	06-Jan-21	30-Nov-19	06-Jan-21
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	290	290	29-May-20	22-May-21	30-Dec-19	05-Dec-20
Z1SU1034	Zone 1 Stage 1 R1 structure R2	435	475	20-Feb-20 A	02-Dec-21	06-Feb-20	28-Jun-21
UTILITIES DIVERSION							
NORTHBOUND							
Z1_1400	UU_Fresh watermain for R1 CH1225-1275 50m 150PE	31	23	19-Mar-20 A	19-Aug-21	07-Jul-21	11-Aug-21
CENTRAL BARRIER							
Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110m	20	20	20-May-20	12-Jun-20	20-Dec-19	15-Jan-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							
Z1_1510	R1_site investigation for R1-02P (1nr)	5	5	05-May-20	11-May-20	31-Jan-20	05-Feb-20
CENTRAL BARRIER							
Z1_1500	RSE1_mini piles for RSE1-01P to 03P (22nr ver)	55	35	07-Mar-20 A	12-Jun-20	04-Jan-20	11-Mar-20
SOUTHBOUND							
Z1_1050	R2_site investigation for R2-02P to 06P (9nr)	25	2	20-Feb-20 A	05-May-20	06-Feb-20	05-Mar-20
PILE CAP AND FOOTING							
CENTRAL BARRIER							
Z1_1130	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)	46	46	12-Jun-20	07-Aug-20	30-Mar-20	28-May-20
Z1_1147	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)	105	105	11-Jul-20	14-Nov-20	02-May-20	03-Sep-20
ROADWORKS AND REMAINING WORKS							
GEOTECHNICAL WORKS							
NORTHBOUND							
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	29-May-20*	31-Jul-20	30-Dec-19	03-Mar-20
WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	392	10-Jul-19 A	24-Aug-21	08-Aug-19	10-Aug-21
NOISE BARRIER AND SEMI-ENCLOSURE							



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3 Months Rolling Programme (30/04/20)
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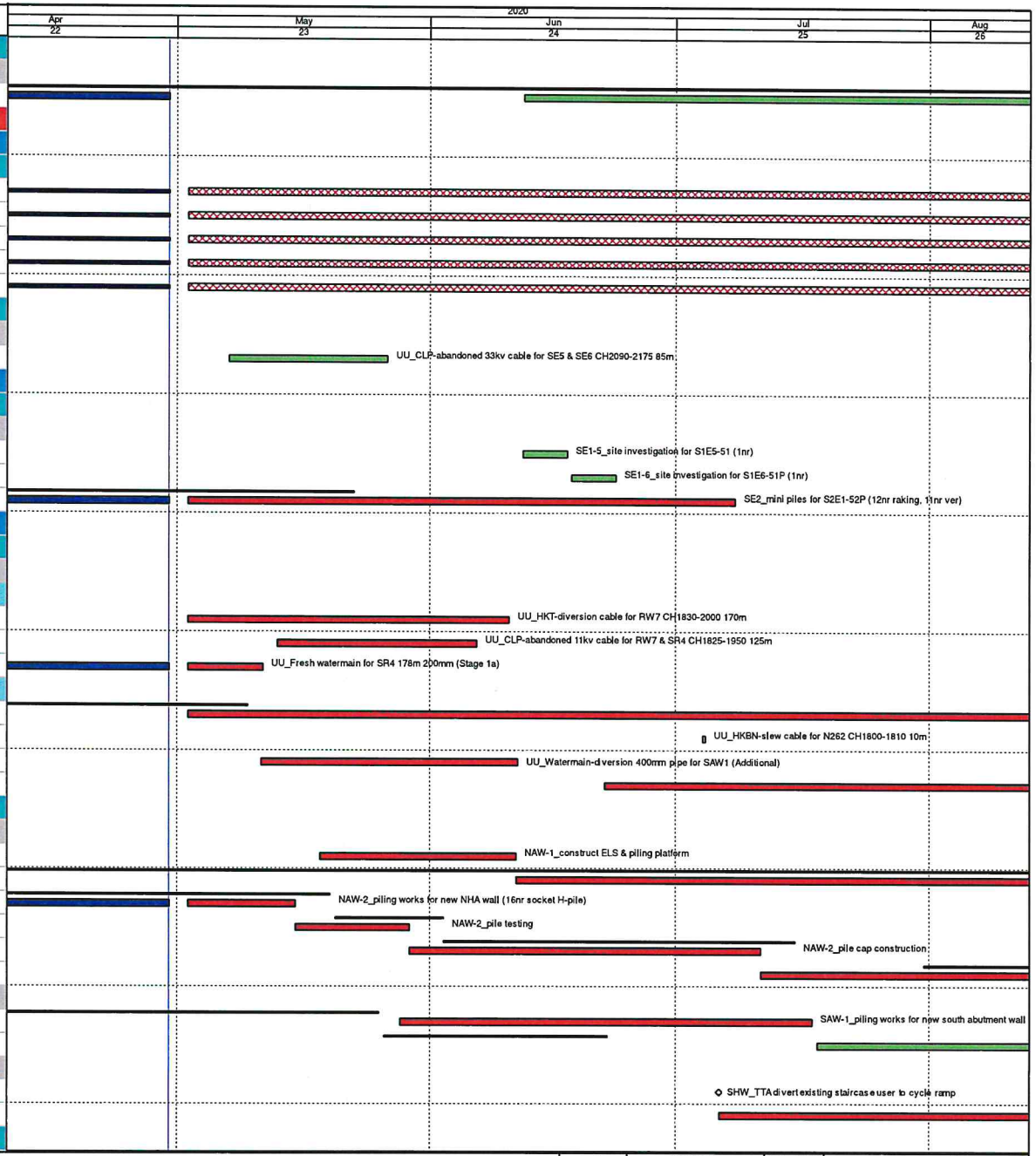
11-May-20	3MRP DWP 2004	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
PILE FOUNDATION WORKS							
CENTRAL BARRIER							
Z2_1010	RSE2_mini piles for RSE2-01P, 03P to 15P (57nr raking, 59nr ver)	195	137	17-Jan-20 A	24-Nov-20	12-Mar-20	06-Nov-20
WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z3SU5000	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	363	20-Nov-19 A	21-Jul-21	02-Sep-19	10-Nov-20
Z3SU5030	Zone 3b (near SR6) Stage 1 Construct N263 & N264 foundation	393	327	20-May-19 A	07-Jun-21	31-Jul-19	23-Nov-20
Z3SU5040	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2	256	379	30-Mar-20 A	09-Aug-21	22-May-20	30-Mar-21
Z3SU5050	Zone 3b (near SR6) Stage 1 SE5, SE8, SR6 foundation and N262 bridge	323	460	21-Feb-20 A	15-Nov-21	30-Nov-19	11-Feb-21
Z3SU5100	Zone 3c (near SR3) Stage 1 construct NS30, RW1, SR2 foundation & RW3	311	645	11-Jun-19 A	04-Jul-22	16-Sep-19	30-Sep-20
UTILITIES DIVERSION							
SOUTHBOUND							
Z3_2900	UU_CLP-abandoned 33kv cable for SE5 & SE6 CH2090-2175 85m	17	17	07-May-20	26-May-20	05-Dec-19	27-Dec-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
SOUTHBOUND							
Z3_1522	SE1-5_site investigation for S1E5-51 (1nr)	5	5	12-Jun-20	17-Jun-20	24-Feb-20	29-Feb-20
Z3_1530	SE1-6_site investigation for S1E6-51P (1nr)	5	5	18-Jun-20	23-Jun-20	29-Feb-20	06-Mar-20
Z3_5640	SE2_mini piles for S2E1-52P (12nr raking, 11nr ver)	58	55	23-Mar-20 A	08-Jul-20	09-Mar-20	22-May-20
BRIDGE AND STRUCTURE WORKS							
PRELIMINARIES WORKS							
UTILITIES DIVERSION							
NORTHBOUND							
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	02-May-20	10-Jun-20	18-Jan-20	29-Feb-20
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22	22	13-May-20	06-Jun-20	05-Feb-20	29-Feb-20
Z3_3130	UU_Fresh watermain for SR4 178m 200mm (Stage 1a)	30	8	22-Jul-19 A	11-May-20	31-Oct-19	04-Dec-19
SOUTHBOUND							
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127	02-May-20	29-Sep-20	30-Nov-19	09-May-20
Z3_3100	UU_HKBN-slew cable for N262 CH1600-1810 10m	1	1	04-Jul-20	04-Jul-20	30-Nov-19	30-Nov-19
Z3_5322	UU_Watermain-diversion 400mm pipe for SAW1 (Additional)	28	28	11-May-20*	11-Jun-20		
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	75	75	22-Jun-20*	18-Sep-20	30-Nov-19	14-Feb-20
MODIFICATION OF BRIDGE N263							
RECONSTRUCTION ABUTMENT WALL AT NHA							
Z3_4110	NAW-1_construct ELS & piling platform	21	21	18-May-20	11-Jun-20	17-Jan-20	09-Mar-20
Z3_4120	NAW-1_piling works for new NHA wall (23nr socket H-pile)	92	92	11-Jun-20	29-Sep-20	10-Mar-20	22-Sep-20
Z3_4160	NAW-2_piling works for new NHA wall (16nr socket H-pile)	80	11	09-Feb-20 A	15-May-20	30-Dec-19	19-May-20
Z3_4170	NAW-2_pile testing	14	14	15-May-20	29-May-20	20-May-20	02-Jun-20
Z3_4180	NAW-2_pile cap construction	35	35	29-May-20	11-Jul-20	02-Jun-20	15-Jul-20
Z3_4190	NAW_construct new abutment wall (North side)	60	60	11-Jul-20	19-Sep-20	31-Jul-20	10-Oct-20
MODIFICATION EXISTING PIER WALL OF N263							
Z3_3870	SAW-1_piling works for new south abutment wall (3nr 1.5m bored pile)	42	42	28-May-20	17-Jul-20	30-Mar-20	25-May-20
Z3_3890	SAW-1_pile testing	28	28	18-Jul-20	14-Aug-20	26-May-20	22-Jun-20
MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL							
Z3_4039	SHW_TTA divert existing staircase user to cycle ramp	0	0	06-Jul-20*			
Z3_4040	SHW_demolish of existing staircase & curved side wall	55	55	06-Jul-20	07-Sep-20	30-Mar-21	15-May-21
MODIFICATION OF BRIDGE N262							

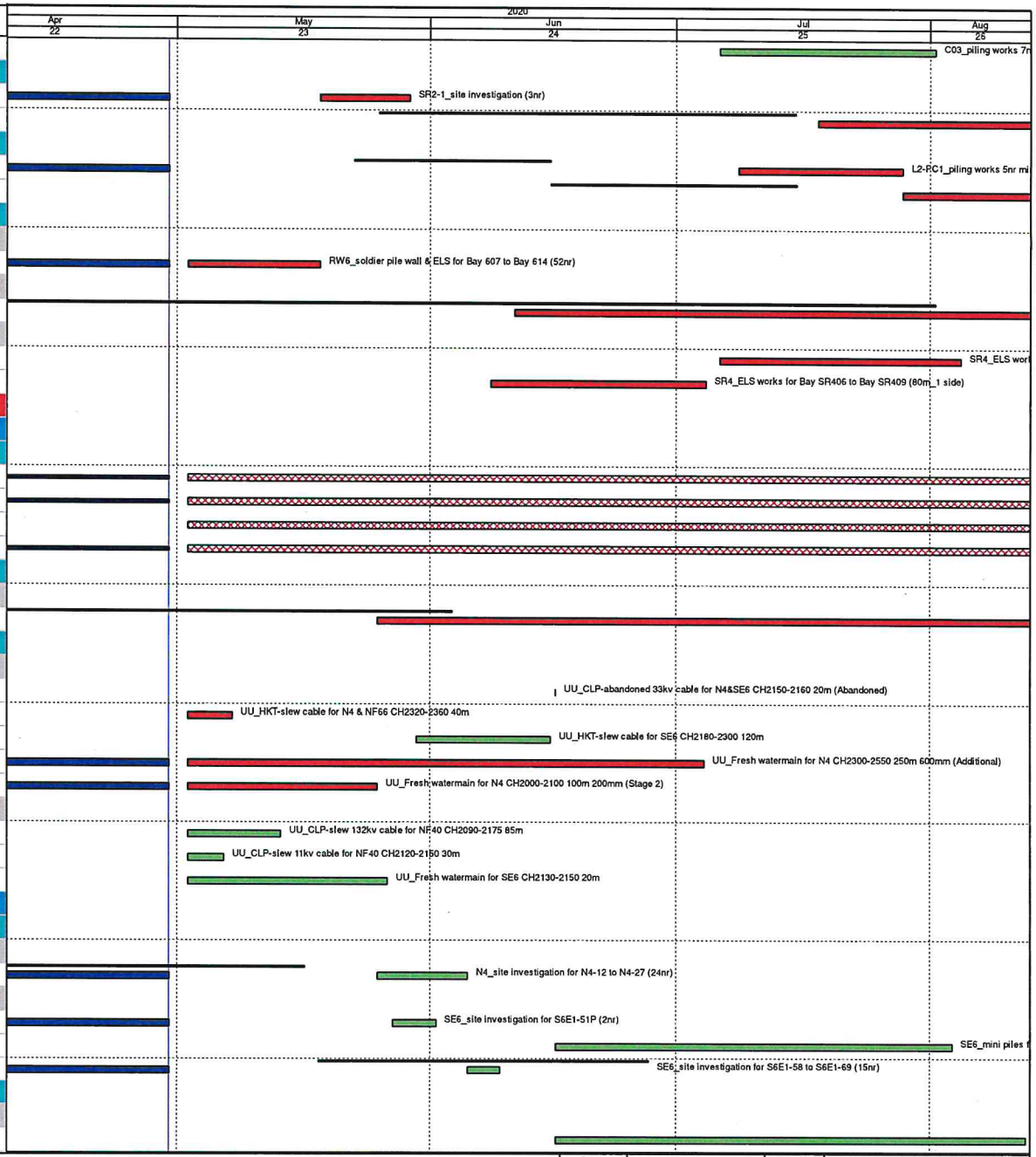


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/20)
Page 3 of 6

Date	Revision	Checked	Approved
11-May-20	3MRP DWP 2004	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
Z3_3540	C03_piling works 7nr mini pile	24	24	06-Jul-20*	01-Aug-20	02-Dec-19	31-Dec-19
NEW SLIP ROAD 2							
Z3_5325	SR2-1_site investigation (3nr)	15	10	11-Jun-19 A	29-May-20	15-Oct-19	31-Oct-19
Z3_5330	SR2-1_piling works 3nr 1.5m bored pile	42	42	18-Jul-20	04-Sep-20	25-May-20	15-Jul-20
LIFT TOWER 2 & STAIRCASE							
Z3_3670	L2-PC1_piling works 5nr mini pile	20	17	30-Mar-20 A	28-Jul-20	22-May-20	15-Jun-20
Z3_3785	L2S-PC3_piling works 6nr mini pile	24	24	28-Jul-20	25-Aug-20	15-Jun-20	15-Jul-20
RETAINING WALL & SUBWAY							
RETAINING WALL NO.6							
Z3_1218_1040	RW6_soldier pile wall & ELS for Bay 607 to Bay 614 (52nr)	58	13	20-Nov-19 A	18-May-20	16-Dec-19	27-Feb-20
RETAINING WALL NO.7							
Z3_1218_2040	RW7_soldier pile wall & ELS for Bay 701 to Bay 705 (62nr)	124	124	11-Jun-20	07-Nov-20	02-Mar-20	01-Aug-20
MODIFY EXISTING RETAINING WALL SR4							
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405 (90m_1 side)	26	26	06-Jul-20	04-Aug-20	14-Mar-20	28-Mar-20
Z3_5110	SR4_ELS works for Bay SR406 to Bay SR409 (80m_1 side)	22	22	08-Jun-20*	04-Jul-20	02-Mar-20	13-Mar-20
WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z4SU1000	Zone 4 Stage 1 SE6 51 to 57	154	170	19-Feb-20 A	21-Nov-20	27-Dec-19	08-Jul-20
Z4SU1005	Zone 4 Stage 2 NB & SB foundation	434	411	06-Mar-20 A	15-Sep-21	13-Jan-20	28-Jun-21
Z4SU1100	Zone 4 NF66 Construction	230	230	02-May-20	03-Feb-21	06-Jan-20	14-Oct-20
Z4SU1110	Zone 4 NF40 Construction	387	285	12-Oct-19 A	16-Apr-21	06-Jan-20	28-Apr-21
PREPARATORY WORKS							
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z4_1335	Zone 4 & 5_construct temporary road platform along Northbound	75	75	25-May-20	22-Aug-20	02-Mar-20	03-Jun-20
UTILITIES DIVERSION							
NORTHBOUND							
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0	16-Jun-20	16-Jun-20	23-Jan-20	23-Jan-20
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	02-May-20	07-May-20	30-Nov-19	05-Dec-19
Z4_1310	UU_HKT-slew cable for SE6 CH2180-2300 120m	14	14	30-May-20	15-Jun-20	07-Jan-20	23-Jan-20
Z4_1490	UU_Fresh watermain for N4 CH2300-2550 250m 600mm (Additional)	105	53	10-Feb-20 A	04-Jul-20	30-Nov-19	08-Apr-20
Z4_1500	UU_Fresh watermain for N4 CH2000-2100 100m 200mm (Stage 2)	39	20	06-Mar-20 A	25-May-20	13-Jan-20	29-Feb-20
SOUTHBOUND							
Z4_1340	UU_CLP-slew 132kv cable for NF40 CH2090-2175 85m	10	10	02-May-20	13-May-20	30-Nov-19	11-Dec-19
Z4_1350	UU_CLP-slew 11kv cable for NF40 CH2120-2150 30m	4	4	02-May-20	06-May-20	30-Nov-19	04-Dec-19
Z4_1370	UU_Fresh watermain for SE6 CH2130-2150 20m	21	21	02-May-20	26-May-20	30-Nov-19	27-Dec-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							
Z4_1510	N4_site investigation for N4-12 to N4-27 (24nr)	60	10	04-Mar-20 A	05-Jun-20	02-Mar-20	16-May-20
SOUTHBOUND							
Z4_1110	SE6_site investigation for S6E1-51P (2nr)	10	5	19-Feb-20 A	01-Jun-20	27-Dec-19	09-Jan-20
Z4_1120	SE6_mini piles for S6E1-51P (10nr ver)	40	40	16-Jun-20	03-Aug-20	23-Jan-20	13-Mar-20
Z4_1530	SE6_site investigation for S6E1-58 to S6E1-69 (15nr)	35	3	18-Mar-20 A	09-Jun-20	18-May-20	27-Jun-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	48	16-Jun-20	12-Aug-20	23-Jan-20	23-Mar-20

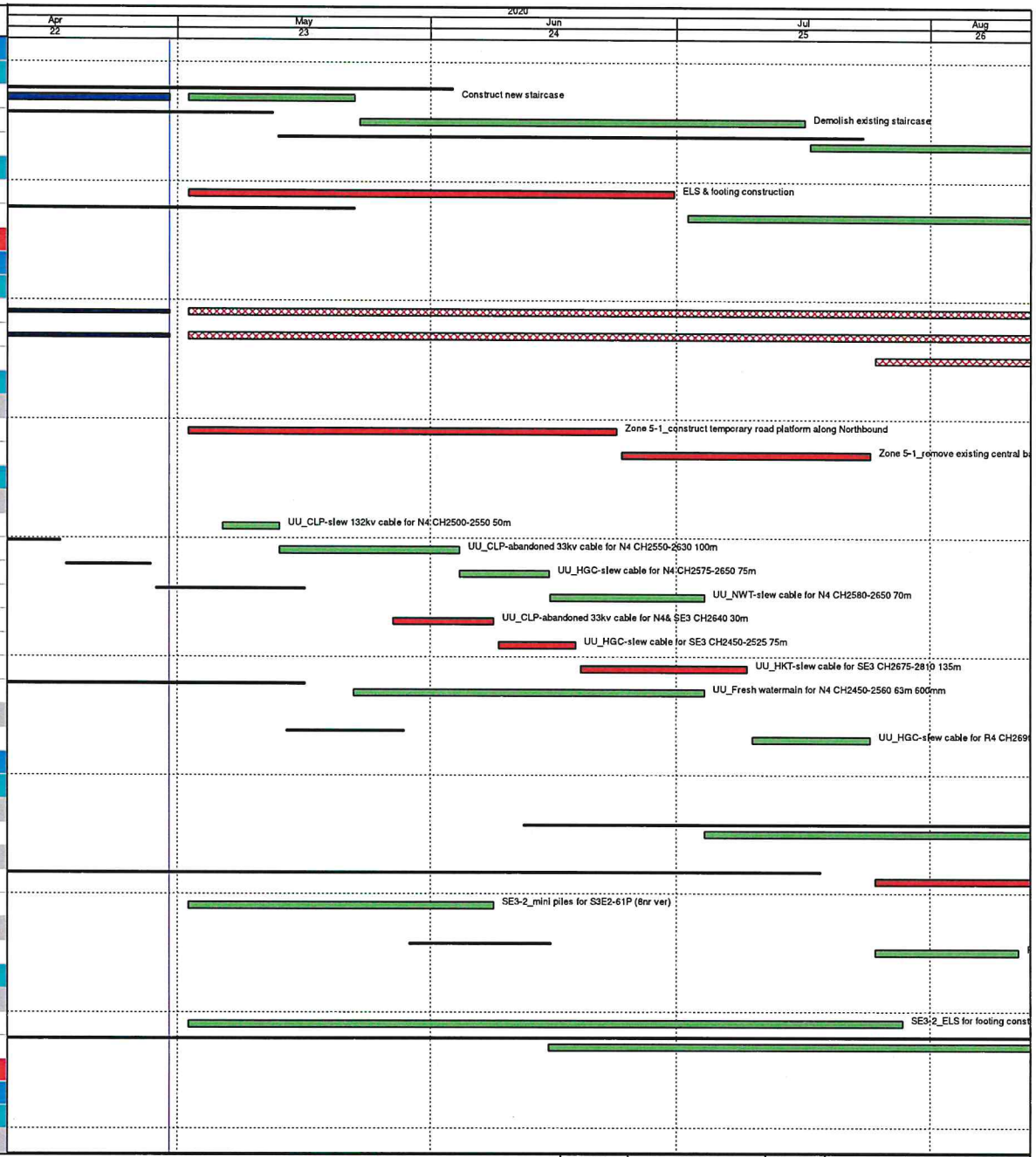


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/20)

Date	Revision	Checked	Approved
11-May-20	3MRP DWP 2004	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
BRIDGE AND STRUCTURE WORKS							
MODIFICATION WORKS FOR NF40							
NF40_1000	Construct new staircase	120	18	12-Oct-19 A	22-May-20	06-Jan-20	03-Jun-20
NF40_1010	Demolish existing staircase	45	45	23-May-20	16-Jul-20	14-Mar-20	12-May-20
NF40_1080	Construct pile cap & part of new column	60	60	17-Jul-20	24-Sep-20	13-May-20	23-Jul-20
MODIFICATION WORKS FOR NF66							
NF66_1000	ELS & footing construction	50	50	02-May-20*	30-Jun-20	06-Jan-20	06-Mar-20
NF66_1020	Construct the new column & columnhead	60	60	02-Jul-20	09-Sep-20	07-Mar-20	22-May-20
WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
Z5SU1000	Zone 5 Stage 1 SE3-2 SB foundation	291	269	15-Feb-20 A	24-Mar-21	30-Nov-19	23-Nov-20
Z5SU1005	Zone 5 Stage 2 NB & SB foundation	467	432	10-Feb-20 A	12-Oct-21	30-Nov-19	02-Jul-21
Z5SU1007	Zone 5 Stage 2 SB slip road foundation	488	488	25-Jul-20	16-Mar-22	29-May-20	07-Jan-22
PREPARATORY WORKS							
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z5_1720	Zone 5-1_construct temporary road platform along Northbound	45	45	02-May-20	23-Jun-20	15-Jan-20	10-Mar-20
Z5_1730	Zone 5-1_remove existing central barrier	21	21	24-Jun-20	24-Jul-20	11-Mar-20	08-Apr-20
UTILITIES DIVERSION							
NORTHBOUND							
Z5_1610	UU_CLP-slew 132kv cable for N4 CH2500-2550 50m	6	6	06-May-20	13-May-20	14-Mar-20	20-Mar-20
Z5_1620	UU_CLP-abandoned 33kv cable for N4 CH2550-2630 100m	19	19	13-May-20	04-Jun-20	21-Mar-20	16-Apr-20
Z5_1630	UU_HGC-slew cable for N4 CH2575-2650 75m	9	9	04-Jun-20	15-Jun-20	17-Apr-20	27-Apr-20
Z5_1640	UU_NWT-slew cable for N4 CH2580-2650 70m	15	15	15-Jun-20	04-Jul-20	28-Apr-20	16-May-20
Z5_1650	UU_CLP-abandoned 33kv cable for N4& SE3 CH2640 30m	11	11	27-May-20	08-Jun-20	26-Feb-20	09-Mar-20
Z5_1670	UU_HGC-slew cable for SE3 CH2450-2525 75m	9	9	09-Jun-20	18-Jun-20	10-Mar-20	19-Mar-20
Z5_1680	UU_HKT-slew cable for SE3 CH2675-2810 135m	16	16	19-Jun-20	09-Jul-20	20-Mar-20	08-Apr-20
Z5_1850	UU_Fresh watermain for N4 CH2450-2560 63m 600mm	35	35	22-May-20	04-Jul-20	31-Mar-20	16-May-20
SOUTHBOUND							
Z5_1700	UU_HGC-slew cable for R4 CH2690-2800 110m	13	13	10-Jul-20	24-Jul-20	14-May-20	28-May-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND							
Z5_1010	N4_mini piles for N4-29 &N4-30P (14nr ver)	56	56	04-Jul-20	08-Sep-20	12-Jun-20	18-Aug-20
SOUTHBOUND							
Z5_1170	SE3-1_site investigation for S3E1-51 to S3E1-69 (32nr)	80	80	25-Jul-20	29-Oct-20	09-Apr-20	18-Jul-20
Z5_2000	SE3-2_mini piles for S3E2-61P (8nr ver)	32	32	02-May-20	08-Jun-20	28-Dec-19	07-Feb-20
SOUTHBOUND SLIP ROAD							
Z5_1290	R4_site investigation for R4-10P & 11P (3nr)	15	15	25-Jul-20	11-Aug-20	29-May-20	15-Jun-20
PILE CAP AND FOOTING							
SOUTHBOUND							
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-60 (131m_2 side)	73	73	02-May-20	28-Jul-20	28-Dec-19	26-Mar-20
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (10nr)	210	210	15-Jun-20	26-Feb-21	14-Feb-20	28-Oct-20
PORTION E (ZONE 5)							
PRELIMINARIES WORKS							
SUMMARY PROGRAMME							
TPR NORTHBOUND							

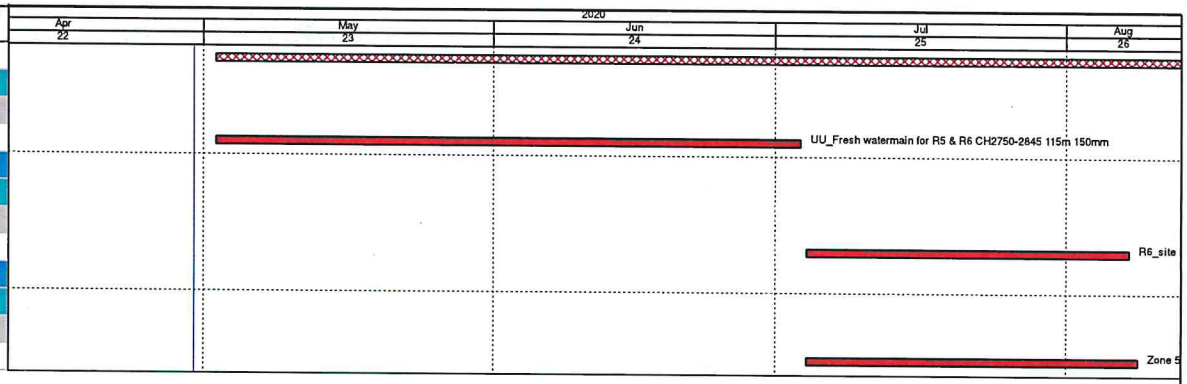


Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
◇ Milestone
◆ Baseline Milestone

