

JOB NO.: TCS01321/23

CEDD SERVICE CONTRACT NO. EDO 12/2023 ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE – SITE FORMATION AND ASSOCIATED INFRASTRUCTURE WORKS

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT (APRIL 2025)

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	Reference No.	Prepared By	Certified By
16 May 2025	TCS01321/23/600/R0751v2	Anh	Am

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Version	Date	Remarks
1	14 May 2025	First submission
2	16 May 2025	Amended according to IEC's comment



EXECUTIVE SUMMARY

- ES01 Action-United Environmental Services & Consulting (AUES) has been awarded the Civil Engineering and Development Department (CEDD) Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract) on 15 September 2023. As notifying by AECOM Asia Company Limited (Engineer's Representative) subsequently, the commencement date of the Service Contract is on 22 September 2023 for the Contract Period of 22 months.
- ES02 The previous service contract nos. NTE/07/2016 and EDO 8/2022, covering the environmental monitoring and audit (EM&A) service for the Development of Anderson Quarry Site (ARQ) for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively.
- ES03 The Services under the Service Contract is to provide EM&A services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the EM&A manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and EIA Report of Development of ARQ and other relevant statutory requirements.
- ES04 To facilitate the project management and implementation, the ARQ project involved five major infrastructure works CEDD contracts, the commencement date and anticipated completion date of the five works contracts are summarized in below table.

Contract	Commencement date	Anticipated completion date
NE/2016/01 (Contract 1)	December 2016	September 2023
NE/2016/05 (Contract 2)	March 2017	September 2023
NE/2017/03 (Contract 3)	May 2018	January 2025
ED/2020/02 (Contract 4)	July 2021	September 2025
ED/2019/02 (Contract 5)	March 2021	January 2025

- ES05 As notified by AECOM, the certificate of completion of the last section of the works have been issued for Contract 1 and Contract 2 on 30 June 2023 and 15 May 2023 respectively. Moreover, contract nos. NE/2017/03 (Contract 3) and ED/2019/02 (Contract 5), covering the environmental monitoring and audit (EM&A) service was completed in January 2025. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- ES06 This is the monthly EM&A report presenting the monitoring results and inspection findings for Contracts 4 for the period from 1 to 30 April 2025 (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES07 Environmental monitoring activities under the EM&A programme in the Reporting Period are summarized in the following table.

Environmental	Environmental Monitoring	Reporting Period	
Aspect	Parameters / Inspection	Number of Active Monitoring Locations	Total Occasions
Air Quality	1-hour TSP	7	105
Air Quality	24-hour TSP	4	24
Construction Noise	L _{eq(30min)} Daytime for Contract NE/2016/01	8	32
Construction Noise	$L_{eq(30min)}$ Daytime for Contract NE/2017/03	1	4



BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES08 In the Reporting Month, one (1) exceedance of Limit Level and one (1) Action Level were recorded on 14 April 2025. Notification of Exceedance (NOE) with preliminary investigation and on-site observation were issued to all parties, i.e. ER, Contractor, IEC and EPD. For construction noise monitoring, no Limit Level exceedance was recorded and no noise complaint (which triggered Action Level) was received in the reporting period. The environmental exceedance, NOE issued and investigation of exceedance are summarized in the following table.

Environmental	Monitoring	Action	Limit	nit Event & Action	
Aspect	Parameters	Level	Level	NOE Issued	Corrective Actions
Air Quality	1-hour TSP	0	0	0	NA
	24-hour TSP	1	1	1	NA
Construction Noise	L _{eq(30min)} Daytime	0	0	0	NA

ENVIRONMENTAL COMPLAINT

ES09 In the reporting period, no environmental complaint was received in the Reporting Period.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES10 No environmental summons or successful prosecutions for the Project were recorded in the Reporting Period.

REPORTING CHANGE

ES11 There is no reporting change in the Reporting Period.

SITE INSPECTION

ES12 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 4* were carried out by the RE, ET and Contractor on 1, 8, 15, 25 and 29 April 2025 in which IEC joined the site inspection with SSEMC on 25 April 2025. No non-compliance was noted during the site inspection.

FUTURE KEY ISSUES

- ES13 The Contractor are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.
- ES14 Since construction site is highly visible to the resident at nearby estates, the Contractors should pay special attention on potential environmental impact generated by the site activities and adhere implement adequate air quality and noise mitigation measures as far as practicable to reduce the impact to the public.
- ES15 Construction noise is one of the key environmental issues during construction work of the Project. Noise mitigation measures such as using quiet plants and noise barriers shall be implemented where practicable according to the EM&A manual.
- ES16 In addition, the Contractors should ensure all effluent discharge shall be fulfilled the Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or relevant discharge license requirement.



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1. INTRODUCTION

PROJECT BACKGROUND

- 1.1.1 Development of Anderson Road Quarry (ARQ) is to provide land and the associated infrastructures for the proposed land used at the existing ARQ Site at the North-eastern of East Kowloon according to the final Recommended Outline Development Plan (hereinafter named as the Project Works).
- 1.1.2 To facilitate the project management and implementation, the ARQ project involved five major infrastructure works CEDD contracts, the commencement date and anticipated completion date of the five works contracts are summarized in below table.

Contract	Commencement date	Anticipated completion date
NE/2016/01 (Contract 1)	December 2016	September 2023
NE/2016/05 (Contract 2)	March 2017	September 2023
NE/2017/03 (Contract 3)	May 2018	January 2025
ED/2020/02 (Contract 4)	July 2021	September 2025
ED/2019/02 (Contract 5)	March 2021	January 2025

- 1.1.3 Action-United Environmental Services & Consulting (AUES) has been awarded the Civil Engineering and Development Department (CEDD) Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract) on 15 September 2023. As notifying by AECOM Asia Company Limited (Engineer's Representative) subsequently, the commencement date of the Service Contract is on 22 September 2023 for the Contract Period of 22 months.
- 1.1.4 The Services under the Service Contract is to provide EM&A services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the EM&A manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and Environmental Impact Assessment (EIA) Report of Development of Anderson Road Quarry and other relevant statutory requirements.
- 1.1.5 The previous service contract nos. NTE/07/2016 and EDO 8/2022, covering the EM&A services for the Development of ARQ site for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively.
- 1.1.6 As notified by AECOM, the certificate of completion of the last section of the works have been issued for Contract 1 and Contract 2 on 30 June 2023 and 15 May 2023 respectively. Moreover, contract nos. NE/2017/03 (Contract 3) and ED/2019/02 (Contract 5), covering the environmental monitoring and audit (EM&A) service was completed in January 2025. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- 1.1.7 According to the Approved EM&A Manual, air quality and noise monitoring are required to be monitored during the construction phase of the Project. As part of the EM&A program, baseline monitoring is required to determine the ambient environmental conditions. Baseline monitoring including air quality and noise conducted between *January* and *April 2019* at all designated monitoring locations were before construction work commencement. Furthermore, the Baseline Monitoring Report which verified by the Independent Environmental Checker (hereinafter referred as "the IEC") has been submitted to Environmental Protection Department (EPD) on *9 May 2017* for endorsement.
- 1.1.8 This is the monthly EM&A report presenting the monitoring results and inspection findings for Contracts 4 for the period from 1 to 30 April 2025 (hereinafter 'the Reporting Period').



REPORT STRUCTURE

- 1.2.1 The monthly EM&A Report is structured into the following sections:-
 - Section 1 Introduction Section 2 Project Organization and Construction Progress Section 3 Summary of Impact Monitoring Requirements Section 4 Air Quality Monitoring Section 5 Construction Noise Monitoring Section 6 Waste Management Section 7 Site Inspections Section 8 Environmental Complaints and Non-Compliance Section 9 Implementation Status of Mitigation Measures Section 10 Conclusions and Recommendations



2. PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1 CONSTRUCTION CONTRACT PACKAGING

2.1.1 To facilitate the project management and implementation, the Project was divided by 5 works contracts as described in following. The details of each contract are summarized below and the delineation of each contract is shown in *Appendix A*.

Contract 1 (Contract No. NE/2016/01)

- 2.1.2 Commencement date of Contract 1 was in late December 2016 and the major construction work was completed in June 2023. The major scope of work of Contract 1 is listed below:
 - Formation of about 40 hectares (ha) of land platforms at the ARQ site and the associated geotechnical works;
 - Road works including construction of approximately 3-kilometer long vehicular roads, footpaths, cycle tracks, an approximately 130-meter long underpass at the southern end an a public transport terminus at the northern end at the ARQ site;
 - Provision of and improvement to water supply, drainage and sewerage systems as well as landscaping works; and
 - Construction of proposed subway structures and lift tower structures of pedestrian connectivity facilities.

Contract 2 (Contract No. NE/2016/05)

- 2.1.3 Commencement date of Contract 2 was in March 2017 and the major construction work was completed in May 2023. The major Scope of Work of the Contract 2 is listed below:
 - (i) Construction of the following pedestrian connectivity facilities with covered elevated walkways, covered at grad walkways, escalators, life towers with associate staircase and lifts:-
 - (a) Linking Hiu Kwong street with Hiu Ming Street (E1)
 - (b) Linking the proposed "Footbridge Link at Sau Ming Road" with Hiu Ming Street (E2, C1 and E3)
 - (c) Linking the proposed bus-to-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Lin Tak Road (E12)
 - (ii) Construction of bus-to-bus interchange (BBI) at Tseung Kwan O Tunnel Toll Plaza;
 - (iii) Associated landscape works

Contract 3 (Contract No. NE/2017/03)

- 2.1.4 The commencement date of Contract 3 was in May 2018 and the tentative completion date in September 2023. The major Scope of Work of the Contract 3 is listed below:
 - (i) Site formation and road works in the following sections:-
 - (a) at junction of Clear Water Bay Road (CWBR) and On Sau Road constructed under the Development at Anderson Road (DAR) project including the provision of U-turn facility and noise mitigation measures (RIW1);
 - (b) at New Clear Water Bay Road (NCWBR) near Shun Lee Tsuen Road including the road widening works at NCWBR, modification of existing subway structure and provision of noise mitigation measures (RIW2); and
 - (c) at the junction of Lin Tak Road and Sau Mau Ping Road, construction of flyover above Tseung Kwan O Road, provision of loading and unloading bays along Lin Tak Road and noise mitigation measures (RIW3).
 - (ii) Construction of the following pedestrian connectivity facilities with covered elevated walkways, escalators and lift towers with associated staircases and lifts:-
 - (a) linking Anderson Road Quarry site with the DAR Site (except the works covered under Contract 1) (System A and System B);
 - (b) linking Hiu Ming Street with Hiu Yuk Path (E8); and



- (c) linking the proposed bus-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Sau Mau Ping Road (E11).
- (iii) Associated landscape works.

Contract 4 (Contract No. ED/2020/02)

- 2.1.5 The commencement date of Contract 4 is in July 2021 and tentative completion date in December 2023. The major Scope of Work of the Contract 4 is listed below:
 - Hard landscaping and other ancillary works (e.g. paver footpath, planter walls, benches, lighting etc.)
 - Soft landscaping works; landscape deck, emergency vehicular access, access road:
 - Park lighting system;
 - Electrical and mechanical engineering works for underground water treatment facilities and pumping system for Artificial Flood Attenuation Lake; and
 - Potential slope enhancement requested by GEO.

Contract 5 (Contract No. ED/2019/02)

- 2.1.6 The commencement date of Contract 5 in March 2021 and tentative completion data in April 2024. The major Scope of Work of the Contract 5 is listed below:
 - Construction pedestrian connectivity facility with covered elevated walkway, covered at grade walkway and escalators linking Sau Mau Ping Road with the existing covered elevated walkway to Po Tat Estate (E5);
 - Construction a pedestrian connectivity facility with covered elevated walkway, covered at grade walkway and escalators linking Sau Mau Ping South Estate with the existing covered walkway to Sau Mau Ping Road (E6);
 - Construction a pedestrian connectivity facility with covered elevated walkway, elevated walkway, lift tower with associated staircase and lifts linking Hiu Kwong Street with podium of Sau Ming House, Sau Mau Ping Estate, provision of at grade staircase (E7)'
 - Construction a pedestrian connectivity facility with covered elevated walkway, lift tower with associated staircase and lifts linking podium of Po Tat Estate to Sau Mau Ping Road (E10); and
 - Ancillary works including electrical and mechanical, slope stabilization, drainage, utilities and landscaping works.

2.2 **PROJECT ORGANIZATION**

2.2.1 The project organization and contact details for Contracts 4 are shown in *Appendix B*.

2.3 CONSTRUCTION PROGRESS

2.3.1 The 3-month rolling construction programme for Contracts 4 are shown in *Appendix C*. The major construction activities conducted in the Reporting Period are summarized in below.

Contract 4 (ED/2020/02)

- Excavation work for Drainage Works at Portion 1a, 2a, 6, 8 & 12
- Drainage works at Portion 1a, 2a, 6, 8, 9 & 12
- Construction of E&M works at Portion 1a, 2a, 6, 8 & 12
- Construction of Planter at Portion 6, 8, 12
- Construction of hard landscape at Portion 6, 8, 12
- Construction of slab planter on elevated walkway at Portion 13b
- Backfilling works for B3 & B4 at Portion 13b
- Sewerage and Road works at G2-Site at Portion 13b
- Installation of rock mesh at Portion 10
- Repair works at Portion 10 and Portion 17



- Construction of Footpath at Portion 9
- Watermain works at Portion 13b
- 2.3.2 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 3, 4 and 5 are presented in *Tables 2-1*.

Table 2-1 Status of Environmental Licenses and Perm	its of the Contract 4
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		License/Permit Status				
Item	Description	Permit no./ account	Valid Period		Status	
		no./ Ref. no.	From	То		
1	Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation	EPD ref. no. 470496	19-Aug-21	NA	Valid	
2	WasteDisposalRegulation–Billing Account forDisposalofConstruction Waste	Account no. 7041336	6-Sep-21	NA	Valid	
3	Chemical Waste Producer Registration	Registration no. WPN 5213-296-C1206-12	14-Sep-21	End of project	Valid	
4	WaterPollutionControlOrdinance-DischargeLicense	WT00043000-2003	30-Jan-23	31-Jan-28	Valid	



3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

- 3.1.1 The Environmental Monitoring and Audit requirements are set out in the Approved EM&A manual. Environmental issues such as air quality, construction noise and water quality were identified as the key issues during the construction phase of the Project.
- 3.1.2 A summary of construction phase EM&A requirements are presented in the sub-sections below.

3.2 MONITORING PARAMETERS

- 3.2.1 The EM&A program of construction phase monitoring shall cover the following environmental issues:
 - Air quality; and
 - Construction noise
- 3.2.2 A summary of the monitoring parameters is presented in *Table 3-1*.

Table 3-1Summary of EM&A Requirements

Environmental Issue	Parameters
Air Quality	 1-hour TSP by Real-Time Portable Dust Meter; and 24 hour TSP by High Values Air Secondar
· ·	 24-hour TSP by High Volume Air Sampler Leq(30min) in normal working days (Monday to Saturday)
Noise	07:00-19:00 except public holiday
INDISC	• Supplementary information for data auditing, statistical results
	such as L_{10} and L_{90} shall also be obtained for reference.

3.3 MONITORING LOCATIONS

3.3.1 According to the EM&A Manual Section 4.6, seven (7) most representative and affected air sensitive receivers (ASR) were selected as air monitoring stations (AQM). During site visit at the subject site before the baseline monitoring, it was noted that some planned ASRs identified in the EM&A Manual are still under construction/ has not yet constructed and there were no suitable location to set up the high volume sampler to carry out the baseline 24-hour TSP monitoring. Therefore, a proposed change for the baseline monitoring programme was submitted and agreed by EPD before the baseline monitoring. The impact air quality monitoring locations are listed in *Table 3-2* and illustrated in *Appendix D*.

Table 5-2 Impact Monitoring Stations – Air Quality				
ID	ASR ID in EIA	Location in the EM&A Manual	Identified Location during Site Visit	Status
AMS-1	ACYC-01	Chi Yum Ching She	Ground of Chi Yum Ching facing the project site	Replaced by AMS-1a
AMS-1a (*)	ACYC-01	TanShanVillage No. 5 - 6	Ground of Tan Shan Village No. 5 - 6 facing the project site	Active
AMS-2 (#)	DARB-13	Block 8, Site B	Ground of Fung Tai House of On Tai Estate	Active
AMS-3 (:)	DARC-16	Planned Clinic and Community Centre, Site C2	Ground of Planned Clinic and Community Centre facing Anderson Road (Ancillary Facilities Building)	Active
AMS-4 (:)	DARC-26	Planned School, Site C2 Note 1	Ground of Active	Active
AMS-5	DARE-06	Block 5, DAR Site E	Main roof of Oi Tat House of On Tat Estate facing the project site	Active
AMS-6	DARE-17	Block 9, Site E	Main roof of Hau Tat House of	Active

 Table 3-2
 Impact Monitoring Stations – Air Quality



ID	ASR ID in EIA	Location in the EM&A Manual	Identified Location during Site Visit	Status
			On Tat Estate facing the project site	
AMS-7	AMYT-04	Ma Yau Tong Village	Balcony at 2 nd floor of Village House Anderson Road No. 1 facing the project site	Active

Note 1: The ASR is under construction.

(#) AMS-2 was activated on 26 November 2018 since Fung Tai House became an air sensitive receiver. 1-hour TSP monitoring was commenced on 26 November 2018 while installation of HVS for 24-hour TSP was pending approval from Housing Authority.

(*) 24-hour TSP monitoring at AMS1 was abandoned since May 2019 due to lack of power supply and the landlord was unreachable. The alternation location of AMS1a was activated on 15 June 2019 for 1-hour and 24-hour TSP monitoring. The proposal was agreed by EPD on 9 Aug 2019. (:) AMS-3 was effective on 3 December 2019 and AMS-4 was effective on 4 January 2023

Construction Noise

3.3.2 According to the EM&A Manual Section 5.5, three (3) most representative and affected noise sensitive receivers (NSR) were selected as monitoring stations. As recommended by the RE and agreed by IEC, one (1) additional noise monitoring location is proposed to add in Oi Tat House of On Tat Estate (hereafter "NMS-4") to oversee the possible noise impact pose to the resident in On Tat Estate, which is an existing NSR close to the major works activities. Moreover, review of impact monitoring location was proposed to IEC in view of the current site condition and it was agreed by all parties. The details of noise monitoring location are listed in *Table 3-3* and illustrated in *Appendix D*.