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/20)

Date	Revision	Checked	Approved
11-May-20	3MRP DWP 2004	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP8 Start	AP8 Finish
PESU1000	Construction Zone 5 Portion E_Northbound structure	449	449	02-May-20	02-Nov-21	30-Nov-19	22-Jul-21
UTILITIES DIVERSION							
NORTHBOUND							
Z5E_1180	UU_Fresh watermain for R5 & R6 CH2750-2845 115m 150mm	52	52	02-May-20*	03-Jul-20	30-Nov-19	06-Feb-20
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							
NORTHBOUND SLIP ROAD							
Z5E_1000	R6_site investigation for R6-02P (6nr)	30	30	04-Jul-20	07-Aug-20	06-Feb-20	12-Mar-20
ROADWORKS AND REMAINING WORKS							
GEOTECHNICAL WORKS							
NORTHBOUND SLIP ROAD							
Z5E_1150	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)	31	31	04-Jul-20*	08-Aug-20	14-Feb-20	21-Mar-20



Remaining Level of Effort
Actual Level of Effort
Primary Baseline
Actual Work
Remaining Work
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◇ Milestone
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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/04/20)
Page 6 of 6

Date	Revision	Checked	Approved
11-May-20	3MRP DWP 2004	Tim	

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Appendix B

Project Organization Chart

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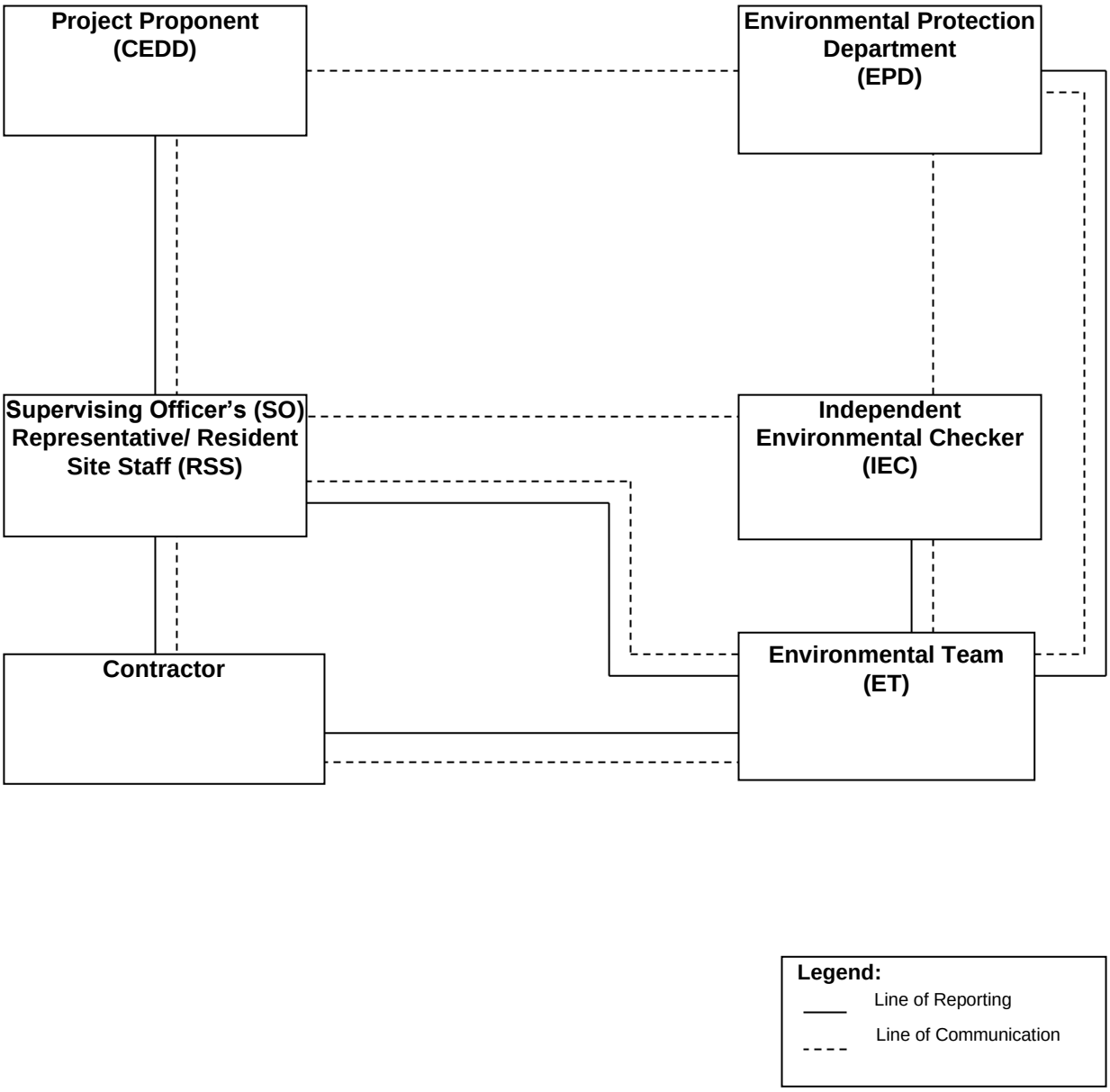

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Appendix C

Action and Limit Levels for Air Quality and Noise

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

Parameter	Monitoring Station	Action Level (µg/m^3)	Limit Level (µg/ m^3)
24-hr TSP (µg/m^3)	AMS1	171	260
	AMS2	166	
	AMS3A	200	
	AMS4A	200	
	AMS5	156	
	AMS6	165	
	AMS7A	171	
	AMS8	161	
	AMS9	159	
	AMS10	155	
	AMS11A	165	
	AMS12	168	
	AMS13	174	
	AMS14	174	
	AMS15	172	
	AMS16	180	
	AMS17	171	
	AMS18	175	
	AMS19	174	
1-hr TSP (µg/m^3)	AMS1	350	500
	AMS2	324	
	AMS3A	350	
	AMS4A	348	
	AMS5	340	
	AMS6	347	
	AMS7A	344	
	AMS8	336	
	AMS9	327	
	AMS10	330	
	AMS11A	335	
	AMS12	296	
	AMS13	303	
	AMS14	350	
	AMS15	350	
	AMS16	310	
	AMS17	338	
	AMS18	308	
	AMS19	305	

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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.

Action and Limit Levels for Construction Noise, Leq (15min), dB(A)

Time Period	Location	Action	Limit
2300-0700 hrs of next day	NMS1 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS8 NMS9 NMS11 NMS13 NMS14 NMS15 NMS16 NMS18 NMS19 NMS20 NMS23 NMS24 NMS25A NMS26	When one documented complaint is received	55 dB(A)

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Appendix D

Graphical Presentation of Monitoring Data

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1-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

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
1-Apr-20	18:07	95	94	78	89	324	500	Sunny
7-Apr-20	13:00	88	64	62	71			Fine
9-Apr-20	14:04	98	93	81	91			Sunny
15-Apr-20	17:08	94	90	89	91			Sunny
21-Apr-20	21:06	99	83	77	86			Fine
27-Apr-20	18:55	96	82	75	84			Fine

Average	85
Max	99
Min	62

AMS3A - Wai Wah Centre

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
1-Apr-20	18:07	94	91	90	92	350	500	Sunny
7-Apr-20	17:00	61	58	54	58			Fine
9-Apr-20	18:04	75	60	68	68			Sunny
15-Apr-20	18:08	95	61	65	74			Sunny
21-Apr-20	14:06	95	84	82	87			Fine
27-Apr-20	15:55	96	86	53	78			Fine

Average	76
Max	96
Min	53

AMS5 - Tin Liu

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
4-Mar-20	17:33	82	80	80	81	340	500	Fine
10-Mar-20	17:01	83	81	81	82			Fine
16-Mar-20	17:45	82	82	73	79			Sunny
20-Mar-20	18:22	88	64	69	74			Fine
26-Mar-20	19:11	85	67	72	75			Fine
2-May-20	19:41	97	91	81	90			Sunny
8-May-20	18:36	99	99	93	97			Sunny
14-May-20	17:40	99	91	88	93			Sunny
20-May-20	18:30	100	85	80	88			Fine
26-May-20	18:40	97	79	82	86			Fine

Average	84
Max	100
Min	64

AMS6 - Shatin Plaza

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
2-May-20	16:32	97	81	76	85	347	500	Sunny
8-May-20	13:38	98	78	96	91			Sunny
14-May-20	17:36	80	65	70	72			Sunny
20-May-20	16:40	95	81	82	86			Fine
26-May-20	11:35	99	84	82	88			Fine

Average	84
Max	99
Min	65

AMS7A - Sheung Wo Che

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
4-Mar-20	9:48	88	83	78	83	344	500	Fine
10-Mar-20	17:14	76	59	59	65			Fine
16-Mar-20	10:01	106	91	81	93			Sunny
20-Mar-20	16:37	103	80	88	90			Fine
26-Mar-20	10:30	89	77	74	80			Fine
2-May-20	12:12	97	87	82	89	344	500	Sunny
8-May-20	10:14	96	82	80	86			Sunny
14-May-20	10:13	97	89	83	90			Sunny
20-May-20	12:16	99	88	99	95			Fine
26-May-20	17:30	100	70	84	85			Fine

Average	86
Max	106
Min	59

AMS 11A - Sheung Wo Che

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
4-Mar-20	21:00	107	82	84	91	335	500	Fine
10-Mar-20	20:27	104	98	89	97			Fine
16-Mar-20	11:11	67	84	76	76			Sunny
20-Mar-20	10:50	103	95	99	99			Fine
26-Mar-20	13:40	97	80	75	84			Fine
1-Apr-20	20:41	76	70	59	68			Sunny
7-Apr-20	20:27	69	64	56	63			Fine
9-Apr-20	18:42	92	85	81	86			Sunny
15-Apr-20	18:39	75	74	73	74			Sunny
21-Apr-20	18:46	81	74	80	78			Fine
27-Apr-20	20:48	84	75	66	75			Fine

Average	81
Max	107
Min	56

AMS 13 - Fung Wo Estate

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
2-May-20	10:51	92	83	90	88	303	500	Sunny
8-May-20	14:50	95	80	93	89	303	500	Sunny
14-May-20	11:56	80	74	62	72	303	500	Sunny
20-May-20	12:02	94	82	73	83	303	500	Fine
26-May-20	12:00	95	82	70	82	303	500	Fine

Average	83
Max	95
Min	62

AMS14 - Ha Wo Che

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
1-Apr-20	13:02	81	64	63	69	350	500	Sunny
7-Apr-20	21:51	72	68	68	69			Fine
9-Apr-20	21:56	86	78	83	82			Sunny
15-Apr-20	20:08	84	79	79	81			Sunny
21-Apr-20	20:01	83	80	79	81			Fine
27-Apr-20	15:03	84	65	63	71			Fine

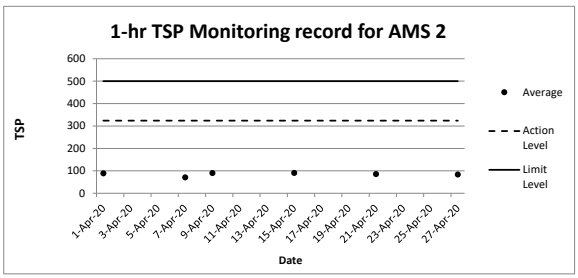
Average	76
Max	86
Min	63

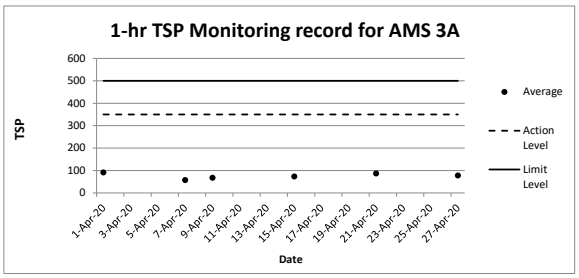
AMS 15 - Ha Wo Che

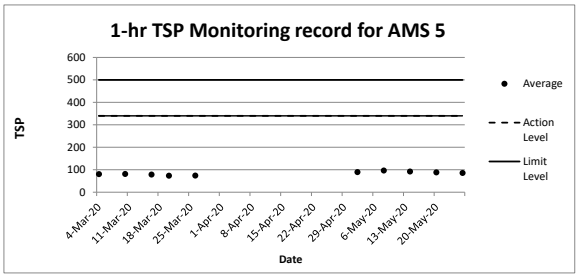
1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
4-Mar-20	11:19	78	65	68	70	350	500	Fine
10-Mar-20	21:48	76	61	50	62			Fine
16-Mar-20	21:31	86	76	75	79			Sunny
20-Mar-20	11:07	85	73	77	78			Fine
26-Mar-20	10:58	82	63	73	73			Fine

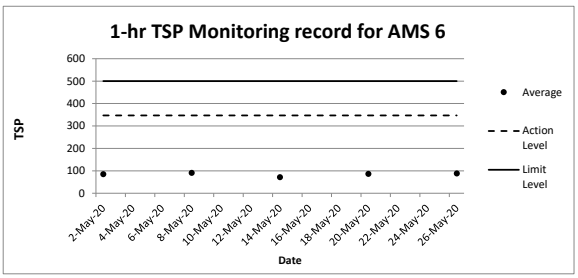
Average	73
Max	86
Min	50

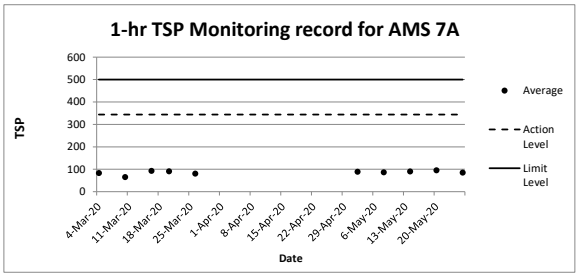
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

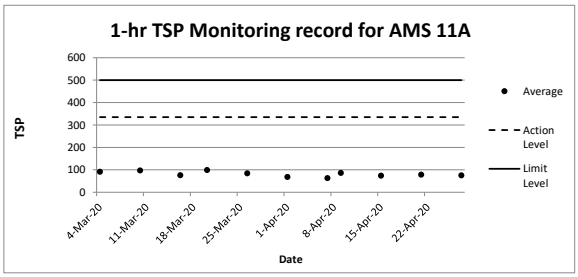

1-hr TSP Monitoring record for AMS 2
TSP
Date
Average
Action Level
Limit Level

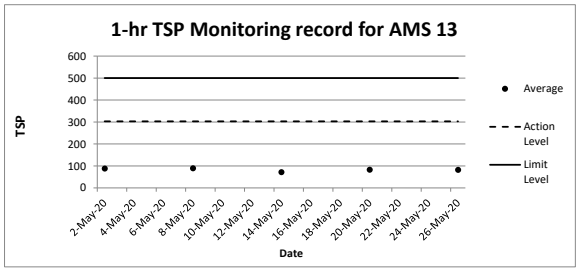

1-hr TSP Monitoring record for AMS 3A
TSP
Date
Average
Action Level
Limit Level

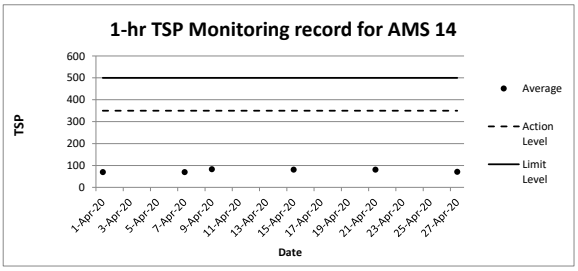

1-hr TSP Monitoring record for AMS 5
TSP
Date
Average
Action Level
Limit Level

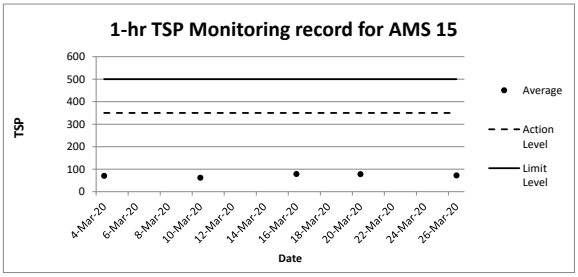

1-hr TSP Monitoring record for AMS 6
TSP
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 7A
TSP
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 11A
TSP
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 13
TSP
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 14
TSP
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS 15
TSP
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)

AMS2 - Villa Le Parc

Date and Time	TSP Concentration (μg/m³)
1/4/2020 9:07	87
1/4/2020 10:07	84
1/4/2020 11:07	73
1/4/2020 12:07	80
1/4/2020 13:07	80
1/4/2020 14:07	90
1/4/2020 15:07	87
1/4/2020 16:07	87
1/4/2020 17:07	68
1/4/2020 18:07	95
1/4/2020 19:07	94
1/4/2020 20:07	78
1/4/2020 21:07	82
1/4/2020 22:07	79
1/4/2020 23:07	87
2/4/2020 0:07	90
2/4/2020 1:07	85
2/4/2020 2:07	83
2/4/2020 3:07	82
2/4/2020 4:07	80
2/4/2020 5:07	82
2/4/2020 6:07	73
2/4/2020 7:07	73
2/4/2020 8:07	79
Average	82
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
7/4/2020 9:00	46
7/4/2020 10:00	51
7/4/2020 11:00	52
7/4/2020 12:00	55
7/4/2020 13:00	88
7/4/2020 14:00	64
7/4/2020 15:00	62
7/4/2020 16:00	61
7/4/2020 17:00	62
7/4/2020 18:00	67
7/4/2020 19:00	64
7/4/2020 20:00	62
7/4/2020 21:00	65
7/4/2020 22:00	63
7/4/2020 23:00	55
8/4/2020 0:00	48
8/4/2020 1:00	81
8/4/2020 2:00	49
8/4/2020 3:00	46
8/4/2020 4:00	46
8/4/2020 5:00	44
8/4/2020 6:00	48
8/4/2020 7:00	49
8/4/2020 8:00	51
Average	58
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
9/4/2020 9:04	82
9/4/2020 10:04	72
9/4/2020 11:04	77
9/4/2020 12:04	84
9/4/2020 13:04	77
9/4/2020 14:04	98
9/4/2020 15:04	93
9/4/2020 16:04	81
9/4/2020 17:04	86
9/4/2020 18:04	78
9/4/2020 19:04	86
9/4/2020 20:04	89
9/4/2020 21:04	86
9/4/2020 22:04	87
9/4/2020 23:04	81
10/4/2020 0:04	70
10/4/2020 1:04	69
10/4/2020 2:04	78
10/4/2020 3:04	75
10/4/2020 4:04	78
10/4/2020 5:04	70
10/4/2020 6:04	76
10/4/2020 7:04	75
10/4/2020 8:04	70
Average	80
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
15/4/2020 9:08	74
15/4/2020 10:08	77
15/4/2020 11:08	71
15/4/2020 12:08	79
15/4/2020 13:08	82
15/4/2020 14:08	74
15/4/2020 15:08	72
15/4/2020 16:08	82
15/4/2020 17:08	94
15/4/2020 18:08	90
15/4/2020 19:08	89
15/4/2020 20:08	92
15/4/2020 21:08	85
15/4/2020 22:08	84
15/4/2020 23:08	77
16/4/2020 0:08	80
16/4/2020 1:08	79
16/4/2020 2:08	70
16/4/2020 3:08	71
16/4/2020 4:08	77
16/4/2020 5:08	83
16/4/2020 6:08	83
16/4/2020 7:08	84
16/4/2020 8:08	77
Average	80
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
21/4/2020 9:06	91
21/4/2020 10:06	90
21/4/2020 11:06	87
21/4/2020 12:06	79
21/4/2020 13:06	97
21/4/2020 14:06	97
21/4/2020 15:06	95
21/4/2020 16:06	89
21/4/2020 17:06	94
21/4/2020 18:06	88
21/4/2020 19:06	76
21/4/2020 20:06	69
21/4/2020 21:06	99
21/4/2020 22:06	83
21/4/2020 23:06	77
22/4/2020 0:06	90
22/4/2020 1:06	90
22/4/2020 2:06	79
22/4/2020 3:06	92
22/4/2020 4:06	88
22/4/2020 5:06	87
22/4/2020 6:06	91
22/4/2020 7:06	91
22/4/2020 8:06	87
Average	88
Action Level	166
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
27/4/2020 8:55	64
27/4/2020 9:55	72
27/4/2020 10:55	72
27/4/2020 11:55	78
27/4/2020 12:55	73
27/4/2020 13:55	75
27/4/2020 14:55	74
27/4/2020 15:55	78
27/4/2020 16:55	80
27/4/2020 17:55	91
27/4/2020 18:55	96
27/4/2020 19:55	82
27/4/2020 20:55	75
27/4/2020 21:55	75
27/4/2020 22:55	74
27/4/2020 23:55	79
28/4/2020 0:55	69
28/4/2020 1:55	66
28/4/2020 2:55	72
28/4/2020 3:55	79
28/4/2020 4:55	76
28/4/2020 5:55	75
28/4/2020 6:55	66
28/4/2020 7:55	67
Average	76
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.

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

AMS3A - Wai Wah Centre

Date and Time	TSP Concentration (μg/m³)
1/4/2020 9:07	69
1/4/2020 10:07	70
1/4/2020 11:07	67
1/4/2020 12:07	73
1/4/2020 13:07	70
1/4/2020 14:07	76
1/4/2020 15:07	68
1/4/2020 16:07	81
1/4/2020 17:07	83
1/4/2020 18:07	94
1/4/2020 19:07	91
1/4/2020 20:07	90
1/4/2020 21:07	85
1/4/2020 22:07	77
1/4/2020 23:07	77
2/4/2020 0:07	76
2/4/2020 1:07	73
2/4/2020 2:07	70
2/4/2020 3:07	74
2/4/2020 4:07	68
2/4/2020 5:07	70
2/4/2020 6:07	82
2/4/2020 7:07	67
2/4/2020 8:07	67
Average	76
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
7/4/2020 9:00	48
7/4/2020 10:00	50
7/4/2020 11:00	50
7/4/2020 12:00	50
7/4/2020 13:00	53
7/4/2020 14:00	59
7/4/2020 15:00	58
7/4/2020 16:00	60
7/4/2020 17:00	61
7/4/2020 18:00	58
7/4/2020 19:00	54
7/4/2020 20:00	53
7/4/2020 21:00	55
7/4/2020 22:00	58
7/4/2020 23:00	60
8/4/2020 0:00	61
8/4/2020 1:00	58
8/4/2020 2:00	53
8/4/2020 3:00	47
8/4/2020 4:00	44
8/4/2020 5:00	45
8/4/2020 6:00	41
8/4/2020 7:00	41
8/4/2020 8:00	39
Average	52
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
9/4/2020 9:04	64
9/4/2020 10:04	67
9/4/2020 11:04	61
9/4/2020 12:04	63
9/4/2020 13:04	61
9/4/2020 14:04	72
9/4/2020 15:04	66
9/4/2020 16:04	70
9/4/2020 17:04	71
9/4/2020 18:04	75
9/4/2020 19:04	60
9/4/2020 20:04	68
9/4/2020 21:04	67
9/4/2020 22:04	66
9/4/2020 23:04	69
10/4/2020 0:04	71
10/4/2020 1:04	72
10/4/2020 2:04	61
10/4/2020 3:04	58
10/4/2020 4:04	60
10/4/2020 5:04	64
10/4/2020 6:04	57
10/4/2020 7:04	54
10/4/2020 8:04	49
Average	64
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
15/4/2020 9:08	72
15/4/2020 10:08	86
15/4/2020 11:08	86
15/4/2020 12:08	95
15/4/2020 13:08	86
15/4/2020 14:08	86
15/4/2020 15:08	91
15/4/2020 16:08	88
15/4/2020 17:08	95
15/4/2020 18:08	61
15/4/2020 19:08	65
15/4/2020 20:08	95
15/4/2020 21:08	89
15/4/2020 22:08	86
15/4/2020 23:08	90
16/4/2020 0:08	93
16/4/2020 1:08	84
16/4/2020 2:08	77
16/4/2020 3:08	88
16/4/2020 4:08	87
16/4/2020 5:08	95
16/4/2020 6:08	87
16/4/2020 7:08	72
16/4/2020 8:08	81
Average	85
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
21/4/2020 9:06	79
21/4/2020 10:06	74
21/4/2020 11:06	76
21/4/2020 12:06	76
21/4/2020 13:06	75
21/4/2020 14:06	95
21/4/2020 15:06	84
21/4/2020 16:06	82
21/4/2020 17:06	79
21/4/2020 18:06	91
21/4/2020 19:06	73
21/4/2020 20:06	78
21/4/2020 21:06	81
21/4/2020 22:06	89
21/4/2020 23:06	81
22/4/2020 0:06	81
22/4/2020 1:06	80
22/4/2020 2:06	88
22/4/2020 3:06	75
22/4/2020 4:06	63
22/4/2020 5:06	73
22/4/2020 6:06	67
22/4/2020 7:06	77
22/4/2020 8:06	75
Average	79
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
27/4/2020 8:55	79
27/4/2020 9:55	78
27/4/2020 10:55	85
27/4/2020 11:55	91
27/4/2020 12:55	83
27/4/2020 13:55	83
27/4/2020 14:55	86
27/4/2020 15:55	96
27/4/2020 16:55	86
27/4/2020 17:55	53
27/4/2020 18:55	64
27/4/2020 19:55	96
27/4/2020 20:55	94
27/4/2020 21:55	82
27/4/2020 22:55	83
27/4/2020 23:55	89
28/4/2020 0:55	88
28/4/2020 1:55	74
28/4/2020 2:55	82
28/4/2020 3:55	93
28/4/2020 4:55	83
28/4/2020 5:55	85
28/4/2020 6:55	77
28/4/2020 7:55	82
Average	83
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.