Table 3-3	Impact Monitoring Stations – Construction Noise			
ID	NSR ID in EIA	Location	Status	
NMS-1(:)	Site C2 – School 05 Note 1	Ground of Maryknoll Secondary School	Active	
NMS-2(:)	Site E – School	Rooftop of S.K.H. St. John's Tsang Shiu Tim Primary School, where 1m from the exterior of the building facing the project site	Active	
NMS-3(:)	Site C2 – R102–	Ground of Ancillary Facilities Building facing the project site	Active	
NMS-4*	Oi Tat House	1m from the exterior of ground floor façade of Oi Tat House of On Tat Estate facing the project site	Suspended	
NMS-4a#	Oi Tat House	Rooftop of Oi Tat House where 1m from the exterior of Oi Tat House facing the project site	Active	
NMS-5#	Hau Tat House	22/F, refuge floor of Hau Tat House where 1m from the exterior of Hau Tat House facing the project site.	Active	
NMS-6~	Yung Tai House of On Tai Estate	Rooftop of Yung Tai House where 1m from the exterior of the building facing the project site)	Active	
NMS-7~	Chi Tai House of On Tai Estate	Rooftop of Chi Tai House where 1m from the exterior of the building facing the project site	Active	
NMS-8^	No. 3-4 Ma Yau Tong Village	1m from the exterior of the building façade and facing the construction site	Active	

 Table 3-3
 Impact Monitoring Stations – Construction Noise



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ID	NSR ID in EIA	Location	Status				
Note 1:	Construction of th	he NSR is not yet commenced.					
(*)	Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017.						
(:)	<i>NMS-2 was effective on 15 November 2019, NMS-3 was effective on 3 December 2019 and NMS-1 was effective on 4 January 2023.</i>						
(#)	<i>Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 November 2017.</i>						
()	<i>Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 were effective on 28 Feb 2018.</i>						
Ô	<i>Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018.</i> Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.						

Addition Construction Noise Monitoring Location

3.3.3 A Work Instruction was issued from AECOM to AUES in November 2018 for installing three additional noise monitoring stations under Contract 3. According to the Work Instruction, one noise monitoring station was proposed to install at System A Area and two station monitoring points were proposed to install at E8 Area. The noise monitoring locations are shown in *Table 3-4* below and illustrated in *Appendix D*.

ID	Location Description		
CN1*	Holm Glad College	Ground floor of Holm Glad College, where 1m from the exterior of the building facing E8	
CN2*	Leung Shek Chee College	Ground floor of Leung Shek Chee College, where 1m from the exterior of the building facing E8	
CN3	Oi Tat House of On Tat Estate	Ground floor of Oi Tat House of On Tat Estate, where 1m from the exterior of the building facing System A	

 Table 3-4
 Additional Impact Monitoring Stations – Construction Noise

Note 1: Construction of the NSR is not yet commenced.

(*) Additional noise monitoring location was terminated by RE as the construction work at E8 was completed in September 2022. The last monitoring for CN1&CN2 was on 15 September 2022.

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 The requirements of impact monitoring in the approved *EM&A Manual* and presented as follows.

Air Quality Monitoring

- 3.4.2 Frequency of impact air quality monitoring is as follows:
 - 1-hour TSP 3 times every six days during course of works throughout the construction period
 - 24-hour TSP Once every 6 days during course of works throughout the construction period

Noise Monitoring

- 3.4.3 Noise monitoring will be to conduct at the all available designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of Leq_(30min) measurements between 07:00 and 19:00 hours on normal weekdays



3.5 MONITORING EQUIPMENT

Air Quality Monitoring

The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume 3.5.1 sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to prove that the instrument is capable of achieving a comparable results to the HVS. The instrument should be calibrated regularly, and the 1-hour sampling shall be determined on yearly basis by the HVS to check the validity and accuracy of the results measured by direct reading method. The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.

3.5.2 All equipment to be used for air quality monitoring is listed in *Table 3-5*.

Table 3-5 Equipment Model TISCH High Volume Air Sampler, HVS Model High Volume Air Sampler 24-hour TSP TE-5170 TISCH Model TE-5025A Calibration Kit Sibata LD-3B Laser Dust Monitor

Air Quality Monitoring Equipment

Portable Dust Meter

Noise Monitoring

1- hour TSP

- Sound level meter in compliance with the International Electrotechnical Commission 3.5.3 Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms-1.
- 3.5.4 Noise equipment as perform for construction phase monitoring is listed in *Table 3-6*.

Table 3-6 **Construction Noise Monitoring Equipment**

Equipment	Model
Integrating Sound Level Meter	Bruel & Kjaer 2238, Rion NL-31, Rion NL-52
Calibrator	Bruel & Kjaer 4231, NC-73, NC-75
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908

3.6 MONITORING METHODOLOGY

1-hour TSP

- 3.6.1 The 1-hour TSP monitor was a brand named "Sibata LD-3 Laser Dust monitor Particle Mass Profiler & Counter" which is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90° light scattering. The 1-hour TSP monitor consists of the following:
 - (a.) A pump to draw sample aerosol through the optic chamber where TSP is measured;
 - A sheath air system to isolate the aerosol in the chamber to keep the optics clean for (b.) maximum reliability; and
 - A built-in data logger compatible with Windows based program to facilitate data (c.) collection, analysis and reporting.
- 3.6.2 The 1-hour TSP meter to be used will be within the valid period, calibrated by the manufacturer prior to purchasing. Zero response of the instrument will be checked before and after each monitoring event.

24-hour TSP

3.6.3 The equipment used for 24-hour TSP measurement is Thermo Andersen Model GS2310 TSP



high volume air sampling system, which complied with *EPA Code of Federal Regulation*, *Appendix B to Part 50*. The High Volume Air Sampler (HVS) consists of the following:

- (a.) An anodized aluminum shelter;
- (b.) A 8"x10" stainless steel filter holder;
- (c.) A blower motor assembly;
- (d.) A continuous flow/pressure recorder;
- (e.) A motor speed-voltage control/elapsed time indicator;
- (f.) A 7-day mechanical timer, and
- (g.) A power supply of 220v/50 Hz
- 3.6.4 For HVS for 24-hour TSP monitoring, the HVS is mounted in a metallic cage with a top for protection and also it is sat on the existing ground or the roof of building. The flow rate of the HVS between 0.6m³/min and 1.7m³/min will be properly set in accordance with the manufacturer's instruction to within the range recommended in *EPA Code of Federal Regulation, Appendix B to Part 50*. Glass Fiber Filter 8" x 10" of TE-653 will be used for 24-Hour TSP monitoring and would be supplied by laboratory. The general procedures of sampling are described as below:-
 - A horizontal platform with appropriate support to secure the samples against gusty wind should be provided;
 - No two samplers should be placed less than 2 meters apart;
 - The distance between the sampler and an obstacle, such as building, must be at least twice the height that the obstacle protrudes above the sample;
 - A minimum of 2 meters of separation from any supporting structure, measured horizontally is required;
 - Before placing any filter media at the HVS, the power supply will be checked to ensure the sampler work properly;
 - The filter paper will be set to align on the screen of HVS to ensure that the gasket formed an air tight seal on the outer edges of the filter. Then filter holder frame will be tightened to the filter hold with swing bolts. The holding pressure should be sufficient to avoid air leakage at the edge;
 - The mechanical timer will be set for a sampling period of 24 hours (00:00 mid-night to 00:00 mid-night next day). Information will be recorded on the field data sheet, which would be included the sampling data, starting time, the weather condition at current and the filter paper ID with the initial weight;
 - After sampling, the filter paper will be collected and transfer from the filter holder of the HVS to a sealed envelope and sent to a local HOKLAS accredited laboratory for quantifying.
- 3.6.5 All the sampled 24-hour TSP filters will be kept in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.
- 3.6.6 The HVS used for 24-hour TSP monitoring will be calibrated before the commencement for sampling, and after in two months interval for 1 point checking of maintenance and six months interval for five points calibrate in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5025A) to establish a relationship between the follow recorder meter reading in cfm (cubic feet per minute) and the standard flow rate, Qstd, in m³/min. Motor brushes of HVS will be regularly replaced of about five hundred hours per time. The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period and the HOKLAS accredited certificate of laboratory are attached in *Appendix E*.

Noise Monitoring

3.6.7 As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979



(Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

- 3.6.8 All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq_(30 min) in six consecutive Leq_(5 min) measurements will be used as the monitoring parameter for the time period between 07:00-19:00 hours on weekdays throughout the construction period.
- 3.6.9 The sound level meter will be mounted d on a tripod at a height of 1.2 m and placed at the assessment point and oriented such that the microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield will be fitted for all measurements. Where a measurement is to be carried out at a building, the assessment point would normally be at a position 1 m from the exterior of the building façade. Where a measurement is to be made for noise being received at a place other than a building, the assessment point would be at a position 1.2 m above the ground in a free-field situation, i.e. at least 3.5 m away from reflective surfaces such as adjacent buildings or walls.
- 3.6.10 Immediately prior to and following each noise measurement the accuracy of the sound level meter will be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.
- 3.6.11 Noise measurements will not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed will be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.6.12 The sound level meter and calibrator are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at yearly basis. The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period is attached in *Appendix E*.

Meteorological Information

3.6.13 The meteorological information including wind direction, wind speed, humidity, rainfall, air pressure and temperature etc. during baseline monitoring is extracted from the closest Hong Kong Observatory Station. To obtain the most appropriate meteorological information where available, the data of temperature is extracted from the Kwun Tong Observatory Station; the data of wind speed and wind direction are extracted from Kai Tak Observatory Station and the data of humidity is extracted from King's Park Station.

3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS

3.7.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. According to the approved Environmental Monitoring and Audit Manual, the air quality, construction noise were set up, namely Action and Limit levels are listed in *Tables* 3-7 and 3-8.

Monitoring Station	Action Lev	vel ($\mu g / m^3$)	Limit Level (µg/m ³)		
Womening Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
AMS-1	313	154	500	260	
AMS-1a(*)	313	154	500	260	
AMS-2	319	165	500	260	
AMS-3	319	165	500	260	
AMS-4	315	165	500	260	

 Table 3-7
 Action and Limit Levels for Air Quality Monitoring



Monthly Environmental Monitoring & Audit Report (April 2025)

Monitoring Station	Action Lev	vel ($\mu g / m^3$)	Limit Level (µg/m ³)		
Monitoring Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
AMS-5	299	166	500	260	
AMS-6	303	168	500	260	
AMS-7	307	156	500	260	

(*) 24-hour TSP monitoring at AMSI was abandoned since May 2019 due to lack of power supply and the landlord was unreachable. The alternation location of AMS1a was activated on 15 June 2019 for 1-hour and 24-hour TSP monitoring. The proposal was agreed by EPD on 9 Aug 2019.

Table 3-8	Action and Limit Levels for Construction Noise

Monitoring Logotion	Action Level	Limit Level in dB(A)		
Monitoring Location	Time Period: 0700-1900 hours on normal weekdays			
NMS-1		$70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$		
NMS-2(@)		70 dB(A) = 703 dB(A)		
NMS-3(:)		7 5 dB(A)		
NMS-4*		75 dB(A)		
NMS-4a#	When one or more documented	75 dB(A)		
NMS-5#		75 dB(A)		
NMS-6~	complaints are received	75 dB(A)		
NMS-7~		75 dB(A)		
NMS-8^		75 dB(A)		
CN1+		$70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$		
CN2+		$70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$		
CN3+		75 dB(A)		

Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during Note 1: examination period.

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

Remark: (*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017.

(@) NMS-2 was effective on 15 November 2019.

(:) NMS-3 was effective on 3 December 2019

(#) Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 Nov 2017.

(~) Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 were effective on 28 Feb 2018.

(^) Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.

(+) Additional noise monitoring locations as instructed by AECOM which effective in Dec 18.

3.7.2 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix F*.

3.8 DATA MANAGEMENT AND DATA OA/OC CONTROL

- 3.8.1 All monitoring data will be handled by the ET's in-house data recording and management system. The monitoring data recorded in the equipment will be downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data will input into a computerized database properly maintained by the ET. The laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.
- For monitoring parameters that require laboratory analysis, the local laboratory shall follow the 3.8.2 QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4 AIR QUALITY MONITORING

4.1 GENERAL

- 4.1.1 In the Reporting Period, air quality monitoring was performed at the active designated monitoring locations AMS-1a, AMS-2, AMS-3, AMS-4, AMS-5, AMS-6 and AMS-7. Since installation of HVS for 24-hour TSP at AMS-2, AMS-3 and AMS-4 were pending approval from relevant departments, only 1-hour TSP monitoring was conducted at AMS-2, AMS-3 and AMS-4. Liaise with the Maryknool Secondary School of AMS-4 for installation of monitoring equipment at rooftop is in progress.
- 4.1.2 The air quality monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

4.2 **RESULTS OF AIR QUALITY MONITORING**

4.2.1 In the Reporting Period, a total of *105* events of 1-hour TSP monitoring and *24* events of 24-hours TSP were carried out and the monitoring results are summarized in *Tables 4-1 to 4-5*. The detailed 24-hour TSP monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

	24-hour	1-hour TSP (µg/m³)				
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
2-Apr-25	27	5-Apr-25	14:05	60	62	58
8-Apr-25	26	10-Apr-25	9:10	56	58	66
14-Apr-25	201	16-Apr-25	9:00	46	43	50
17-Apr-25	38	22-Apr-25	14:25	58	60	63
23-Apr-25	33	28-Apr-25	9:00	62	58	58
29-Apr-25	28					
Average (Range)	59 (26 - 201)	Avera (Rang	•		57 (43 - 66)	

 Table 4-1
 Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-1a)

Table 4-2Summary of 1-hour TSP Monitoring Results (AMS-2)

1-hour TSP (µg/m³)					
Date	Start Time	1 st reading	2 nd reading	3 rd reading	
5-Apr-25	9:08	75	71	68	
10-Apr-25	9:30	64	72	56	
16-Apr-25	9:30	62	58	64	
22-Apr-25	8:40	77	82	71	
28-Apr-25	9:30	64	58	64	
Average	Average (Range) 67 (56 – 82)				

Table 4-3Summary of 1-hour TSP Monitoring Results (AMS-3)

1-hour TSP (μg/m³)					
Date	Start Time	1 st reading	2 nd reading	3 rd reading	
5-Apr-25	8:55	56	63	60	
10-Apr-25	13:30	58	56	48	
16-Apr-25	13:00	52	56	54	
22-Apr-25	9:00	59	53	57	
28-Apr-25	13:00	58	56	60	
Average	Average (Range) 56 (48 – 63)				



Tuble 11 Summary of Filour 151 Monitoring Results (1105-1)							
	1-hour TSP (μg/m³)						
Date	Start Time	1 st reading	2 nd reading	3 rd reading			
5-Apr-25	13:10	67	72	70			
10-Apr-25	9:25	70	74	64			
16-Apr-25	8:55	74	76	76			
22-Apr-25	13:10	63	67	64			
28-Apr-25	8:55	70	74	76			
Average	Average (Range) 70 (63 – 76)						

Table 4-4Summary of 1-hour TSP Monitoring Results (AMS-4)

Table 4-5	Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-5)
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	24-hour	1-hour TSP (μg/m³)				
Date	TSP (µg/m ³)	Date Start Time		1 st reading	2 nd reading	3 rd reading
2-Apr-25	33	5-Apr-25	9:10	63	65	68
8-Apr-25	51	10-Apr-25	13:00	62	64	67
14-Apr-25	341	16-Apr-25	9:40	62	71	65
17-Apr-25	94	22-Apr-25	9:10	62	67	65
23-Apr-25	32	28-Apr-25	9:40	60	58	69
29-Apr-25	35					
Average (Range)	98 (32 - 341)	Average (Range)		65 (58 - 71)		

Table 4-6	Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-6)
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	24-hour		1-hour TSP (µg/m³)					
Date	TSP (μg/m ³)	Date Start Time		1 st reading	2 nd reading	3 rd reading		
2-Apr-25	30	5-Apr-25	9:50	64	67	69		
8-Apr-25	57	10-Apr-25	14:00	60	66	62		
14-Apr-25	116	16-Apr-25	13:00	63	70	66		
17-Apr-25	38	22-Apr-25	9:50	65	69	71		
23-Apr-25	33	28-Apr-25	14:00	60	63	66		
29-Apr-25	63							
Average (Range)	56 (30 - 116)	Average (Range)		65 (60 - 71)				

Table 4-7	Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-7)
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	24-hour	1-hour TSP (µg/m³)					
Date	TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
2-Apr-25	10	5-Apr-25	13:00	78	71	80	
8-Apr-25	29	10-Apr-25	14:00	69	64	70	
14-Apr-25	28	16-Apr-25	14:00	56	52	56	
17-Apr-25	57	22-Apr-25	13:05	72	77	66	
23-Apr-25	15	28-Apr-25	14:00	69	73	71	
29-Apr-25	2						
Average (Range)	24 (2 - 57)	Average (Range)		68 (52 - 80)			

4.2.2 As shown in *Tables 4-1 to 4-7*, all the 1-hour TSP monitoring results in the Reporting Period were below the Action and Limit Levels. One (1) Limit Level and one (1) Action Level



exceedance of 24-hour TSP monitoring was recorded, investigation results of the exceedance are shown in *Table 4-8*.

Date	Station	Exceedance	Investigation
14 April 2025	AMS1a and AMS5	Action Level and Limit Level	The monitoring results of 24-hour TSP on 14 April 2025 exceeded the Action Level at AMS1a and Limit level at AMS5 respectively.
			According to the information from the Environmental Protection Department, the level of suspended particulates in Hong Kong began to rise due to a dusty air stream associated with the northeast monsoon, starting at 10 PM on 12 April 2025. On 13 April 2025, Hong Kong recorded significant impacts from these dusty air streams, with effects lasting from a few hours to several days. On 14 and 15 April 2025, the Air Quality Health Index (AQHI) at the Kwun Tong air monitoring station reached the "Serious (10+)" risk level. Based on the AQHIs, it implied that the localized air quality was generally poor.
			According to the site information provided by Contractor of Contract 4, the major construction activities conducted on 14 April 2025 included formboard erecting and reinforcement fixing work at Portion 8 Wing A; manhole cover works at Portion 12; and tree planting at Portion 6. These are general site activities to be carried out in recent months.
			To reduce dust impact arising from the construction, mitigation measures for dust control were implemented, including:
			- Water trucks were deployed and water spraying on haul road to keep road surface wet.
			- Covered exposed slope with tarpaulin sheet to minimize dust impact.
			During the joint site inspection with RSS, Contractor and ET on 15 April 2025, no dust emissions from the works area was observed. The Contractor was properly implementing the dust mitigation measure under EMIS and no adverse environmental issue related to dust aspect was observed.
			In our investigation, it is concluded that the exceedances of 24-hours TSP on 14 April 2025 appeared to be associated with other pollutant sources and short-term impact, and unlikely to be caused by the project work.
			The Contractor was reminded to fully implement the dust mitigation measures as recommended in the implementation schedule for environmental mitigation measures in the EM&A Manual.

Tuble 1.0 Summary of Investigation Result for at front for formed ing Enceedance	Table 4-8	Summary of Investigation Result for 24-Hour TSP Monitoring Exceedance
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4.2.3 The meteorological data during the impact monitoring days are summarized in *Appendix J*.