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

AMS5 - Tin Liu

Date and Time	TSP Concentration (μg/m³)
4/3/2020 8:33	67
4/3/2020 9:33	71
4/3/2020 10:33	67
4/3/2020 11:33	67
4/3/2020 12:33	65
4/3/2020 13:33	71
4/3/2020 14:33	73
4/3/2020 15:33	75
4/3/2020 16:33	79
4/3/2020 17:33	82
4/3/2020 18:33	80
4/3/2020 19:33	80
4/3/2020 20:33	77
4/3/2020 21:33	67
4/3/2020 22:33	69
4/3/2020 23:33	65
5/3/2020 0:33	65
5/3/2020 1:33	71
5/3/2020 2:33	67
5/3/2020 3:33	60
5/3/2020 4:33	62
5/3/2020 5:33	60
5/3/2020 6:33	60
5/3/2020 7:33	58
Average	69
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
10/3/2020 9:01	71
10/3/2020 10:01	69
10/3/2020 11:01	62
10/3/2020 12:01	63
10/3/2020 13:01	72
10/3/2020 14:01	71
10/3/2020 15:01	76
10/3/2020 16:01	72
10/3/2020 17:01	83
10/3/2020 18:01	81
10/3/2020 19:01	81
10/3/2020 20:01	80
10/3/2020 21:01	79
10/3/2020 22:01	64
10/3/2020 23:01	74
11/3/2020 0:01	62
11/3/2020 1:01	63
11/3/2020 2:01	72
11/3/2020 3:01	74
11/3/2020 4:01	58
11/3/2020 5:01	58
11/3/2020 6:01	64
11/3/2020 7:01	64
11/3/2020 8:01	53
Average	70
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
16/3/2020 8:45	69
16/3/2020 9:45	76
16/3/2020 10:45	57
16/3/2020 11:45	68
16/3/2020 12:45	74
16/3/2020 13:45	75
16/3/2020 14:45	80
16/3/2020 15:45	67
16/3/2020 16:45	80
16/3/2020 17:45	82
16/3/2020 18:45	82
16/3/2020 19:45	73
16/3/2020 20:45	76
16/3/2020 21:45	62
16/3/2020 22:45	74
16/3/2020 23:45	66
17/3/2020 0:45	67
17/3/2020 1:45	76
17/3/2020 2:45	74
17/3/2020 3:45	60
17/3/2020 4:45	54
17/3/2020 5:45	68
17/3/2020 6:45	57
17/3/2020 7:45	47
Average	69
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/3/2020 8:22	67
20/3/2020 9:22	75
20/3/2020 10:22	52
20/3/2020 11:22	65
20/3/2020 12:22	73
20/3/2020 13:22	75
20/3/2020 14:22	79
20/3/2020 15:22	65
20/3/2020 16:22	78
20/3/2020 17:22	75
20/3/2020 18:22	88
20/3/2020 19:22	64
20/3/2020 20:22	69
20/3/2020 21:22	69
20/3/2020 22:22	76
20/3/2020 23:22	72
21/3/2020 0:22	61
21/3/2020 1:22	81
21/3/2020 2:22	73
21/3/2020 3:22	63
21/3/2020 4:22	53
21/3/2020 5:22	61
21/3/2020 6:22	58
21/3/2020 7:22	47
Average	68
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/3/2020 9:11	61
26/3/2020 10:11	76
26/3/2020 11:11	58
26/3/2020 12:11	74
26/3/2020 13:11	64
26/3/2020 14:11	80
26/3/2020 15:11	72
26/3/2020 16:11	64
26/3/2020 17:11	75
26/3/2020 18:11	74
26/3/2020 19:11	85
26/3/2020 20:11	67
26/3/2020 21:11	72
26/3/2020 22:11	68
26/3/2020 23:11	68
27/3/2020 0:11	71
27/3/2020 1:11	73
27/3/2020 2:11	73
27/3/2020 3:11	73
27/3/2020 4:11	64
27/3/2020 5:11	50
27/3/2020 6:11	64
27/3/2020 7:11	57
27/3/2020 8:11	56
Average	68
Action Level	156
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS5 - Tin Liu

Date and Time	TSP Concentration (μg/m³)
2/5/2020 8:41	85
2/5/2020 9:41	82
2/5/2020 10:41	75
2/5/2020 11:41	86
2/5/2020 12:41	75
2/5/2020 13:41	90
2/5/2020 14:41	88
2/5/2020 15:41	81
2/5/2020 16:41	95
2/5/2020 17:41	90
2/5/2020 18:41	96
2/5/2020 19:41	97
2/5/2020 20:41	91
2/5/2020 21:41	81
2/5/2020 22:41	76
2/5/2020 23:41	84
3/5/2020 0:41	83
3/5/2020 1:41	81
3/5/2020 2:41	85
3/5/2020 3:41	77
3/5/2020 4:41	78
3/5/2020 5:41	68
3/5/2020 6:41	77
3/5/2020 7:41	75
Average	83
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/5/2020 8:36	88
8/5/2020 9:36	85
8/5/2020 10:36	78
8/5/2020 11:36	70
8/5/2020 12:36	90
8/5/2020 13:36	88
8/5/2020 14:36	92
8/5/2020 15:36	89
8/5/2020 16:36	99
8/5/2020 17:36	95
8/5/2020 18:36	99
8/5/2020 19:36	99
8/5/2020 20:36	93
8/5/2020 21:36	73
8/5/2020 22:36	84
8/5/2020 23:36	80
9/5/2020 0:36	73
9/5/2020 1:36	85
9/5/2020 2:36	87
9/5/2020 3:36	69
9/5/2020 4:36	75
9/5/2020 5:36	81
9/5/2020 6:36	76
9/5/2020 7:36	70
Average	84
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/5/2020 8:40	76
14/5/2020 9:40	87
14/5/2020 10:40	72
14/5/2020 11:40	81
14/5/2020 12:40	86
14/5/2020 13:40	91
14/5/2020 14:40	98
14/5/2020 15:40	76
14/5/2020 16:40	94
14/5/2020 17:40	99
14/5/2020 18:40	91
14/5/2020 19:40	88
14/5/2020 20:40	85
14/5/2020 21:40	75
14/5/2020 22:40	81
14/5/2020 23:40	77
15/5/2020 0:40	85
15/5/2020 1:40	83
15/5/2020 2:40	85
15/5/2020 3:40	74
15/5/2020 4:40	69
15/5/2020 5:40	84
15/5/2020 6:40	64
15/5/2020 7:40	60
Average	82
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/5/2020 8:30	72
20/5/2020 9:30	91
20/5/2020 10:30	65
20/5/2020 11:30	91
20/5/2020 12:30	75
20/5/2020 13:30	91
20/5/2020 14:30	82
20/5/2020 15:30	78
20/5/2020 16:30	90
20/5/2020 17:30	93
20/5/2020 18:30	100
20/5/2020 19:30	85
20/5/2020 20:30	80
20/5/2020 21:30	76
20/5/2020 22:30	75
20/5/2020 23:30	90
21/5/2020 0:30	86
21/5/2020 1:30	92
21/5/2020 2:30	85
21/5/2020 3:30	71
21/5/2020 4:30	66
21/5/2020 5:30	74
21/5/2020 6:30	73
21/5/2020 7:30	69
Average	81
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/5/2020 8:40	72
26/5/2020 9:40	87
26/5/2020 10:40	69
26/5/2020 11:40	88
26/5/2020 12:40	74
26/5/2020 13:40	89
26/5/2020 14:40	87
26/5/2020 15:40	79
26/5/2020 16:40	94
26/5/2020 17:40	92
26/5/2020 18:40	97
26/5/2020 19:40	79
26/5/2020 20:40	82
26/5/2020 21:40	78
26/5/2020 22:40	84
26/5/2020 23:40	88
27/5/2020 0:40	93
27/5/2020 1:40	90
27/5/2020 2:40	84
27/5/2020 3:40	76
27/5/2020 4:40	67
27/5/2020 5:40	81
27/5/2020 6:40	71
27/5/2020 7:40	73
Average	82
Action Level	156
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS6 - Shatin Plaza

Date and Time	TSP Concentration (μg/m³)
5/2/2020 8:56	68
5/2/2020 9:56	69
5/2/2020 10:56	68
5/2/2020 11:56	78
5/2/2020 12:56	92
5/2/2020 13:56	86
5/2/2020 14:56	86
5/2/2020 15:56	94
5/2/2020 16:56	91
5/2/2020 17:56	84
5/2/2020 18:56	96
5/2/2020 19:56	97
5/2/2020 20:56	77
5/2/2020 21:56	81
5/2/2020 22:56	76
5/2/2020 23:56	80
6/2/2020 0:56	90
6/2/2020 1:56	73
6/2/2020 2:56	74
6/2/2020 3:56	60
6/2/2020 4:56	82
6/2/2020 5:56	74
6/2/2020 6:56	75
6/2/2020 7:56	61
Average	80
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
11/2/2020 9:22	81
11/2/2020 10:22	85
11/2/2020 11:22	99
11/2/2020 12:22	94
11/2/2020 13:22	92
11/2/2020 14:22	83
11/2/2020 15:22	83
11/2/2020 16:22	82
11/2/2020 17:22	100
11/2/2020 18:22	100
11/2/2020 19:22	102
11/2/2020 20:22	97
11/2/2020 21:22	97
11/2/2020 22:22	92
11/2/2020 23:22	91
12/2/2020 0:22	92
12/2/2020 1:22	93
12/2/2020 2:22	96
12/2/2020 3:22	100
12/2/2020 4:22	102
12/2/2020 5:22	102
12/2/2020 6:22	92
12/2/2020 7:22	92
12/2/2020 8:22	96
Average	93
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
17/2/2020 8:51	65
17/2/2020 9:51	67
17/2/2020 10:51	65
17/2/2020 11:51	61
17/2/2020 12:51	59
17/2/2020 13:51	57
17/2/2020 14:51	59
17/2/2020 15:51	63
17/2/2020 16:51	65
17/2/2020 17:51	71
17/2/2020 18:51	63
17/2/2020 19:51	67
17/2/2020 20:51	63
17/2/2020 21:51	69
17/2/2020 22:51	71
17/2/2020 23:51	65
18/2/2020 0:51	67
18/2/2020 1:51	69
18/2/2020 2:51	71
18/2/2020 3:51	69
18/2/2020 4:51	65
18/2/2020 5:51	61
18/2/2020 6:51	61
18/2/2020 7:51	59
Average	65
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
21/2/2020 9:27	89
21/2/2020 10:27	87
21/2/2020 11:27	83
21/2/2020 12:27	72
21/2/2020 13:27	81
21/2/2020 14:27	79
21/2/2020 15:27	74
21/2/2020 16:27	74
21/2/2020 17:27	85
21/2/2020 18:27	95
21/2/2020 19:27	84
21/2/2020 20:27	92
21/2/2020 21:27	69
21/2/2020 22:27	85
21/2/2020 23:27	74
22/2/2020 0:27	67
22/2/2020 1:27	64
22/2/2020 2:27	70
22/2/2020 3:27	70
22/2/2020 4:27	70
22/2/2020 5:27	78
22/2/2020 6:27	79
22/2/2020 7:27	85
22/2/2020 8:27	87
Average	79
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
27/2/2020 9:34	81
27/2/2020 10:34	83
27/2/2020 11:34	74
27/2/2020 12:34	65
27/2/2020 13:34	76
27/2/2020 14:34	77
27/2/2020 15:34	96
27/2/2020 16:34	92
27/2/2020 17:34	83
27/2/2020 18:34	74
27/2/2020 19:34	74
27/2/2020 20:34	87
27/2/2020 21:34	83
27/2/2020 22:34	91
27/2/2020 23:34	77
28/2/2020 0:34	85
28/2/2020 1:34	81
28/2/2020 2:34	76
28/2/2020 3:34	82
28/2/2020 4:34	79
28/2/2020 5:34	93
28/2/2020 6:34	87
28/2/2020 7:34	87
28/2/2020 8:34	79
Average	82
Action Level	165
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS6 - Shatin Plaza

Date and Time	TSP Concentration (μg/m³)
2/5/2020 9:32	89
2/5/2020 10:32	78
2/5/2020 11:32	75
2/5/2020 12:32	83
2/5/2020 13:32	94
2/5/2020 14:32	70
2/5/2020 15:32	74
2/5/2020 16:32	97
2/5/2020 17:32	81
2/5/2020 18:32	76
2/5/2020 19:32	84
2/5/2020 20:32	74
2/5/2020 21:32	80
2/5/2020 22:32	59
2/5/2020 23:32	76
3/5/2020 0:32	71
3/5/2020 1:32	80
3/5/2020 2:32	69
3/5/2020 3:32	72
3/5/2020 4:32	73
3/5/2020 5:32	71
3/5/2020 6:32	60
3/5/2020 7:32	77
3/5/2020 8:32	80
Average	77
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/5/2020 9:38	81
8/5/2020 10:38	90
8/5/2020 11:38	76
8/5/2020 12:38	96
8/5/2020 13:38	98
8/5/2020 14:38	78
8/5/2020 15:38	96
8/5/2020 16:38	93
8/5/2020 17:38	92
8/5/2020 18:38	78
8/5/2020 19:38	79
8/5/2020 20:38	77
8/5/2020 21:38	84
8/5/2020 22:38	78
8/5/2020 23:38	82
9/5/2020 0:38	78
9/5/2020 1:38	78
9/5/2020 2:38	81
9/5/2020 3:38	83
9/5/2020 4:38	83
9/5/2020 5:38	92
9/5/2020 6:38	92
9/5/2020 7:38	88
9/5/2020 8:38	85
Average	85
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/5/2020 9:36	74
14/5/2020 10:36	60
14/5/2020 11:36	79
14/5/2020 12:36	80
14/5/2020 13:36	65
14/5/2020 14:36	70
14/5/2020 15:36	60
14/5/2020 16:36	68
14/5/2020 17:36	80
14/5/2020 18:36	65
14/5/2020 19:36	70
14/5/2020 20:36	73
14/5/2020 21:36	53
14/5/2020 22:36	58
14/5/2020 23:36	51
15/5/2020 0:36	67
15/5/2020 1:36	62
15/5/2020 2:36	75
15/5/2020 3:36	68
15/5/2020 4:36	65
15/5/2020 5:36	66
15/5/2020 6:36	63
15/5/2020 7:36	69
15/5/2020 8:36	76
Average	67
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/5/2020 9:40	90
20/5/2020 10:40	83
20/5/2020 11:40	82
20/5/2020 12:40	82
20/5/2020 13:40	77
20/5/2020 14:40	85
20/5/2020 15:40	85
20/5/2020 16:40	95
20/5/2020 17:40	81
20/5/2020 18:40	82
20/5/2020 19:40	71
20/5/2020 20:40	79
20/5/2020 21:40	91
20/5/2020 22:40	72
20/5/2020 23:40	84
21/5/2020 0:40	84
21/5/2020 1:40	78
21/5/2020 2:40	93
21/5/2020 3:40	80
21/5/2020 4:40	80
21/5/2020 5:40	89
21/5/2020 6:40	88
21/5/2020 7:40	90
21/5/2020 8:40	89
Average	84
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/5/2020 9:35	89
26/5/2020 10:35	88
26/5/2020 11:35	99
26/5/2020 12:35	84
26/5/2020 13:35	82
26/5/2020 14:35	93
26/5/2020 15:35	92
26/5/2020 16:35	82
26/5/2020 17:35	91
26/5/2020 18:35	72
26/5/2020 19:35	70
26/5/2020 20:35	74
26/5/2020 21:35	96
26/5/2020 22:35	71
26/5/2020 23:35	85
27/5/2020 0:35	84
27/5/2020 1:35	85
27/5/2020 2:35	90
27/5/2020 3:35	84
27/5/2020 4:35	83
27/5/2020 5:35	87
27/5/2020 6:35	94
27/5/2020 7:35	88
27/5/2020 8:35	90
Average	86
Action Level	165
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS7A - Sheung Wo Che

Date and Time	TSP Concentration (μg/m³)
4/3/2020 8:48	75
4/3/2020 9:48	88
4/3/2020 10:48	83
4/3/2020 11:48	78
4/3/2020 12:48	73
4/3/2020 13:48	74
4/3/2020 14:48	74
4/3/2020 15:48	87
4/3/2020 16:48	86
4/3/2020 17:48	76
4/3/2020 18:48	76
4/3/2020 19:48	76
4/3/2020 20:48	72
4/3/2020 21:48	71
4/3/2020 22:48	62
4/3/2020 23:48	81
5/3/2020 0:48	81
5/3/2020 1:48	76
5/3/2020 2:48	72
5/3/2020 3:48	75
5/3/2020 4:48	81
5/3/2020 5:48	82
5/3/2020 6:48	71
5/3/2020 7:48	79
Average	77
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
10/3/2020 9:14	61
10/3/2020 10:14	76
10/3/2020 11:14	68
10/3/2020 12:14	62
10/3/2020 13:14	56
10/3/2020 14:14	62
10/3/2020 15:14	64
10/3/2020 16:14	71
10/3/2020 17:14	76
10/3/2020 18:14	59
10/3/2020 19:14	59
10/3/2020 20:14	69
10/3/2020 21:14	60
10/3/2020 22:14	56
10/3/2020 23:14	56
11/3/2020 0:14	70
11/3/2020 1:14	76
11/3/2020 2:14	68
11/3/2020 3:14	63
11/3/2020 4:14	67
11/3/2020 5:14	64
11/3/2020 6:14	62
11/3/2020 7:14	55
11/3/2020 8:14	62
Average	64
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
16/3/2020 9:01	89
16/3/2020 10:01	106
16/3/2020 11:01	91
16/3/2020 12:01	81
16/3/2020 13:01	70
16/3/2020 14:01	86
16/3/2020 15:01	88
16/3/2020 16:01	103
16/3/2020 17:01	97
16/3/2020 18:01	80
16/3/2020 19:01	86
16/3/2020 20:01	87
16/3/2020 21:01	76
16/3/2020 22:01	80
16/3/2020 23:01	76
17/3/2020 0:01	91
17/3/2020 1:01	105
17/3/2020 2:01	94
17/3/2020 3:01	95
17/3/2020 4:01	93
17/3/2020 5:01	97
17/3/2020 6:01	85
17/3/2020 7:01	74
17/3/2020 8:01	83
Average	88
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/3/2020 8:37	93
20/3/2020 9:37	97
20/3/2020 10:37	91
20/3/2020 11:37	92
20/3/2020 12:37	77
20/3/2020 13:37	88
20/3/2020 14:37	82
20/3/2020 15:37	94
20/3/2020 16:37	103
20/3/2020 17:37	80
20/3/2020 18:37	88
20/3/2020 19:37	96
20/3/2020 20:37	89
20/3/2020 21:37	84
20/3/2020 22:37	82
20/3/2020 23:37	91
21/3/2020 0:37	99
21/3/2020 1:37	91
21/3/2020 2:37	94
21/3/2020 3:37	93
21/3/2020 4:37	99
21/3/2020 5:37	93
21/3/2020 6:37	76
21/3/2020 7:37	88
Average	90
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/3/2020 9:30	78
26/3/2020 10:30	89
26/3/2020 11:30	77
26/3/2020 12:30	74
26/3/2020 13:30	63
26/3/2020 14:30	80
26/3/2020 15:30	72
26/3/2020 16:30	86
26/3/2020 17:30	88
26/3/2020 18:30	66
26/3/2020 19:30	73
26/3/2020 20:30	77
26/3/2020 21:30	69
26/3/2020 22:30	73
26/3/2020 23:30	65
27/3/2020 0:30	81
27/3/2020 1:30	87
27/3/2020 2:30	81
27/3/2020 3:30	79
27/3/2020 4:30	75
27/3/2020 5:30	81
27/3/2020 6:30	77
27/3/2020 7:30	63
27/3/2020 8:30	74
Average	76
Action Level	165
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS7A - Sheung Wo Che

Date and Time	TSP Concentration (μg/m³)
2/5/2020 9:12	94
2/5/2020 10:12	81
2/5/2020 11:12	81
2/5/2020 12:12	97
2/5/2020 13:12	87
2/5/2020 14:12	92
2/5/2020 15:12	88
2/5/2020 16:12	73
2/5/2020 17:12	80
2/5/2020 18:12	72
2/5/2020 19:12	92
2/5/2020 20:12	70
2/5/2020 21:12	88
2/5/2020 22:12	93
2/5/2020 23:12	83
3/5/2020 0:12	89
3/5/2020 1:12	73
3/5/2020 2:12	94
3/5/2020 3:12	86
3/5/2020 4:12	91
3/5/2020 5:12	93
3/5/2020 6:12	96
3/5/2020 7:12	82
3/5/2020 8:12	79
Average	86
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/5/2020 9:14	80
8/5/2020 10:14	96
8/5/2020 11:14	82
8/5/2020 12:14	80
8/5/2020 13:14	78
8/5/2020 14:14	83
8/5/2020 15:14	79
8/5/2020 16:14	85
8/5/2020 17:14	94
8/5/2020 18:14	70
8/5/2020 19:14	73
8/5/2020 20:14	84
8/5/2020 21:14	83
8/5/2020 22:14	69
8/5/2020 23:14	66
9/5/2020 0:14	87
9/5/2020 1:14	86
9/5/2020 2:14	84
9/5/2020 3:14	80
9/5/2020 4:14	88
9/5/2020 5:14	82
9/5/2020 6:14	76
9/5/2020 7:14	77
9/5/2020 8:14	72
Average	81
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/5/2020 9:13	89
14/5/2020 10:13	97
14/5/2020 11:13	89
14/5/2020 12:13	83
14/5/2020 13:13	79
14/5/2020 14:13	87
14/5/2020 15:13	86
14/5/2020 16:13	89
14/5/2020 17:13	93
14/5/2020 18:13	77
14/5/2020 19:13	74
14/5/2020 20:13	89
14/5/2020 21:13	84
14/5/2020 22:13	76
14/5/2020 23:13	70
15/5/2020 0:13	91
15/5/2020 1:13	82
15/5/2020 2:13	96
15/5/2020 3:13	85
15/5/2020 4:13	89
15/5/2020 5:13	89
15/5/2020 6:13	81
15/5/2020 7:13	81
15/5/2020 8:13	82
Average	85
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/5/2020 9:16	97
20/5/2020 10:16	83
20/5/2020 11:16	98
20/5/2020 12:16	99
20/5/2020 13:16	88
20/5/2020 14:16	99
20/5/2020 15:16	90
20/5/2020 16:16	73
20/5/2020 17:16	78
20/5/2020 18:16	85
20/5/2020 19:16	94
20/5/2020 20:16	80
20/5/2020 21:16	94
20/5/2020 22:16	94
20/5/2020 23:16	86
21/5/2020 0:16	99
21/5/2020 1:16	73
21/5/2020 2:16	98
21/5/2020 3:16	87
21/5/2020 4:16	97
21/5/2020 5:16	87
21/5/2020 6:16	79
21/5/2020 7:16	79
21/5/2020 8:16	89
Average	89
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/5/2020 9:30	84
26/5/2020 10:30	93
26/5/2020 11:30	81
26/5/2020 12:30	80
26/5/2020 13:30	71
26/5/2020 14:30	84
26/5/2020 15:30	77
26/5/2020 16:30	90
26/5/2020 17:30	100
26/5/2020 18:30	70
26/5/2020 19:30	84
26/5/2020 20:30	86
26/5/2020 21:30	80
26/5/2020 22:30	79
26/5/2020 23:30	69
27/5/2020 0:30	91
27/5/2020 1:30	93
27/5/2020 2:30	88
27/5/2020 3:30	89
27/5/2020 4:30	85
27/5/2020 5:30	83
27/5/2020 6:30	84
27/5/2020 7:30	70
27/5/2020 8:30	79
Average	83
Action Level	165
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS 11A - Sheung Wo Che

Date and Time	TSP Concentration (μg/m³)
4/3/2020 9:00	85
4/3/2020 10:00	100
4/3/2020 11:00	89
4/3/2020 12:00	95
4/3/2020 13:00	78
4/3/2020 14:00	93
4/3/2020 15:00	93
4/3/2020 16:00	98
4/3/2020 17:00	98
4/3/2020 18:00	97
4/3/2020 19:00	92
4/3/2020 20:00	104
4/3/2020 21:00	107
4/3/2020 22:00	82
4/3/2020 23:00	84
5/3/2020 0:00	101
5/3/2020 1:00	106
5/3/2020 2:00	94
5/3/2020 3:00	89
5/3/2020 4:00	99
5/3/2020 5:00	86
5/3/2020 6:00	99
5/3/2020 7:00	90
5/3/2020 8:00	97
Average	94
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
10/3/2020 9:27	91
10/3/2020 10:27	96
10/3/2020 11:27	94
10/3/2020 12:27	94
10/3/2020 13:27	83
10/3/2020 14:27	89
10/3/2020 15:27	91
10/3/2020 16:27	98
10/3/2020 17:27	101
10/3/2020 18:27	97
10/3/2020 19:27	100
10/3/2020 20:27	104
10/3/2020 21:27	98
10/3/2020 22:27	89
10/3/2020 23:27	87
11/3/2020 0:27	103
11/3/2020 1:27	100
11/3/2020 2:27	99
11/3/2020 3:27	98
11/3/2020 4:27	93
11/3/2020 5:27	89
11/3/2020 6:27	103
11/3/2020 7:27	92
11/3/2020 8:27	89
Average	95
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
16/3/2020 9:11	66
16/3/2020 10:11	79
16/3/2020 11:11	94
16/3/2020 12:11	84
16/3/2020 13:11	76
16/3/2020 14:11	78
16/3/2020 15:11	80
16/3/2020 16:11	71
16/3/2020 17:11	67
16/3/2020 18:11	74
16/3/2020 19:11	67
16/3/2020 20:11	70
16/3/2020 21:11	63
16/3/2020 22:11	67
16/3/2020 23:11	73
17/3/2020 0:11	68
17/3/2020 1:11	71
17/3/2020 2:11	79
17/3/2020 3:11	75
17/3/2020 4:11	75
17/3/2020 5:11	71
17/3/2020 6:11	77
17/3/2020 7:11	71
17/3/2020 8:11	65
Average	73
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/3/2020 8:50	91
20/3/2020 9:50	95
20/3/2020 10:50	103
20/3/2020 11:50	95
20/3/2020 12:50	99
20/3/2020 13:50	92
20/3/2020 14:50	84
20/3/2020 15:50	83
20/3/2020 16:50	101
20/3/2020 17:50	91
20/3/2020 18:50	92
20/3/2020 19:50	86
20/3/2020 20:50	86
20/3/2020 21:50	74
20/3/2020 22:50	75
20/3/2020 23:50	81
21/3/2020 0:50	101
21/3/2020 1:50	88
21/3/2020 2:50	86
21/3/2020 3:50	81
21/3/2020 4:50	98
21/3/2020 5:50	92
21/3/2020 6:50	83
21/3/2020 7:50	97
Average	90
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/3/2020 9:40	72
26/3/2020 10:40	84
26/3/2020 11:40	76
26/3/2020 12:40	77
26/3/2020 13:40	97
26/3/2020 14:40	80
26/3/2020 15:40	75
26/3/2020 16:40	79
26/3/2020 17:40	82
26/3/2020 18:40	89
26/3/2020 19:40	84
26/3/2020 20:40	96
26/3/2020 21:40	90
26/3/2020 22:40	72
26/3/2020 23:40	76
27/3/2020 0:40	89
27/3/2020 1:40	88
27/3/2020 2:40	86
27/3/2020 3:40	88
27/3/2020 4:40	82
27/3/2020 5:40	79
27/3/2020 6:40	85
27/3/2020 7:40	81
27/3/2020 8:40	81
Average	83
Action Level	165
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS 11A - Sheung Wo Che

Date and Time	TSP Concentration (μg/m³)
1/4/2020 9:41	51
1/4/2020 10:41	55
1/4/2020 11:41	53
1/4/2020 12:41	54
1/4/2020 13:41	54
1/4/2020 14:41	58
1/4/2020 15:41	63
1/4/2020 16:41	67
1/4/2020 17:41	56
1/4/2020 18:41	72
1/4/2020 19:41	69
1/4/2020 20:41	76
1/4/2020 21:41	70
1/4/2020 22:41	59
1/4/2020 23:41	59
2/4/2020 0:41	59
2/4/2020 1:41	67
2/4/2020 2:41	68
2/4/2020 3:41	63
2/4/2020 4:41	59
2/4/2020 5:41	58
2/4/2020 6:41	59
2/4/2020 7:41	60
2/4/2020 8:41	58
Average	61
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
7/4/2020 9:27	49
7/4/2020 10:27	50
7/4/2020 11:27	50
7/4/2020 12:27	52
7/4/2020 13:27	49
7/4/2020 14:27	54
7/4/2020 15:27	62
7/4/2020 16:27	60
7/4/2020 17:27	53
7/4/2020 18:27	67
7/4/2020 19:27	67
7/4/2020 20:27	69
7/4/2020 21:27	64
7/4/2020 22:27	56
7/4/2020 23:27	52
8/4/2020 0:27	54
8/4/2020 1:27	62
8/4/2020 2:27	64
8/4/2020 3:27	60
8/4/2020 4:27	56
8/4/2020 5:27	54
8/4/2020 6:27	56
8/4/2020 7:27	54
11/3/2020 8:27	54
Average	57
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
9/4/2020 9:42	59
9/4/2020 10:42	67
9/4/2020 11:42	67
9/4/2020 12:42	66
9/4/2020 13:42	65
9/4/2020 14:42	69
9/4/2020 15:42	79
9/4/2020 16:42	73
9/4/2020 17:42	75
9/4/2020 18:42	92
9/4/2020 19:42	85
9/4/2020 20:42	81
9/4/2020 21:42	79
9/4/2020 22:42	74
9/4/2020 23:42	74
10/4/2020 0:42	66
10/4/2020 1:42	77
10/4/2020 2:42	83
10/4/2020 3:42	82
10/4/2020 4:42	77
10/4/2020 5:42	68
10/4/2020 6:42	66
10/4/2020 7:42	74
10/4/2020 8:42	65
Average	74
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
15/4/2020 9:39	53
15/4/2020 10:39	52
15/4/2020 11:39	56
15/4/2020 12:39	55
15/4/2020 13:39	56
15/4/2020 14:39	60
15/4/2020 15:39	65
15/4/2020 16:39	64
15/4/2020 17:39	61
15/4/2020 18:39	75
15/4/2020 19:39	74
15/4/2020 20:39	73
15/4/2020 21:39	66
15/4/2020 22:39	58
15/4/2020 23:39	59
16/4/2020 0:39	61
16/4/2020 1:39	65
16/4/2020 2:39	68
16/4/2020 3:39	64
16/4/2020 4:39	61
16/4/2020 5:39	60
16/4/2020 6:39	64
16/4/2020 7:39	56
16/4/2020 8:39	57
Average	62
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
21/4/2020 9:46	56
21/4/2020 10:46	56
21/4/2020 11:46	60
21/4/2020 12:46	60
21/4/2020 13:46	58
21/4/2020 14:46	66
21/4/2020 15:46	66
21/4/2020 16:46	63
21/4/2020 17:46	59
21/4/2020 18:46	81
21/4/2020 19:46	74
21/4/2020 20:46	80
21/4/2020 21:46	72
21/4/2020 22:46	61
21/4/2020 23:46	60
22/4/2020 0:46	62
22/4/2020 1:46	73
22/4/2020 2:46	72
22/4/2020 3:46	73
22/4/2020 4:46	64
22/4/2020 5:46	59
22/4/2020 6:46	62
22/4/2020 7:46	61
22/4/2020 8:46	67
Average	65
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
27/4/2020 9:48	62
27/4/2020 10:48	62
27/4/2020 11:48	66
27/4/2020 12:48	66
27/4/2020 13:48	62
27/4/2020 14:48	68
27/4/2020 15:48	76
27/4/2020 16:48	69
27/4/2020 17:48	63
27/4/2020 18:48	82
27/4/2020 19:48	83
27/4/2020 20:48	84
27/4/2020 21:48	75
27/4/2020 22:48	66
27/4/2020 23:48	61
28/4/2020 0:48	68
28/4/2020 1:48	78
28/4/2020 2:48	76
28/4/2020 3:48	74
28/4/2020 4:48	73
28/4/2020 5:48	68
28/4/2020 6:48	66
28/4/2020 7:48	66
28/4/2020 8:48	71
Average	70
Action Level	165
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS 13 - Fung Wo Estate

Date and Time	TSP Concentration (μg/m³)
2/5/2020 9:51	69
2/5/2020 10:51	92
2/5/2020 11:51	83
2/5/2020 12:51	90
2/5/2020 13:51	77
2/5/2020 14:51	89
2/5/2020 15:51	71
2/5/2020 16:51	88
2/5/2020 17:51	69
2/5/2020 18:51	74
2/5/2020 19:51	77
2/5/2020 20:51	75
2/5/2020 21:51	92
2/5/2020 22:51	87
2/5/2020 23:51	71
3/5/2020 0:51	75
3/5/2020 1:51	87
3/5/2020 2:51	74
3/5/2020 3:51	84
3/5/2020 4:51	81
3/5/2020 5:51	82
3/5/2020 6:51	84
3/5/2020 7:51	77
3/5/2020 8:51	86
Average	81
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/5/2020 9:50	69
8/5/2020 10:50	84
8/5/2020 11:50	89
8/5/2020 12:50	88
8/5/2020 13:50	73
8/5/2020 14:50	95
8/5/2020 15:50	80
8/5/2020 16:50	93
8/5/2020 17:50	76
8/5/2020 18:50	79
8/5/2020 19:50	79
8/5/2020 20:50	88
8/5/2020 21:50	92
8/5/2020 22:50	90
8/5/2020 23:50	76
9/5/2020 0:50	76
9/5/2020 1:50	78
9/5/2020 2:50	85
9/5/2020 3:50	84
9/5/2020 4:50	80
9/5/2020 5:50	88
9/5/2020 6:50	81
9/5/2020 7:50	86
9/5/2020 8:50	86
Average	83
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
14/5/2020 9:56	59
14/5/2020 10:56	70
14/5/2020 11:56	80
14/5/2020 12:56	74
14/5/2020 13:56	62
14/5/2020 14:56	77
14/5/2020 15:56	62
14/5/2020 16:56	74
14/5/2020 17:56	63
14/5/2020 18:56	65
14/5/2020 19:56	76
14/5/2020 20:56	72
14/5/2020 21:56	73
14/5/2020 22:56	74
14/5/2020 23:56	63
15/5/2020 0:56	71
15/5/2020 1:56	73
15/5/2020 2:56	77
15/5/2020 3:56	70
15/5/2020 4:56	72
15/5/2020 5:56	79
15/5/2020 6:56	68
15/5/2020 7:56	73
15/5/2020 8:56	79
Average	71
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
20/5/2020 10:02	64
20/5/2020 11:02	87
20/5/2020 12:02	94
20/5/2020 13:02	82
20/5/2020 14:02	73
20/5/2020 15:02	93
20/5/2020 16:02	71
20/5/2020 17:02	82
20/5/2020 18:02	74
20/5/2020 19:02	73
20/5/2020 20:02	91
20/5/2020 21:02	90
20/5/2020 22:02	81
20/5/2020 23:02	87
21/5/2020 0:02	78
21/5/2020 1:02	85
21/5/2020 2:02	81
21/5/2020 3:02	94
21/5/2020 4:02	82
21/5/2020 5:02	81
21/5/2020 6:02	85
21/5/2020 7:02	79
21/5/2020 8:02	81
21/5/2020 9:02	91
Average	82
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
26/5/2020 10:00	60
26/5/2020 11:00	86
26/5/2020 12:00	95
26/5/2020 13:00	82
26/5/2020 14:00	70
26/5/2020 15:00	85
26/5/2020 16:00	82
26/5/2020 17:00	88
26/5/2020 18:00	70
26/5/2020 19:00	80
26/5/2020 20:00	86
26/5/2020 21:00	85
26/5/2020 22:00	90
26/5/2020 23:00	91
27/5/2020 0:00	77
27/5/2020 1:00	91
27/5/2020 2:00	89
27/5/2020 3:00	88
27/5/2020 4:00	77
27/5/2020 5:00	83
27/5/2020 6:00	87
27/5/2020 7:00	82
27/5/2020 8:00	86
27/5/2020 9:00	88
Average	83
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS14 - Ha Wo Che

Date and Time	TSP Concentration (μg/m³)
1/4/2020 10:02	59
1/4/2020 11:02	55
1/4/2020 12:02	57
1/4/2020 13:02	81
1/4/2020 14:02	64
1/4/2020 15:02	63
1/4/2020 16:02	68
1/4/2020 17:02	69
1/4/2020 18:02	75
1/4/2020 19:02	67
1/4/2020 20:02	80
1/4/2020 21:02	71
1/4/2020 22:02	79
1/4/2020 23:02	76
2/4/2020 0:02	68
2/4/2020 1:02	69
2/4/2020 2:02	77
2/4/2020 3:02	71
2/4/2020 4:02	67
2/4/2020 5:02	76
2/4/2020 6:02	80
2/4/2020 7:02	79
2/4/2020 8:02	80
2/4/2020 9:02	80
Average	71
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
7/4/2020 9:51	40
7/4/2020 10:51	48
7/4/2020 11:51	48
7/4/2020 12:51	49
7/4/2020 13:51	51
7/4/2020 14:51	46
7/4/2020 15:51	53
7/4/2020 16:51	56
7/4/2020 17:51	57
7/4/2020 18:51	57
7/4/2020 19:51	65
7/4/2020 20:51	61
7/4/2020 21:51	72
7/4/2020 22:51	68
7/4/2020 23:51	68
8/4/2020 0:51	63
8/4/2020 1:51	65
8/4/2020 2:51	59
8/4/2020 3:51	57
8/4/2020 4:51	67
8/4/2020 5:51	65
8/4/2020 6:51	68
8/4/2020 7:51	68
8/4/2020 8:51	67
Average	59
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
9/4/2020 9:56	57
9/4/2020 10:56	60
9/4/2020 11:56	61
9/4/2020 12:56	56
9/4/2020 13:56	70
9/4/2020 14:56	61
9/4/2020 15:56	66
9/4/2020 16:56	67
9/4/2020 17:56	69
9/4/2020 18:56	64
9/4/2020 19:56	82
9/4/2020 20:56	70
9/4/2020 21:56	86
9/4/2020 22:56	78
9/4/2020 23:56	83
10/4/2020 0:56	82
10/4/2020 1:56	78
10/4/2020 2:56	66
10/4/2020 3:56	74
10/4/2020 4:56	79
10/4/2020 5:56	81
10/4/2020 6:56	77
10/4/2020 7:56	78
10/4/2020 8:56	73
Average	72
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
15/4/2020 10:08	52
15/4/2020 11:08	58
15/4/2020 12:08	56
15/4/2020 13:08	68
15/4/2020 14:08	65
15/4/2020 15:08	59
15/4/2020 16:08	68
15/4/2020 17:08	71
15/4/2020 18:08	75
15/4/2020 19:08	64
15/4/2020 20:08	84
15/4/2020 21:08	79
15/4/2020 22:08	79
15/4/2020 23:08	80
16/4/2020 0:08	82
16/4/2020 1:08	74
16/4/2020 2:08	74
16/4/2020 3:08	74
16/4/2020 4:08	70
16/4/2020 5:08	80
16/4/2020 6:08	75
16/4/2020 7:08	83
16/4/2020 8:08	80
16/4/2020 9:08	75
Average	72
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
21/4/2020 10:01	59
21/4/2020 11:01	63
21/4/2020 12:01	66
21/4/2020 13:01	58
21/4/2020 14:01	60
21/4/2020 15:01	55
21/4/2020 16:01	69
21/4/2020 17:01	68
21/4/2020 18:01	72
21/4/2020 19:01	71
21/4/2020 20:01	83
21/4/2020 21:01	80
21/4/2020 22:01	79
21/4/2020 23:01	76
22/4/2020 0:01	81
22/4/2020 1:01	80
22/4/2020 2:01	74
22/4/2020 3:01	75
22/4/2020 4:01	70
22/4/2020 5:01	82
22/4/2020 6:01	75
22/4/2020 7:01	80
22/4/2020 8:01	80
22/4/2020 9:01	77
Average	72
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
27/4/2020 10:03	58
27/4/2020 11:03	55
27/4/2020 12:03	65
27/4/2020 13:03	68
27/4/2020 14:03	66
27/4/2020 15:03	84
27/4/2020 16:03	65
27/4/2020 17:03	63
27/4/2020 18:03	68
27/4/2020 19:03	74
27/4/2020 20:03	77
27/4/2020 21:03	77
27/4/2020 22:03	79
27/4/2020 23:03	79
28/4/2020 0:03	76
28/4/2020 1:03	76
28/4/2020 2:03	78
28/4/2020 3:03	75
28/4/2020 4:03	68
28/4/2020 5:03	81
28/4/2020 6:03	83
28/4/2020 7:03	77
28/4/2020 8:03	76
28/4/2020 9:03	69
Average	72
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-hour TSP Impact Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS 15 - Ha Wo Che

Date and Time	TSP Concentration (μg/m³)
4/3/2020 9:19	73
4/3/2020 10:19	77
4/3/2020 11:19	78
4/3/2020 12:19	65
4/3/2020 13:19	68
4/3/2020 14:19	74
4/3/2020 15:19	66
4/3/2020 16:19	68
4/3/2020 17:19	69
4/3/2020 18:19	56
4/3/2020 19:19	57
4/3/2020 20:19	54
4/3/2020 21:19	66
4/3/2020 22:19	61
4/3/2020 23:19	56
5/3/2020 0:19	49
5/3/2020 1:19	59
5/3/2020 2:19	53
5/3/2020 3:19	66
5/3/2020 4:19	44
5/3/2020 5:19	49
5/3/2020 6:19	45
5/3/2020 7:19	55
5/3/2020 8:19	69
Average	62
Action Level	172
Limit Level	260

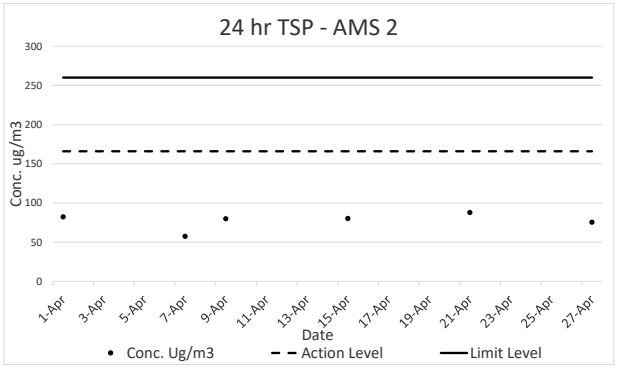
Date and Time	TSP Concentration (μg/m³)
10/3/2020 9:48	58
10/3/2020 10:48	60
10/3/2020 11:48	58
10/3/2020 12:48	67
10/3/2020 13:48	67
10/3/2020 14:48	48
10/3/2020 15:48	62
10/3/2020 16:48	67
10/3/2020 17:48	66
10/3/2020 18:48	61
10/3/2020 19:48	52
10/3/2020 20:48	43
10/3/2020 21:48	76
10/3/2020 22:48	61
10/3/2020 23:48	50
11/3/2020 0:48	50
11/3/2020 1:48	61
11/3/2020 2:48	53
11/3/2020 3:48	62
11/3/2020 4:48	44
11/3/2020 5:48	51
11/3/2020 6:48	51
11/3/2020 7:48	59
11/3/2020 8:48	48
Average	82
Action Level	172
Limit Level	260

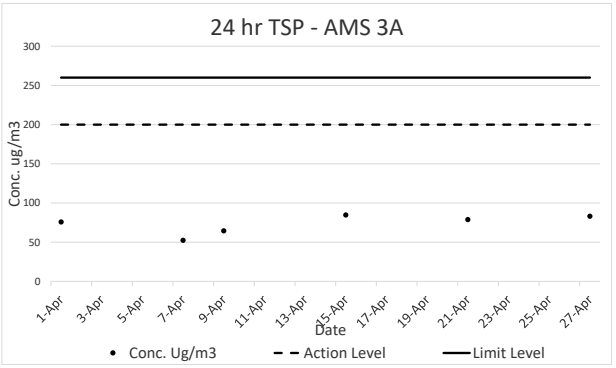
Date and Time	TSP Concentration (μg/m³)
16/3/2020 9:31	75
16/3/2020 10:31	79
16/3/2020 11:31	63
16/3/2020 12:31	63
16/3/2020 13:31	78
16/3/2020 14:31	59
16/3/2020 15:31	80
16/3/2020 16:31	74
16/3/2020 17:31	71
16/3/2020 18:31	74
16/3/2020 19:31	70
16/3/2020 20:31	64
16/3/2020 21:31	86
16/3/2020 22:31	76
16/3/2020 23:31	75
17/3/2020 0:31	66
17/3/2020 1:31	79
17/3/2020 2:31	61
17/3/2020 3:31	76
17/3/2020 4:31	59
17/3/2020 5:31	68
17/3/2020 6:31	68
17/3/2020 7:31	75
17/3/2020 8:31	57
Average	71
Action Level	172
Limit Level	260

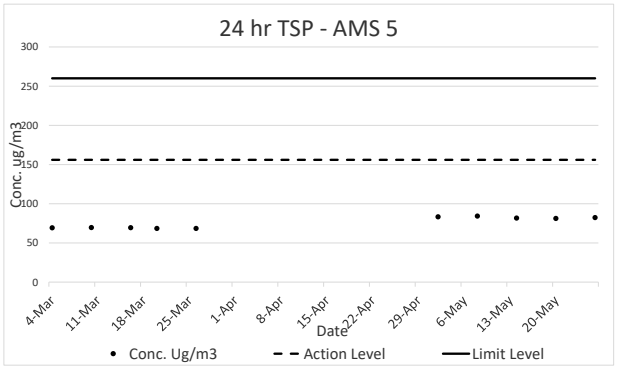
Date and Time	TSP Concentration (μg/m³)
20/3/2020 9:07	67
20/3/2020 10:07	75
20/3/2020 11:07	85
20/3/2020 12:07	73
20/3/2020 13:07	77
20/3/2020 14:07	50
20/3/2020 15:07	74
20/3/2020 16:07	74
20/3/2020 17:07	80
20/3/2020 18:07	66
20/3/2020 19:07	71
20/3/2020 20:07	70
20/3/2020 21:07	81
20/3/2020 22:07	70
20/3/2020 23:07	71
21/3/2020 0:07	62
21/3/2020 1:07	75
21/3/2020 2:07	59
21/3/2020 3:07	68
21/3/2020 4:07	63
21/3/2020 5:07	65
21/3/2020 6:07	69
21/3/2020 7:07	76
21/3/2020 8:07	62
Average	70
Action Level	172
Limit Level	260

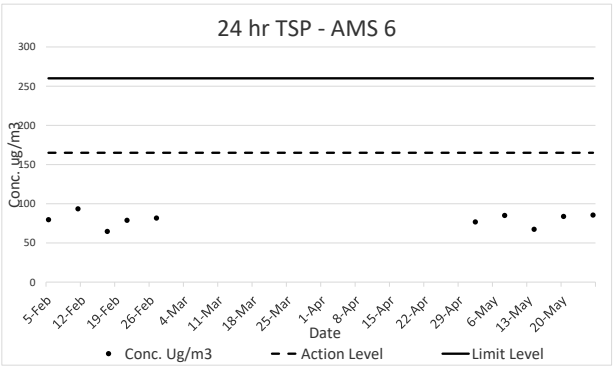
Date and Time	TSP Concentration (μg/m³)
26/3/2020 9:58	72
26/3/2020 10:58	82
26/3/2020 11:58	63
26/3/2020 12:58	73
26/3/2020 13:58	78
26/3/2020 14:58	51
26/3/2020 15:58	82
26/3/2020 16:58	79
26/3/2020 17:58	75
26/3/2020 18:58	65
26/3/2020 19:58	76
26/3/2020 20:58	70
26/3/2020 21:58	80
26/3/2020 22:58	72
26/3/2020 23:58	75
27/3/2020 0:58	65
27/3/2020 1:58	81
27/3/2020 2:58	57
27/3/2020 3:58	71
27/3/2020 4:58	55
27/3/2020 5:58	60
27/3/2020 6:58	62
27/3/2020 7:58	68
27/3/2020 8:58	59
Average	70
Action Level	172
Limit Level	260

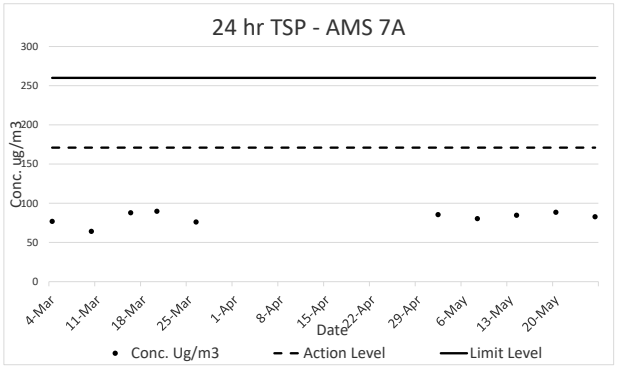
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

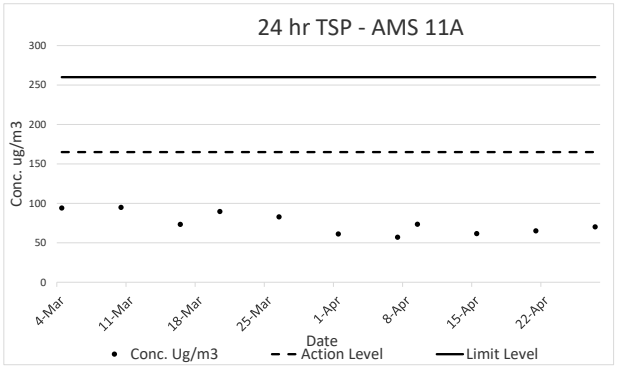

24 hr TSP - AMS 2
Conc. ug/m3
300
250
200
150
100
50
0
1-Apr
3-Apr
5-Apr
7-Apr
9-Apr
11-Apr
13-Apr
15-Apr
17-Apr
19-Apr
21-Apr
23-Apr
25-Apr
27-Apr
Date
Conc. Ug/m3
Action Level
Limit Level

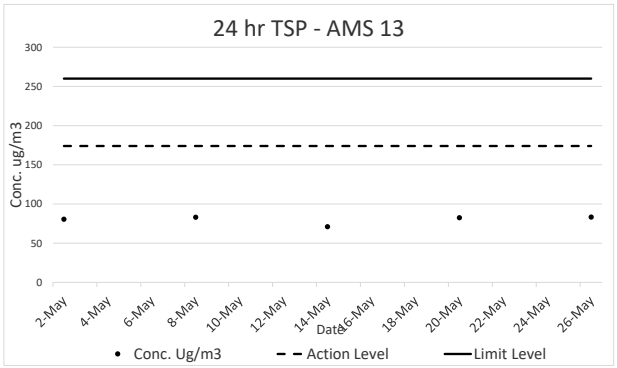

24 hr TSP - AMS 3A
Conc. ug/m3
300
250
200
150
100
50
0
1-Apr
3-Apr
5-Apr
7-Apr
9-Apr
11-Apr
13-Apr
15-Apr
17-Apr
19-Apr
21-Apr
23-Apr
25-Apr
27-Apr
Date
Conc. Ug/m3
Action Level
Limit Level

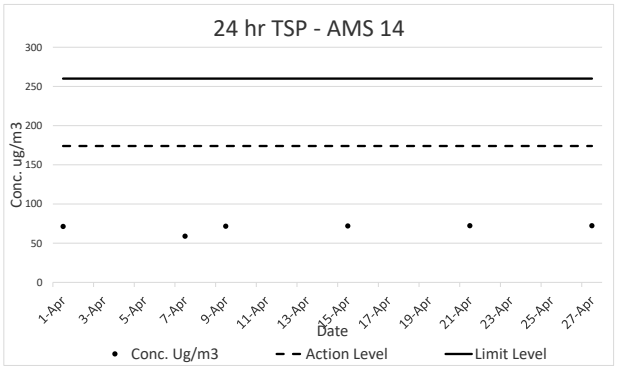

24 hr TSP - AMS 5
Conc. ug/m3
300
250
200
150
100
50
0
4-Mar
11-Mar
18-Mar
25-Mar
1-Apr
8-Apr
15-Apr
22-Apr
29-Apr
6-May
13-May
20-May
Date
Conc. Ug/m3
Action Level
Limit Level

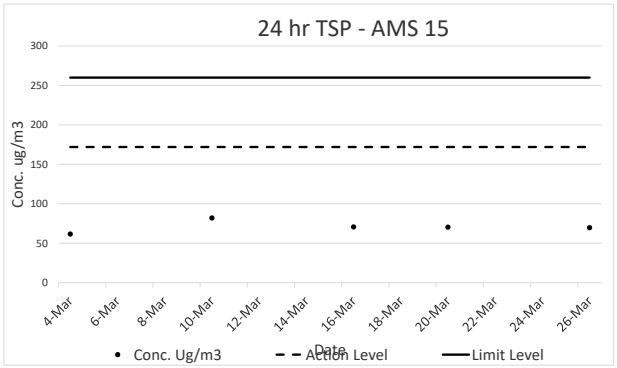

24 hr TSP - AMS 6
Conc. ug/m3
300
250
200
150
100
50
0
5-Feb
12-Feb
19-Feb
26-Feb
4-Mar
11-Mar
18-Mar
25-Mar
1-Apr
8-Apr
15-Apr
22-Apr
29-Apr
6-May
13-May
20-May
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 7A
Conc. ug/m3
300
250
200
150
100
50
0
4-Mar
11-Mar
18-Mar
25-Mar
1-Apr
8-Apr
15-Apr
22-Apr
29-Apr
6-May
13-May
20-May
Date
Conc. Ug/m3
Action Level
Limit Level


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


24 hr TSP - AMS 13
Conc. ug/m3
300
250
200
150
100
50
0
2-May
4-May
6-May
8-May
10-May
12-May
14-May
16-May
18-May
20-May
22-May
24-May
26-May
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 14
Conc. ug/m3
300
250
200
150
100
50
0
1-Apr
3-Apr
5-Apr
7-Apr
9-Apr
11-Apr
13-Apr
15-Apr
17-Apr
19-Apr
21-Apr
23-Apr
25-Apr
27-Apr
Date
Conc. Ug/m3
Action Level
Limit Level


24 hr TSP - AMS 15
Conc. ug/m3
300
250
200
150
100
50
0
4-Mar
6-Mar
8-Mar
10-Mar
12-Mar
14-Mar
16-Mar
18-Mar
20-Mar
22-Mar
24-Mar
26-Mar
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						
6-Feb-20	8:30	64.4	61.0	66.5		64.4	Sunny	0.6
12-Feb-20	8:33	66.1	63.0	69.0		66.1	Fine	0.8
18-Feb-20	8:36	68.6	66.0	70.3		68.6	Fine	0.8
28-Feb-20	8:38	66.9	63.5	70.1		66.9	Fine	0.7
5-Mar-20	8:21	67.4	65.0	69.5		67.4	Fine	1.3
11-Mar-20	8:26	68.5	63.8	70.1		68.5	Fine	1.0
17-Mar-20	8:29	68.2	62.8	69.8		68.2	Sunny	0.6
27-Mar-20	8:33	67.7	64.2	73.1		67.7	Fine	0.8
2-Apr-20	8:33	67.2	64.1	68.8	75	67.2	Fine	0.5
8-Apr-20	8:30	66.9	65.5	68.0		66.9	Fine	0.7
16-Apr-20	8:04	66.7	64.6	68.8		66.7	Sunny	0.6
22-Apr-20	8:34	67.3	65.0	69.0		67.3	Fine	0.4
28-Apr-20	8:34	66.9	63.8	70.2		66.9	Fine	1.1
5-May-20	8:30	66.8	65.8	68.8		66.8	Sunny	0.6
15-May-20	8:40	66.7	64.7	67.7		66.7	Sunny	0.8
21-May-20	8:26	65.3	63.3	68.3		65.3	Overcast	0.8
27-May-20	8:44	66.9	65.9	69.9		66.9	Fine	0.5

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						
6-Feb-20	9:07	64.1	62.0	66.0		64.1	Sunny	0.8
12-Feb-20	11:36	57.6	51.5	59.0		57.6	Fine	0.5
18-Feb-20	8:59	64.0	57.5	66.7		64.0	Fine	0.6
28-Feb-20	11:44	62.3	57.4	64.5		62.3	Fine	0.9
5-Mar-20	10:56	56.1	51.0	58.5		56.1	Fine	0.7
11-Mar-20	10:33	60.8	53.0	66.7		60.8	Fine	0.9
17-Mar-20	10:50	61.2	53.9	64.3		61.2	Sunny	0.8
27-Mar-20	10:55	59.7	51.2	63.9		59.7	Fine	0.8
2-Apr-20	9:48	61.1	54.4	63.2	75	61.1	Fine	0.6
8-Apr-20	9:45	58.6	53.0	60.0		58.6	Fine	0.7
16-Apr-20	9:43	62.8	60.1	64.5		62.8	Sunny	0.8
22-Apr-20	8:30	56.1	52.5	57.0		56.1	Fine	0.9
28-Apr-20	9:49	60.2	57.3	67.2		60.2	Fine	1.1
5-May-20	9:50	61.3	59.3	64.3		61.3	Sunny	0.6
15-May-20	9:48	60.3	58.3	63.3		60.3	Sunny	0.8
21-May-20	9:51	61.4	60.4	63.4		61.4	Overcast	0.8
27-May-20	9:49	59.7	57.7	60.7		59.7	Fine	0.5