5 CONSTRUCTION NOISE MONITORING

5.1 GENERAL

- 5.1.1 In the Reporting Period, noise monitoring was performed at designated monitoring locations NMS1, NMS2 and NMS3 and the additional monitoring locations NMS4a, NMS5, NMS6, NMS7 and NMS8.
- 5.1.2 In addition, a Work Instruction was issued from AECOM to AUES in November 2018 for installing three additional noise monitoring stations, i.e., CN1, CN2 and CN3 for Contract 3. Impact noise monitoring was performed at the three additional noise monitoring locations since December 2018. Additional noise monitoring location was terminated by RE as the construction work at E8 was completed in September 2022. The last monitoring for CN1 & CN2 was on 15 September 2022.
- 5.1.3 The noise monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

5.2 NOISE MONITORING RESULTS IN REPORTING MONTH

5.2.1 In the Reporting Period, a total of **32** events noise measurements were carried out at the designated locations under Contract 1. The noise monitoring results at the designated locations are summarized in *Tables 5-1*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

	Construction Noise Level (L _{eq30min}), dB(A)							
Date	NMS1	NMS2	NMS3	NMS4a	NMS5	NMS6	NMS7	NMS8
10-Apr-25	<u>70</u>	61	55	56	62	67	66	62
16-Apr-25	<u>70</u>	61	58	67	58	64	62	61
22-Apr-25	64	64	63	66	64	65	64	65
28-Apr-25	<u>70</u>	59	63	62	60	67	64	60
Limit Level	70 dB(dB(A	A) / 65 .) ^{Note 1}	75 dB(A)					

 Table 5-1
 Summary of Construction Noise Monitoring Results for Contract 1

Note 1: Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during examination period NMS1 DSE examination period: 1 to 30 April 2025

NMS2 examination period: 9 to 15 April 2025

- 5.2.2 As shown in above table, the noise measurement result at NMS1 on 10, 16 and 28 April 2025 was 70dB(A), which exceeded the Limit Level. The baseline noise level measured at NMS1 was 69.0dB(A), and baseline noise correction should be applied to the impact monitoring result, where exceedance occurred. With reference to the baseline, the corrected construction noise level at NMS1 on 10, 16 and 28 April 2025 is 63.1, which fall within the Limit Level.
- 5.2.3 For the additional noise monitoring under Contract 3, a total of 4 events noise measurements were performed for the Contract. The noise monitoring results are summarized in *Tables 5-2*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.



Table 5-2Summary of Construction Noise Monitoring Results for Contract 3

Construction Noise Level (Leq30min), dB(A)						
Date	CN3					
10-Apr-25	60					
16-Apr-25	61					
22-Apr-25	63					
28-Apr-25	62					
Limit Level	75 dB(A)					

Note 1: Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during examination period.

^{5.2.4} As shown in *Tables 5-1 and 5-2*, no Limit Level exceedance was recorded in this Reporting Period. No noise complaint (which triggered Action level exceedance) was received under the Project.



6 WASTE MANAGEMENT

6.1 GENERAL WASTE MANAGEMENT

6.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

6.2 **RECORDS OF WASTE QUANTITIES**

- 6.2.1 All types of waste arising from the construction work are classified into the following:
 - Construction & Demolition (C&D) Material;
 - Chemical Waste;
 - General Refuse; and
 - Excavated Soil.
- 6.2.2 The quantities of waste for disposal in this Reporting Period are summarized in *Tables 6-1* and *6-2* and the Monthly Summary Waste Flow Table is shown in *Appendix K*. Whenever possible, materials were reused on-site as far as practicable.

Table 6-1Summary of Quantities of Inert C&D Materials

Type of Waste	Contract 4			
Type of waste	Quantity	Disposal Location		
Total generated Inert C&D Materials ('000m ³) (#)	1.028	-		
Hard Rock and Large Broken Concrete ('000m ³)	0	-		
Reused in this Contract (Inert) ('000m ³)	0	-		
Reused in other Projects (Inert) ('000m ³)	0	-		
Disposal as Public Fill (Inert) ('000m ³)	1.028	TKO 137		

Remark (#): The total generated inert C&D materials will not take account for the hard rock and large broken concrete.

(*) Approved alternative disposal ground.

Table 6-2Summary of Quantities of C&D Wastes

Tune of Weste	Contract 4				
Type of Waste	Quantity	Disposal Location			
Recycled Metal ('000kg)	0	-			
Recycled Paper / Cardboard Packing ('000kg)	0	-			
Recycled Plastic ('000kg)	0	-			
Chemical Wastes ('000kg)	0	-			
General Refuses ('000m ³)	0.045	-			



7 SITE INSPECTION

7.1 REQUIREMENTS

7.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections should be carried out to confirm the environmental performance.

7.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

Contract 4

7.2.1 In the Reporting Period, joint site inspections for Contract 4 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 1, 8, 15, 25 and 29 April 2025 in which IEC joined the site inspection with SSEMC on 25 April 2025. No non-compliance was noted. The findings / deficiencies of *Contract 4* that observed during the weekly site inspection are listed in *Table 7-1*.

Date	Findings / Deficiencies	Follow-Up Status
1 April 2025	• General waste was found on the ground which should be store at designated area to maintain site hygiene.	• General waste was removed and stored at designated area.
8 April 2025	• Dusty area should be spray with water to prevent dust pollution.	• Dusty area were sprayed with water to prevent dust pollution.
15 April 2025	• The Contractor was reminded to enhance measurement to prevent storm runoff from crossing the site.	• Reminder only.
25 April 2025	• The Contractor was reminded to maintain drainage system.	• Reminder only.
29 April 2025	No environmental issue was observed during site inspection.	• NA

Table 7-1Site Observations of Contract 4



8 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

8.1 Environmental Complaint, Summons and Prosecution

- 8.1.1 In the Reporting Period, no environmental complaint was received. Besides, no summons and prosecution under the EM&A Programme was lodged for the project.
- 8.1.2 The complaint log is shown in *Appendix M*.
- 8.1.3 The statistical summary table of environmental complaint, summons and prosecution is presented in *Tables 8-1, 8-2* and *8-3*.

	Contract	Environmental Complaint Statistics		
Reporting Period	no.	Frequency	Cumulative	Complaint Nature
27 Sep 2021 – 31 March 2025	4	0	11	NA
	1	0	70	NA
	2	0	10	NA
1 – 30 April 2025	3	0	9	NA
	4	0	13	NA
	5	0	0	NA

 Table 8-1
 Statistical Summary of Environmental Complaints

Departing Devied	Contract	Environmental Summons Statistics		
Reporting Period	no.	Frequency	Cumulative	Summons Nature
27 Sep 2021 – 31 March 2025	4	0	0	NA
	1	0	0	NA
	2	0	0	NA
1 – 30 April 2025	3	0	0	NA
	4	0	0	NA
	5	0	0	NA

 Table 8-3
 Statistical Summary of Environmental Prosecution

Donouting Douiod	Contract	Environmental Prosecution Statistics		
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature
27 Sep 2021 – 31 March 2025	4	0	0	NA
	1	0	0	NA
	2	0	0	NA
1 – 30 April 2025	3	0	0	NA
	4	0	0	NA
	5	0	0	NA



9 IMPLEMENTATION STATUS OF MITIGATION MEASURES

9.1 GENERAL REQUIREMENTS

- 9.1.1 The environmental mitigation measures that recommended in the Implementation Schedule for Environmental Mitigation Measures (ISEMM) in the approved EM&A Manual covered the issues of dust, noise, water and waste and they are summarized presented in *Appendix L*.
- 9.1.2 All contracts under the Project shall be implementing the required environmental mitigation measures according to the approved EM&A Manual as subject to the site condition. Environmental mitigation measures generally implemented in this Reporting Period are summarized in *Table 9-1*.

	Environmental willigation measures	
Issues	Environmental Mitigation Measures	
Water Quality	 Wastewater to be treated by filtration system; such as, silt curtain or sedimentation tank before discharge. Replace silt curtain materials if necessary 	
Air Quality	 Maintain damp / wet surface on access road Keep slow speed in the sites All vehicles must use wheel washing facility before off site All vehicles must use wheel washing facility before off site Sprayed water during breaking works 	
Noise	 Restrain operation time of plants from 07:00 to 19:00 on any working day except for Public Holiday and Sunday. Keep good maintenance of plants Place noisy plants away from residence or school Provide noise barriers or hoarding to enclose the noisy plants or works Shut down the plants when not in used. 	
Waste and Chemical Management	 On-site sorting prior to disposal Follow requirements and procedures of the "Trip-ticket System" Predict required quantity of concrete accurately Collect the unused fresh concrete at designated locations in the sites for subsequent disposal 	
General	The site was generally kept tidy and clean.	

 Table 9-1
 Environmental Mitigation Measures

9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

Contract 4 (ED/2020/02)

- Excavation work for Drainage Works at Portion 1a, 2a, 6 ,8 & 12
- Drainage works at Portion 1a, 2a, 6, 8, 9 & 12
- Construction of E&M works at Portion 1a, 2a, 6, 8, 12
- Construction of Planter at Portion 6, 8, 12
- Construction of hard landscape at Portion 6, 8, 12
- Construction of slab planter on elevated walkway at Portion 13b
- Backfilling works for B3 &B4 at Portion 13b
- Sewerage and Road works at G2-Site at Portion 13b
- Installation of rock mesh at Portion 10
- Repair works at Portion 10 and Portion 17
- Construction of Footpath at Portion 9
- Watermain works at Portion 13b
- Planting works at Portion 2a, 2b, 6, 8 and 12
- Hard landscape works at Portion 2b
- Scaffolding erection works for the buildings at Portion 2a



9.3 KEY ISSUES FOR THE COMING MONTH

- 9.3.1 Key issues to be considered in the coming month include:
 - Implementation of dust suppression measures at all times;
 - Potential wastewater quality impact due to surface runoff;
 - Potential fugitive dust quality impact due from the dry/loose/exposure soil surface/dusty material;
 - Disposal of empty engine oil containers within site area;
 - Ensure dust suppression measures are implemented properly;
 - Sediment catch-pits and silt removal facilities should be regularly maintained;
 - Management of chemical wastes;
 - Discharge of site effluent to the nearby wetland, stockpiling or disposal of materials, and any dredging or construction area at this area are prohibited;
 - Follow-up of improvement on general waste management issues; and
 - Implementation of construction noise preventative control measures
- 9.3.2 The Contractor should fully implement air quality mitigation measures to reduce construction dust emission as far as practicable. Furthermore, since construction site is highly visible to the resident at nearby estates, noise mitigation measures such as using of quiet plants should be implemented in accordance with the EM&A requirement.
- 9.3.3 During wet season, the Contractors should pay special attention on water quality mitigation measures and fully implement according to the ISEMM of the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained. The implementation of water quality mitigation measures conducted by the Contractor is shown in *Appendix N*.



10 CONCLUSIONS AND RECOMMENDATIONS

10.1 CONCLUSIONS

- 10.1.1 This is 97th monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from 1 to 30 April 2025.
- 10.1.2 The previous service contractor nos. NTE/07/2016 and EDO 8/2022, covering the EM&A service for the Development ARQ for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- 10.1.3 In the Reporting Period, no 1-hour TSP monitoring and noise monitoring results that triggered the Action or Limit Levels were recorded. One (1) Limit Level and one (1) Action Level on 24-hour TSP monitoring was recorded on 14 April 2025. Notification of Exceedance (NOE) with preliminary investigation and on-site observation were issued to all parties, i.e. ER, Contractor, IEC and EPD.
- 10.1.4 In the Reporting Period, no environmental complaint was received in Reporting Period.
- 10.1.5 No notification of summons or successful prosecution was received under the Project.
- 10.1.6 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 4 in accordance with the EM&A Manual stipulation whereas IEC performed monthly site inspection for both contracts. No non-compliance observed during the site inspection.

10.2 RECOMMENDATIONS

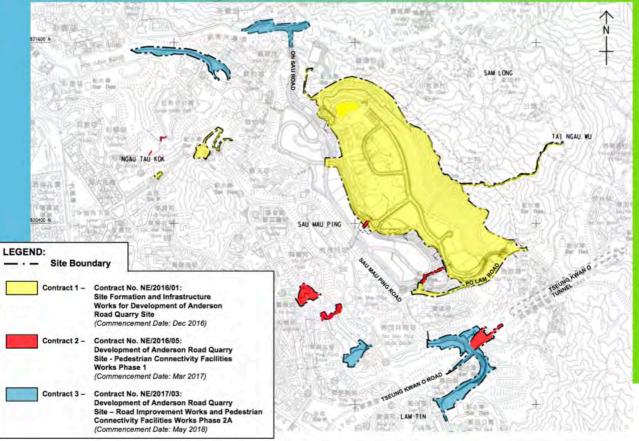
- 10.2.1 The Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.
- 10.2.2 Since construction site is highly visible to the resident at nearby estates, the Contractors should pay special attention on potential environmental impact generated by the site activities and adhere implement adequate air quality and noise mitigation measures as far as practicable to reduce the impact to the public.
- 10.2.3 Construction noise is one of the key environmental issues during construction work of the Project. Noise mitigation measures such as using quiet plants and noise barriers shall be implemented where practicable according to the EM&A manual.
- 10.2.4 In addition, the Contractors should ensure all effluent discharge shall be fulfilled the Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or relevant discharge license requirement.
- 10.2.5 Mosquito control measures should be continued to prevent mosquito breeding on site.



Appendix A

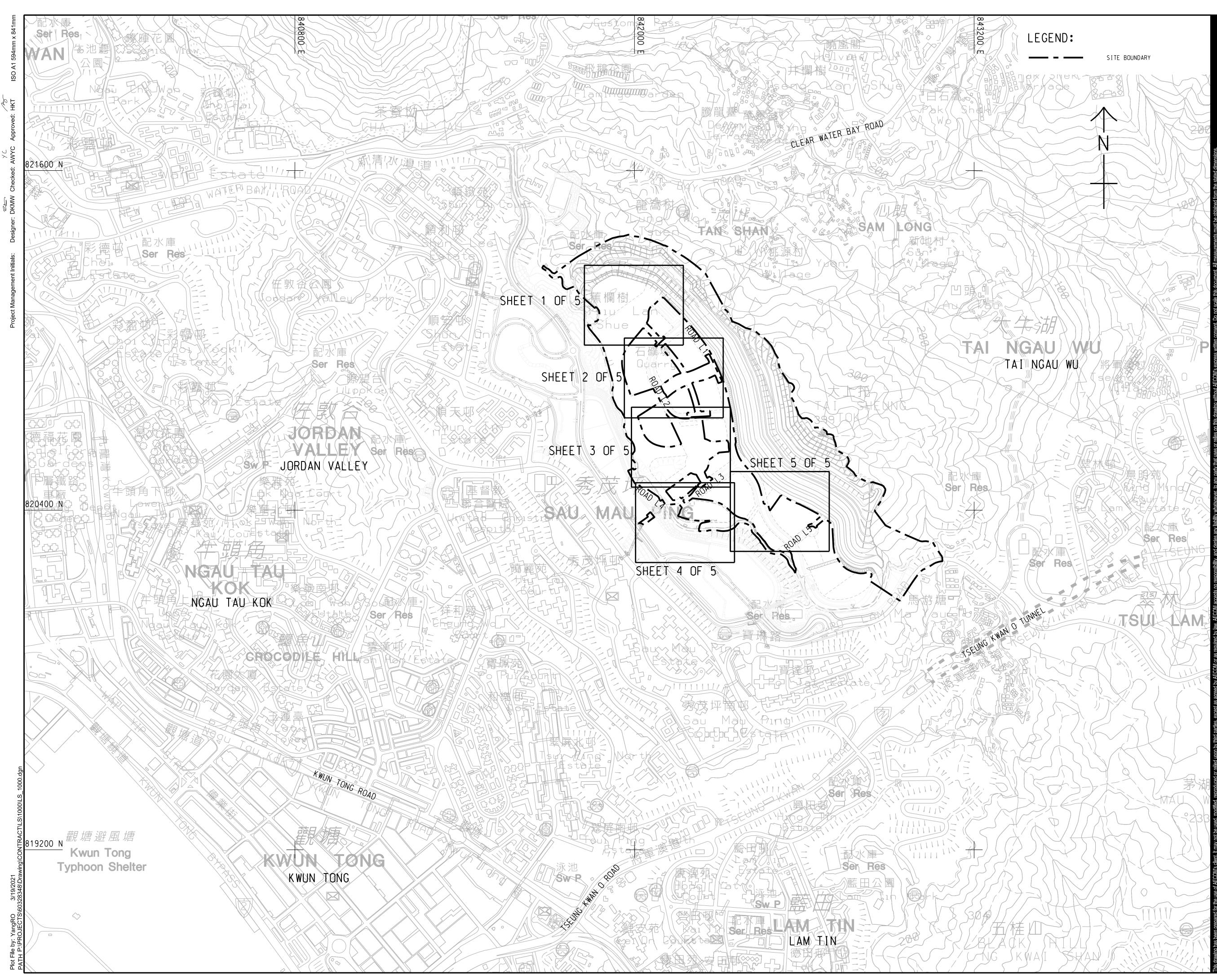
Layout plan of the Project

Contract Packages





Layout plan of Contract 4 (ED/2020/02)



γC



PROJECT

DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - INVESTIGATION, DESIGN AND CONSTRUCTION

CONTRACT TITLE DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - INFRASTRUCTURE, GREENING AND LANDSCAPE WORKS

CLIENT



 CEDD

 土木工程拓展署

 CEDD

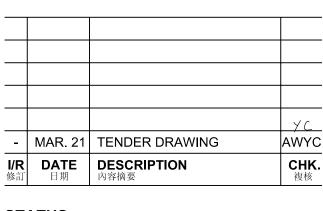
 Civil Engineering and Development Department

CONSULTANT

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION



SCALE 比例	DIMENSION UNIT 尺寸單位
A1 1 : 6000	METRES
KEY PLAN ^{委山國}	

PROJECT NO. ^{項目編號} CONTRACT NO. _{合約編號} ED/2020/02 60328348 **SHEET TITLE** 圖紙名稱 KEY PLAN

SHEET NUMBER 圖紙編號

60328348/LS/1000

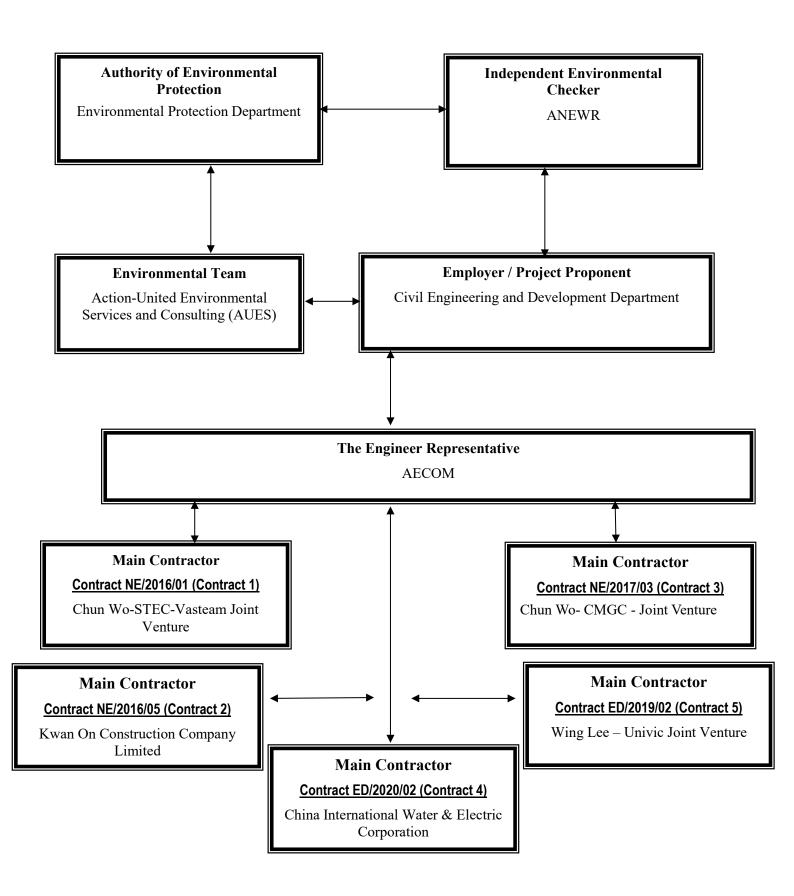


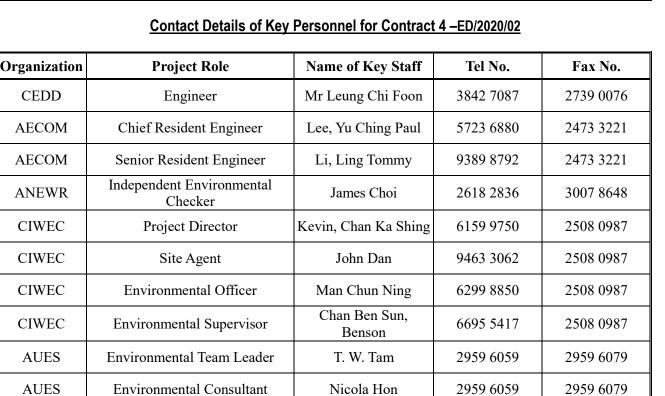
Appendix B

Project Organization Structure



Project Organization Structure





Ben Tam

2959 6059

AUES

2959 6079

Legend:

AUES

CEDD (Employer) – Civil Engineering and Development Department

Environmental Consultant

AECOM (Engineer) – AECOM Asia Co. Ltd.