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						
6-Feb-20	9:41	65.5	63.0	67.5		65.5	Sunny	0.4
12-Feb-20	9:10	67.4	64.5	68.5		67.4	Fine	0.7
18-Feb-20	9:33	66.9	63.4	69.4		66.9	Fine	0.6
28-Feb-20	9:12	68.9	66.4	71.1		68.9	Fine	0.8
5-Mar-20	9:10	68.9	66.0	71.5		68.9	Fine	0.4
11-Mar-20	9:13	70.1	63.2	73.6		70.1	Fine	0.9
17-Mar-20	9:08	68.7	64.3	72.1		68.7	Sunny	0.8
27-Mar-20	9:19	69.5	65.5	73.2		69.5	Fine	0.9
2-Apr-20	9:11	68.9	66.1	71.5	75	68.9	Fine	0.4
8-Apr-20	9:07	70.6	68.0	72.0		70.6	Fine	0.8
16-Apr-20	8:56	68.2	65.3	70.3		68.2	Sunny	0.6
22-Apr-20	9:14	68.6	66.0	71.5		68.6	Fine	1.1
28-Apr-20	8:59	68.1	66.3	70.1		68.1	Fine	0.6
5-May-20	9:14	69.2	68.2	70.2		69.2	Sunny	0.6
15-May-20	9:12	68.7	66.7	70.7		68.7	Sunny	0.7
21-May-20	9:17	69.3	67.3	71.3		69.3	Overcast	0.8
27-May-20	9:16	70.2	69.2	73.2		70.2	Fine	0.5

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						
6-Feb-20	10:19	65.8	63.5	68.0		65.8	Sunny	0.7
12-Feb-20	16:20	70.6	67.0	72.5		70.6	Fine	0.8
18-Feb-20	9:35	68.7	65.2	71.1		68.7	Fine	0.6
28-Feb-20	16:22	69.1	64.8	73.2		69.1	Fine	0.9
5-Mar-20	11:30	67.0	65.5	68.8		67.0	Fine	0.8
11-Mar-20	11:38	70.5	66.1	72.9		70.5	Fine	1.1
17-Mar-20	11:29	71.1	64.8	73.5		71.1	Sunny	0.6
27-Mar-20	11:36	68.7	63.1	74.3		68.7	Fine	0.8
2-Apr-20	10:23	68.2	65.4	69.8	75	68.2	Fine	0.5
8-Apr-20	10:19	68.7	66.5	70.5		68.7	Fine	0.9
16-Apr-20	9:39	70.6	68.0	73.2		70.6	Sunny	0.6
22-Apr-20	10:21	69.2	65.0	71.5		69.2	Fine	0.6
28-Apr-20	9:42	70.3	66.9	71.1		70.3	Fine	0.8
5-May-20	10:20	69.4	68.4	70.4		69.4	Sunny	0.6
15-May-20	10:17	68.4	66.4	69.4		68.4	Sunny	0.8
21-May-20	10:22	68.6	66.6	71.6		68.6	Overcast	0.8
27-May-20	10:18	69.8	67.8	72.8		69.8	Fine	0.5

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						
6-Feb-20	10:58	66.7	64.5	69.0		66.7	Fine	0.6
12-Feb-20	9:52	72.6	68.5	75.5		72.6	Sunny	0.3
18-Feb-20	10:45	69.3	67.0	71.5		69.3	Fine	0.6
28-Feb-20	9:57	68.3	66.2	70.8		68.3	Sunny	0.6
5-Mar-20	9:44	72.6	68.5	74.5		72.6	Fine	0.6
11-Mar-20	9:44	72.6	68.5	74.5		72.6	Fine	0.6
17-Mar-20	9:51	70.5	65.4	73.1		70.5	Sunny	0.6
27-Mar-20	9:43	69.4	63.1	72.5		69.4	Fine	0.7
2-Apr-20	16:31	73.3	68.4	75.2	75	73.3	Fine	0.6
8-Apr-20	16:32	73.4	69.0	76.5		73.4	Fine	0.9
16-Apr-20	15:47	71.6	67.1	74.3		71.6	Sunny	0.8
22-Apr-20	10:00	73.5	69.0	75.5		73.5	Fine	0.7
28-Apr-20	15:50	72.1	69.4	75.6		72.1	Fine	0.8
5-May-20	16:29	72.6	70.6	75.6		72.6	Sunny	0.6
15-May-20	16:33	71.8	70.8	72.8		71.8	Sunny	0.9
21-May-20	16:27	72.4	70.4	74.4		72.4	Overcast	0.8
27-May-20	16:30	70.9	69.9	73.9		70.9	Fine	0.6

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						
6-Feb-20	11:38	65.7	63.5	67.5		65.7	Sunny	0.9
12-Feb-20	10:27	73.6	69.5	76.5		73.6	Fine	0.8
18-Feb-20	11:25	68.7	64.5	71.2		68.7	Fine	0.7
28-Feb-20	10:37	70.1	65.2	73.2		70.1	Fine	1.3
5-Mar-20	10:19	71.4	68.0	73.0		71.4	Fine	0.4
11-Mar-20	10:22	72.5	66.5	76.2		72.5	Fine	1.1
17-Mar-20	10:16	70.8	64.2	73.4		70.8	Sunny	0.8
27-Mar-20	10:23	73.9	67.8	73.6		73.9	Fine	0.6
2-Apr-20	15:50	71.8	67.5	73.5	75	71.8	Fine	0.5
8-Apr-20	15:52	72.6	68.5	75.5		72.6	Fine	0.8
16-Apr-20	15:06	72.8	68.7	74.3		72.8	Sunny	0.9
22-Apr-20	10:00	72.6	68.5	75.0		72.6	Fine	0.9
28-Apr-20	15:09	72.3	69.4	75.6		72.3	Fine	0.7
5-May-20	15:48	70.3	68.3	72.3		70.3	Sunny	0.6
15-May-20	15:45	71.6	70.6	73.6		71.6	Sunny	1.0
21-May-20	15:52	71.4	70.4	72.4		71.4	Overcast	0.7
27-May-20	15:47	71.1	69.1	73.1		71.1	Fine	0.6

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						
6-Feb-20	8:42	71.0	67.5	73.2	75	71.0	Sunny	0.9
12-Feb-20	15:46	73.1	68.5	76.0		73.1	Fine	0.8
18-Feb-20	8:50	70.2	67.4	73.5		70.2	Fine	0.9
28-Feb-20	15:50	70.4	66.7	74.8		70.4	Fine	0.9
5-Mar-20	13:04	72.2	67.5	74.5		72.2	Fine	0.5
11-Mar-20	13:02	71.1	68.4	74.4		71.1	Fine	1.1
17-Mar-20	12:57	70.5	67.7	74.3		70.5	Sunny	0.6
27-Mar-20	13:05	70.8	66.9	73.8		70.8	Fine	0.9
2-Apr-20	13:06	71.2	64.0	73.4		71.2	Fine	0.6
8-Apr-20	13:04	65.2	61.5	66.5		65.2	Fine	0.5
16-Apr-20	12:22	70.6	67.2	73.7		70.6	Sunny	0.8
22-Apr-20	13:06	74.2	69.5	77.0		74.2	Fine	0.5
28-Apr-20	12:25	70.3	68.2	72.0		70.3	Fine	0.9
5-May-20	13:11	71.3	70.3	72.3		71.3	Sunny	0.6
15-May-20	13:05	70.4	69.4	73.4		70.4	Sunny	0.9
21-May-20	13:07	69.7	68.7	70.7		69.7	Overcast	0.9
27-May-20	13:14	69.8	67.8	70.8		69.8	Fine	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						
5-Feb-20	8:30	71.1	67.5	73.5	75	71.1	Sunny	0.4
11-Feb-20	16:20	68.4	65.5	70.5		68.4	Fine	0.4
17-Feb-20	8:38	69.7	66.3	70.9		69.7	Fine	0.9
27-Feb-20	16:31	69.2	66.3	71.9		69.2	Fine	1.2
4-Mar-20	9:06	71.1	67.5	72.5		71.1	Fine	0.9
10-Mar-20	9:00	70.3	68.1	74.2		70.3	Fine	1.1
16-Mar-20	8:41	69.5	66.7	72.3		69.5	Sunny	0.6
26-Mar-20	9:02	69.1	64.0	74.0		69.1	Fine	0.8
1-Apr-20	15:31	70.2	67.0	71.5		70.2	Sunny	0.5
7-Apr-20	15:30	68.6	66.0	71.0		68.6	Fine	0.7
15-Apr-20	15:31	71.3	69.4	73.6		71.3	Sunny	0.6
21-Apr-20	9:42	66.8	65.5	68.0		66.8	Fine	0.2
27-Apr-20	15:33	70.6	68.5	72.3		70.6	Fine	0.9
4-May-20	15:30	68.7	67.7	69.7		68.7	Sunny	0.5
14-May-20	15:33	70.3	69.3	72.3		70.3	Sunny	1.0
20-May-20	15:39	71.8	69.8	72.8		71.8	Fine	0.6
26-May-20	15:34	69.8	67.8	70.8		69.8	Fine	0.7

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						
5-Feb-20	9:42	66.5	64.0	68.0	75	66.5	Sunny	1.1
11-Feb-20	13:42	66.5	63.0	67.5		66.5	Fine	0.8
17-Feb-20	9:49	69.0	66.1	72.6		69.0	Fine	0.7
27-Feb-20	13:44	69.5	65.4	72.7		69.5	Fine	1.1
4-Mar-20	9:43	66.1	64.0	67.5		66.1	Fine	0.5
10-Mar-20	9:44	65.9	62.8	70.2		65.9	Fine	1.0
16-Mar-20	9:51	68.7	62.4	69.2		68.7	Sunny	0.6
26-Mar-20	10:52	69.2	63.4	70.5		69.2	Fine	0.9
1-Apr-20	16:44	66.2	62.8	67.4		66.2	Sunny	0.5
7-Apr-20	16:41	67.3	65.0	69.0		67.3	Fine	1.0
15-Apr-20	16:00	69.1	64.7	70.9		69.1	Sunny	0.6
21-Apr-20	10:59	65.2	62.0	67.0		65.2	Fine	0.6
27-Apr-20	16:03	69.0	63.8	71.8		69.0	Fine	1.1
4-May-20	16:47	67.7	65.7	70.7		67.7	Sunny	0.6
14-May-20	16:50	67.4	65.4	69.4		67.4	Sunny	0.9
20-May-20	16:48	68.8	67.8	70.8		68.8	Fine	0.9
26-May-20	16:45	66.9	65.9	68.9		66.9	Fine	0.7

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						
5-Feb-20	10:20	64.0	61.0	65.5		64.0	Sunny	0.6
11-Feb-20	14:52	64.1	61.0	65.5		64.1	Fine	1.2
17-Feb-20	9:36	64.7	62.3	66.9		64.7	Fine	0.8
27-Feb-20	14:57	66.8	63.5	69.7		66.8	Fine	0.9
4-Mar-20	10:18	64.5	61.0	65.5		64.5	Fine	0.7
10-Mar-20	10:22	65.6	60.2	69.4		65.6	Fine	1.1
16-Mar-20	10:06	64.8	61.3	66.5		64.8	Sunny	0.7
26-Mar-20	13:44	63.8	60.7	70.3		63.8	Fine	0.9
1-Apr-20	14:55	65.2	62.1	68.2	70	65.2	Sunny	0.6
7-Apr-20	14:54	63.8	59.5	65.0		63.8	Fine	0.6
15-Apr-20	14:11	64.6	62.7	68.8		64.6	Sunny	0.6
21-Apr-20	11:38	62.3	60.0	64.0		62.3	Fine	0.8
27-Apr-20	14:14	65.3	63.1	68.7		65.3	Fine	1.0
4-May-20	14:50	64.4	63.4	65.4		64.4	Sunny	0.5
14-May-20	14:53	64.2	63.2	66.2		64.2	Sunny	1.0
20-May-20	14:57	63.9	61.9	66.9		63.9	Fine	0.6
26-May-20	14:52	64.0	63.0	65.0		64.0	Fine	0.7

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						
5-Feb-20	16:24	65.3	63.5	66.5		65.3	Sunny	0.7
11-Feb-20	9:06	64.8	62.0	65.5		64.8	Fine	0.5
17-Feb-20	16:16	67.4	62.9	70.1		67.4	Fine	0.8
27-Feb-20	9:08	67.2	64.5	70.7		67.2	Fine	1.3
4-Mar-20	16:04	66.2	63.5	67.5		66.2	Fine	1.2
10-Mar-20	16:00	65.4	63.0	67.5		65.4	Fine	1.1
16-Mar-20	16:10	66.7	62.8	70.0		66.7	Sunny	0.7
26-Mar-20	16:14	68.2	63.4	71.2		68.2	Fine	0.6
1-Apr-20	13:46	68.1	63.2	69.1	75	68.1	Sunny	0.6
7-Apr-20	13:44	67.4	65.5	69.0		67.4	Fine	0.6
15-Apr-20	13:02	67.1	64.3	70.3		67.1	Sunny	0.8
21-Apr-20	10:27	62.3	59.5	64.5		62.3	Fine	0.3
27-Apr-20	13:05	68.2	64.6	69.7		68.2	Fine	1.1
4-May-20	13:44	69.2	68.2	72.2		69.2	Sunny	0.5
14-May-20	13:48	68.7	66.7	71.7		68.7	Sunny	0.9
20-May-20	13:46	69.4	68.4	72.4		69.4	Fine	0.8
26-May-20	13:40	68.5	67.5	71.5		68.5	Fine	0.7

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						
5-Feb-20	10:52	64.3	62.0	66.5		64.3	Sunny	0.7
11-Feb-20	14:16	63.5	59.5	64.5		63.5	Fine	1.1
17-Feb-20	10:43	65.3	63.1	68.4		65.3	Fine	0.9
27-Feb-20	14:26	64.3	62.3	67.3		64.3	Fine	0.7
4-Mar-20	10:55	64.8	61.5	66.5		64.8	Fine	0.8
10-Mar-20	11:01	65.6	60.5	68.3		65.6	Fine	0.9
16-Mar-20	10:58	68.4	63.6	70.3		68.4	Sunny	0.9
26-Mar-20	11:03	66.9	62.4	69.0		66.9	Fine	0.8
1-Apr-20	11:33	65.0	62.4	68.8	70	65.0	Sunny	0.6
7-Apr-20	11:36	64.3	60.0	65.5		64.3	Fine	0.6
15-Apr-20	10:49	66.2	63.1	68.2		66.2	Sunny	0.8
21-Apr-20	13:08	63.3	56.5	65.0		63.3	Fine	0.5
27-Apr-20	10:52	64.5	63.0	68.4		64.5	Fine	1.1
4-May-20	11:22	64.8	62.8	65.8		64.8	Sunny	0.5
14-May-20	11:30	64.9	62.9	65.9		64.9	Sunny	1.0
20-May-20	11:36	65.3	63.3	66.3		65.3	Fine	0.6
26-May-20	11:26	64.2	62.2	67.2		64.2	Fine	0.7

Calculated CNL = Measured Noise Level during operation – Baseline (dB(A)).

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						
5-Feb-20	11:32	68.1	66.0	71.5		68.1	Sunny	0.9
11-Feb-20	15:42	67.6	65.5	69.0		67.6	Fine	0.6
17-Feb-20	11:24	67.1	62.9	69.7		67.1	Fine	0.8
27-Feb-20	15:46	67.9	64.3	68.6		67.9	Fine	0.9
4-Mar-20	11:31	68.1	66.0	70.5		68.1	Fine	1.1
10-Mar-20	11:36	67.5	62.1	70.3		67.5	Fine	1.0
16-Mar-20	11:40	69.1	64.5	71.1		69.1	Sunny	0.8
26-Mar-20	11:33	68.0	63.7	70.9		68.0	Fine	0.9
1-Apr-20	11:05	68.2	62.7	70.3	75	68.2	Sunny	0.5
7-Apr-20	10:59	66.4	64.8	68.0		66.4	Fine	1.1
15-Apr-20	10:21	67.8	64.5	70.5		67.8	Sunny	0.6
21-Apr-20	13:43	65.7	62.5	68.5		65.7	Fine	0.3
27-Apr-20	10:24	68.4	65.1	71.3		68.4	Fine	0.6
4-May-20	11:03	69.3	67.3	71.3		69.3	Sunny	0.5
14-May-20	10:55	68.4	67.4	69.4		68.4	Sunny	1.1
20-May-20	11:10	69.8	67.8	72.8		69.8	Fine	0.6
27-May-20	11:16	67.4	66.4	70.4		67.4	Fine	0.3

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						
5-Feb-20	15:42	66.8	64.0	67.5		66.8	Sunny	0.9
11-Feb-20	9:40	65.7	64.0	67.0		65.7	Fine	0.7
17-Feb-20	15:36	67.4	64.5	69.4		67.4	Fine	0.6
27-Feb-20	9:45	66.7	63.8	70.1		66.7	Fine	0.9
4-Mar-20	15:28	65.8	64.0	67.0		65.8	Fine	0.6
10-Mar-20	15:20	65.7	62.1	70.2		65.7	Fine	1.0
16-Mar-20	15:19	67.1	63.4	71.1		67.1	Sunny	0.7
26-Mar-20	10:13	68.2	63.1	72.3		68.2	Fine	0.8
1-Apr-20	14:22	68.2	64.3	71.5	75	68.2	Sunny	0.5
7-Apr-20	14:20	66.9	64.5	68.0		66.9	Fine	0.4
15-Apr-20	13:38	67.3	64.8	71.1		67.3	Sunny	0.8
21-Apr-20	11:03	61.1	58.5	63.5		61.1	Fine	0.9
27-Apr-20	13:41	66.2	64.2	68.6		66.2	Fine	1.3
4-May-20	14:20	69.5	67.5	70.5		69.5	Sunny	0.5
14-May-20	14:33	65.8	64.8	66.8		65.8	Sunny	0.4
20-May-20	14:40	68.7	67.7	70.7		68.7	Fine	0.8
26-May-20	14:36	69.4	67.4	71.4		69.4	Fine	0.9

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						
6-Feb-20	14:44	65.8	62.5	67.0		65.8	Sunny	0.9
12-Feb-20	15:09	67.1	64.5	69.0		67.1	Fine	0.5
18-Feb-20	14:38	64.8	62.7	69.8		64.8	Fine	0.9
28-Feb-20	15:06	64.8	63.4	68.8		64.8	Fine	1.1
5-Mar-20	14:15	66.5	63.0	67.5		66.5	Fine	0.5
11-Mar-20	14:16	67.2	61.3	69.1		67.2	Fine	1.0
17-Mar-20	14:20	66.8	62.8	70.5		66.8	Sunny	0.8
27-Mar-20	14:13	65.3	61.7	71.3		65.3	Fine	0.7
2-Apr-20	15:08	67.3	63.2	69.4	75	67.3	Fine	0.6
8-Apr-20	15:11	66.7	65.0	68.0		66.7	Fine	0.4
16-Apr-20	14:24	66.0	64.2	70.5		66.0	Sunny	0.8
22-Apr-20	15:13	66.4	63.5	68.7		66.4	Fine	0.5
28-Apr-20	14:27	67.2	64.5	68.4		67.2	Fine	1.1
5-May-20	15:10	68.4	66.4	71.4		68.4	Sunny	0.6
15-May-20	15:05	67.4	65.4	70.4		67.4	Sunny	0.4
21-May-20	15:15	68.7	67.7	69.7		68.7	Overcast	0.8
27-May-20	15:08	68.3	66.3	69.3		68.3	Fine	0.5

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						
6-Feb-20	9:57	65.8	63.0	68.3	75	65.8	Sunny	1.0
12-Feb-20	14:36	65.8	63.0	67.0		65.8	Fine	0.9
18-Feb-20	9:13	67.4	64.1	68.0		67.4	Fine	0.8
28-Feb-20	14:38	66.1	63.7	67.8		66.1	Fine	0.9
5-Mar-20	15:31	67.6	64.5	68.5		67.6	Fine	0.6
11-Mar-20	15:37	66.8	61.5	70.3		66.8	Fine	0.9
17-Mar-20	15:26	67.0	62.1	69.7		67.0	Sunny	0.7
27-Mar-20	15:22	67.5	60.9	68.9		67.5	Fine	0.9
2-Apr-20	14:30	67.3	64.0	72.3		67.3	Fine	0.8
8-Apr-20	14:35	66.3	64.5	67.5		66.3	Fine	0.9
16-Apr-20	13:46	65.8	62.7	68.7		65.8	Sunny	0.7
22-Apr-20	14:37	67.5	64.3	71.3		67.5	Fine	0.6
28-Apr-20	13:49	67.3	63.4	72.1		67.3	Fine	0.8
5-May-20	14:37	66.5	65.5	69.5		66.5	Sunny	0.8
15-May-20	14:30	65.7	63.7	67.7		65.7	Sunny	0.9
21-May-20	14:31	67.3	65.3	69.3		67.3	Overcast	0.7
27-May-20	14:29	68.1	66.1	71.1		68.1	Fine	0.6

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						
5-Feb-20	13:20	63.9	59.0	65.0	70	63.9	Sunny	0.8
11-Feb-20	13:07	64.5	60.5	66.0		64.5	Fine	0.8
17-Feb-20	13:17	65.1	62.4	68.1		65.1	Fine	0.8
27-Feb-20	13:11	65.5	63.4	68.4		65.5	Fine	0.9
4-Mar-20	13:42	63.7	59.0	65.5		63.7	Fine	0.8
10-Mar-20	13:42	63.7	59.0	65.5		63.7	Fine	0.8
16-Mar-20	13:39	65.2	61.4	68.3		65.2	Sunny	0.8
26-Mar-20	13:43	64.9	60.4	67.9		64.9	Fine	0.7
1-Apr-20	9:44	64.2	62.3	69.7		64.2	Sunny	0.6
7-Apr-20	9:46	64.8	60.5	66.0		64.8	Fine	0.5
15-Apr-20	9:00	64.1	62.5	68.0		64.1	Sunny	0.8
21-Apr-20	13:41	60.4	56.5	63.0		60.4	Fine	0.5
27-Apr-20	9:03	64.4	62.3	68.5		64.4	Fine	1.1
4-May-20	9:48	65.2	64.2	67.2		65.2	Sunny	0.6
14-May-20	9:50	64.3	62.3	65.3		64.3	Sunny	0.5
20-May-20	9:52	64.1	62.1	67.1		64.1	Fine	0.8
26-May-20	9:49	63.8	62.8	64.8		63.8	Fine	0.5

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						
6-Feb-20	10:35	66.7	64.5	69.0	75	66.7*	Sunny	0.7
12-Feb-20	14:03	64.1	60.0	65.0		64.1	Fine	0.8
18-Feb-20	10:20	64.9	62.0	68.5		64.9	Fine	0.8
28-Feb-20	14:07	64.4	62.4	69.5		64.4	Fine	1.1
5-Mar-20	14:53	68.6	61.5	66.5		68.6	Fine	0.6
11-Mar-20	14:58	67.8	63.1	70.2		67.8	Fine	0.9
17-Mar-20	15:03	66.9	60.7	68.9		66.9	Sunny	0.7
27-Mar-20	14:49	68.3	61.8	69.7		68.3	Fine	0.8
2-Apr-20	14:00	65.2	60.9	67.3		65.2	Fine	0.6
8-Apr-20	14:02	65.4	63.5	66.5		65.4	Fine	0.8
16-Apr-20	13:16	64.7	62.5	68.5		64.7	Sunny	0.9
22-Apr-20	14:26	63.6	61.5	65.5		63.6	Fine	0.9
28-Apr-20	13:19	65.4	61.9	68.7		65.4	Fine	1.1
5-May-20	14:02	65.0	64.0	67.0		65.0	Sunny	0.6
15-May-20	14:03	64.9	63.9	67.9		64.9	Sunny	0.8
21-May-20	14:10	65.6	64.6	66.6		65.6	Overcast	0.9
27-May-20	14:09	66.1	65.1	67.1		66.1	Fine	1.1

Calculated CNL = Measured Noise Level during operation – Baseline (dB(A)).

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						
5-Feb-20	14:30	67.5	65.5	69.0		67.5	Sunny	0.6
11-Feb-20	10:49	68.1	67.0	70.0		68.1	Fine	0.6
17-Feb-20	14:38	67.1	64.3	71.1		67.1	Fine	0.9
27-Feb-20	10:40	68.2	65.3	71.0		68.2	Fine	0.8
4-Mar-20	13:00	67.5	64.5	69.0		67.5	Fine	0.4
10-Mar-20	12:57	68.1	63.4	70.5		68.1	Fine	0.9
16-Mar-20	13:06	67.5	62.8	68.8		67.5	Sunny	0.7
26-Mar-20	13:00	69.1	66.1	72.8		69.1	Fine	0.7
1-Apr-20	9:13	67.7	63.2	69.1	75	67.7	Sunny	0.6
7-Apr-20	9:11	67.6	66.0	69.0		67.6	Fine	0.9
15-Apr-20	8:29	67.1	64.7	68.9		67.1	Sunny	0.7
21-Apr-20	14:15	68.2	64.0	71.5		68.2	Fine	0.8
27-Apr-20	8:32	67.9	64.8	71.5		67.9	Fine	1.1
4-May-20	9:10	68.3	66.3	71.3		68.3	Sunny	0.5
14-May-20	9:14	67.2	65.2	69.2		67.2	Sunny	0.9
20-May-20	9:12	68.4	67.4	69.4		68.4	Fine	0.7
27-May-20	9:11	69.1	68.1	70.1		69.1	Fine	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						
5-Feb-20	15:06	67.9	66.5	70.0		67.9	Sunny	0.5
11-Feb-20	10:15	66.2	65.0	67.5		66.2	Fine	0.4
17-Feb-20	14:57	66.8	63.2	69.9		66.8	Fine	0.6
27-Feb-20	11:02	67.4	64.3	71.2		67.4	Fine	0.9
4-Mar-20	14:19	66.8	65.5	68.0		66.8	Fine	0.6
10-Mar-20	14:11	67.8	63.5	72.3		67.8	Fine	0.8
16-Mar-20	14:13	69.8	64.1	71.8		69.8	Sunny	0.7
26-Mar-20	14:22	71.1	66.8	74.1		71.1	Fine	0.7
1-Apr-20	8:41	67.5	63.4	69.3	75	67.5	Sunny	0.5
7-Apr-20	8:36	66.8	65.5	68.5		66.8	Fine	0.7
15-Apr-20	9:19	67.3	64.2	70.3		67.3	Sunny	0.8
21-Apr-20	14:49	63.4	59.0	65.5		63.4	Fine	0.4
27-Apr-20	9:22	69.3	67.3	71.3		69.3	Fine	0.9
4-May-20	8:40	69.2	68.2	71.2		69.2	Sunny	0.5
14-May-20	8:46	67.8	66.8	70.8		67.8	Sunny	0.6
20-May-20	8:44	67.4	66.4	68.4		67.4	Fine	0.8
26-May-20	8:50	68.3	66.3	71.3		68.3	Fine	0.4

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						
6-Feb-20	11:10	67.0	64.5	69.0		67.0	Sunny	0.7
12-Feb-20	11:02	66.9	65.0	68.0		66.9	Fine	0.7
18-Feb-20	10:26	67.3	64.8	72.0		67.3	Fine	0.8
28-Feb-20	11:09	68.2	66.2	69.7		68.2	Fine	0.8
5-Mar-20	13:39	66.7	65.5	68.0		66.7	Fine	0.9
11-Mar-20	13:44	65.2	61.3	68.1		65.2	Fine	1.0
17-Mar-20	13:40	67.8	62.9	70.2		67.8	Sunny	0.8
27-Mar-20	13:38	68.1	63.1	71.2	75	68.1	Fine	0.8
2-Apr-20	11:35	67.1	64.0	69.8		67.1	Fine	0.5
8-Apr-20	11:31	67.2	66.0	68.5		67.2	Fine	1.1
16-Apr-20	10:51	66.7	64.7	72.1		66.7	Sunny	0.8
22-Apr-20	11:21	66.1	62.5	67.5		66.1	Fine	0.6
28-Apr-20	10:56	70.4	66.4	73.2		70.4	Fine	0.8
5-May-20	11:33	68.3	66.3	71.3		68.3	Sunny	0.5
15-May-20	11:30	67.6	66.6	69.6		67.6	Sunny	0.9
21-May-20	11:37	66.9	65.9	67.9		66.9	Overcast	0.8
27-May-20	11:32	68.6	66.6	71.6		68.6	Fine	0.6