CIWEC (Main Contractor) – China International Water & Electric Corporation

ANEWR (IEC) – ANewR Consulting Limited

AUES (ET) – Action-United Environmental Services & Consulting



Appendix C

Construction Programme (a) Contract 4 (ED/2020/02)



Contract 4 (ED/2020/02)

D	Fask Name	Duration	Start	Finish	Predecessors			1			May 20						ne 202		
	<new summary="" task=""></new>	1567 days	Fri 30/7/21	Wed 12/11/25		27	/4	4/	5	1	1/5	18/5	25/5	1	1/6	8/6	 1	5/6	22/6
2	<new summary="" task=""></new>	1986 days	Fri 30/7/21	Mon 8/3/27	•											 	 		
	Contract Period	1986 days	Fri 30/7/21	Mon 8/3/27		_										 	 		
_	Contract Starting Date [Contract Award Date 21 Jul 2021]	0 days	Fri 30/7/21	Fri 30/7/21		-													
	Contract Duration	1248 days	Fri 30/7/21	Sat 28/12/24	4SS														
	Original Completion Date	0 days	Sat 28/12/24	Sat 28/12/24	5														
	Potential EOT due to CEs and Inclement weather	319 days	Sun 29/12/24	Wed 12/11/25	6														
	Anticipated Completion of the Whole of the Works	0 days	Mon 8/3/27	Mon 8/3/27	27FF,7	-													
)	Section of Works and Relevant Portions of Work	2235 days	Fri 30/7/21	Thu 23/12/27												 	 		
0	Section of Works 1 - Portions 1a, 2a & 2b	1590 days	Mon 30/8/21	Tue 6/1/26												 	 		
1	Original Completion Date	0 days	Wed 13/12/23	Wed 13/12/23	4FS+867 days														
2	Portion 1a	1348 days	Fri 29/4/22	Tue 6/1/26	-											 	 		
3	Access date	0 days	Fri 29/4/22	Fri 29/4/22	4FS+273 days														
4	Construction Duration	563 days	Fri 29/4/22	Sun 12/11/23	13SS														
5	Potential EOT due to Inclement weather and CEs	335 days	Mon 13/11/23	Sat 12/10/24	14														
6	Anticipated Completion Date	180 days	Thu 10/7/25	Tue 6/1/26															
7	Portion 2a	1557 days	Mon 30/8/21	Wed 3/12/25												 	 		
8	Access date	0 days	Mon 30/8/21	Mon 30/8/21	4FS+31 days														
9	Construction Duration	836 days	Mon 30/8/21	Wed 13/12/23	18SS														
0	Potential EOT due to Inclement weather and CEs	335 days	Thu 14/12/23	Tue 12/11/24	19														
1	Anticipated Completion Date	92 days	Wed 3/9/25	Wed 3/12/25															
2	Portion 2b	1472 days	Tue 14/12/21	Wed 24/12/25												 	 		
3	Access date	0 days	Tue 14/12/21	Tue 14/12/21	4FS+137 days														
4	Construction Duration	730 days	Tue 14/12/21	Wed 13/12/23	23SS														
5	Potential EOT due to Inclement weather and CEs	292 days	Thu 14/12/23	Mon 30/9/24	24	-													
6	Anticipated Completion Date	154 days	Thu 24/7/25	Wed 24/12/25															
7	Section of Works 1A - Establishment Works for all Landscape Softworks	754 days	Thu 12/12/24	Mon 8/3/27												 	 		
_	in Section 1 of the Works					-													
8	Original Completion Date	0 days	Thu 12/12/24	Thu 12/12/24	11FS+365 days														
9	Commencement of Establishment Work	0 days	Wed 7/1/26	Wed 7/1/26	30SS														
0	Establishment Work Duration	365 days	Wed 7/1/26	Mon 8/3/27	16,21,26														
1	Anticipated Completion Date	0 days	Mon 8/3/27	Mon 8/3/27	30FF														
2	Section of Works 2 - Portion 8	1509 days	Fri 30/7/21	Mon 15/9/25															
3	Original Completion Date	0 days	Sat 29/7/23	Sat 29/7/23															
4	Access date	0 days	Fri 30/7/21	Fri 30/7/21	4	-													
5	Construction Duration	730 days	Fri 30/7/21	Sat 29/7/23	34	-													
6	Potential EOT due to Inclement weather and CEs up to Jan 2023	385 days	Sun 30/7/23	Sat 17/8/24	35											 	 		
7	Anticipated Completion Date	0 days	Mon 15/9/25	Mon 15/9/25	403FF,36														
8	Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works	631 days	Mon 23/12/24	Wed 28/10/26															
9	Original Completion Date	0 days	Mon 23/12/24	Mon 23/12/24															
0	Commencement of Establishment Work	0 days	Tue 16/9/25	Tue 16/9/25	41SS														
1	Establishment Work Duration	365 days	Tue 16/9/25	Wed 28/10/26	37														
2	Anticipated Completion Date	0 days	Wed 28/10/26	Wed 28/10/26	41FF														
3	Section of Works 3 - Portions 1b, 3, 4, 5	763 days	Fri 30/7/21	Thu 31/8/23															
4	Original Completion Date	0 days	Tue 30/5/23	Tue 30/5/23	4FS+669 days	1													
5	Portion 1b	276 days	Tue 29/11/22	Thu 31/8/23		1													
6	Access date	0 days	Tue 29/11/22	Tue 29/11/22	4FS+487 days														
7	Construction Duration	183 days	Tue 29/11/22	Tue 30/5/23	46	1													
8	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	47														
9	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	577FF,48														
)	Portion 3	702 days	Wed 29/9/21	Thu 31/8/23															
1	Access date	0 days	Wed 29/9/21	Wed 29/9/21	4FS+61 days														
2	Construction Duration	609 days	Wed 29/9/21	Tue 30/5/23	51														
3	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	52														
4	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	589FF,53	1													
5	Portion 4	763 days	Fri 30/7/21	Thu 31/8/23		1													
6	Access date	0 days	Fri 30/7/21	Fri 30/7/21	4	1													
7	Construction Duration	670 days	Fri 30/7/21	Tue 30/5/23	56														
3	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	57														
)	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	600FF,58														
0	Portion 5	551 days	Sun 27/2/22	Thu 31/8/23															

2 May 2	2025
July 2025	
July 2025 29/6 6/7 13/7 20/7 27/7	
10/7	
24/7	

111a II	ternational Water & Electric Corp.				Developn	ent of An	derson l 3 Month	Road Quari ns Rolling P	ry Site - I Programn	Infrastruc me (May 2	ture, Greer 2025 to July	ing and Land 2025)	dscape Worl	ks									2 M
) -	ask Name	Duration	Start	Finish	Predecessors	27/4	L	4/5	M	/ay 2025 /5	18/5	25/5	1/6		Jui 8/6	ne 2025 15/6	2	2/6	29/6	6/7	ly 2025 13/7	20/7	
	Access date	0 days	Sun 27/2/22	Sun 27/2/22	4									I							 		
	Construction Duration	458 days	Sun 27/2/22	Tue 30/5/23	61																		
	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	62																		
	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	604FF,63																		
	Section of Works 3A - Establishment Works for all Landscape Softworks in Section 3 of the Works	365 days	Fri 1/9/23	Fri 30/8/24																			
	Original Completion Date	0 days	Tue 28/5/24	Tue 28/5/24	44FS+365 days																		
	Commencement of Establishment Work	0 days	Fri 1/9/23	Fri 1/9/23	68SS																		
	Establishment Work Duration	365 days	Fri 1/9/23	Fri 30/8/24	54,49,59,64																		
	Anticipated Completion Date	0 days	Fri 30/8/24	Fri 30/8/24	68FF																		
	Section of Works 4 - Portions 6, 12	1870 days	Fri 30/7/21	Fri 23/10/26			_														 		
	Original Completion Date	0 days	Tue 13/6/23	Tue 13/6/23	4FS+683 days																		
	Portion 6	1218 days	Sat 29/1/22	Fri 30/5/25																			
	Portion 12	1870 days	Fri 30/7/21	Fri 23/10/26																	 		
	Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works	1186 days	Wed 12/6/24	Thu 23/12/27																	 		
	Section of Works 5A - Portions 9, 10	1487 days	Fri 30/7/21	Sun 24/8/25			_														 		
	Original Completion Date	0 days	Wed 28/6/23	Wed 28/6/23	4FS+698 days																		
	Porion 9	1426 days	Wed 29/9/21	Sun 24/8/25		·															 		
		0 days	Wed 29/9/21	Wed 29/9/21	4FS+61 days																		
_	Construction Duration	638 days	Wed 29/9/21	Wed 28/6/23	90																		
	Potential EOT due to Inclement weather and CEs	460 days	Thu 29/6/23	Mon 30/9/24	91																 		
	Anticipated Completion Date	0 days	Sun 24/8/25	Sun 24/8/25	92,762FF																		
	Portion 10	1384 days	Fri 30/7/21	Tue 13/5/25			_																
	Access date for Portion	0 days	Fri 30/7/21	Fri 30/7/21	4	-																	
-	Construction Duration for Portion	699 days	Fri 30/7/21	Wed 28/6/23	95																		
-	Potential EOT due to Inclement weather and CEs	460 days	Thu 29/6/23	Mon 30/9/24	96																		
_		0 days	Tue 13/5/25	Tue 13/5/25	809FF,97				L L	13/5													
	Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works		Wed 26/6/24	Fri 2/10/26					~	10/0											 		
	Original Completion Date	0 days	Wed 26/6/24	Wed 26/6/24	88FS+365 days																		
-		0 days	Mon 25/8/25	Mon 25/8/25	102SS																		
	Establishment Work Duration	365 days	Mon 25/8/25	Fri 2/10/26	93,98																		
		0 days	Fri 2/10/26	Fri 2/10/26	102FF																		
_		954 days	Sun 27/2/22	Mon 7/10/24																			
	Original Completion Date	0 days	Tue 27/6/23	Tue 27/6/23	4FS+697 days	-																	
		0 days	Sun 27/2/22	Sun 27/2/22	4FS+211 days	-																	
-	Construction Duration	487 days	Sun 27/2/22	Wed 28/6/23	106SS	-																	
	Potential EOT due to Inclement weather and CEs	460 days	Thu 29/6/23	Mon 30/9/24	107																		
_		0 days	Mon 7/10/24	Mon 7/10/24	108,900FF																		
	Section of Works 6 - Portion 7	494 days	Tue 29/11/22	Fri 5/4/24	100,00011																		
	Original Completion Date	0 days	Tue 28/11/22	Tue 28/11/23	4FS+851 days	_																	
		0 days	Tue 29/11/22	Tue 29/11/22	4FS+487 days	_																	
	Construction Duration	365 days	Tue 29/11/22	Tue 28/11/23	112	_																	
_	Deferred possession (CE 067)	90 days	Wed 29/11/23	Mon 26/2/24	112																		
_		0 days	Fri 5/4/24	Fri 5/4/24	906FF,114	-																	
	Section of Works 6A - Establishment Works for all Landscape Softworks	•	Sat 6/4/24	Sat 5/4/25	30011,114																		
	in Section 6 of the Works Original Completion Date	0 days	Wed 27/11/24	Wed 27/11/24	111FS+365 days	-																	
-		0 days	Sat 6/4/24	Sat 6/4/24	119SS																		
	Establishment Work Duration	365 days	Sat 6/4/24	Sat 5/4/25	115																		
		0 days	Sat 5/4/25	Sat 5/4/25	119FF																		
	Section of Works 7A - Portions 13a, 14 (DELETED)	669 days	Fri 30/7/21	Mon 29/5/23																			
	Access date for Portion 13a	0 days	Sat 29/1/22	Sat 29/1/22	4																		
	Construction Duration for Portion 13a	486 days	Sat 29/1/22	Mon 29/5/23	122																		
+	Completion of Works in Portion 13a	0 days	Mon 29/5/23	Mon 29/5/23	123,937																		
+	•	0 days	Fri 30/7/21	Fri 30/7/21	4																		
+	Construction Duration for Portion 14	669 days	Fri 30/7/21	Mon 29/5/23	125																		
		0 days	Mon 29/5/23	Mon 29/5/23	126,949,948																		
-	Section of Works 7AI - Establishment Works for all Landscape Softworks in Section 7A of the Works (DELETED)		Mon 29/5/23	Tue 28/5/24																			
)	· · · ·	0 days	Mon 29/5/23	Mon 29/5/23	127																		
)	Establishment Work Duration for Section 7A	365 days	Tue 30/5/23	Tue 28/5/24	129																		
·				Tue 28/5/24	130,954	-																	
	Completion of Works in Section 7A	0 days	Tue 28/5/24	Tue 20/3/24	130,954																		

	nternational Water & Electric Corp.				Develop	ment of A	Ande 3	erson R Month	Road Qu s Rolling	arry Sit Progra	e - Inf amme	frastru e (May	cture, G 2025 to	reenin July 2	g and La 2025)	Indscape	e Works	6								
D	Task Name	Duration	Start	Finish	Predecessors	27	7/4		4/5		May 11/5	/ 2025	18/5		25/5		1/6		8/6	June	e 2025 15/	2	22/6	29/6		6
32	Section of Works 7B - Portions 13b, 15	1295 days	Sat 26/2/22	Fri 12/9/25																		 		 	_	_
33	Original Completion Date	0 days	Fri 29/12/23	Fri 29/12/23	4FS+882 days																					
4	Portion 13b	1295 days	Sat 26/2/22	Fri 12/9/25							_											 		 		
35	Access date	0 days	Sat 26/2/22	Sat 26/2/22	4FS+211 days	-																				
36		671 days	Sun 27/2/22	Fri 29/12/23		-																				
37		300 days	Sat 30/12/23	Thu 24/10/24	136	-																				
38		0 days	Fri 12/9/25	Fri 12/9/25	955FF	_																				
39		1294 days	Sun 27/2/22	Fri 12/9/25		_																 				
10		0 days	Sun 27/2/22	Sun 27/2/22	4	_																				
10 11		671 days	Sun 27/2/22	Fri 29/12/23	140	_																				
+1 12		300 days	Sat 30/12/23	Thu 24/10/24	141	_																				
		•	Fri 12/9/25	Fri 12/9/25	955FF	_																				
13 14	Anticipated Completion Date Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works	0 days 624 days	Fri 27/12/24	Sat 24/10/26	300FF		_															 		 		
15		0 days	Fri 27/12/24	Fri 27/12/24	133FS+365 days	_																				
46		0 days	Sat 13/9/25	Sat 13/9/25	147SS	_																				
		-	Sat 13/9/25	Sat 13/3/23	138,143	_																				
17 10		365 days			138,143 147FF	_																				
18 10		0 days	Sat 24/10/26	Sat 24/10/26	14/17	_																				
19 - 0		564 days	Thu 16/6/22	Sun 31/12/23	450,000	_																				
50		0 days	Wed 28/6/23	Wed 28/6/23	4FS+698 days	_																				
51		0 days	Thu 16/6/22	Thu 16/6/22	4FS+321 days	_																				
52		378 days	Thu 16/6/22	Wed 28/6/23	151	_																				
53		186 days	Thu 29/6/23	Sun 31/12/23	152	_																				
54 55	Section of Works 8A - Establishment Works for all Landscape Softworks	0 days 365 days	Sun 31/12/23 Mon 1/1/24	Sun 31/12/23 Mon 30/12/24	153,1134FF	_																				
-0	in Section 8 of the Works	<u>.</u>	TI 07/0/04	TI 07/0/04	45050 005 1	_																				
6		0 days	Thu 27/6/24	Thu 27/6/24	150FS+365 days	_																				
57		0 days	Mon 1/1/24	Mon 1/1/24	158SS	_																				
58		365 days	Mon 1/1/24	Mon 30/12/24	154	_																				
59		0 days	Mon 30/12/24	Mon 30/12/24	158FF	_																				
60		1159 days	Sun 27/2/22	Wed 30/4/25																						
51		0 days	Fri 29/12/23	Fri 29/12/23	4FS+882 days	_																				
62		0 days	Sun 27/2/22	Sun 27/2/22	4FS+212 days	_																				
63	Construction Duration	671 days	Sun 27/2/22	Fri 29/12/23	162																					
64	Potential EOT due to Inclement weather and CEs	306 days	Sat 30/12/23	Wed 30/10/24	163		ו ר																			
65	Anticipated Completion Date	0 days	Wed 30/4/25	Wed 30/4/25	164,1150FF			30/4																		
6	Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 of the Works	488 days	Sat 28/12/24	Wed 20/5/26																		 		 		-
67	Original Completion Date	0 days	Sat 28/12/24	Sat 28/12/24	161FS+365 days																					
8	Commencement of Establishment Work	0 days	Wed 30/4/25	Wed 30/4/25	165SS	4	•• 3	30/4																		
69	Establishment Work Duration	365 days	Thu 1/5/25	Wed 20/5/26	165	1/5	5 🎽																			
70	Anticipated Completion Date	0 days	Wed 30/4/25	Wed 30/4/25	165FF		- 3	30/4																		
71	Section of Works 10 - All Tree Protection and Preservation Works	1202 days	Fri 30/7/21	Tue 12/11/24																						
72	Original Completion Date	0 days	Fri 29/12/23	Fri 29/12/23	133FF	_																				
73	Commencement of All Tree Protection and Preservation Work	0 days	Fri 30/7/21	Fri 30/7/21	4	_																				
74	All Tree Protection and Preservation Work	883 days	Fri 30/7/21	Fri 29/12/23	173	-																				
75	Potential EOT due to Inclement weather and CE	319 days	Sat 30/12/23	Tue 12/11/24	174	-																				
76		0 days	Tue 12/11/24	Tue 12/11/24	175,1226FF	-																				
77		1567 days	Fri 30/7/21	Wed 12/11/25		_					_											 		 		_
78		370 days	Fri 30/7/21	Wed 3/8/22		-																				
79		7 days	Fri 30/7/21	Thu 5/8/21	4	_																				
30		7 days 7 days	Fri 30/7/21	Thu 5/8/21	4	-																				
		-			4	_																				
31		14 days	Fri 30/7/21	Thu 12/8/21		_																				
32		7 days	Fri 30/7/21	Thu 5/8/21	4	_																				
3	Notification to Labour Department/Marine Department of the commencement date and other details of the contract	-	Fri 30/7/21	Thu 5/8/21	4	_																				
4	Submission of Summary Details of Contract to the Departmental Safety and Environmental	∠i days	Fri 30/7/21	Thu 19/8/21	4																					
5		7 days	Fri 30/7/21	Thu 5/8/21	4	-																				
6		7 days	Fri 30/7/21	Thu 5/8/21	4	-																				
57 57		7 days	Fri 30/7/21	Thu 5/8/21	4	-																				
/ 8		7 days 7 days	Fri 30/7/21	Thu 5/8/21	4	_																				
8 9		7 days 7 days	Fri 30/7/21	Thu 5/8/21	4	_																				
ฮ	Particulars of Independent service provider for Digital Works Supervision Syst		Fri 30/7/21	Thu 5/8/21	4	_																				
<u>۱</u>		1 11/11/2		1110 3/0/21	4	1					- I															
)																1						 		 		-

							2 May 2
ne 2025 15/6	22/6	2	29/6	6/7	July 2025 13/7	20/7	27/7

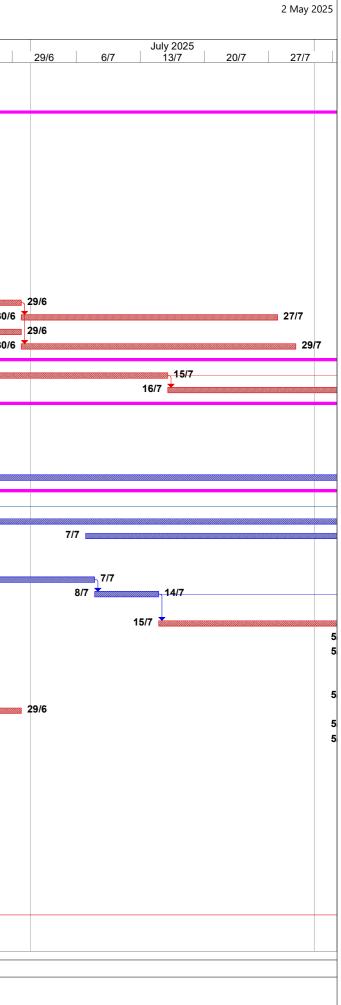
							3 IVIO	iths Rolling	l Progran	nme (May	2025 to Ju	ily 2025)											
) Т	ask Name	Duration	Start	Finish	Predecessors	27/4	L	4/5		May 2025 1/5	; 18/5	25	5/5	1/6	8/6	June 2025	5 5/6	22/6	29/6	6/7	July 2025 13/7	20/7	2
	Contractor's Management Team	14 days	Fri 30/7/21	Thu 12/8/21	4										0.0			22/0	20/0	0,1		20/1	
	BIM team	14 days	Fri 30/7/21	Thu 12/8/21	4																		
-	Competent member of the sites supervisory staff to oversee and supervise	21 days	Fri 30/7/21	Thu 19/8/21	4	-																	
	tree works related to arboricultural operations and preservation of trees within																						
	Content of Contract Webpage (Monthly update afterwards)	21 days	Fri 30/7/21	Thu 19/8/21	4																		
	Particulars of the assigned person (competent member with arboriculture knowledge of the site supervisory for tree preservation)	21 days	Fri 30/7/21	Thu 19/8/21	4																		
		21 days	Fri 30/7/21	Thu 19/8/21	4																		
;	-	30 days	Fri 30/7/21	Sat 28/8/21	4																		
3		30 days	Fri 30/7/21	Sat 28/8/21	4	-																	
		-	Fri 30/7/21	Sat 28/8/21	4																		
9)		30 days			-																		
		30 days	Fri 30/7/21	Sat 28/8/21	4																		
		30 days	Fri 30/7/21	Sat 28/8/21	4																		
2	,	30 days	Fri 30/7/21	Sat 28/8/21	4																		
3	Professional Indemnity Insurance in respect of Contractor's Design	60 days	Fri 30/7/21	Mon 27/9/21	4																		
ł	Proposed gasket material for waterworks	60 days	Fri 30/7/21	Mon 27/9/21	4																		
;	7 days advance notice of the date on which workers begin to wear Site uniform; Provide uniforms within 5 days after the design is accepted by PM	60 days	Fri 30/7/21	Mon 27/9/21	4																		
3	2 Engineering Graduates & 3 Technician apprentices	90 days	Fri 30/7/21	Wed 27/10/21	4	-																	
	Commissioning of DWSS	90 days	Fri 30/7/21	Wed 27/10/21	4	-																	
3		90 days	Fri 30/7/21	Wed 27/10/21	4	-																	
))		90 days	Fri 30/7/21	Wed 27/10/21	4	- 1																	
)		90 days	Fri 30/7/21	Wed 27/10/21	4	-																	
	Video script for Project Video Film	180 days	Fri 30/7/21	Tue 25/1/22	4	_																	
2	Employment of Construction Industry Council's Graduates (min. 4 graduates) Nomination of Treatment process specialist, Design Engineer, and	180 days 34 days	Fri 30/7/21 Fri 1/7/22	Tue 25/1/22 Wed 3/8/22	4																		
	Independent Checking Engineer (ICE)					_																	
	Plan & Proposals	60 days	Fri 30/7/21	Mon 27/9/21																			
	Preparation and submission of Noise Mitigation Plan (3 hard copies, 2 electronic copies)	30 days	Fri 30/7/21	Sat 28/8/21	4																		
+	Preparation and submission of Waste Management Plan (WMP)	30 days	Fri 30/7/21	Sat 28/8/21	4																		
	Preparation and submission of Draft Construction Health and Safety Plan (3	7 days	Fri 30/7/21	Thu 5/8/21	4																		
	copies)																						
3		7 days	Fri 30/7/21	Thu 5/8/21	4																		
	Preparation and submission of Draft Environmental Management Plan (EMP) 3 copies	4 days	Fri 30/7/21	Mon 2/8/21	4																		
	Tender requirements for suppliers of Plant and Materials, Equipment and Insurance Proposal	14 days	Fri 30/7/21	Thu 12/8/21	4																		
	Preparation of Proposal for arrangement for placement of storage	14 days	Fri 30/7/21	Thu 12/8/21	4																		
	compartments/ drinking water facilities/ toilet/ hand-wash facilities/ showering rubbishbin/ working shelter on Site	1																					
2	Preparation Proposal for security system	14 days	Fri 30/7/21	Thu 12/8/21	4	_																	
-		21 days	Fri 30/7/21	Thu 19/8/21	4	_																	
		21 days 21 days	Fri 30/7/21	Thu 19/8/21	4	_																	
					4	_																	
	Preparation and submission of Construction Health and Safety Plan (6 copies		Fri 30/7/21	Sat 28/8/21																			
	Weather protection scheme	30 days	Fri 30/7/21	Sat 28/8/21	4																		
7	Proposal of COBie information requirements	30 days	Fri 30/7/21	Sat 28/8/21	4																		
B	Preparation and submission of Final Environmental Management Plan (EMP) 3 copies	30 days	Fri 30/7/21	Sat 28/8/21	4																		
9	Preparation of Proposed Plans for submission of each Release of	30 days	Fri 30/7/21	Sat 28/8/21	4	-																	
	construction and Project Video Films																						
)		60 days	Fri 30/7/21	Mon 27/9/21	4																		
	(STSMP), (monthly update) Preparation and submission of Site Management Plan for TTS	60 days	Fri 30/7/21	Mon 27/9/21	4	-																	
,		-	Fri 30/7/21	Mon 27/9/21	4	_																	
2	Preparation and submission of BIM Execution Plan accordance with the PSA 1.14D	ou uays	111 30/1/21	WOI1 21/3/21	7																		
	Public Relation (PR) Company, PR plan	60 days	Fri 30/7/21	Mon 27/9/21	4																		
	Preparation and submission of Temporary drainage management plan	7 days	Fri 30/7/21	Thu 5/8/21	4																		
		411 days	Thu 16/3/23	Mon 29/4/24		-																	
-		45 days	Thu 16/3/23	Sat 29/4/23		-																	
+		115 days	Sun 30/4/23	Tue 22/8/23	236	-																	
+	Deliveries and site inspection of bearing for elevated walkway etc.	15 days	Wed 23/8/23	Wed 6/9/23	230	-																	
_		-			201	-																	
	Procurement & material submission of movement joinst for elevated walkway		Thu 16/3/23	Sat 29/4/23	220	_																	
)		115 days	Sun 30/4/23	Tue 22/8/23	239																		
		15 days	Wed 23/8/23	Wed 6/9/23	240																		
2	Procurement of Raise Planter Type A&B	60 days	Mon 1/1/24	Thu 29/2/24																			
3	Manufacturing, FAT & delivery of Raise Planter Type A&B	60 days	Fri 1/3/24	Mon 29/4/24	242																		
	Procurement of Balustrade Wall BW1-2	60 days	Mon 1/1/24	Thu 29/2/24																			

) Та	nek Nama	Duration	Stort	Finish	Dradaaassa		3 1010		 mme (May		y 2025)			luna 2025	:				hulu 000		
	ask Name	Duration	Start	FINISN	Predecessors	27	/4	4/5	May 2025 1/5	18/5	25/5	1/6	8/6	June 2025 15	6/6	22/6	29/6	6/7	July 202 13/7	20/7	2
		60 days	Fri 1/3/24	Mon 29/4/24	244																
	Procurement of Children Play Areas & water play area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24		_															
	Design, Manufacturing, FAT & delivery of Children Play Areas & water play area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	246																
	Procurement of Adult fitness Area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24																	
	Design Manufacturing, FAT & delivery of Adult fitness Area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	248	_															
	Procurement of Elderly fitness Area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24		_															
	Design, Manufacturing, FAT & delivery of Elderly fitness Area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	250																
2	Programme	1537 days	Fri 30/7/21	Mon 13/10/25		_															
3	Preparation & Submission of First Works Program	6 days	Fri 30/7/21	Wed 4/8/21	4	_															
4	Preparation & Submission of Three Months Rolling Program	14 days	Fri 30/7/21	Thu 12/8/21	4	_															
5	Program Review and Acceptance of First Program	14 days	Thu 5/8/21	Wed 18/8/21	253																
6	Preparation and Submission of Detailed Works Program	60 days	Thu 19/8/21	Sun 17/10/21	255,254																
7	Program Review and Acceptance of Works Program	14 days	Mon 18/10/21	Sun 31/10/21	256																
3	Implementation of Programme Management and Monthly Reporting	1443 days	Mon 1/11/21	Mon 13/10/25	257	1%															
9	Permit and Licences	60 days	Fri 30/7/21	Mon 27/9/21																	
0	Detailed construction sequences with associated traffic diversion schemes and obtain endorsement in principle from the relevant authorities and the	30 days	Fri 30/7/21	Sat 28/8/21	4																
1		7 days	Fri 30/7/21	Thu 5/8/21	4	-															
2	Welfare facilities for workers in accordance with requirements in PS Clause 1	-	Fri 30/7/21	Thu 5/8/21	4	-															
3	· ·	7 days	Fri 30/7/21	Thu 5/8/21	4	-															
4		7 days	Fri 30/7/21	Thu 5/8/21	4	-															
5	Contract Computer Facilities, Electronic Document Management System, Site Record Information System, Digital Works Supervision System and othe	6 days r	Fri 30/7/21	Wed 4/8/21	4																
6	Name of the designated bank and all related arrangement details for payment of wages to all the Site Workers	6 days	Fri 30/7/21	Wed 4/8/21	4																
7	Site Cleanliness and Tidiness	7 days	Fri 30/7/21	Thu 5/8/21	4	_															
8	3 sets of coloured record photos in SR size (recording existing building/ stree	et 7 days	Fri 30/7/21	Thu 5/8/21	4	-															
9	furniture) Contract Cars	7 days	Fri 30/7/21	Thu 5/8/21	4	_															
)		7 days	Fri 30/7/21	Thu 5/8/21	4																
1	•	7 days	Fri 30/7/21	Thu 5/8/21	4	_															
2	Inclinometer access tubes - suppliers, material specification and samples of	-	Fri 30/7/21	Thu 12/8/21	4	_															
	the tubes and couplings																				
3	Payment of Wages System for Site Workers	14 days	Fri 30/7/21	Thu 12/8/21	4																
4		14 days	Fri 30/7/21	Thu 12/8/21	4	_															
5	Supply of Survey Equipment for PM use	30 days	Fri 30/7/21	Sat 28/8/21	4	_															
6	Complete setting up and begin to operate the Security System	60 days	Fri 30/7/21	Mon 27/9/21	4	_															
7	Initial Survey	60 days	Fri 30/7/21	Mon 27/9/21	4																
8	Assessment for the risk resulting from working in hot weather	60 days	Fri 30/7/21	Mon 27/9/21	4	_															
9	Contractor's Design	1034 days	Fri 1/7/22	Tue 29/4/25																	
)	Architectural & Structural	183 days	Fri 1/7/22	Fri 30/12/22		_															
1 2	Prepare & Submission Internal Review & Submission	31 days	Fri 1/7/22 Mon 1/8/22	Sun 31/7/22 Mon 15/8/22	4 281	_															
	PM Review & AIP	15 days			282	_															
3 4		16 days 30 days	Tue 16/8/22 Thu 1/9/22	Wed 31/8/22 Fri 30/9/22	282	_															
4 5		7 days	Sat 1/10/22	Fri 7/10/22	284	_															
5 6	DDA Submission (circulation to Government Authorities)	8 days	Sat 1/10/22 Sat 8/10/22	Sat 15/10/22	285	_															
7		7 days	Sun 16/10/22	Sat 13/10/22 Sat 22/10/22	286	_															
B	Vetting Process and Approval by Government Authorities and PM	69 days	Sun 23/10/22	Fri 30/12/22	287	-															
9	Park lighting, irrigation system, smart system etc.	341 days	Mon 14/11/22	Fri 20/10/23	-	_															
0	Covered walkway	180 days	Fri 1/11/24	Tue 29/4/25		_															
1	Prepare	30 days	Wed 6/11/24	Thu 5/12/24		-															
2	Internal review, ICE, CSD and submission	60 days	Fri 6/12/24	Mon 3/2/25	291	-															
3	AIP	30 days	Tue 4/2/25	Wed 5/3/25	292	-															
Ļ	Contractor's Design [Enhancement on Architectural Design & Associated Works]	1036 days	Fri 14/1/22	Thu 14/11/24		_															
	Engagement of Design Architectural Firm (CE 005)	0 days	Fri 14/1/22	Fri 14/1/22																	
3	Enhancement on Architectual Design & Associated Works at Portions 1a, 2a and 2b (Quarry Lake) (CE 070)	0 days	Tue 4/4/23	Tue 4/4/23	295																
7		275 days	Fri 1/7/22	Sat 1/4/23																	
3		153 days	Fri 1/7/22	Wed 30/11/22	295																
)		92 days	Sat 31/12/22	Sat 1/4/23	298																
	DSD's AIP approval	0 days	Sat 1/4/23	Sat 1/4/23	299	_															
)	Detailed Design Submission Schedule	473 days	Mon 31/7/23	Thu 14/11/24																	

					Developm	3	Months I	Rolling Pr	ogramme ((May 20)25 to Jul	y 2025)							 				
C	Fask Name	Duration	Start	Finish	Predecessors	27/4		4/5	May 2 11/5		18/5	25/5		1/6	8/6	June 2	2025 15/6	22/6	29/6	6/7	July 2025 13/7	20/7	
2	Statutory submission	92 days	Wed 30/8/23	Thu 30/11/23	300	2114		10	11/0		10/0	20/0		170	0/0		10/0	22/0	 5/0	0/1	10/1	20/1	
)3	FSD submission for GBP	0 days	Thu 30/11/23	Thu 30/11/23																			
04	WWO542 documment	0 days	Wed 30/8/23	Wed 30/8/23																			
05	Civil	46 days	Wed 30/8/23	Sun 15/10/23	300																		
06	Underground rain water drainage	0 days	Sun 15/10/23	Sun 15/10/23																			
307	Underground watermain	0 days	Wed 30/8/23	Wed 30/8/23																			
308	Undergroud sewerage	0 days	Sat 30/9/23	Sat 30/9/23																			
309	Irrigation	0 days	Wed 30/8/23	Wed 30/8/23																			
310	Landscape and Miscellaneous	101 days	Mon 21/8/23	Thu 30/11/23	300																		
311	Landscape	56 days	Mon 21/8/23	Sun 15/10/23																			
312	Smart weir system	0 days	Mon 30/10/23	Mon 30/10/23																			
313	Flood warning system	0 days	Thu 30/11/23	Thu 30/11/23																			
314	Building	473 days	Mon 31/7/23	Thu 14/11/24																			
315	A1: Lavatories	473 days	Mon 31/7/23	Thu 14/11/24																			
316	Architecture	32 days	Mon 31/7/23	Thu 31/8/23																			
317	Structure	150 days	Sat 7/10/23	Mon 4/3/24																			
318	E& M	316 days	Thu 4/1/24	Thu 14/11/24																			
319	A2: Management Office Building	458 days	Tue 15/8/23	Thu 14/11/24																			
320	Architecture	17 days	Tue 15/8/23	Thu 31/8/23																			
321	Structure	220 days	Sat 14/10/23	Mon 20/5/24																			
322	E& M	214 days	Mon 15/4/24	Thu 14/11/24																			
323	B1: Multi-Purpose Building	458 days	Tue 15/8/23	Thu 14/11/24																			
324	Architecture	17 days	Tue 15/8/23	Thu 31/8/23																			
325	Structure	224 days	Sat 28/10/23	Fri 7/6/24																			
326	E& M	251 days	Sat 9/3/24	Thu 14/11/24																			
327	B2: TX Room/Lavatories	458 days	Tue 15/8/23	Thu 14/11/24																			
28	Architecture	29 days	Tue 15/8/23	Tue 12/9/23																			
329	Structure	199 days	Thu 21/12/23	Sat 6/7/24																			
330	E& M	263 days	Mon 26/2/24	Thu 14/11/24																			
331	C2: Water Treatment Plant Room	458 days	Tue 15/8/23	Thu 14/11/24																			
332	Architecture	17 days	Tue 15/8/23	Thu 31/8/23																			
333	Structure	271 days	Sat 7/10/23	Wed 3/7/24																			
334	E& M	196 days	Fri 3/5/24	Thu 14/11/24																			
335	Schedule of Accommodation (SoA) Submission	141 days	Sun 2/4/23	Mon 21/8/23	300																		
336	Stage 1	56 days	Sun 2/4/23	Sat 27/5/23																			
337	Agree SoA with DSD	14 days	Sun 2/4/23	Sat 15/4/23																			
338	Workshop	8 days	Sun 16/4/23	Sun 23/4/23	337																		
339	GPA submission and approval	34 days	Mon 24/4/23	Sat 27/5/23	338																		
340	Stage 2	63 days	Mon 19/6/23	Mon 21/8/23	339																		
341	Submission	0 days	Mon 19/6/23	Mon 19/6/23																			
342	approval	0 days	Mon 21/8/23	Mon 21/8/23	341																		
343	DSD's VCAB submission	183 days	Fri 7/4/23	Fri 6/10/23																			
344	Stage 1 - AIP	28 days	Fri 7/4/23	Thu 4/5/23																			
345	Submission and presentation	8 days	Fri 7/4/23	Fri 14/4/23	245																		
346	Approval	20 days	Sat 15/4/23	Thu 4/5/23	345																		
347	Stage 2 - Detailed design	67 days	Tue 1/8/23	Fri 6/10/23	346																		
848	Submission and presentation	0 days	Tue 1/8/23	Tue 1/8/23	348	-																	
349	VCAB meeting	0 days	Thu 7/9/23	Thu 7/9/23 Fri 6/10/23	348 349	-																	
350	Approval	30 days	Thu 7/9/23	Fri 6/10/23 Wed 27/9/23	543	-																	
351 352	Sub-letting (Cost Trimming Scheme) Drawings for cost estimation	211 days 30 days	Wed 1/3/23 Wed 1/3/23	Thu 30/3/23	300FS-32 days																		
353	Tender approval	11 days	Fri 31/3/23	Mon 10/4/23	352																		
853 854	Tender addendum	8 days	Mon 17/4/23	Mon 24/4/23	353	-																	
55	Sub-letting Period	25 days	Tue 4/4/23	Fri 28/4/23	354FS-21 days	-																	
56	Tender Assessment & approval	12 days	Sat 29/4/23	Wed 10/5/23	355	-																	
57	PMI preparation	58 days	Thu 11/5/23	Fri 7/7/23	356	-																	
858	Recost trimming by DSD	21 days	Sat 8/7/23	Fri 28/7/23	357																		
359	Resubmission of detailed design	30 days	Tue 8/8/23	Wed 6/9/23	358	-																	
360	Retendering	21 days	Thu 7/9/23	Wed 27/9/23	359	-																	
361	Material submission	181 days	Thu 28/9/23	Tue 26/3/24	360																		
						-																	
62	Method Statements & Temporary Works	792 days	Fri 30/7/21	Fri 29/9/23									1										