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						
5-Feb-20	9:03	69.8	66.5	71.5		69.8	Sunny	0.8
11-Feb-20	16:57	67.8	64.5	69.0		67.8	Fine	0.8
17-Feb-20	9:07	67.3	64.9	70.8		67.3	Fine	0.8
27-Feb-20	17:01	67.9	65.8	71.8		67.9	Fine	1.1
4-Mar-20	8:32	67.9	66.0	70.5		67.9	Fine	0.7
10-Mar-20	8:28	68.7	66.1	70.8		68.7	Fine	0.9
16-Mar-20	8:08	69.1	65.3	73.8		69.1	Sunny	0.8
26-Mar-20	8:28	69.2	64.8	73.4		69.2	Fine	0.7
1-Apr-20	16:08	68.7	66.1	72.4	75	68.7	Sunny	0.5
7-Apr-20	16:04	69.5	67.0	72.5		69.5	Fine	0.6
15-Apr-20	15:24	69.1	67.1	72.6		69.1	Sunny	0.8
21-Apr-20	10:16	62.8	60.0	64.0		62.8	Fine	0.3
27-Apr-20	15:29	68.4	65.7	71.3		68.4	Fine	0.9
4-May-20	16:04	69.2	67.2	70.2		69.2	Sunny	0.5
14-May-20	16:00	70.3	68.3	73.3		70.3	Sunny	0.8
20-May-20	16:03	71.2	69.2	72.2		71.2	Fine	0.8
26-May-20	16:10	69.7	68.7	70.7		69.7	Fine	0.3

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						
5-Feb-20	16:58	69.2	66.5	72.0		69.2	Sunny	1.1
11-Feb-20	8:30	66.9	65.0	68.5		66.9	Fine	1.2
17-Feb-20	16:14	70.5	67.2	73.1		70.5	Fine	0.8
27-Feb-20	8:34	68.3	64.7	69.7		68.3	Fine	1.2
4-Mar-20	16:42	71.6	66.5	72.5		71.6	Fine	1.2
10-Mar-20	16:42	71.6	66.5	72.5		71.6	Fine	1.2
16-Mar-20	16:39	68.7	62.8	73.1		68.7	Sunny	0.8
26-Mar-20	10:33	70.5	67.3	73.6		70.5	Fine	0.9
1-Apr-20	13:07	68.7	65.9	72.8	75	68.7	Sunny	0.6
7-Apr-20	13:00	69.7	66.5	73.0		69.7	Fine	1.2
15-Apr-20	12:23	71.0	67.4	74.2		71.0	Sunny	0.8
21-Apr-20	9:51	69.8	66.0	72.0		69.8	Fine	0.6
27-Apr-20	12:28	70.2	67.8	73.6		70.2	Fine	0.5
4-May-20	13:00	69.2	67.2	71.2		69.2	Sunny	0.6
14-May-20	13:06	71.3	69.3	72.3		71.3	Sunny	0.4
20-May-20	13:08	70.4	68.4	73.4		70.4	Fine	0.8
26-May-20	13:01	70.6	69.6	73.6		70.6	Fine	0.6

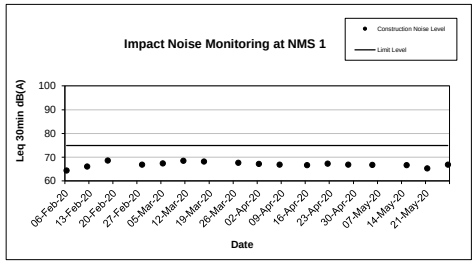
NMS 26 Wo Che Estate

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						
5-Feb-20	13:56	74.1	71.0	75.5		74.1	Sunny	0.8
11-Feb-20	11:24	72.8	70.0	75.0		72.8	Fine	0.7
17-Feb-20	13:27	69.8	67.3	72.3		69.8	Fine	0.6
27-Feb-20	11:28	68.7	66.7	73.5		68.7	Fine	0.8
4-Mar-20	14:54	73.9	68.5	76.0		73.9	Fine	0.8
10-Mar-20	15:03	72.1	68.2	74.5		72.1	Fine	0.8
16-Mar-20	15:01	69.8	67.5	73.1		69.8	Sunny	0.7
26-Mar-20	15:06	70.2	66.9	73.1		70.2	Fine	0.9
1-Apr-20	10:22	72.0	68.4	75.2	75	72.0	Sunny	0.5
7-Apr-20	10:24	73.9	69.5	76.0		73.9	Fine	0.8
15-Apr-20	9:53	71.3	67.2	73.8		71.3	Sunny	0.7
21-Apr-20	13:04	68.7	65.5	70.5		68.7	Fine	0.7
27-Apr-20	9:57	70.4	67.2	74.2		70.4	Fine	1.1
4-May-20	10:25	71.1	70.1	73.1		71.1	Sunny	0.5
14-May-20	10:28	72.0	71.0	75.0		72.0	Sunny	0.8
20-May-20	10:21	69.6	67.6	72.6		69.6	Fine	0.6
26-May-20	10:19	70.4	69.4	73.4		70.4	Fine	0.7

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						
6-Feb-20	11:45	64.5	62.0	67.0		64.5	Sunny	0.5
12-Feb-20	13:08	63.9	61.0	65.5		63.9	Fine	1.1
18-Feb-20	11:16	65.0	63.1	68.5		65.0	Fine	0.8
28-Feb-20	13:12	65.8	63.6	69.8		65.8	Fine	1.0
5-Mar-20	16:28	64.4	61.5	66.0		64.4	Fine	0.8
11-Mar-20	16:30	65.8	62.8	70.2		65.8	Fine	0.9
17-Mar-20	16:24	66.3	63.2	69.3		66.3	Sunny	0.6
27-Mar-20	16:38	68.9	64.4	70.8		68.9	Fine	0.8
2-Apr-20	13:09	64.7	60.3	68.9	70	64.7	Fine	0.6
8-Apr-20	13:04	65.2	61.5	66.5		65.2	Fine	0.5
16-Apr-20	12:40	67.3	63.4	68.7		67.3	Sunny	0.7
22-Apr-20	13:32	64.4	61.0	66.0		64.4	Fine	0.8
28-Apr-20	12:44	66.7	63.2	69.7		66.7	Fine	1.1
5-May-20	13:12	64.7	63.7	66.7		64.7	Sunny	0.6
15-May-20	13:11	65.0	63.0	67.0		65.0	Sunny	0.5
21-May-20	13:17	66.9	65.9	68.9		66.9	Overcast	0.7
27-May-20	13:10	63.8	61.8	64.8		63.8	Fine	0.8

Calculated CNL = Measured Noise Level during operation – Baseline (dB(A)).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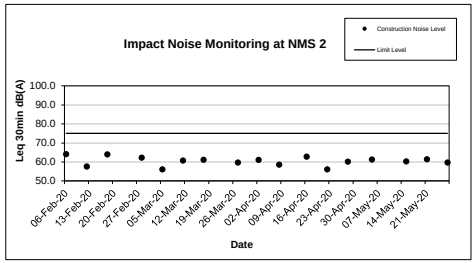
Construction Noise Level
Limit Level
Leq 30min dB(A)
100
90
80
70
60
06-Feb-20
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date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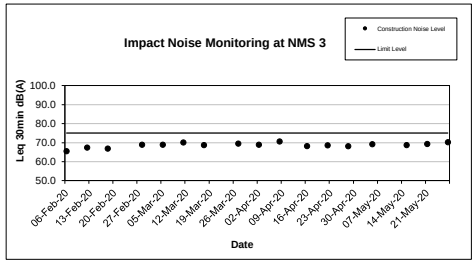
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
50.0
06-Feb-20
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date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Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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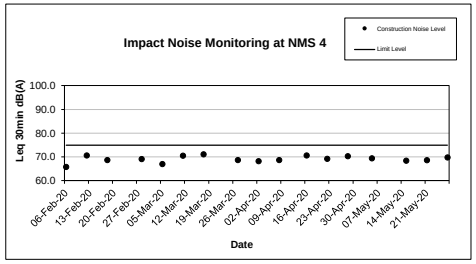
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date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Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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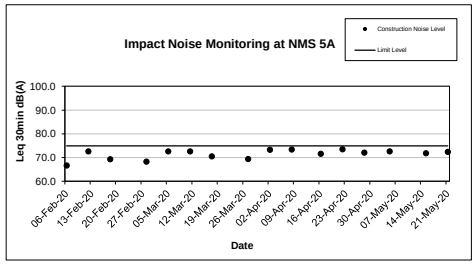
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date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Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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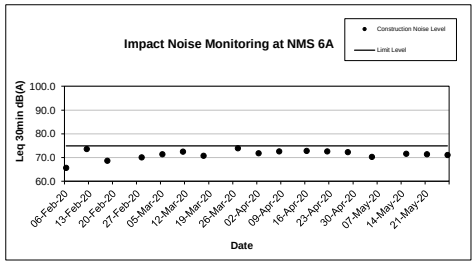
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date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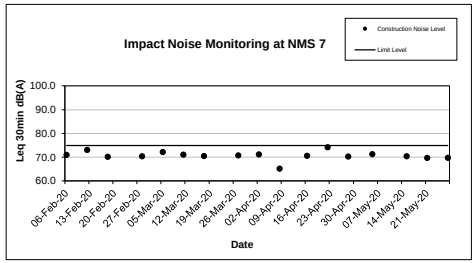
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
06-Feb-20
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date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Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
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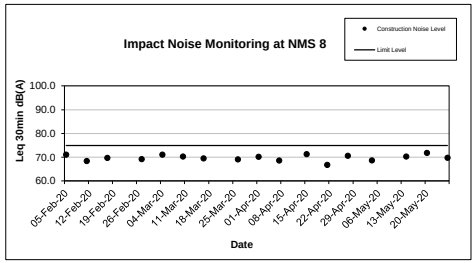
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date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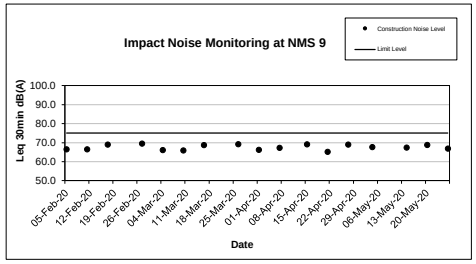
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 9
Construction Noise Level
Limit Level
Leq 30min dB(A)
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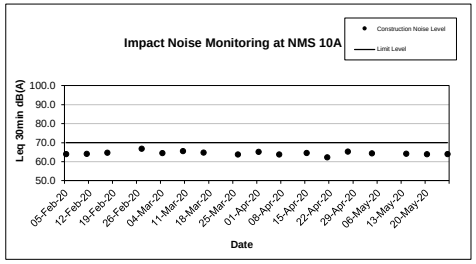
90.0
80.0
70.0
60.0
50.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date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Construction Noise Level
Limit Level
Leq 30min dB(A)
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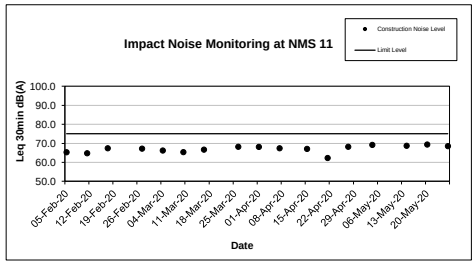
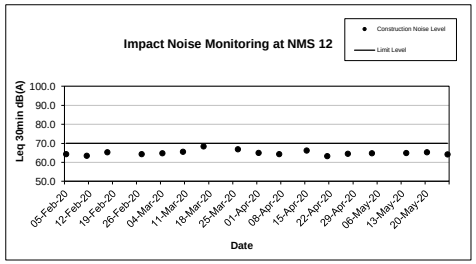
90.0
80.0
70.0
60.0
50.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 11
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
50.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 12
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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05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
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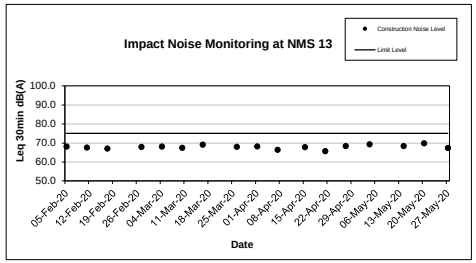
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 13
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
50.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
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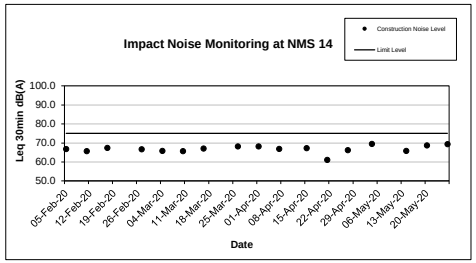
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
27-May-20
Date


Impact Noise Monitoring at NMS 14
Construction Noise Level
Limit Level
Leq 30min dB(A)
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90.0
80.0
70.0
60.0
50.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
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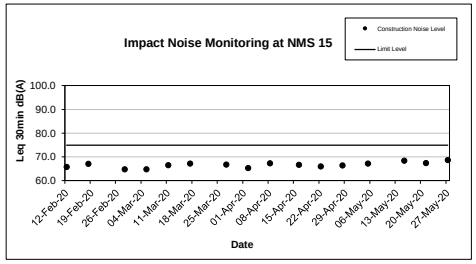
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 15
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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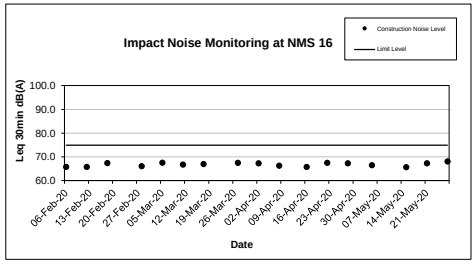
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
27-May-20
Date


Impact Noise Monitoring at NMS 16
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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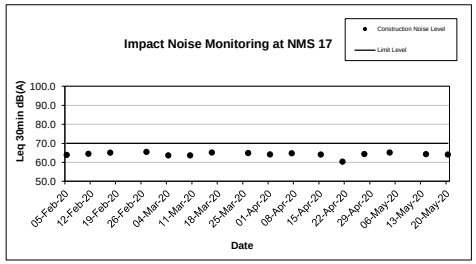
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date


Impact Noise Monitoring at NMS 17
Construction Noise Level
Limit Level
Leq 30min dB(A)
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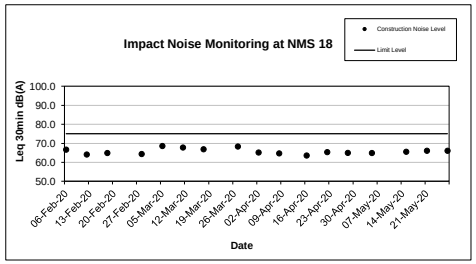
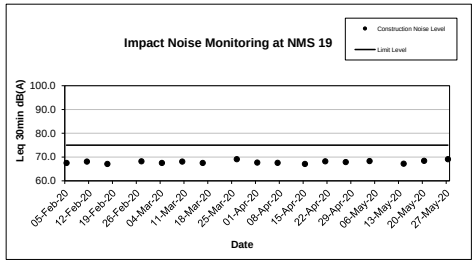
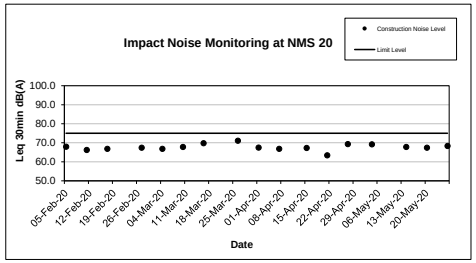
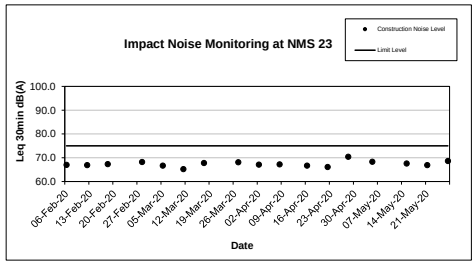
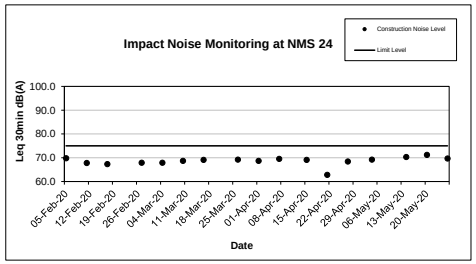
90.0
80.0
70.0
60.0
50.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date

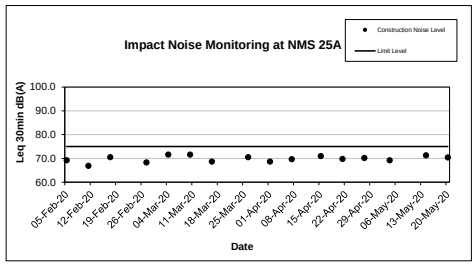

Impact Noise Monitoring at NMS 18
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
50.0
06-Feb-20
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date

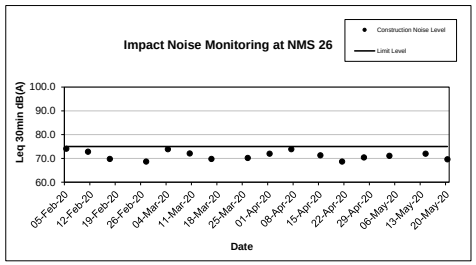

Impact Noise Monitoring at NMS 19
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
27-May-20
Date

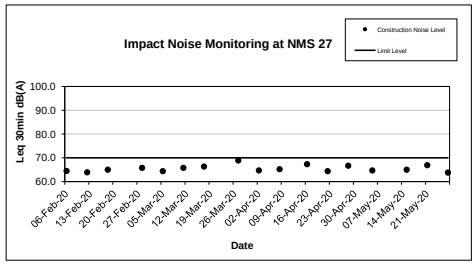

Impact Noise Monitoring at NMS 20
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
50.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 23
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
06-Feb-20
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date


Impact Noise Monitoring at NMS 24
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 25A
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
Date


Impact Noise Monitoring at NMS 26
Construction Noise Level
Limit Level
Leq 30min dB(A)
100.0
90.0
80.0
70.0
60.0
05-Feb-20
12-Feb-20
19-Feb-20
26-Feb-20
04-Mar-20
11-Mar-20
18-Mar-20
25-Mar-20
01-Apr-20
08-Apr-20
15-Apr-20
22-Apr-20
29-Apr-20
06-May-20
13-May-20
20-May-20
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
06-Feb-20
13-Feb-20
20-Feb-20
27-Feb-20
05-Mar-20
12-Mar-20
19-Mar-20
26-Mar-20
02-Apr-20
09-Apr-20
16-Apr-20
23-Apr-20
30-Apr-20
07-May-20
14-May-20
21-May-20
Date

Night Time Noise Monitoring Result for
NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Sectio

NMS 1 Scenery Court

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Feb-20	23:00	56.8	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.5
13-Feb-20	23:02	58.5			55	Measured Noise Level<Baseline	Fine	0.6
21-Feb-20	23:00	60.1			55	Measured Noise Level<Baseline	Fine	0.4
27-Feb-20	23:00	57.8			55	Measured Noise Level<Baseline	Fine	0.6
5-Mar-20	23:00	55.9			55	Measured Noise Level<Baseline	Fine	0.5
12-Mar-20	23:06	61.5			55	42.6*	Fine	0.4
19-Mar-20	23:00	61.8			55	51.3*	Hazy	0.5
26-Mar-20	23:02	61.9			55	52.7*	Fine	0.4
2-Apr-20	23:00	61.5			55	43.7*	Rainy	0.8
8-Apr-20	23:08	61.9			55	51.8*	Fine	0.5
16-Apr-20	23:02	61.7			55	49.3*	Fine	0.6
23-Apr-20	23:01	61.9			55	52.7*	Overcast	0.5
28-Apr-20	23:00	62.0			55	53.1*	Fine	0.5
7-May-20	23:02	61.2			55	Measured Noise Level<Baseline	Fine	0.4
14-May-20	23:00	59.0			55	Measured Noise Level<Baseline	Fine	0.4
21-May-20	23:03	58.0			55	Measured Noise Level<Baseline	Drizzle	0.8
28-May-20	23:00	58.1			55	Measured Noise Level<Baseline	Fine	0.3

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 2 Villa Le Parc

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	2:40	45.7	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Leve	Fine	0.6
14-Feb-20	2:36	46.5			55	Measured Noise Level<Limit Leve	Fine	0.8
22-Feb-20	2:30	48.0			55	Measured Noise Level<Limit Leve	Fine	0.4
28-Feb-20	2:45	46.2			55	Measured Noise Level<Limit Leve	Fine	0.7
6-Mar-20	2:55	46.4			55	Measured Noise Level<Limit Leve	Fine	0.6
13-Mar-20	2:53	47.9			55	Measured Noise Level<Limit Leve	Fine	0.5
20-Mar-20	2:35	44.7			55	Measured Noise Level<Limit Leve	Hazy	0.4
27-Mar-20	2:30	45.5			55	Measured Noise Level<Limit Leve	Fine	0.6
3-Apr-20	2:52	45.4			55	Measured Noise Level<Limit Leve	Rainy	0.7
9-Apr-20	3:00	46.5			55	Measured Noise Level<Limit Leve	Fine	0.4
17-Apr-20	2:35	42.6			55	Measured Noise Level<Limit Leve	Fine	0.6
24-Apr-20	2:34	45.5			55	Measured Noise Level<Limit Leve	Overcast	0.5
29-Apr-20	3:01	46.0			55	Measured Noise Level<Limit Leve	Fine	0.6
8-May-20	2:58	47.1			55	Measured Noise Level<Limit Leve	Fine	0.6
15-May-20	2:38	45.1			55	Measured Noise Level<Limit Leve	Fine	0.2
22-May-20	2:43	46.0			55	Measured Noise Level<Limit Leve	Drizzle	0.9
29-May-20	3:20	52.5			55	Measured Noise Level<Limit Leve	Fine	0.4

NMS 3 Hilton Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Feb-20	23:00	61.3	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.4
13-Feb-20	23:00	61.2			55	Measured Noise Level<Baseline	Fine	0.8
21-Feb-20	23:00	61.8			55	Measured Noise Level<Baseline	Fine	0.5
27-Feb-20	23:00	59.5			55	Measured Noise Level<Baseline	Fine	0.8
5-Mar-20	23:00	60.9			55	Measured Noise Level<Baseline	Fine	0.7
12-Mar-20	23:03	61.9			55	Measured Noise Level<Baseline	Fine	0.7
19-Mar-20	23:00	61.4			55	Measured Noise Level<Baseline	Hazy	0.4
26-Mar-20	23:00	62.8			55	Measured Noise Level<Baseline	Fine	0.4
2-Apr-20	23:00	62.3			55	Measured Noise Level<Baseline	Rainy	0.7
8-Apr-20	23:10	61.6			55	Measured Noise Level<Baseline	Fine	0.4
16-Apr-20	23:00	60.7			55	Measured Noise Level<Baseline	Fine	0.6
23-Apr-20	23:00	60.5			55	Measured Noise Level<Baseline	Overcast	0.5
28-Apr-20	23:00	62.1			55	Measured Noise Level<Baseline	Fine	0.7
7-May-20	23:00	60.3			55	Measured Noise Level<Baseline	Fine	0.5
14-May-20	23:00	61.3			55	Measured Noise Level<Baseline	Fine	0.2
21-May-20	23:01	62.0			55	Measured Noise Level<Baseline	Drizzle	0.8
28-May-20	23:00	61.9			55	Measured Noise Level<Baseline	Fine	0.3

NMS 4 Tin Liu

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	2:39	56.5	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.5
14-Feb-20	2:41	56.6			55	Measured Noise Level<Baseline	Fine	0.7
22-Feb-20	2:35	57.7			55	Measured Noise Level<Baseline	Fine	0.3
28-Feb-20	3:01	57.2			55	Measured Noise Level<Baseline	Fine	0.4
6-Mar-20	2:49	56.0			55	Measured Noise Level<Baseline	Fine	0.6
13-Mar-20	2:50	58.0			55	Measured Noise Level<Baseline	Fine	0.4
20-Mar-20	2:45	58.0			55	Measured Noise Level<Baseline	Hazy	0.5
27-Mar-20	2:48	59.7			55	Measured Noise Level<Baseline	Fine	0.4
3-Apr-20	2:42	59.8			55	Measured Noise Level<Baseline	Rainy	0.8
9-Apr-20	2:40	60.8			55	Measured Noise Level<Baseline	Fine	0.4
17-Apr-20	3:08	58.4			55	Measured Noise Level<Baseline	Fine	0.0
24-Apr-20	2:55	56.5			55	Measured Noise Level<Baseline	Overcast	0.5
28-Apr-20	2:56	56.8			55	Measured Noise Level<Baseline	Fine	0.6
8-May-20	2:52	56.6			55	Measured Noise Level<Baseline	Fine	0.4
15-May-20	2:46	56.4			55	Measured Noise Level<Baseline	Fine	0.4
22-May-20	2:49	58.0			55	Measured Noise Level<Baseline	Drizzle	0.9
29-May-20	2:47	57.7			55	Measured Noise Level<Baseline	Fine	0.3

NMS 5A Wai Wah Centre

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Feb-20	23:26	67.7	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.6
13-Feb-20	23:31	67.6			55	Measured Noise Level<Baseline	Fine	0.6
21-Feb-20	23:23	67.4			55	Measured Noise Level<Baseline	Fine	0.5
27-Feb-20	23:30	58.3			55	Measured Noise Level<Baseline	Fine	0.6
5-Mar-20	23:27	58.0		62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.6
12-Mar-20	23:25	73.3			55	71.8**	Fine	0.5
19-Mar-20	23:28	67.6			55	Measured Noise Level<Baseline	Hazy	0.5
26-Mar-20	23:24	67.2			55	Measured Noise Level<Baseline	Fine	0.4
2-Apr-20	23:33	65.5		62.0 - 75.2	55	Measured Noise Level<Baseline	Rainy	0.7
8-Apr-20	23:30	66.8			55	Measured Noise Level<Baseline	Fine	0.6
16-Apr-20	23:22	74.4			55	73.3**	Fine	0.4
23-Apr-20	23:20	67.6			55	Measured Noise Level<Baseline	Overcast	0.4
28-Apr-20	23:22	67.6			55	Measured Noise Level<Baseline	Fine	0.5
7-May-20	23:19	67.6		62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.4
14-May-20	23:20	67.3			55	Measured Noise Level<Baseline	Fine	0.4
21-May-20	23:25	67.9			55	38.2*	Drizzle	0.6
28-May-20	23:20	67.5			55	Measured Noise Level<Baseline	Fine	0.4

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).
**The Corrected Noise Level in Leq (15min) was greater than Limit Level: 55 dB(A). There was an exceedance. The exceedance is proved to be not project related by ET's investigation.