ubmission of generic method statement for site formation wor submission of generic method statement for earth slope work submission of generic method statement for retaining wall submission of generic method statement for G.I works Submission of generic method statement for drainage works d submission of generic method statement of road works submission of generic method statement of read works submission of generic method statement of elevated walkway rk for cut/fill slope works	ks 60 days	Start Tue 1/11/22 Tue 1/11/22	Finish Fri 30/12/22	Predecessors	27/4		4/5	May 11/5	y 2025	10/5						2025	1	1				y 2025 13/7	00/7		
submission of generic method statement for earth slope work submission of generic method statement for retaining wall submission of generic method statement for G.I works Submission of generic method statement for drainage works d submission of generic method statement of road works submission of generic method statement of elevated walkway	ks 60 days		Fri 30/12/22				4/0	11/5		18/5	25/5		1/6	8/	6	15/6	22	2/6	29/6	6/7		13/1	20/7		27/7
submission of generic method statement for retaining wall submission of generic method statement for G.I works Submission of generic method statement for drainage works d submission of generic method statement of road works submission of generic method statement of elevated walkway	· · · · · · · · · · · · · · · · · · ·	Tue 1/11/22																							
submission of generic method statement for G.I works Submission of generic method statement for drainage works d submission of generic method statement of road works submission of generic method statement of elevated walkway	60 days		Fri 30/12/22		_																				
Submission of generic method statement for drainage works d submission of generic method statement of road works submission of generic method statement of elevated walkway		Wed 1/6/22	Sat 30/7/22																						
d submission of generic method statement of road works submission of generic method statement of elevated walkway	60 days	Fri 30/7/21	Mon 27/9/21																						
submission of generic method statement of elevated walkway	60 days	Fri 30/7/21	Mon 27/9/21																						
	60 days	Tue 1/11/22	Fri 30/12/22																						
rk for cut/fill slope works	60 days	Thu 1/6/23	Sun 30/7/23																						
rk for cuttill slope works	60 dava	Tue 1/11/22	Fri 30/12/22																						
rk for retaining wall construction	60 days 60 days	Wed 1/6/22	Sat 30/7/22		-																				
rk for elevated walkway construction	60 days	Tue 1/8/23	Fri 29/9/23																						
rk for road and drainage works	60 days	Fri 30/7/21	Mon 27/9/21																						
	1567 days	Fri 30/7/21	Wed 12/11/25																						
COBie Information Requirements for Asset Management	30 days	Fri 30/7/21	Sat 28/8/21		-																				
BIM Execution Plan in accordance with the PS Appendix 1.14		Fri 30/7/21	Mon 27/9/21																						
Combined Services Drawings	90 days	Fri 30/7/21	Wed 27/10/21		-																				
proposal for BIM training plan	90 days	Fri 30/7/21	Wed 27/10/21																						
staff or subcontractor to attend BIM skill training courses und	er 120 days	Fri 30/7/21	Fri 26/11/21																						
ed list of the CITF managed by the CIC			0.00110101	07050 00 1	-																				
nd Model Sharing	60 days	Thu 28/10/21	Sun 26/12/21	376FS+30 days																					
ination meeting& Submission of monthly BIM progress report of 4D Simulation	s 141/ days	Mon 27/12/21	Wed 12/11/25	380																					
COBie data deliverables	30 days	Sun 14/9/25	Mon 13/10/25	381FS-60 days																					
a Fully Coordinated BIM Model with field verified in LOD 500	30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days																					
O&M Manuals, Product Catalogues and Operating Data	30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days																					
As-built drawings	30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days																					
Asset Data	30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days																					
	1572 days	Fri 30/7/21	Mon 17/11/25																						
esign & ICE Endorsement	30 days	Fri 30/7/21	Sat 28/8/21																						
esign Review and Acceptance	30 days	Sun 29/8/21	Mon 27/9/21	388																					
onstruction Works	90 days	Tue 28/9/21	Sun 26/12/21	389																					
E Site office Construction Works	0 days	Mon 24/1/22	Mon 24/1/22	390	_																				
obilization & Maintenance	1394 days	Mon 24/1/22	Mon 17/11/25	390,391																					
Area ation for Works Area	0 days	Fri 30/7/21 Sat 31/7/21	Fri 30/7/21	20250 1 day																					
r Works Area	1566 days 0 days	Wed 12/11/25	Wed 12/11/25 Wed 12/11/25	393FS+1 day																					
ctor's Project office	90 days	Tue 28/9/21	Sun 26/12/21	4																					
fice Maintenance	1389 days	Mon 24/1/22	Wed 12/11/25	396																					
3	1871 days?	Thu 29/7/21	Fri 23/10/26																						
a 1A - Establishment Works for all Landscape Softworks		Thu 29/7/21	Thu 28/7/22		_																				
e Works	0 dava	E-: 20/7/04	E-: 20/7/04																						
nt of Establishment Work for Section 1	0 days	Fri 30/7/21	Fri 30/7/21 Thu 28/7/22	400SS-1 day																					
Work Duration for Section 1 Works in Section 1	365 days 0 days	Thu 29/7/21 Thu 28/7/22	Thu 28/7/22	40055-1 day 401	-																				
2 - Portion 8	1509 days?	Fri 30/7/21	Mon 15/9/25	401																					
	1509 days?	Fri 30/7/21	Mon 15/9/25																						
site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21	34SS																					
& Site Clearance	14 days	Fri 6/8/21	Thu 19/8/21	405																					
& submission of MS, Temp works, associated plans & docs		Fri 20/8/21	Sun 10/10/21	406																					
AIP of MS, Temp works, plans& associated docs	22 days	Mon 11/10/21	Mon 1/11/21	407																					
ipe and manhole	350 days	Tue 2/11/21	Mon 17/10/22																						
on	350 days	Tue 2/11/21	Mon 17/10/22	408																					
ng and manhole construction including backfilling	295 days	Tue 7/12/21	Tue 27/9/22	410SS+35 days																					
for planter	20 days	Wed 28/9/22	Mon 17/10/22	411																					
revision of design by PM	219 days	Tue 18/10/22	Wed 24/5/23	412																					
llowance	14 days	Tue 18/10/22	Mon 31/10/22	412																					
for electricity power supply	421 days	Mon 14/11/22	Mon 8/1/24																						
	293 days?	Sun 30/7/23	Fri 17/5/24																						
nge of Master Layout	610 days	Mon 14/11/22	Tue 16/7/24		6																				
nge of Master Layout sign	30 days	Wed 17/7/24	Thu 15/8/24	417																					
nge of Master Layout sign lighting design by LCSD	450 days	Thu 1/2/24	Sat 29/6/24																						
nge of Master Layout sign lighting design by LCSD fabrication for lamp post holding down bolt	-		Wed 10/0/25	452 480 443 528 532 529	g i																				
nge of Master Layout sign lighting design by LCSD fabrication for lamp post holding down bolt g & accessories	21 days	Thu 21/8/25																							
nge of Master Layout sign lighting design by LCSD fabrication for lamp post holding down bolt	-	Thu 21/8/25 Thu 11/9/25	Mon 15/9/25	420,453,454,463																					
nge of Master Layout sign lighting design by LCSD fabrication for lamp post holding down bolt g & accessories	21 days 5 days	Thu 11/9/25		420,453,454,463	Progress																				
for elec	Master Layout g design by LCSD	Master Layout 293 days? 610 days g design by LCSD 30 days	Master Layout 293 days? Sun 30/7/23 610 days Mon 14/11/22 g design by LCSD 30 days Wed 17/7/24 tion for lamp post holding down bolt 150 days Thu 1/2/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 11/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 12/24 Sat 29/6/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 12/24 Sat 29/6/24 5at 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 E	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 Edition	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 1/2/24 Sat 29/6/24 E	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 tion for lamp post holding down bolt 150 days Thu 12/24 Sat 29/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 11/24 Sat 29/6/24 Fri 17/5/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 115/8/24 tion for lamp post holding down bolt 150 days Thu 15/8/24 117	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 12/24 Sat 29/6/24 Fri 10/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 17/7/24 Thu 15/8/24 417 tion for lamp post holding down bolt 150 days Thu 12/24 Sat 29/6/24 Fri 10/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 177/24 Thu 15/8/24 tion for lamp post holding down bolt 150 days Thu 12/24 8129/6/24	Master Layout 293 days? Sun 30/7/23 Fri 17/5/24 Fri 17/5/24 610 days Mon 14/11/22 Tue 16/7/24 415SS,416FF+60 days,6 g design by LCSD 30 days Wed 177/124 115/8/24 tion for lamp post holding down bolt 150 days Thu 15/8/24 417	Maser Layout 293 days? Sun 307/23 Fri 17/5/24 Image: Comparison of Comparison o

) Tas	sk Name	Duration	Start	Finish	Predecessors				N	lay 2025							June 2	2025	
2	Irrigation system	72 days	Mon 18/12/23	Tue 27/2/24		27/	1	4/5	11		18/5	25/	5	1/6		8/6		15/6	22
2 3	Approval of WWO542	40 days	Mon 18/12/23	Fri 26/1/24		_													
	Approval of Form WWO 046	32 days	Sat 27/1/24	Tue 27/2/24	423														
5	Wing A	675 days	Mon 2/10/23	Wed 6/8/25															
; ;	Awaiting hanover from R2-3	348 days	Mon 2/10/23	Fri 13/9/24															
·	U channel and catchpit	212 days	Fri 1/11/24	Sat 31/5/25										31/5					
3	Play area formation	75 days	Wed 6/11/24	Sun 19/1/25															
)	Play area slab	21 days	Mon 26/5/25	Sun 15/6/25	435						26	6/5						15/6	
)	Installation, Inspection/certification of play area equipment	30 days	Thu 1/5/25	Fri 30/5/25	494	1/5								30/5					
	Planters RP6	33 days	Mon 17/2/25	Fri 21/3/25															
2	Planters RP5	26 days	Mon 10/3/25	Fri 4/4/25															
3	Planters RP3	21 days	Mon 7/4/25	Sun 27/4/25		27/4													
1	Planters RP2	21 days	Mon 21/4/25	Sun 11/5/25					11/5										
5	Planters RP1	21 days	Mon 5/5/25	Sun 25/5/25			5/5					25/5							
6	Planters RP4	21 days	Mon 19/5/25	Sun 8/6/25						19/5						8/6			
7	Soil replacement	35 days	Mon 12/5/25	Sun 15/6/25	434			1:	2/5									15/6	
3	Irrigation system	14 days	Mon 16/6/25	Sun 29/6/25	437	_											16/6 i		
9	Edge and pavement	28 days	Mon 30/6/25	Sun 27/7/25	438	_									0.10				
)	Fininshing to planter wall, seat wall and panter kerb	21 days	Mon 9/6/25	Sun 29/6/25	436	_									9/6 🗎				
	Soft landscaping works	30 days	Mon 30/6/25	Tue 29/7/25	438	_													
2	Lighting System	67 days	Sun 1/6/25 Sun 1/6/25	Wed 6/8/25 Tue 15/7/25	427	_							1/6	1					
3	Cable Duct, pillar box, cable drawpit & lamp post footing Installation of Lamp post	45 days 22 days	Sun 1/6/25 Wed 16/7/25	Wed 6/8/25	427	_							0/1						
5	Wing C	775 days	Thu 3/8/23	Mon 15/9/25	770														
) }	Catchpit (Stage 1)	211 days	Thu 3/8/23	Thu 29/2/24		_													
7	Catchpit (Stage 2)	211 days 21 days	Mon 2/6/25	Sun 22/6/25									2/	6					22/
3	(awaiting for R2-6)	83 days	Mon 10/3/25	Sull 22/6/25 Sat 31/5/25		_		-					21	31/5					
))	U Channel (Stage 1)	21 days	Sun 1/6/25	Sat 31/5/25	448	_							1/6						21/6
,)	U Channel (Stage 2)	60 days	Sun 22/6/25	Wed 20/8/25	449	_												22/6	
, 1	Lighting System	96 days	Sun 1/6/25	Thu 4/9/25														/\	
2	Cable Duct, pillar box, cable drawpit & lamp post footing (Stage 1)	-	Sun 1/6/25	Sat 21/6/25	448								1/6	1					21/6
3	Cable Duct, pillar box, cable drawpit & lamp post footing (Stage 2)		Sun 22/6/25	Wed 20/8/25	452								-					22/6	
1	Installation of Lamp post	60 days	Mon 7/7/25	Thu 4/9/25															
5	Planter (RP 9)	40 days	Mon 16/9/24	Fri 25/10/24															
5	Planter (RP7)	19 days	Mon 10/2/25	Fri 28/2/25															
7	Planter (RP8)	15 days	Mon 23/6/25	Mon 7/7/25	449													23	3/6 📊
3	Soil replacement (RP7 & RP8)	7 days	Tue 8/7/25	Mon 14/7/25	457														
)	Procurement of safety mat for play area	76 days	Mon 16/9/24	Sat 30/11/24															
)	Installation of safety mat for play area	21 days	Tue 15/7/25	Mon 4/8/25	458														
1	Installation, Inspection/certification of play area equipment	14 days	Tue 5/8/25	Mon 18/8/25	460,494														
2	Seat	14 days	Tue 5/8/25	Mon 18/8/25	460														
•	Planter (RP10)	7 days	Tue 19/8/25	Mon 25/8/25	462														
ł	Soil replacement (RP9& RP10)	7 days	Tue 26/8/25	Mon 1/9/25	463														
5	Irrigation system	21 days	Tue 5/8/25	Mon 25/8/25	460														
6	Edge and pavemen t(Stage 1-MOE)	28 days	Mon 2/6/25	Sun 29/6/25	400								2/	6					
<u> </u>	Edge and pavemen t(Stage 2)	40 days	Tue 5/8/25	Sat 13/9/25	460														
3	Soft landscaping works	42 days	Tue 5/8/25	Mon 15/9/25	460														
)	Fininshing to planter wall, seat wall and planter kerb	14 days	Tue 26/8/25	Mon 8/9/25	458,463														
)	Wing B	536 days	Wed 3/1/24	Sat 21/6/25															-
l 2	Shelter (1 nos) Submission of design	412 days	Tue 26/3/24 Tue 26/3/24	Sun 11/5/25 Fri 24/5/24															
<u>-</u> }	Approval of design	60 days 21 days	Tue 26/3/24 Thu 11/7/24	Wed 31/7/24	472														
) 	Construction of footing	45 days	Thu 15/8/24	Sat 28/9/24	472														
	Fabrication of superstructure	170 days	Fri 1/11/24	Sat 19/4/25															
	Construction of superstructure	21 days	Mon 21/4/25	Sun 11/5/25	475	_			11/5										
	U channel and Catchpit (Stage 1)	211 days	Wed 3/1/24	Wed 31/7/24	446SS,447SS	_													
3	U channel and Catchpit (Stage 2)	163 days	Fri 1/11/24	Sat 12/4/25															
	Lighting system (Stage 1)	307 days	Mon 10/6/24	Sat 12/4/25															
)	Cable Duct, pillar box, cable pit & lamp post footing	97 days	Mon 10/6/24	Sat 14/9/24															
_	Installation of lamp post	21 days	Wed 19/3/25	Sat 12/4/25	419														
2	Hard Lanscape (Stage 1)	293 days	Mon 2/9/24	Sat 21/6/25			Щ												