NMS 6A Wai Wah Centre

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Feb-20	23:20	67.9	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.4
13-Feb-20	23:18	67.6			55	Measured Noise Level<Baseline	Fine	0.6
21-Feb-20	23:22	69.0			55	Measured Noise Level<Baseline	Fine	0.5
27-Feb-20	23:20	68.4			55	Measured Noise Level<Baseline	Fine	0.6
6-Mar-20	23:15	58.6			55	Measured Noise Level<Baseline	Fine	0.4
13-Mar-20	23:21	58.2			55	Measured Noise Level<Baseline	Fine	0.5
19-Mar-20	23:22	68.4			55	Measured Noise Level<Baseline	Hazy	0.4
26-Mar-20	23:27	68.5			55	Measured Noise Level<Baseline	Fine	0.6
2-Apr-20	23:23	68.1			55	Measured Noise Level<Baseline	Rainy	0.5
8-Apr-20	23:22	71.0			55	Measured Noise Level<Baseline	Fine	0.4
16-Apr-20	23:22	68.1			55	Measured Noise Level<Baseline	Fine	0.6
23-Apr-20	23:23	69.2			55	Measured Noise Level<Baseline	Overcast	0.5
28-Apr-20	23:26	66.9			55	Measured Noise Level<Baseline	Fine	0.7
7-May-20	23:25	69.7			55	Measured Noise Level<Baseline	Fine	0.7
14-May-20	23:25	69.4			55	Measured Noise Level<Baseline	Fine	0.2
21-May-20	23:31	69.8			55	Measured Noise Level<Baseline	Drizzle	0.8
28-May-20	23:26	70.0			55	Measured Noise Level<Baseline	Fine	0.3

NMS 7 Tin Liu

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	2:20	59.0	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.5
14-Feb-20	2:23	60.0			55	53.0*	Fine	0.6
22-Feb-20	2:17	60.3			55	54.4*	Fine	0.4
28-Feb-20	2:56	58.6			55	Measured Noise Level<Baseline	Fine	0.5
6-Mar-20	2:29	57.5			55	Measured Noise Level<Baseline	Fine	0.6
13-Mar-20	2:33	58.2			55	Measured Noise Level<Baseline	Fine	0.4
20-Mar-20	2:31	59.3			55	48.1**	Hazy	0.5
27-Mar-20	2:28	60.2			55	54.2**	Fine	0.6
3-Apr-20	2:34	59.9			55	52.7*	Rainy	0.7
9-Apr-20	2:33	60.4			55	54.7*	Fine	0.6
17-Apr-20	2:49	60.4			55	54.8*	Fine	0.2
24-Apr-20	2:46	60.2			55	54.2*	Overcast	0.4
29-Apr-20	2:44	60.3			55	54.6*	Fine	0.5
8-May-20	2:46	60.1			55	53.5*	Fine	0.4
15-May-20	2:44	58.9			55	Measured Noise Level<Baseline	Fine	0.4
22-May-20	2:48	58.9			55	Measured Noise Level<Baseline	Drizzle	0.4
29-May-20	2:40	57.3			55	Measured Noise Level<Baseline	Fine	0.3

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 8 Shatin Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Feb-20	23:45	58.5	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.5
13-Feb-20	23:42	57.8			55	Measured Noise Level<Baseline	Fine	0.6
21-Feb-20	23:42	59.2			55	Measured Noise Level<Baseline	Fine	0.6
27-Feb-20	23:42	57.7			55	Measured Noise Level<Baseline	Fine	0.6
5-Mar-20	23:36	57.3			55	Measured Noise Level<Baseline	Fine	0.4
12-Mar-20	23:31	56.9			55	Measured Noise Level<Baseline	Fine	0.6
19-Mar-20	23:47	57.4			55	Measured Noise Level<Baseline	Hazy	0.4
26-Mar-20	23:44	59.4			55	Measured Noise Level<Baseline	Fine	0.5
2-Apr-20	23:50	56.2			55	Measured Noise Level<Baseline	Rainy	0.8
8-Apr-20	23:50	61.1			55	Measured Noise Level<Baseline	Fine	0.4
16-Apr-20	23:47	56.5			55	Measured Noise Level<Baseline	Fine	0.6
23-Apr-20	23:46	56.8			55	Measured Noise Level<Baseline	Overcast	0.5
28-Apr-20	23:42	58.2			55	Measured Noise Level<Baseline	Fine	0.8
7-May-20	23:49	59.2			55	Measured Noise Level<Baseline	Fine	0.8
14-May-20	23:49	58.0			55	Measured Noise Level<Baseline	Fine	0.2
21-May-20	23:48	58.1			55	Measured Noise Level<Baseline	Drizzle	0.8
28-May-20	23:40	60.7			55	Measured Noise Level<Baseline	Fine	0.3

NMS 9 Lek Yuen Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	0:10	56.4	53.5	39.5 - 63.1	55	53.2*	Fine	0.6
14-Feb-20	0:16	56.3			55	53.1*	Fine	0.6
22-Feb-20	0:05	56.5			55	53.5*	Fine	0.4
28-Feb-20	0:10	55.1			55	50.1*	Fine	0.8
6-Mar-20	0:15	56.5			55	53.6*	Fine	0.4
13-Mar-20	0:13	57.5			55	55.3**	Fine	0.6
20-Mar-20	0:17	56.1			55	52.7*	Hazy	0.4
27-Mar-20	0:15	56.8			55	54.0*	Fine	0.5
3-Apr-20	0:14	56.6			55	53.8*	Rainy	0.8
9-Apr-20	0:15	57.0			55	54.3*	Fine	0.5
17-Apr-20	0:17	56.9			55	54.2*	Fine	0.6
24-Apr-20	0:16	56.3			55	53.1*	Overcast	0.5
29-Apr-20	0:15	56.3			55	53.0*	Fine	0.8
8-May-20	0:20	56.7			55	53.9*	Fine	0.7
15-May-20	0:20	54.2			55	Measured Noise Level<Limit Level	Fine	0.2
22-May-20	0:23	55.1			55	49.9*	Drizzle	0.8
29-May-20	0:15	56.8			55	54.1*	Fine	0.3

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).
**The Corrected Noise Level in Leq (15min) was greater than Limit Level: 55 dB(A). There was an exceedance. The exceedance is proved to be not project related by ET's investigation.

NMS 11 Sheung Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	1:37	53.0	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
14-Feb-20	1:42	52.9			55	Measured Noise Level<Limit Level	Fine	0.6
22-Feb-20	1:40	53.8			55	Measured Noise Level<Limit Level	Fine	0.6
28-Feb-20	2:32	54.8			55	Measured Noise Level<Limit Level	Fine	0.3
6-Mar-20	1:45	52.7			55	Measured Noise Level<Limit Level	Fine	0.6
13-Mar-20	1:57	54.9			55	Measured Noise Level<Limit Level	Fine	0.6
20-Mar-20	2:00	55.1			55	50.7*	Hazy	0.6
27-Mar-20	2:00	55.1			55	50.5*	Fine	0.3
3-Apr-20	2:04	56.6			55	54.0*	Rainy	0.6
9-Apr-20	2:00	57.0			55	54.7*	Fine	0.6
17-Apr-20	2:09	54.6			55	Measured Noise Level<Limit Level	Fine	0.6
24-Apr-20	2:07	55.7			55	52.2*	Overcast	0.3
29-Apr-20	2:03	57.0			55	54.7*	Fine	0.5
8-May-20	2:06	56.7			55	54.1*	Fine	0.6
15-May-20	2:04	56.1			55	53.1*	Fine	0.6
22-May-20	2:08	56.7			55	54.1*	Drizzle	0.6
29-May-20	2:03	56.5			55	53.7*	Fine	0.3

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 13 Lek Yuen Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	22:12	56.4	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.5
14-Feb-20	1:25	57.8		45.4 - 72.5	55	48.5*	Fine	0.6
22-Feb-20	1:14	58.0		45.4 - 72.5	55	50.0*	Fine	0.4
28-Feb-20	0:20	57.7		45.4 - 72.5	55	47.0*	Fine	0.5
6-Mar-20	0:16	56.8	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.7
13-Mar-20	0:32	59.1		45.4 - 72.5	55	54.3*	Fine	0.4
20-Mar-20	0:35	59.4		45.4 - 72.5	55	55.2*	Hazy	0.5
27-Mar-20	0:32	58.9		45.4 - 72.5	55	53.8*	Fine	0.6
3-Apr-20	0:36	58.6	57.3	45.4 - 72.5	55	52.7*	Rainy	0.8
9-Apr-20	0:31	58.8		45.4 - 72.5	55	53.3*	Fine	0.5
17-Apr-20	0:28	62.3		45.4 - 72.5	55	60.6**	Fine	0.0
24-Apr-20	0:25	58.6		45.4 - 72.5	55	52.8*	Overcast	0.5
29-Apr-20	0:26	58.3		45.4 - 72.5	55	51.4*	Fine	0.6
8-May-20	0:28	58.3	57.3	45.4 - 72.5	55	51.4*	Fine	0.5
15-May-20	0:30	57.7		45.4 - 72.5	55	46.8*	Fine	0.4
22-May-20	0:31	58.1		45.4 - 72.5	55	50.5*	Drizzle	0.6
29-May-20	0:28	57.6		45.4 - 72.5	55	45.7*	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).
**The Corrected Noise Level in Leq (15min) was greater than Limit Level: 55 dB(A). There was an exceedance. The exceedance is proved to be not project related by ET's investigation.

NMS 14 Sheung Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	1:30	54.7	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.5
13-Feb-20	1:30	54.0			55	Measured Noise Level<Limit Level	Fine	0.7
22-Feb-20	1:42	54.1			55	Measured Noise Level<Limit Level	Fine	0.4
28-Feb-20	1:32	55.4			55	49.4*	Fine	0.7
6-Mar-20	1:35	54.8			55	Measured Noise Level<Limit Level	Fine	0.5
13-Mar-20	1:38	55.5			55	50.0*	Fine	14:24
20-Mar-20	1:45	53.4			55	Measured Noise Level<Limit Level	Hazy	9:36
27-Mar-20	1:46	54.7			55	Measured Noise Level<Limit Level	Fine	14:24
3-Apr-20	1:40	52.8			55	Measured Noise Level<Limit Level	Rainy	16:48
9-Apr-20	1:51	52.4			55	Measured Noise Level<Limit Level	Fine	0.5
17-Apr-20	1:45	51.8			55	Measured Noise Level<Limit Level	Fine	0.6
24-Apr-20	1:44	54.7			55	Measured Noise Level<Limit Level	Overcast	0.5
29-Apr-20	1:42	56.4			55	52.5*	Fine	0.5
8-May-20	1:40	57.2			55	54.3*	Fine	0.6
15-May-20	1:47	53.7			55	Measured Noise Level<Limit Level	Fine	4:48
22-May-20	1:49	55.0			55	47.7*	Drizzle	19:12
29-May-20	1:45	54.9			55	Measured Noise Level<Limit Level	Fine	7:12

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 15 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	1:17	52.6	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level	Fine	0.5
14-Feb-20	1:22	52.9			55	Measured Noise Level<Limit Level	Fine	0.6
22-Feb-20	1:18	54.0			55	Measured Noise Level<Limit Level	Fine	0.5
28-Feb-20	1:34	53.0			55	Measured Noise Level<Limit Level	Fine	0.5
6-Mar-20	1:24	53.7			55	Measured Noise Level<Limit Level	Fine	0.6
13-Mar-20	1:37	59.0			55	45.0*	Fine	0.4
20-Mar-20	1:39	60.2			55	54.5*	Hazy	0.5
27-Mar-20	1:42	59.2			55	49.2*	Fine	0.6
3-Apr-20	1:51	59.5			55	51.5*	Rainy	0.8
9-Apr-20	1:50	59.0			55	45.1*	Fine	0.4
17-Apr-20	1:51	58.7			55	Measured Noise Level<Baseline	Fine	0.4
24-Apr-20	1:49	58.9			55	42.6*	Overcast	0.5
29-Apr-20	1:50	59.7			55	52.6*	Fine	0.4
8-May-20	1:52	59.2			55	48.8*	Fine	0.6
15-May-20	1:55	59.0			55	45.9*	Fine	0.4
22-May-20	1:57	58.4			55	Measured Noise Level<Baseline	Drizzle	0.6
29-May-20	2:01	58.2			55	Measured Noise Level<Baseline	Fine	0.4

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 16 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	1:10	57.3	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.5
14-Feb-20	1:07	56.9			55	Measured Noise Level<Baseline	Fine	0.7
22-Feb-20	1:10	55.6			55	Measured Noise Level<Baseline	Fine	0.4
28-Feb-20	1:15	54.3			55	Measured Noise Level<Limit Level	Fine	0.7
6-Mar-20	1:19	56.7			55	Measured Noise Level<Baseline	Fine	0.7
13-Mar-20	1:21	58.1			55	Measured Noise Level<Baseline	Fine	0.6
20-Mar-20	1:20	55.4			55	Measured Noise Level<Baseline	Hazy	0.4
27-Mar-20	1:25	56.4			55	Measured Noise Level<Baseline	Fine	0.6
3-Apr-20	1:21	53.4			55	Measured Noise Level<Limit Level	Rainy	0.7
9-Apr-20	1:25	55.9			55	Measured Noise Level<Baseline	Fine	0.4
17-Apr-20	1:20	52.0			55	Measured Noise Level<Limit Level	Fine	0.6
24-Apr-20	1:19	54.8			55	Measured Noise Level<Limit Level	Overcast	0.5
29-Apr-20	1:25	58.0			55	Measured Noise Level<Baseline	Fine	0.5
8-May-20	1:24	58.8			55	Measured Noise Level<Baseline	Fine	0.5
15-May-20	1:22	55.0			55	Measured Noise Level<Baseline	Fine	0.2
22-May-20	1:23	55.0			55	Measured Noise Level<Limit Level	Drizzle	0.6
29-May-20	1:28	58.5			55	Measured Noise Level<Baseline	Fine	0.4

NMS 18 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	0:55	53.3	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level	Fine	0.5
14-Feb-20	0:53	57.0			55	Measured Noise Level<Baseline	Fine	0.7
22-Feb-20	0:55	54.2			55	Measured Noise Level<Limit Level	Fine	0.5
28-Feb-20	0:55	54.1			55	Measured Noise Level<Limit Level	Fine	0.8
6-Mar-20	1:00	53.0			55	Measured Noise Level<Limit Level	Fine	0.4
13-Mar-20	0:57	54.7			55	Measured Noise Level<Limit Level	Fine	0.6
20-Mar-20	1:01	54.7			55	Measured Noise Level<Limit Level	Hazy	0.4
27-Mar-20	1:09	54.2			55	Measured Noise Level<Limit Level	Fine	0.6
3-Apr-20	1:05	55.0			55	Measured Noise Level<Limit Level	Rainy	0.8
9-Apr-20	1:10	53.3			55	Measured Noise Level<Limit Level	Fine	0.5
17-Apr-20	1:01	53.1			55	Measured Noise Level<Limit Level	Fine	0.6
24-Apr-20	1:01	53.1			55	Measured Noise Level<Limit Level	Overcast	0.5
29-Apr-20	1:10	55.8			55	Measured Noise Level<Baseline	Fine	0.5
8-May-20	1:05	58.0			55	Measured Noise Level<Baseline	Fine	0.5
15-May-20	1:04	59.2			55	Measured Noise Level<Baseline	Fine	0.2
22-May-20	1:06	59.2			55	Measured Noise Level<Baseline	Drizzle	0.6
29-May-20	1:15	55.0			55	Measured Noise Level<Baseline	Fine	0.3

NMS 19 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	0:33	58.9	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.5
14-Feb-20	0:40	61.6			55	Measured Noise Level<Baseline	Fine	0.0
22-Feb-20	0:37	61.2			55	Measured Noise Level<Baseline	Fine	0.4
28-Feb-20	0:41	58.0			55	Measured Noise Level<Baseline	Fine	0.5
6-Mar-20	0:40	58.4			55	Measured Noise Level<Baseline	Fine	0.7
13-Mar-20	0:55	61.7			55	41.7*	Fine	0.0
20-Mar-20	0:55	61.7			55	41.7*	Hazy	0.4
27-Mar-20	0:50	61.6			55	Measured Noise Level<Baseline	Fine	0.6
3-Apr-20	0:56	60.6			55	Measured Noise Level<Baseline	Rainy	0.6
9-Apr-20	0:52	60.6			55	Measured Noise Level<Baseline	Fine	0.0
17-Apr-20	1:08	58.7			55	Measured Noise Level<Baseline	Fine	0.0
24-Apr-20	1:06	60.5			55	Measured Noise Level<Baseline	Overcast	0.5
29-Apr-20	1:08	59.8			55	Measured Noise Level<Baseline	Fine	0.4
8-May-20	1:11	60.4			55	Measured Noise Level<Baseline	Fine	0.6
15-May-20	1:08	59.8			55	Measured Noise Level<Baseline	Fine	0.0
22-May-20	1:23	61.3			55	Measured Noise Level<Baseline	Drizzle	0.8
29-May-20	1:25	61.3			55	Measured Noise Level<Baseline	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 20 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	0:51	54.6	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Leve	Fine	0.4
14-Feb-20	0:48	56.4			55	Measured Noise Level<Baseline	Fine	0.0
22-Feb-20	0:56	56.7			55	Measured Noise Level<Baseline	Fine	0.4
28-Feb-20	1:34	54.7			55	Measured Noise Level<Limit Leve	Fine	0.5
6-Mar-20	0:58	55.5			55	Measured Noise Level<Baseline	Fine	0.5
13-Mar-20	1:11	57.5			55	Measured Noise Level<Baseline	Fine	0.0
20-Mar-20	1:09	59.0			55	53.2*	Hazy	0.5
27-Mar-20	1:08	57.1			55	Measured Noise Level<Baseline	Fine	0.6
3-Apr-20	1:11	57.9			55	45.2*	Rainy	0.8
9-Apr-20	1:06	58.7			55	51.6*	Fine	0.0
17-Apr-20	1:25	57.2			55	Measured Noise Level<Baseline	Fine	0.0
24-Apr-20	1:22	56.6			55	Measured Noise Level<Baseline	Overcast	0.5
29-Apr-20	1:20	57.2			55	Measured Noise Level<Baseline	Fine	0.4
8-May-20	1:24	56.7			55	Measured Noise Level<Baseline	Fine	0.6
15-May-20	1:26	57.2			55	Measured Noise Level<Baseline	Fine	0.0
22-May-20	1:33	57.6			55	Measured Noise Level<Baseline	Drizzle	0.8
29-May-20	1:30	56.8			55	Measured Noise Level<Baseline	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 23 Pai Tau

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	2:00	57.9	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.5
13-Feb-20	2:01	54.9			55	Measured Noise Level<Limit Leve	Fine	0.7
22-Feb-20	2:05	56.9			55	Measured Noise Level<Baseline	Fine	0.5
28-Feb-20	2:00	54.5			55	Measured Noise Level<Limit Leve	Fine	0.7
6-Mar-20	2:10	55.4			55	Measured Noise Level<Baseline	Fine	0.5
13-Mar-20	2:07	57.3			55	Measured Noise Level<Baseline	Fine	0.4
20-Mar-20	2:12	57.5			55	Measured Noise Level<Baseline	Hazy	0.4
27-Mar-20	2:15	59.5			55	Measured Noise Level<Baseline	Fine	0.6
3-Apr-20	2:16	57.3			55	Measured Noise Level<Baseline	Rainy	0.6
9-Apr-20	2:20	54.2			55	Measured Noise Level<Limit Leve	Fine	0.4
17-Apr-20	2:12	50.7			55	Measured Noise Level<Limit Leve	Fine	0.6
24-Apr-20	2:13	50.5			55	Measured Noise Level<Limit Leve	Overcast	0.5
29-Apr-20	2:18	59.9			55	39.6*	Fine	0.4
8-May-20	2:12	57.7			55	Measured Noise Level<Baseline	Fine	0.4
15-May-20	2:15	55.2			55	Measured Noise Level<Baseline	Fine	0.2
22-May-20	2:17	57.4			55	Measured Noise Level<Baseline	Drizzle	0.6
29-May-20	2:20	55.1			55	Measured Noise Level<Baseline	Fine	0.3

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 24 Shatin Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Feb-20	23:47	56.5	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline	Fine	0.5
13-Feb-20	23:53	57.6			55	Measured Noise Level<Baseline	Fine	0.6
21-Feb-20	23:44	57.0			55	Measured Noise Level<Baseline	Fine	0.4
27-Feb-20	23:54	55.1			55	Measured Noise Level<Baseline	Fine	0.6
5-Mar-20	23:51	57.0			55	Measured Noise Level<Baseline	Fine	0.5
13-Mar-20	0:03	59.2			55	53.1*	Fine	0.6
20-Mar-20	0:06	59.7			55	54.9*	Hazy	0.5
27-Mar-20	0:05	59.7			55	54.9*	Fine	0.6
3-Apr-20	0:08	59.4			55	53.9*	Rainy	0.7
9-Apr-20	0:04	59.5			55	54.3*	Fine	0.6
17-Apr-20	0:02	59.8			55	55.0*	Fine	0.2
24-Apr-20	0:03	59.6			55	54.4*	Overcast	0.4
29-Apr-20	0:02	59.7			55	54.7*	Fine	0.5
8-May-20	0:05	58.3			55	46.2*	Fine	0.5
15-May-20	0:03	58.2			55	45.2*	Fine	0.4
22-May-20	0:10	58.2			55	44.0*	Drizzle	0.6
29-May-20	0:13	59.2			55	53.0*	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 25A Sheung Wo Che

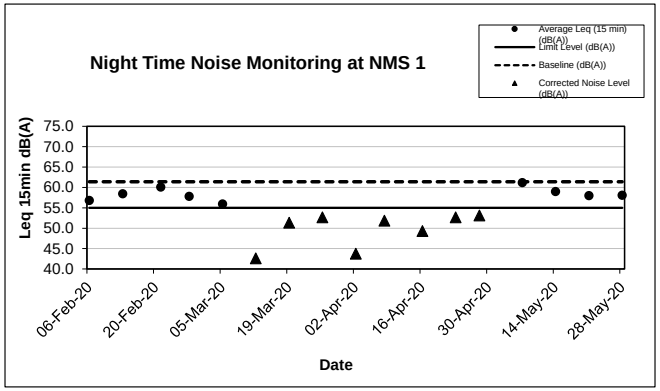
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	1:57	56.2	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.5
14-Feb-20	2:03	57.2		50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.6
22-Feb-20	1:57	56.1		50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.6
28-Feb-20	2:32	59.5		50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.4
6-Mar-20	2:06	56.2	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.5
13-Mar-20	2:13	58.8		50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.6
20-Mar-20	2:14	60.5		50.3 - 68.4	55	52.8*	Hazy	0.6
27-Mar-20	2:07	59.7		50.3 - 68.4	55	39.6*	Fine	0.4
3-Apr-20	2:11	59.6	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Rainy	0.5
9-Apr-20	2:07	59.1		50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.6
17-Apr-20	2:26	58.7		50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.6
24-Apr-20	2:25	58.8		50.3 - 68.4	55	Measured Noise Level<Baseline	Overcast	0.4
29-Apr-20	2:22	59.6		50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.5
8-May-20	2:25	60.6	59.7	50.3 - 68.4	55	53.4*	Fine	0.5
15-May-20	2:22	60.4		50.3 - 68.4	55	52.1*	Fine	0.6
22-May-20	2:25	60.9		50.3 - 68.4	55	54.9*	Drizzle	0.6
29-May-20	2:30	60.8		50.3 - 68.4	55	54.2*	Fine	0.4

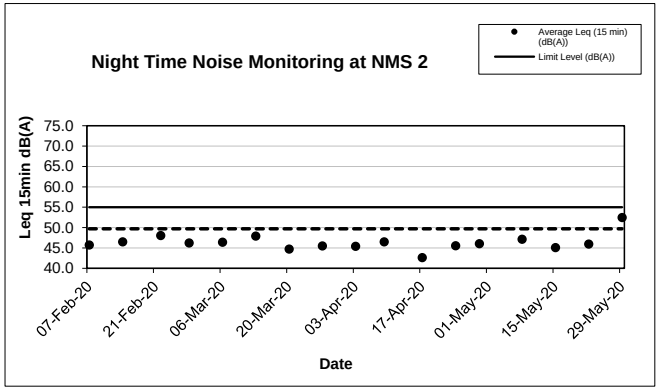
Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 26 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
7-Feb-20	0:35	58.6	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.4
14-Feb-20	0:35	58.0		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.7
22-Feb-20	0:37	59.6		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.5
28-Feb-20	0:39	57.2		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.6
6-Mar-20	0:39	57.8	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.7
13-Mar-20	0:42	55.9		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.6
20-Mar-20	0:42	58.7		45.7 - 70.1	55	Measured Noise Level<Baseline	Hazy	0.4
27-Mar-20	0:45	58.5		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.6
3-Apr-20	0:40	55.8	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Rainy	0.8
9-Apr-20	0:40	57.6		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.6
17-Apr-20	0:42	58.7		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.6
24-Apr-20	0:41	58.7		45.7 - 70.1	55	Measured Noise Level<Baseline	Overcast	0.5
29-Apr-20	0:40	58.7		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.8
8-May-20	0:42	59.1	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.9
15-May-20	0:46	60.2		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.2
22-May-20	0:51	60.3		45.7 - 70.1	55	Measured Noise Level<Baseline	Drizzle	0.8
29-May-20	0:41	58.5		45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.3

Calculated CNL = Measured Noise Level during operation – Baseline (dB(A)).