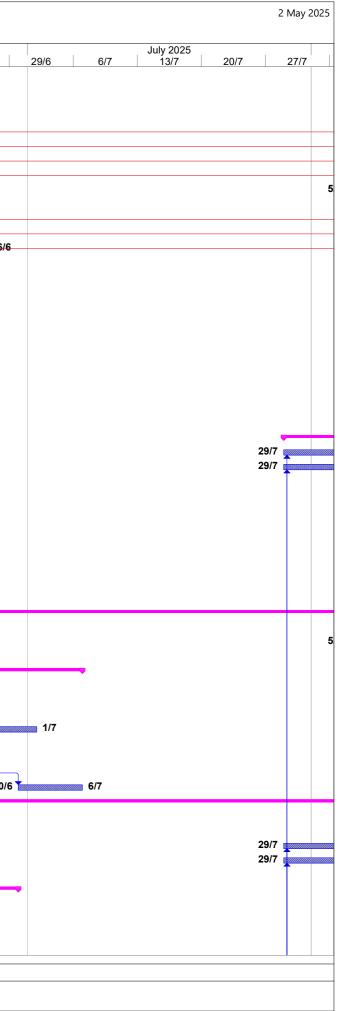


							3 Months Rolling F	Programme (N	lay 2025 to	July 2025)		cape Wor	KS							 		
ID T	ask Name	Duration	Start	Finish	Predecessors	27/4	4 4/5	May 20	18/5	25	5/5	1/6		Jı 8/6	une 2025 15/6		22/6	29/6	6/7	2025 3/7	20/7	27/7
483	Staircase B2 & B3	28 days	Mon 2/9/24	Sun 29/9/24				1110	10/0					0,0	10/0	0	22/0	20/0	0,1		20/1	21/1
484	Edge	45 days	Mon 16/9/24	Wed 30/10/24																		
485	Soil replacement	142 days	Mon 14/10/24	Sat 8/3/25	484																	
486	Irrigation system	30 days	Tue 7/1/25	Wed 5/2/25	484	_																
487 488	Seat (PMI) Staircase B5 & B6	44 days 41 days	Fri 1/11/24 Wed 9/10/24	Sat 14/12/24 Mon 18/11/24		_																
489	Staircase B4 (PMI)	18 days	Fri 1/11/24	Mon 18/11/24		_																
490	pavement	41 days	Mon 10/3/25	Sat 19/4/25		_																
491	Fiinshing to planter wall, seat wall and planter kerb	28 days	Mon 7/4/25	Sun 4/5/25		-	4/5															
492	Open tender for play area equipment	41 days	Mon 2/9/24	Thu 31/10/24																		
493	Design Submission for play area equipment	30 days	Mon 14/10/24	Tue 12/11/24	492																	
494	Procurement of safety mat and equipment for play area	122 days	Mon 30/12/24	Wed 30/4/25	493	-	30/4															
495	Play area slab	14 days	Sat 15/3/25	Fri 28/3/25	493																	
496	Installation, Inspection/certification of for play equipment	30 days	Thu 1/5/25	Fri 30/5/25	494	1/5					3	80/5				•	410					
497 498	Soft landscaping works Hard Lanscape (Stage 2)	90 days 194 days	Mon 24/3/25 Fri 1/11/24	Sat 21/6/25 Tue 13/5/25		-										2	1/6					
498 499	Irrigation system	194 days 14 days	Fri 1/11/24	Thu 14/11/24		-																
499 500	Staircase B1	28 days	Mon 6/1/25	Sun 2/2/25	499																	
501	Edge	76 days	Mon 3/2/25	Sat 19/4/25	500																	
502	Soil replacement	7 days	Mon 17/2/25	Fri 28/3/25	501																	
503	pavement	30 days	Mon 14/4/25	Tue 13/5/25	502			13/5														
504	Fiinshing to planter wall, seat wall and planter kerb	28 days	Tue 25/3/25	Mon 21/4/25																		
505	Soft landscaping works	14 days	Tue 22/4/25	Mon 5/5/25	504		5/5															
506	Hard Lanscape (Stage 3 Intersaction area)	206 days	Fri 1/11/24	Sun 25/5/25		_																
507 508	Shelter (1 nos) Construction of footing	184 days 28 days	Fri 1/11/24 Mon 17/3/25	Sat 3/5/25 Sun 13/4/25		_																
508	Fabrication of superstructure	170 days	Fri 1/11/24	Sat 19/4/25																		
510	Construction of superstructure	14 days	Sun 20/4/25	Sat 3/5/25	509	-	3/5															
511	Dwarf Wall DW26	28 days	Mon 17/3/25	Sun 13/4/25		-																
512	Staircase B7	14 days	Thu 2/1/25	Wed 15/1/25																		
513	Edge	14 days	Mon 24/3/25	Sun 6/4/25	512																	
514	Soil replacement	7 days	Mon 7/4/25	Sun 13/4/25	513																	
515	Irrigation system	14 days	Mon 14/4/25	Sun 27/4/25	514	27/4																
516	pavement	14 days	Mon 28/4/25 Mon 12/5/25	Sun 11/5/25 Sun 25/5/25	515 516	۰ ۲	12/	11/5		25/5	F											
517 518	Fiinshing to planter wall, seat wall and planter kerb Soft landscaping works	14 days 14 days	Mon 12/5/25	Sun 25/5/25	516			/5		25/5												
519	Wing D	1014 days	Tue 30/8/22	Sun 8/6/25		100 C					-			_								
520	Shelter (2 nos)	251 days	Mon 2/9/24	Sat 10/5/25		-		•					Ť									
521	Construction of footing	28 days	Mon 2/9/24	Sun 29/9/24																		
522	Fabrication of superstructure	45 days	Fri 1/11/24	Sun 15/12/24																		
523	Construction of superstructure	118 days	Mon 13/1/25	Sat 10/5/25				10/5														
524	U channel and Catchpit (Stage 1, near Site E-1)	46 days	Tue 30/1/24	Fri 15/3/24		_																
525	U channel and Catchpit (Stage 2)	181 days	Fri 1/11/24	Wed 30/4/25			30/4															
526	Dwarf Wall DW24 & DW25 Lighting system	28 days 314 days	Mon 2/9/24 Tue 2/7/24	Mon 30/9/24 Sun 11/5/25		_																
527 528	Cable Duct	125 days	Tue 2/7/24	Sun 11/5/25 Sun 3/11/24																 		
529	cable pit	125 days	Tue 2/7/24	Sun 3/11/24 Sun 3/11/24																		
530	Lamp post footing	125 days	Tue 2/7/24	Sun 3/11/24		_																
531	Installation of lamp post	21 days	Mon 21/4/25	Sun 11/5/25				11/5														
532	Pillar Box	60 days	Mon 2/12/24	Thu 30/1/25																		
533	Irrigation system	45 days	Mon 2/12/24	Wed 15/1/25																		
534	Retainning Wall	671 days	Tue 30/8/22	Sun 30/6/24																		
553	Staircase D1	30 days	Tue 2/7/24	Wed 31/7/24																		
554 555	Staircase D2 & D3 Planter(community garden)	30 days 166 days	Wed 2/10/24 Mon 4/11/24	Thu 31/10/24 Fri 18/4/25																		
556	Edge	75 days	Mon 4/11/24 Mon 4/11/24	Fri 17/1/25																		
557	Planter/Seat	80 days	Thu 2/1/25	Sat 22/3/25																		
558	Soil replacement	67.5 days	Fri 3/1/25	Mon 24/3/25	557																	
559	irrigation	108 days	Mon 13/1/25	Wed 30/4/25		-	30/4															
560	pavement	76 days	Mon 10/2/25	Sat 26/4/25		26/4																
561	Finishing to planter wall, seat wall and planter kerb	35 days	Tue 25/3/25	Mon 28/4/25		28/	4															
	Task Critical Task		ilestone	Summe	ary	Progrees																
				Juniffa		1 1091055		Page 9 /20														
								1 440 0120														

					Developm		3 Mon	ths Rolling	Programm	e (May 2	2025 to J	uly 2025)		po monte										2 May
ID T	ask Name	Duration	Start	Finish	Predecessors	27/4		4/5	-	y 2025	18/5	25/	_	1/6	9	June	e 2025 15/6	 22/6	29/6	 6/7	July 20 13/7)25	20/7	27/7
62	Tree Plaza	43 days	Mon 2/12/24	Mon 13/1/25		21/7		4/5	11/5	,	10/5	201	<u>,</u>	1/0	U		10/0	2210	23/0		10/1		20/1	
63	Soft landscaping works	28 days	Mon 14/4/25	Sun 11/5/25					11/5															
64	Railing/fence and signage	28 days	Mon 12/5/25	Sun 8/6/25	563			1	2/5						8/6									
65	Store room	135 days	Fri 3/1/25	Sat 17/5/25																				
6	Store room design	72 days	Fri 3/1/25	Sat 15/3/25																				
67	Store room foundation	21 days	Mon 14/4/25	Sun 4/5/25				4/5																
68	Store room installation	2 days	Fri 2/5/25	Sat 3/5/25		2/5	5 🔜 է	3/5																
69	Store room E & M	14 days	Sun 4/5/25	Sat 17/5/25	568		4/5 👗			17	7/5													
70	Energization	14 days	Tue 2/9/25	Mon 15/9/25																				
71	CLP ducting and energization	14 days	Tue 2/9/25	Mon 15/9/25	453																			
72 73	Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works Commencement of Establishment Work for Section 2	365 days 0 days	Mon 9/6/25 Mon 9/6/25	Sat 4/7/26 Mon 9/6/25	519FF+1 day	_										9/6								
73	Establishment Work Duration for Section 2	365 days	Mon 9/6/25	Sat 4/7/26	573SS-1 day										9/6	5/0		 		 				
74 75	Completion of Works in Section 2	0 days	Sat 4/7/26	Sat 4/7/26	57355-1 day										5/0									
75 76	Section of Works 3 - Portions 1b, 3, 4, 5	763 days	Fri 30/7/21	Thu 31/8/23																				
77		276 days	Tue 29/11/22	Thu 31/8/23		_																		
78		7 days	Tue 29/11/22	Mon 5/12/22	46SS	-																		
79	Mobilization& Site Clearance	14 days	Tue 6/12/22	Mon 19/12/22	578	-																		
30 80		7 days	Tue 20/12/22	Mon 26/12/22	579																			
81	PMI 066	50 days	Thu 13/7/23	Thu 31/8/23																				
82	Sewerage pipes and manholes	50 days	Thu 13/7/23	Thu 31/8/23	580																			
83	Greywater pipes and manholes	50 days	Thu 13/7/23	Thu 31/8/23	582SS																			
84	Laying of 75mm thick milled asphalt chips	7 days	Fri 25/8/23	Thu 31/8/23	583FF																			
85	Lighting	163 days	Wed 22/3/23	Thu 31/8/23																				
36	Application for electricity power supply	83 days	Wed 22/3/23	Mon 12/6/23		_																		
87	Lighting design	140 days	Wed 22/3/23	Tue 8/8/23	586SS																			
88	Installation including ducting, draw pit and lighting	23 days	Wed 9/8/23	Thu 31/8/23	587,583FF																			
89	Portion 3	702 days	Wed 29/9/21	Thu 31/8/23																				
90	Access date	0 days	Wed 29/9/21	Wed 29/9/21	51SS																			
91	Deferred possession (CE 004 & 006)	61 days	Wed 29/9/21	Sun 28/11/21																				
92	Provision of site access	7 days	Mon 29/11/21	Sun 5/12/21	591																			
93	Mobilization& Site Clearance	14 days	Mon 6/12/21	Sun 19/12/21	592	_																		
94		52 days	Mon 20/12/21	Wed 9/2/22	593	_																		
95	Engineer AIP of MS, Temp works, plans& associated docs	21 days	Thu 10/2/22	Wed 2/3/22	594	_																		
96	Installation of chain link fencing	92 days	Thu 1/6/23	Thu 31/8/23	595	_																		
97	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23		_																		
98 99	GI works (PMI 006) Additional drainage works (PMI 075)	7 days 30 days	Mon 3/10/22 Wed 2/8/23	Sun 9/10/22 Thu 31/8/23	596FF,597FF	_																		
00		763 days	Fri 30/7/21	Thu 31/8/23	590FF,597FF	_																		
00		7 days	Fri 30/7/21	Thu 5/8/21	56SS	_																		
02	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23	597FF,606FF																			
02	GI works (PMI 006)	10 days	Mon 10/10/22	Wed 19/10/22	598																			
i03	Portion 5	551 days	Sun 27/2/22	Thu 31/8/23																				
05		7 days	Sun 27/2/22	Sat 5/3/22	61SS																			
06	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23																				
07	Installation of chain link fencing	31 days	Tue 1/8/23	Thu 31/8/23	606FF																			
08	Section of Works 3A - Establishment Works for all Landscape Softworks	365 days	Fri 1/9/23	Fri 30/8/24																				
12	in Section 3 of the Works Section of Works 4 - Portions 6, 12	1870 days?	Fri 30/7/21	Fri 23/10/26		-														 				
12	Portion 6	1218 days?	Sat 29/1/22	Fri 30/5/25																				
14		0 days	Sat 29/1/22	Sat 29/1/22	73SS								•											
15	Deferred possession	81 days	Sat 29/1/22	Tue 19/4/22	614																			
16	Mobilization& Site Clearance	14 days	Wed 20/4/22	Tue 3/5/22	615																			
17	Issuance of site sketch for retaining wall (Letter C10/500/400739)	0 days	Wed 14/9/22	Wed 14/9/22	616																			
8	Drainage works under PMQP 004	0 days	Fri 14/10/22	Fri 14/10/22	616																			
9	Application for electricity power supply	421 days	Mon 14/11/22	Mon 8/1/24	415SS																			
20	Design Change of Layout (PMI-085)	1 day	Wed 5/7/23	Wed 5/7/23																				
21	Park Lighting Design	612 days	Mon 14/11/22	Wed 17/7/24	619SS																			
22	Approval of lighting design by LCSD	30 days	Thu 18/7/24	Fri 16/8/24	621																			
23	Time Risk Allowance	14 days	Fri 14/10/22	Thu 27/10/22	622																			
24	Retaining wall RWA20	618 days	Tue 2/5/23	Wed 8/1/25																 				
	Task Critical Task		ilantana 🔿			Den												 		 				
	Task Critical Task	M	iiestone 🔷	Summ	ary V	Progress	a																	

	ternational Water & Electric Corp.				Developm	nent of An	nderso 3 Mo	on Road Qu onths Rolling	arry Site - g Program	Infrastruc me (May 2	ture, Gree 2025 to Ju	ning and L y 2025)	andsca	pe Works	S											-	2 May 2
ID T	ask Name	Duration	Start	Finish	Predecessors					lay 2025					1		June 202		1					July 2025		1	
625	Excavation	112 days	Tue 2/5/23	Mon 21/8/23		27/4	4	4/5	11	/5	18/5	25/5	5	1/6		8/6		15/6	22	2/6	29/6	6/7	/	13/7	20/7		27/7
626	Blinding layer	110 days	Tue 9/5/23	Sat 26/8/23	625SS+7 days																						
627	Base slab (21 bays)	169 days	Tue 16/5/23	Tue 31/10/23	626SS+7 days																						
628	Wall stem (21 bays)	136 days	Mon 3/7/23	Wed 15/11/23	627SS+10 days																						
629	Additional Sewage System (PMI 086)	170 days	Thu 30/11/23	Fri 17/5/24	628																						
630	PMI for Grey Water	30 days	Sat 18/5/24	Sun 16/6/24	629																						
631	pipe laying and drainage structure (Stage 1)	183 days	Wed 31/1/24	Wed 31/7/24																							
632	pipe laying and drainage structure (Stage 2)	7 days	Thu 2/1/25 Tue 16/4/24	Wed 8/1/25 Sat 10/8/24																							
633 634	Backfilling (15 layers) Retaining wall RWA19	117 days 382 days?	Fri 1/12/23	Mon 16/12/24																							
635	Blinding layer (1-13)	45 days	Fri 1/12/23	Sun 14/1/24		_																					
636	Base slab (1-13)	50 days	Mon 18/12/23	Mon 5/2/24	635SS+5 days	-																					
637	Wall stem (1-13)	59 days	Tue 2/1/24	Thu 29/2/24	636SS+9 days																						
638	pipe laying and drainage structure	30 days	Thu 1/8/24	Fri 30/8/24																							
639	Backfilling (1-11)	69 days	Mon 2/9/24	Sat 9/11/24																							
640	Blinding layer (14-18)	28 days	Sat 4/5/24	Fri 31/5/24																							
641	Base slab (14-18)	28 days	Sun 5/5/24	Sat 1/6/24																							
642	Wall stem (14-18)	45 days	Thu 9/5/24	Sat 22/6/24																							
643	Pipe Laying and Drainage Structure (12-18)	148 days?	Mon 22/7/24	Mon 16/12/24																							
644	Backfilling (12-18)	71 days	Mon 2/9/24	Mon 11/11/24										_													
645	Railing for RWA 19 & 20	30 days	Thu 1/5/25	Fri 30/5/25	651	1/5	•						30/	5													
646	U channel & catchpit (1-11)	113 days	Mon 10/6/24	Mon 30/9/24			0010																				
647	U channel & catchpit (12-18)	180 days	Sat 2/11/24	Wed 30/4/25		_	30/4																				
648	edging (1-11)	144 days	Mon 10/6/24	Thu 31/10/24		_																					
649 850	edging (12-18)	6 days	Mon 18/11/24	Sat 23/11/24 Mon 17/2/25		_																					
650 651	pavement Finsihing	70 days 52 days	Mon 9/9/24 Mon 10/3/25	Wed 30/4/25	649		30/4																				
552	Soft landscaping works (Stage 1)	24 days	Mon 2/9/24	Wed 30/4/23 Wed 25/9/24	043	_	50/4																				
352 353	Soft landscaping works (Stage 2)	59 days	Mon 3/3/25	Wed 30/4/25		_	30/4																				
600 654	CCTV inspection, testing and commissioning	21 days	Fri 2/5/25	Thu 22/5/25		2/5					2	2/5															
655	Irrigation system Submission	716 days	Tue 16/5/23	Wed 30/4/25		-																					
656	Contractor's design	79 days	Tue 16/5/23	Wed 2/8/23																							
657	Approval of WWO542	40 days	Wed 1/11/23	Sun 10/12/23	656																						
658	Approval of Form WWO 046	32 days	Mon 11/12/23	Thu 11/1/24	657																						
659	Approval of WWO542 (amendment)	30 days	Mon 30/12/24	Tue 28/1/25																							
660	Approval of Form WWO 046 (amendment)	30 days	Wed 29/1/25	Thu 27/2/25	659																						
661	Irrigation system	163 days	Mon 8/7/24	Wed 30/4/25			30/4																				
662	Lighting system	338 days	Mon 24/6/24	Tue 27/5/25								-															
663	Cable Duct, pillar box, cable pit & lamp post footing	311 days	Mon 24/6/24	Wed 30/4/25		_	30/4		40/5																		
664	Cable wiring & accessories	83 days	Mon 17/2/25	Sat 10/5/25	004			44	10/5			0.4/5															
665 666	Installation of lamp post Testing and Commissioning of lighting	14 days	Sun 11/5/25 Sun 25/5/25	Sat 24/5/25 Tue 27/5/25	664 665	_		11	/5			24/5	7/5														
667	Portion 12	3 days 1495 days?	Fri 30/7/21	Mon 1/9/25	005						25/5	2	//5														
668	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21		_																					
669	Mobilization& Site Clearance	14 days	Fri 6/8/21	Thu 19/8/21		_																					
670	Preparation& submission of MS, Temp works, associated plans & docs	-	Fri 20/8/21	Sun 10/10/21		_																					
671	Engineer's AIP of MS, Temp works, plans& associated docs	22 days	Mon 11/10/21	Mon 1/11/21																							
672	Additional GI at Portion 12 (PMI 005)	15 days	Wed 1/6/22	Wed 15/6/22																							
673	Drainage pipe and manhole	379 days	Tue 2/11/21	Tue 15/11/22																							
674	Excavation	364 days	Tue 2/11/21	Mon 31/10/22																							
675	Pipe laying and manhole consstruction including backfilling	245 days	Wed 16/3/22	Tue 15/11/22																							
676	Dwaf wall construction (Stage 1)	105 days	Wed 16/11/22	Tue 28/2/23																							
677	Awaiting for revision of design by PM due to interface	97 days	Wed 1/3/23	Mon 5/6/23																							
78	Staircase	630 days?	Tue 15/8/23	Mon 5/5/25		_		-																			
79	Footing (S1-10)	231 days	Tue 15/8/23	Mon 1/4/24		_																					
80	Slab & Vertical Wall (S1-10)	258 days	Mon 28/8/23	Sat 11/5/24																							
81	Wing Wall	70 days?	Sun 12/5/24	Sat 20/7/24			20/4																				
82	Seat and railing (precast)	241 days	Mon 2/9/24 Mon 13/5/24	Wed 30/4/25 Mon 30/9/24		_	30/4																				
683 684	Footing (S12-16) Footing (S11)	141 days 14 days	Mon 13/5/24 Mon 7/10/24	Sun 20/10/24		_																					
85	Slab & Vertical & Wing Wall (S12-15)	123 days	Fri 31/5/24	Mon 30/9/24		_																					
55		120 udys	111 31/3/24	10101 30/3/24																							
	Task Critical Task	M	ilestone 🔷	Summ	ary 🗸	Progress																					
	1																										