Night Time Noise Monitoring at NMS 1
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
06-Feb-20
20-Feb-20
05-Mar-20
19-Mar-20
02-Apr-20
16-Apr-20
30-Apr-20
14-May-20
28-May-20
Date


Night Time Noise Monitoring at NMS 2
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Leq 15min dB(A)
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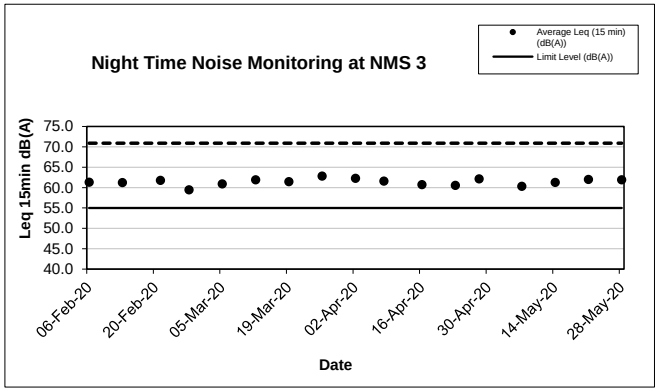
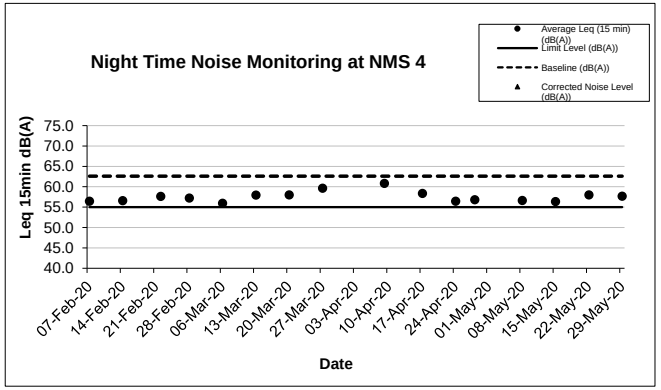
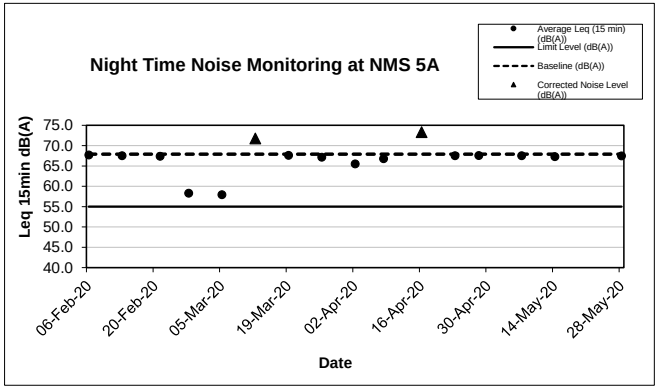
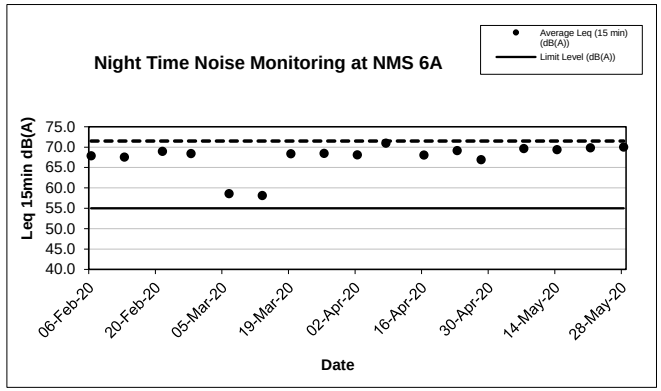
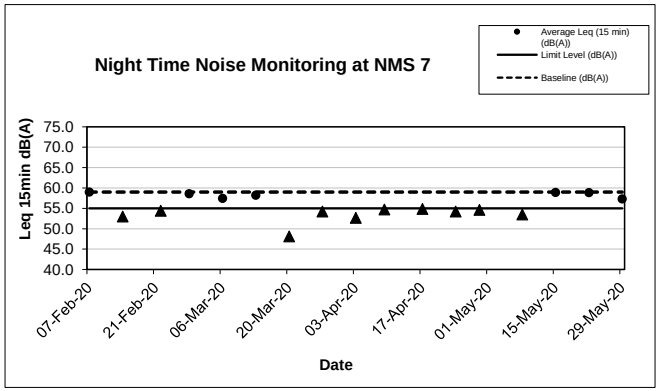
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 3
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
06-Feb-20
20-Feb-20
05-Mar-20
19-Mar-20
02-Apr-20
16-Apr-20
30-Apr-20
14-May-20
28-May-20
Date


Night Time Noise Monitoring at NMS 4
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
14-Feb-20
21-Feb-20
28-Feb-20
06-Mar-20
13-Mar-20
20-Mar-20
27-Mar-20
03-Apr-20
10-Apr-20
17-Apr-20
24-Apr-20
01-May-20
08-May-20
15-May-20
22-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 5A
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
06-Feb-20
20-Feb-20
05-Mar-20
19-Mar-20
02-Apr-20
16-Apr-20
30-Apr-20
14-May-20
28-May-20
Date


Night Time Noise Monitoring at NMS 6A
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
06-Feb-20
20-Feb-20
05-Mar-20
19-Mar-20
02-Apr-20
16-Apr-20
30-Apr-20
14-May-20
28-May-20
Date


Night Time Noise Monitoring at NMS 7
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
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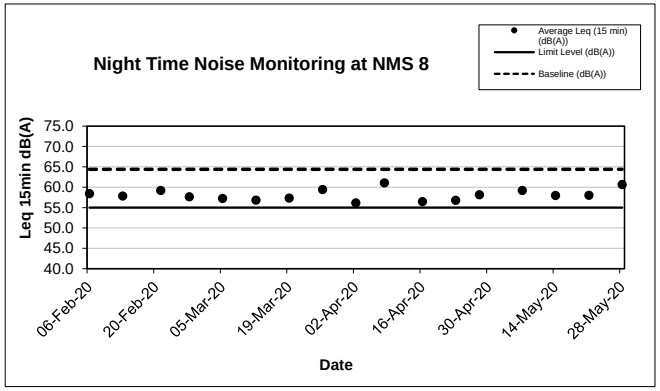
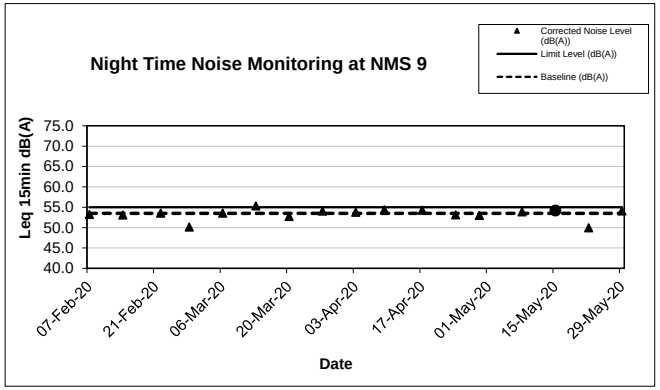
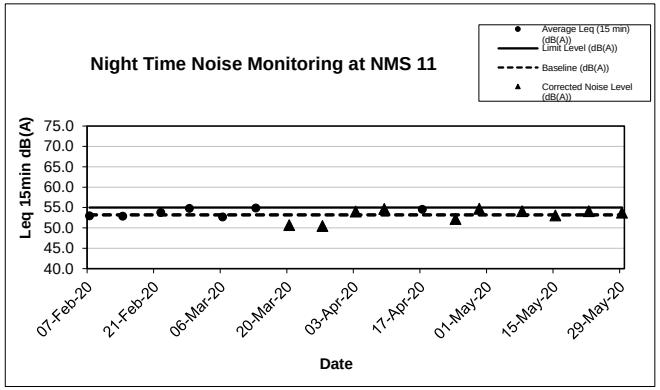
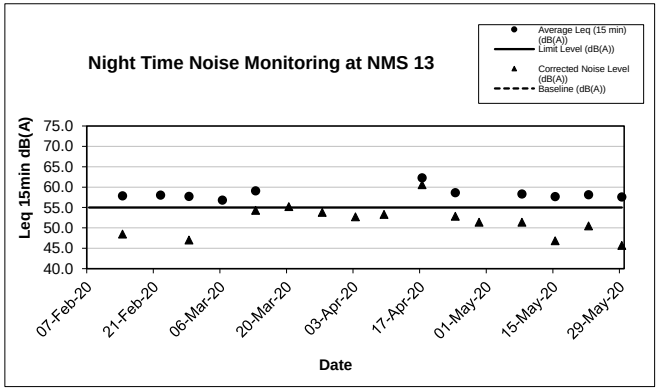
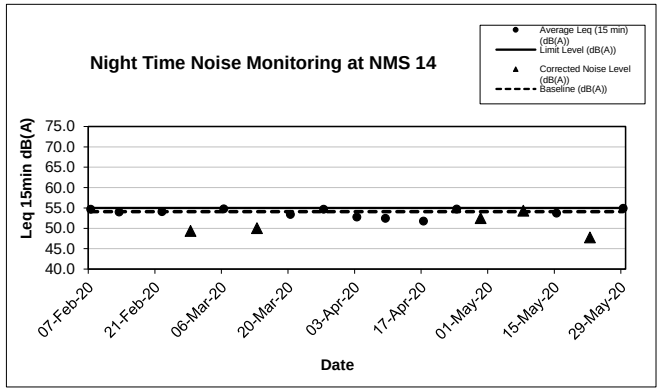
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date

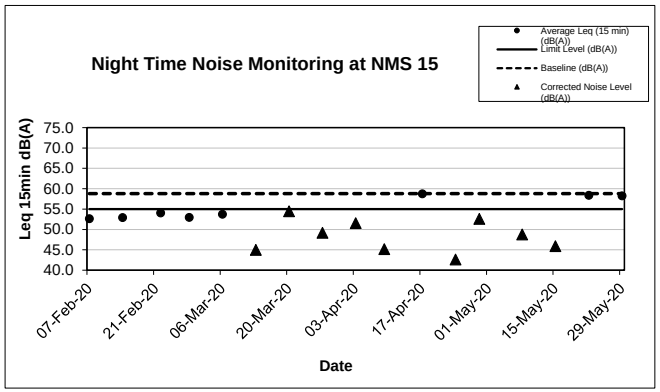

Night Time Noise Monitoring at NMS 8
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
06-Feb-20
20-Feb-20
05-Mar-20
19-Mar-20
02-Apr-20
16-Apr-20
30-Apr-20
14-May-20
28-May-20
Date

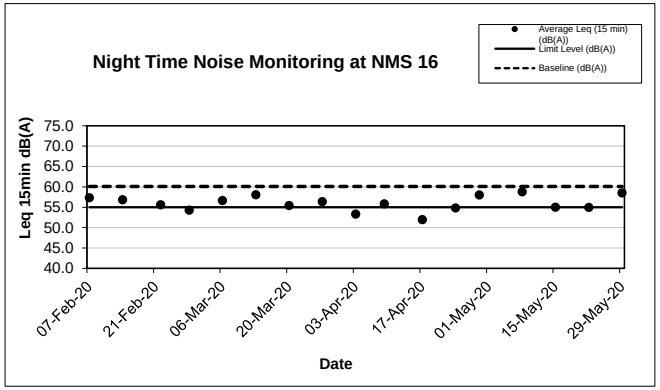

Night Time Noise Monitoring at NMS 9
Corrected Noise Level (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 11
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 13
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Corrected Noise Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 14
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Corrected Noise Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 15
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 16
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
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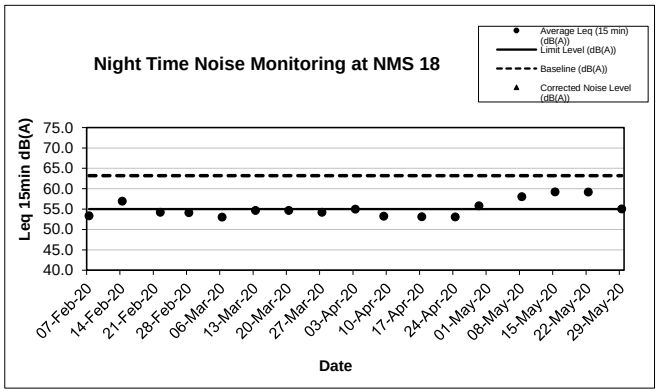
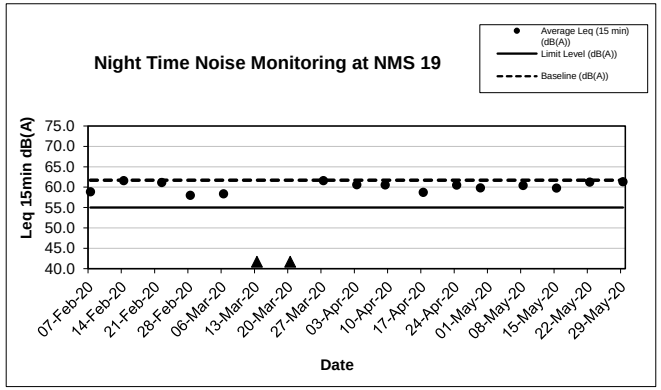
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 18
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
14-Feb-20
21-Feb-20
28-Feb-20
06-Mar-20
13-Mar-20
20-Mar-20
27-Mar-20
03-Apr-20
10-Apr-20
17-Apr-20
24-Apr-20
01-May-20
08-May-20
15-May-20
22-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 19
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
14-Feb-20
21-Feb-20
28-Feb-20
06-Mar-20
13-Mar-20
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27-Mar-20
03-Apr-20
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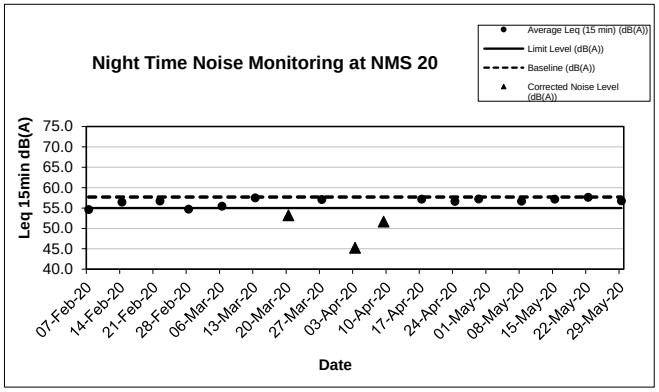
15-May-20
22-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 20
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
14-Feb-20
21-Feb-20
28-Feb-20
06-Mar-20
13-Mar-20
20-Mar-20
27-Mar-20
03-Apr-20
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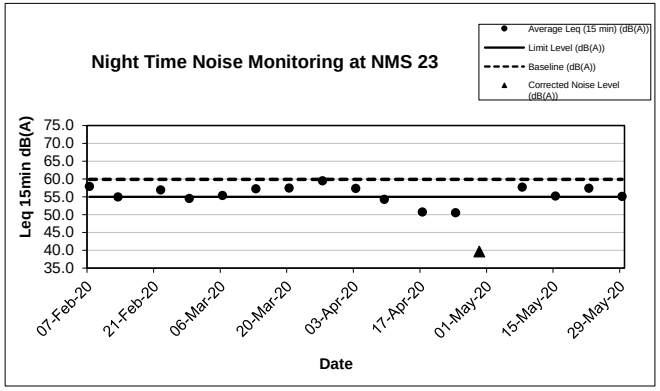
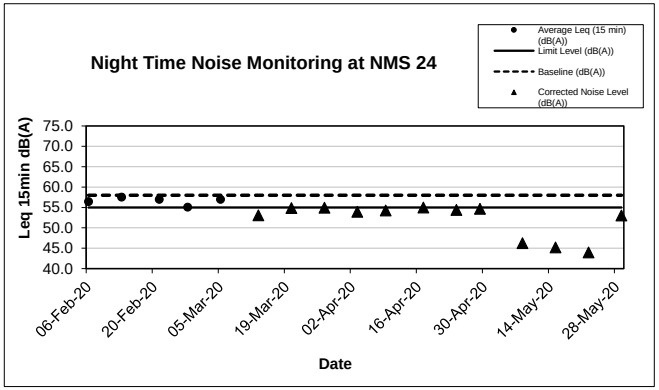
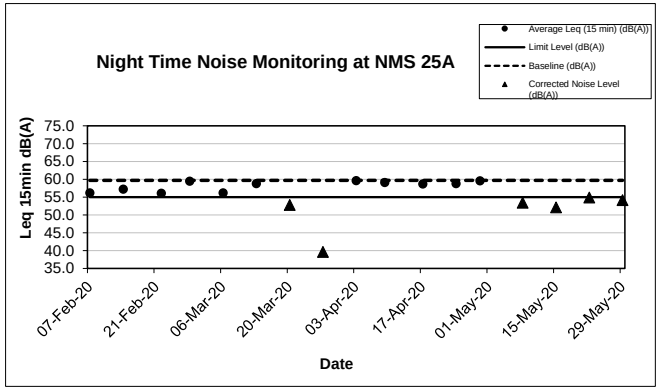
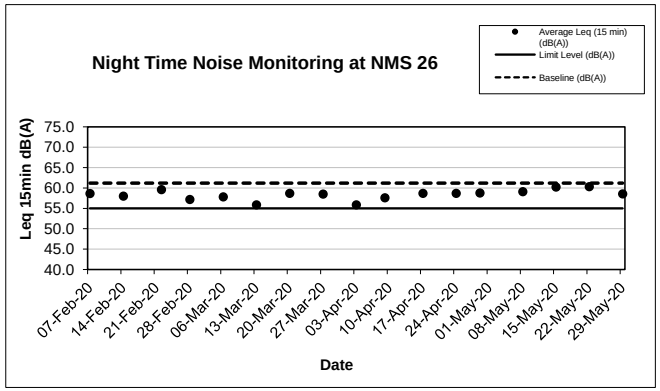
Date


Night Time Noise Monitoring at NMS 23
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
35.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 24
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
06-Feb-20
20-Feb-20
05-Mar-20
19-Mar-20
02-Apr-20
16-Apr-20
30-Apr-20
14-May-20
28-May-20
Date


Night Time Noise Monitoring at NMS 25A
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
35.0
07-Feb-20
21-Feb-20
06-Mar-20
20-Mar-20
03-Apr-20
17-Apr-20
01-May-20
15-May-20
29-May-20
Date


Night Time Noise Monitoring at NMS 26
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
07-Feb-20
14-Feb-20
21-Feb-20
28-Feb-20
06-Mar-20
13-Mar-20
20-Mar-20
27-Mar-20
03-Apr-20
10-Apr-20
17-Apr-20
24-Apr-20
01-May-20
08-May-20
15-May-20
22-May-20
29-May-20
Date

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Appendix E

Waste Flow Table

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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 (T)	Hard Rock and Large Broken Concrete (A)	Reused in the Contract (B)	Reused in other Projects (C)	Disposed as Public Fill (D)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics[2]	Chemical Waste	Others, e.g. general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
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

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Waste Flow Table for Year 2019

Months	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (T)	Hard Rock and Large Broken Concrete (A)	Reused in the Contract (B)	Reused in other Projects (C)	Disposed as Public Fill (D)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics[2]	Chemical Waste	Others, e.g. general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
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	0.175
2019 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082
Sub-Total	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.464
2019 Jul	0.141	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.000	0.069
2019 Aug	0.431	0.000	0.221	0.000	0.210	0.000	0.000	0.000	0.000	0.000	0.154
2019 Sep	0.712	0.000	0.223	0.000	0.489	0.297	0.000	0.000	0.000	0.000	0.046
2019 Oct	0.663	0.000	0.306	0.000	0.357	1.085	0.001	0.027	0.009	0.000	0.027
2019 Nov	1.154	0.000	0.143	0.000	1.011	0.428	0.000	0.019	0.000	0.000	0.095
2019 Dec	0.849	0.000	0.023	0.000	0.826	0.074	0.000	0.014	0.001	0.000	0.034
Total	4.200	0.000	0.916	0.000	3.284	1.884	0.001	0.060	0.010	0.000	0.889

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Waste Flow Table for Year 2020

Monthly Ending	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 '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2020 Jan	0.584	0.000	0.027	0.000	0.557	0.040	0.001	0.030	0.001	0.000	0.039
2020 Feb	1.072	0.000	0.042	0.000	1.030	0.000	0.001	0.026	0.003	0.000	0.013
2020 Mar	0.422	0.000	0.006	0.000	0.416	0.062	0.000	0.000	0.000	0.000	0.054
2020 Apr	0.450	0.000	0.000	0.000	0.450	0.000	0.002	0.085	0.003	0.000	0.025
2020 May	1.144	0.000	0.000	0.000	1.144	0.319	0.001	0.021	0.005	0.000	0.027
2020 Jun											
Sub-Total	3.672	0.000	0.075	0.000	3.597	0.421	0.005	0.162	0.012	0.000	0.158
2020 Jul											
2020 Aug											
2020 Sep											
2020 Oct											
2020 Nov											
2020 Dec											
Total	3.672	0.000	0.075	0.000	3.597	0.421	0.005	0.162	0.012	0.000	0.158

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

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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	2/2/2019	EPD	Noise	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	Noise	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 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.	Project-related	Closed
COM-2019-0010	28/3/2019	Project Hotline of NE/2017/05	Noise.	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	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				restricted hour.		
COM-2019-0033	26/7/2019	Police visit on-site	Noise	The complaint is related to the project. The Main Contractor comply with CNP No.: GW-RN0443-19 allowable construction site and within the site boundary to carry out night work on tree felling and the clearance of felled tree debris during the restricted hour. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) 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. Contractor was reminded to reschedule of tree felling arrangement that most of the fell branches and trunks were temporary laid on slope and arranged to cut smaller on Day Time to minimize the noise nuisance to the nearby NSRs.	Project-not related	Closed
COM-2019-0045	30/8/2019	1823	Noise	The complaint is related to the project. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor should strictly follow the use of acoustic enclosure as in condition 3.d.5. of the CNP during the operation of breaker, hand-held, mass <=10kg (CNP023) shall only be operated inside the acoustic enclosure composed of four side-panels and one top-panel, so that no part of such equipment is visible from any nearby noise sensitive receiver. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining, or equivalent construction. Contractor was reminded to use portable phones and head-set only for communication, and none of loudspeakers is allowed for night work activities.	Project-related	Closed
COM-2019-0056	9/10/2019	Project Hotline of NE/2017/05 and EPD	Noise	The complaint of the construction noise especially the breaker noise is project related. Due to the concern of road safety, the Contractor conducted the emergency road repair works under an Emergency Excavation Permit (EXP) of Plan ID: EO13123 issued by Highways Department (HyD). The main contractor's PR / hotline staff was reminded to enhance communication with sufficient information provided for replying any enquiry / complaint in the future. The main contractor was also reminded that noise mitigation measures should be provided as far as practicable subject to the emergency situation. For construction works	Project-related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				covered by the CNP issued by EPD, the main contractor should fully complied with the conditions as stipulated and provided all noise mitigation measures as required under the conditions of the CNP. For works subject to the emergency situation, noise mitigation measures such as noise barrier, enclosure etc. should be provided as far as practicable to minimise the noise nuisance to the NSRs.		
COM-2019-0057	9/10/2019	EPD	Noise	The complaint of the generator noise nuisance is related to the project. The concerned portable generator is supplying electric power for the Variable Message Sign (VMS) showing the speed limit in 50 km/hr. It is switched on and off manually by manpower, and would only be operated between daytime 07:00-19:00. No construction noise permit (CNP) should be required as the portable generator is not operating in restricted hours. The main contractor was reminded to strictly follow the use of their proposed semi-enclosure as the mitigation measures for the portable generator and the generator operates in daytime 07:00-19:00 only.	Project-related	Closed
COM-2019-0066	6/11/2019	EPD	Noise	The complaint of the emergency road repair work is related to the project. The works on on 5th November 2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre, including breaking operation. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise.	Project-related	Closed
COM-2020-0083	29/02/2020	Project email of NE/2017/05	Noise and Dust	The complaint of the dust and noise nuisance near Wai Wah Centre during both the day and night works was at zone 2. Contractor was reminded to enhance the water spray frequency on the construction site for mitigation measures on dust control. Also, Contractor should provide green tarpaulin curtain and additional acoustic Sound Proof Canvas as a secondary layer at the bottom of the mini-pile drilling machine to secure the total enclose condition to minimize the visual and noise impacts to nearby NSRs.	Project-not related	Closed
COM-2020-0089	24/03/2020	Project hotline	Noise	A resident of Wai Wah Centre complained that noise generated from construction activities at night disturbing the nearby resident. Loading/unloading, steel bar cutting, steel plate grinding and asphalt compaction were carried out in the early hours of 24th Mar 2020. The night work activities were within the site boundary. Also, 4 sides with top cover acoustic enclosure for	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				the portable generator was used during the night work. Furthermore, mitigation measures listed in the CNP were implemented for PMEs and works activities. Three sides with top cover enclosure and additional acoustic comprised with 50 mm sound absorbing lining were used for night works activities.		
COM-2020-0090	27/03/2020	Project hotline	Noise	Both complaint cases were concerning about the noise nuisance generated from the construction work activities at night time disturbing the nearby Wai Wah Centre residence. According to the Main Contractor, similar nature of major construction works carried out between 03:00 a.m. and 04:00 a.m. on 27th & 28th March 2020 was the asphalt compaction for the road surface remedial works at zone 2 south lane adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0002-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26th March 2020 to 04:00 27th March 2020, and between 23:00 2nd April 2020 to 04:00 3rd April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark on-site any noise related to construction works at above noise monitoring nights for which the results were lower than baseline noise level.	Project-not related	Closed
COM-2020-0091	28/03/2020					
COM-2020-0093	06/04/2020	Project hotline	Noise	The complaint case on 6th Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6th April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The corrected noise level measured at NMS 7 is lower than the night time limit 55dB (A). Therefore, there was no exceedance cases were found on ET regular night-time noise monitoring measurement.		
COM-2020-0096	20/04/2020	Project hotline	Noise	A continues complaint were received on 20 Apr and 21 Apr 2020. A resident of Wai Wah Centre filed three complaints about the noise nuisance generated by the nearby construction activities during daytime. Two complaints were made through project hotline on 20th Apr 2020 at 10:57 a.m. and 21st Apr 2020 at 9:03 a.m., while the other one was through project email on 20th Apr 2020 at 12:43 p.m. The noise source(s) of the concerned nuisance during complaint period should be mini piling works, which is opposite to Wai Wah Centre. According to the contractor's work schedule, major day work activity was mini-piling operation since early Feb 2020 at zone 2 in central median at non-restricted hours, from Mondays to Saturdays between 0800 and 1800 not including General Holidays. The mini piling operation on 20th & 21st Apr 2020 was carried out at non restricted hours. The limited level of noise generated by the construction of the Project during the non-restricted daytime hours will be 75 dB (A) for dwelling. The mini piling operation on 20th and 21st Apr 2020 was carried out at non restricted hours with green tarpaulin curtain and sound proof canvas. The noise level of NMS 5A and NMS 6A on 22nd Apr 2020 were 73.5 dB (A) and 72.6 dB (A) respectively. No noise exceedance was occurred at NMS 5A and NMS 6A. The construction activity on 22nd Apr 2020 was similar to 20th and 21st Apr 2020. Therefore, ET's day-time monitoring result on 22nd April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20th and 21st April 2020.	Project-not related	Closed
COM-2020-0097	20/04/2020	Project Email				
COM-2020-0098	21/04/2020	Project hotline				

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
COM-2020-0099	21/04/2020	Project hotline	Noise	The complaint cases on 21st Apr 2020 was received by project hotline from Police. According to the complainant who is the local resident at Wai Wah Centre, the noise source(s) of the concerned nuisance during night works was at zone 2 is opposite to Wai Wah Centre. The major construction works was road surface remedial work since 15th April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 23rd April 2020 to 04:00 24th April 2020. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. There were no exceedance on the night time noise monitoring, especially measured at NMS 5A & NMS 6A where locate at the Wai Wah Centre, the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Therefore, no exceedance cases were found on ET regular night-time noise monitoring measurement.	Project-not related	Closed
COM-2020-0100	23/04/2020	Project hotline	Noise	The complaint was received via project hotline on 23rd April 2020 at 10:45 a.m. A resident of Wai Wah Centre complained that noise generated from operation of the two piling machines disturbing her daughter's study for DSE examination, and demanding limitation on operation hours of the machines only at two separate periods between 12 noon and 1p.m and 3 p.m. to 6 p.m. According to the Main Contractor, the major construction works at day time (08:00-18:00) on 23rd April 2020 was mini-piling operation at Zone 2 Central Median of Tai Po Road near Wai Wah Centre. According to the	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				photo records of day-time site condition on 23rd April 2020 provided by Main Contractor, the green tarpaulin curtain was provided for the mini-pile drilling machines so that the bottom part of the mini-pile drilling machine was blocked from view of nearby NSR (e.g. residents at Wai Wah Centre) and an additional layer of sound proof canvas was installed at lower level to mitigate the noise from mini-pile drilling operation. The day-time noise monitoring results measured at NMS3, 4, 5A, 6A and 7 were all lower than the limit level, especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The monitoring results show no noise exceedance occurred at both locations. Thus, ET day-time monitoring result on 22nd April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23rd April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement.		
COM-2020-0101	28/04/2020	1823	Noise	The complainant on via ICC1823 on 28th April 2020 complained about the noise and odor nuisance generated from the night-time asphalt laying construction works at Shatin Rural Committee Road (Zone 3) area. Although the main contractor no work at zone 3, but the major night-time construction works was road surface remedial work which was related to the complainant concerned. The major construction works was road surface remedial work since 15th April 2020 at approved restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. Also, Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The lorry had been used in TTA implementation & road opening, portable generator and electric handheld breaker had been used in asphalt removal work, dump truck with grab had been used for loading and unloading of asphalt or rubble, vibratory compactor had been used in asphalt compaction for road	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				surface remedial works on 27^28 April 2020. The Main Contractor complied with CNP No.: GW-RN0152-20 that allowed PME used in Group C or Group F. According to the Main Contractor, advance "Notice to Affected Residents" had been issued and distributed on 26th March 2020 in accordance with the CNP advice that prior notification should be given to nearby residents. Besides, the road re-surfacing work would be carried out at approximately 14 night-time works between 2nd and 28th April 2020 listed in the distributed notices. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at NMS 5A & NMS 6A where locate close to the works area (Wai Wah Centre in Zone 2), the measured result at NMS 5A & 6A were all lower than that of measured in the baseline.		

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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
		Mar 2020	Apr 2020	May 2020	
Air	0	0	0	0	0
Noise	9	3	7	0	19
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	9	3	7	0	**19**

Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Reporting Period			Cumulative Project-to-Date
		Mar 2020	Apr 2020	May 2020	
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)

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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	Not Applicable
		• 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	Partially Implemented
		• The use of 3m high moveable barriers with skid footing and a small cantilevered upper portion 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.	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• 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 legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable.	Contractor	Implemented
		• 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,	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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.		
		• 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	Partially 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	Partially 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 Applicable
		• 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	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground.		
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 (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.	Contractor	Partially Implemented
		• 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	Contractor	Partially Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		constructed prior to the commencement of site formation and earthworks.		
		• 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
		• 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	Contractor	Partially Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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.		
		• 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	Partially Implemented
		• 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	Partially Implemented
		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	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	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**			

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in 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 to minimize any adverse visual impact on adjacent VSRs.	Contractor	Not Applicable
		• 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

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• 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 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.	Contractor	Partially Implemented
		• 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	Partially 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	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	• 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	Implemented
		• The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
	of materials/Prior to and during construction activities.	• 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 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.	Contractor	Implemented
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	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

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• 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	Implemented
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	Partially 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	Partially 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	Partially 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	Contractor	Partially Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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 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	Implemented
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	Partially Implemented

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

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