					Developin		derson Road Quarry Site 3 Months Rolling Progra				
D Ta	ask Name	Duration	Start	Finish	Predecessors	27/4	4/5	May 2025	18/5	25/5	June 2025 1/6 8/6 15/6 22/6
86	Slab & Vertical & Wing Wall (S11)	48 days	Mon 21/10/24	Sat 7/12/24	684						
87	Slab & Vertical & Wing Wall (S16)	21 days	Tue 15/4/25	Mon 5/5/25			5/5				
88	Dwaft wall (resumption) - Stage 2	286 days	Mon 4/3/24	Sat 14/12/24							
89	Confirmation of recess cover for u channel	1 day	Thu 25/4/24	Thu 25/4/24							
90	U channel & catchpit (Stage 1-S1-16)	239 days	Mon 15/7/24	Mon 10/3/25		_					
91	Edging (Stage1)	169 days	Mon 26/8/24	Mon 10/2/25		_					
92	Paving (Stage1)	30 days	Mon 24/3/25	Tue 22/4/25	691	_					
93	U channel & catchpit (Stage 2- Civic Plaza)	30 days	Thu 9/1/25	Fri 7/2/25		_					
94	Edging (Stage 2)	14 days	Tue 5/8/25	Mon 18/8/25	712	_					
94 95	Paving (Stage 2)	14 days	Tue 19/8/25	Mon 1/9/25	694	_					
		-	Mon 2/12/24	Sat 10/5/25	034	_	10/	-			
96	U channel & catchpit (Stage 3 -Play Area)	160 days			000			ð			- F/C
97	Edging (Stage 3)	28 days	Sun 13/4/25	Thu 5/6/25	696						5/6
98	Paving (Stage 3)	21 days	Thu 5/6/25	Thu 26/6/25	697						5/6
99	Soft landscaping (Stage 1)	172 days	Wed 2/10/24	Sat 22/3/25							
00	Soft landscaping (Stage 2)	14 days	Tue 19/8/25	Mon 1/9/25	694						
01	Soft landscaping (Stage 3)	14 days	Tue 1/4/25	Mon 14/4/25							
02	Children play area slab CPA 1	28 days	Mon 21/4/25	Sun 18/5/25					18/5		
03	Installation, Inspection/certification of for play equipment	14 days	Mon 19/5/25	Sun 1/6/25	702			19/5	,		1/6
04	Signage Post	21 days	Mon 3/3/25	Sun 23/3/25							
05	Drainage pipe and manhole (Storm Water-Stage 1)	154 days	Thu 19/12/24	Wed 21/5/25				_			
06	Excavation /Sheet Piling	14 days	Thu 19/12/24	Wed 1/1/25		-					
07	Pipe laying and manhole (TM/T2_1) consstruction including backfilling		Mon 14/4/25	Wed 21/5/25		-			21/	5	
08	Drainage pipe and manhole (Storm Water-Stage 2)	86 days	Sat 22/2/25	Sun 18/5/25							
09	Excavation /Sheet Piling	14 days	Sat 22/2/25	Fri 7/3/25	707	_					
10	-	28 days	Mon 21/4/25	Sun 18/5/25	709				18/5		
-		-	Tue 29/7/25	Mon 11/8/25	105				10/5		
11	Drainage pipe and manhole (Storm Water-Stage 3)	14 days			1010	_					
12	Catchpit	7 days	Tue 29/7/25	Mon 4/8/25	1016						
13	U-channel &Pipe laying	14 days	Tue 29/7/25	Mon 11/8/25	1016						
14	Sunken Plaza	538 days	Mon 30/10/23	Sat 19/4/25							
15	Excavation	7 days	Mon 30/10/23	Sun 5/11/23							
16	Subsoil drain	30 days	Thu 2/5/24	Fri 31/5/24							
17	U channel and catchpit	43 days	Wed 19/6/24	Wed 31/7/24	716						
18	Underground cable duct	30 days	Sat 1/6/24	Sun 30/6/24							
19	RC structure - Stage 1	30 days	Thu 1/2/24	Fri 1/3/24							
20	RC structure - Stage 2 (resumption)	49 days	Sat 15/6/24	Fri 2/8/24	719						
21	Finishing	30 days	Mon 17/3/25	Tue 15/4/25							
22	Soft landscaping	31 days	Thu 20/3/25	Sat 19/4/25		_					
23	Irrigation system	254 days	Sun 1/12/24	Mon 11/8/25							
24	Irrigation system (Stage 1 - S1-16)	140 days	Sun 1/12/24	Sat 19/4/25		_					
	Irrigation system (Stage 2 - Civic Plaza)	-	Tue 5/8/25	Mon 11/8/25	712	_					
25		7 days		Sun 20/4/25	112	_					
26	Irrigation system (Stage 3 - Play Area)	7 days	Mon 14/4/25								
27	Lighting system	462 days	Mon 1/4/24	Sun 6/7/25		_					
28	Cable Duct, pillar box, cable pit & lamp post footing (Stage 1)	244 days	Mon 1/4/24	Sat 30/11/24		_					
29	Installation of lamp post (Stage 1)	14 days	Mon 14/4/25	Sun 27/4/25		27/4					
30	Cable Duct, pillar box, cable pit & lamp post footing (Stage 2)	30 days	Mon 5/5/25	Tue 3/6/25			5/5				3/6
31	Installation of lamp post (Stage 2)	28 days	Mon 2/6/25	Tue 1/7/25	730					:	2/6
32	Cable Duct, pillar box, cable pit & lamp post footing (Stage 3)	60 days	Mon 17/2/25	Thu 17/4/25							
33	Installation of lamp post (Stage 3)	30 days	Mon 19/5/25	Tue 17/6/25	732			19/5			17/6
34	Cable wiring & accessories	60 days	Mon 14/4/25	Thu 12/6/25							12/6
35	Testing and Commissioning of lighting	7 days	Mon 30/6/25	Sun 6/7/25	734						
36	Foul & Grey Water (Civic Plaza)	281 days	Mon 11/11/24	Mon 18/8/25							
37	Pipe laying (Stage 1)	30 days	Mon 10/3/25	Sun 20/4/25							
38	GMH/FMH (Stage 1- FHM-B15 & GMH-13)	91 days	Mon 11/11/24	Fri 21/2/25							
39	Pipe laying (Stage 2)	7 days	Tue 29/7/25	Mon 4/8/25	1016	-					
10	GMH/FMH (Stage 2 - FHM-B16 & GMH-14)	14 days	Tue 29/7/25	Mon 11/8/25	1016	-					
			Tue 12/8/25	Mon 11/8/25 Mon 18/8/25	740	_					
41	CCTV inspection, testing and commissioning	7 days			/40						
42	Water Fountain (PMI)	210 days	Mon 2/12/24	Sun 29/6/25		_					
43	Approval of WWO542	60 days	Mon 2/12/24	Thu 30/1/25							
44	Approval of Form WWO 046	46 days	Fri 31/1/25	Mon 17/3/25	743						
45	power cable ducting and cable llaying	30 days	Tue 1/4/25	Wed 30/4/25			30/4				
46	Drain and plumbing pipe laying	14 days	Thu 1/5/25	Wed 14/5/25	745	1/5		14/5			
40											



	rnational Water & Electric Corp.				Developm	nent of And	lerson Road 3 Months Ro	EDD Contra Quarry Site Olling Progra	e - Infrastructure, G mme (May 2025 to	eening and Landso July 2025)	ape Works									2 N
) Ta	sk Name	Duration	Start	Finish	Predecessors	27/4	4/		May 2025 11/5 18/5		1/6	8/6	June 2025	s 2'	2/6	29/6	6/7	July 2025 13/7	20/7	2
7	Fountain footing	14 days	Thu 15/5/25	Wed 28/5/25	746	21/4	4/		/5	25/5	1/0	0/0	15/0		2/0	29/0	0/7	13/7	20/7	
3	Installtion of fountain	2 days	Thu 29/5/25	Fri 30/5/25	747	-				29/5 3	0/5									
	WSD inspection and water sampling	30 days	Sat 31/5/25	Sun 29/6/25	748					31/5 🎽					2	29/6				
	Railing	224 days?	Mon 16/9/24	Sun 27/4/25																
	Design Submission	46 days?	Mon 16/9/24	Thu 31/10/24																
2	Mockup	60 days	Tue 19/11/24	Fri 17/1/25	751															
3	Fabrication	60 days	Sat 18/1/25	Tue 18/3/25	752															
1	Installation	21 days	Mon 7/4/25	Sun 27/4/25	753	27/4														
5	Energization	267 days	Mon 7/10/24	Mon 30/6/25																
6	Pillar Box	75 days	Mon 7/10/24	Fri 20/12/24																
7	CLP ducting and energization	28 days	Tue 3/6/25	Mon 30/6/25						3	/6					30/6				
8	Section of Works 4A - Establishment Works for all Landscape	1870 days?	Fri 30/7/21	Fri 23/10/26																+
9	Softworks in Section 4 of the Works Commencement of Establishment Work for Section 4	0 days	Tue 2/9/25	Tue 2/9/25	646FS+1 day,690FS+1 d															
)	Establishment Work Duration for Section 4	365 days	Tue 2/9/25	Mon 12/10/26	759SS-1 day	-														
1	Completion of Works in Section 4	0 days	Mon 12/10/26	Mon 12/10/26	760															
<u>2</u>	Section of Works 5A - Portions 9, 10	1487 days	Fri 30/7/21	Sun 24/8/25	100															
·	Portion 9 [Sitting Out Area C & R2-1 Footpath]	1426 days	Wed 29/9/21	Sun 24/8/25																
	Provision of site access [61 days after starting date as per Contra	-	Wed 29/9/21 Wed 29/9/21	Wed 6/10/21	90SS	-														
	Mobilization& Site Clearance	15 days	Thu 7/10/21	Thu 21/10/21	764	-														
5 5	Preparation& submission of MS, Temp works, associated plans &		Tue 1/2/22	Sat 16/4/22	765	-														
	Engineer AIP of MS, Temp works, plans& associated docs	60 days	Sun 17/4/22	Wed 15/6/22	766	-														
3	Construction of U channel and catchpit	256 days	Thu 16/6/22	Sun 26/2/23	767,770FS-65 days,771															
)	Time Risk Allowance	15 days	Mon 27/2/23	Mon 13/3/23	768	-														
	Modification of existing surface drain at slope toe (PMI 032)	0 days	Fri 19/8/22	Fri 19/8/22	100															
	Modification of existing surface drain at slope toe (FMI 052) Modification of existing surface drain at slope toe (FMI 050)	0 days	Wed 28/9/22	Wed 28/9/22	770															
	Interface RS-1 and return of Site	574 days	Tue 14/3/23	Mon 7/10/24	110	_														
	Resumption of modification of existing drain at slope toe (late retu		Mon 14/10/24	Thu 12/12/24	772	-														
	Backfilling and compaction of road materials	74 days	Fri 13/12/24	Mon 24/2/25	773	-														
5	Installation of E1 kerbs	54 days	Tue 25/2/25	Sat 19/4/25	774	_														
;	Construction of porous pavement footpath	28 days	Mon 17/3/25	Sun 13/4/25	114															
,	Installation of street furniture, traffic signs, bollards and road mar		Mon 14/4/25	Sun 11/5/25	776	_		1	/5											
3	Landscaping works	28 days	Mon 14/4/25	Sun 11/5/25	776	_		1	-											
)	Modification of existing kerb to drop kerb	14 days	Mon 12/5/25	Sun 25/5/25	778	-		12/5		25/5										
)	Lighting system (Footpath)	246 days	Tue 8/10/24	Tue 10/6/25				12/0		20/0										
, 	Cable Duct, pillar box, cable pit & lamp post footing	137 days	Tue 8/10/24	Fri 21/2/25	772	_						•								
	Installation of lamp post (by HWY)	30 days	Mon 14/4/25	Tue 13/5/25	781	-			13/5											
	Cable wiring & accessories	14 days	Wed 14/5/25	Tue 27/5/25	782	-		14/5	-	27/5										
	Testing and Commissioning of lighting	14 days	Wed 28/5/25	Tue 10/6/25	783			1		28/5		10/	6							
_	Sitting Out Area (DOS)	832 days	Tue 16/5/23	Sun 24/8/25						20/0		10/	•							
	Site Access Blocked by Shui On	48 days	Mon 24/2/25	Sat 12/4/25		_														
	Impleentation of TTA for site acces	2 days	Sat 26/4/25	Sun 27/4/25	786	27/4														
_	Site Formation	7 days	Mon 28/4/25	Sun 4/5/25	787	1	4/5													
	U channel and catchpit	14 days	Mon 28/4/25	Sun 11/5/25	787	1		1	/5											
	Kerb (E27)	14 days	Mon 12/5/25	Sun 25/5/25	789	-		12/5		25/5										
_	Drainage layer & sub soil drain	7 days	Mon 26/5/25	Sun 1/6/25	790						<mark>⊪</mark> 1/6									
	Soil replacement	7 days 7 days	Mon 2/6/25	Sun 8/6/25	791						1/0	8/6								
_	Concrete Seat	7 days	Mon 9/6/25	Sun 15/6/25	792	-				2/9		1	15/6							
_	Subbase and paving	14 days	Mon 16/6/25	Sun 29/6/25	793	-					0,0		16/6			29/6				
-	Moveable Planter	7 days	Mon 30/6/25	Sun 6/7/25	794	-									30/6	6/	7			
_	Irrigation system (DOS)	832 days	Tue 16/5/23	Sun 24/8/25		_														
_	Contractor's design	79 days	Tue 16/5/23	Wed 2/8/23		-														
-	Approval of WWO542	40 days	Mon 18/12/23	Fri 26/1/24	797															
-	Approval of Form WWO 046	32 days	Sat 27/1/24	Tue 27/2/24	798															
-	Irrigation system	14 days	Mon 30/6/25	Sun 13/7/25	794										30/6			13/7		
-	Testing	28 days	Mon 14/7/25	Sun 10/8/25	800												14/7	-		
-	Reinstatement of cycling track and road marking	14 days	Mon 11/8/25	Sun 24/8/25	801	-														
	Lighting system (Park Light- DOS)	459 days	Thu 28/3/24	Sun 29/6/25		_														
	Design and fabrication for lamp post holding down bolt	94 days	Thu 28/3/24	Sat 29/6/24											•					
_	Cable Duct, pillar box, cable pit & lamp post footing	14 days	Tue 1/4/25	Mon 14/4/25																
	Installation of lamp post	14 days	Mon 5/5/25	Sun 18/5/25	788,786		5/5		18/5											
	Cable wiring & accessories	14 days	Mon 19/5/25	Sun 1/6/25	806				19/5		1/6									
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Ia	sk Name	Duration	Start	Finish	Predecessors	27/4	4/5	M	/ay 2025 /5) 18/5	25	5/5	1/6	8/6	June 2025 15/6	22/6		29/6	6/7	July 2025 13/7	20
	CLP ducting and energization	28 days	Mon 2/6/25	Sun 29/6/25	807								6					9/6			
	Portion 10	1384 days	Fri 30/7/21	Tue 13/5/25		_		 /	\sim												
	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21	95SS																
	Slope inspection & assessment work	50 days	Fri 6/8/21	Fri 24/9/21	810																
	Mobilization, access arrangements, logistic plan & Site Clearance		Sat 25/9/21	Mon 15/11/21	811																
	Preparation & submission of MS, Temp works, associated plans & o	-	Tue 16/11/21	Wed 22/12/21	812	_															
	Time Risk Allowance	16 days	Thu 23/12/21	Fri 7/1/22	813	_															
	Main access blocked by C1at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23	814	_															
	Engineer's AIP of MS, Temp.works, plans & associated docs Demolition and removal of disused water pipe and sprinkler system	21 days	Sat 8/1/22 Sat 29/1/22	Fri 28/1/22 Thu 7/7/22	814	_															
-	Repair of cracks at drainage channel and concrete berm	884 days	Thu 1/9/22	Fri 31/1/25	817	-															
_	Reinstatement of joint sealant at drainage channel	899 days	Fri 16/9/22	Sun 2/3/25	817	-															
_	Installation of display sign for slope registration	59 days	Wed 1/1/25	Fri 28/2/25	017	-															
-	Slope Works at Feature No. 11NE-D/C947 (420m)	463 days	Sun 31/12/23	Sun 6/4/25		-															
-		30 days	Sun 31/12/23	Mon 29/1/24	815	-															
	(Stage 1 at +330 mPD)	-																			
	Installation of wire mesh (Stage 2 at +330mPD)	30 days	Tue 15/10/24	Wed 13/11/24																	
	Filling of void with cement soil	7 days	Tue 18/2/25	Mon 24/2/25	859																
	Reinstatement of concrete berm	14 days	Mon 24/3/25	Sun 6/4/25	824	_															
	Installation of hand railings	7 days	Sat 21/9/24	Fri 27/9/24	825	_															
	Repainting of handrailing	19 days	Mon 10/3/25	Fri 28/3/25		_															
	Slope Works at Feature No. 11NE-D/C976 (185m)	198 days	Sat 21/9/24	Sun 6/4/25	005	_															
-	Construction of concrete berm	21 days	Sat 21/9/24	Fri 11/10/24	825																
-	Installation of hand railings	7 days	Sat 12/10/24	Fri 18/10/24	829	_															
	Repainting of existing steel maintenance staircase Removal of existing handrailing and steel landing plates and	7 days 7 days	Mon 24/3/25 Mon 31/3/25	Sun 30/3/25 Sun 6/4/25	831	_															
	re-construction	7 uays	W011 3 1/3/20	Sull 0/4/25	031																
	Construction of wire mesh	73 days	Thu 2/1/25	Sat 15/3/25																	
	Slope Works at Feature No. 11NE-D/C977 (300m)	309 days	Sun 26/5/24	Sun 30/3/25																	
	Construction of wire mesh	28 days	Sat 1/2/25	Sat 29/3/25	833																
	Construction of concrete berm	14 days	Sat 12/10/24	Fri 25/10/24	829																
	Construction of handrailing	7 days	Sun 26/5/24	Sat 1/6/24																	
	Repair drainage channel	7 days	Mon 24/3/25	Sun 30/3/25																	
	Slope Works at Feature No. 11NE-D/C986 (190m)	332 days	Fri 3/5/24	Sun 30/3/25																	
	Filling of void with cement soil	7 days	Mon 24/3/25	Sun 30/3/25																	
	Construction of concrete berm	14 days	Fri 3/5/24	Thu 16/5/24																	
	Installation of hand railings	6 days	Fri 26/7/24	Wed 31/7/24		_															
	Construction of wire mesh	55 days	Mon 20/1/25	Sat 15/3/25		_															
	Slope Works at Feature No. 11NE-D/C1026 (60m)	441 days	Fri 18/8/23	Thu 31/10/24																	
	Filling of void with cement soil	30 days	Wed 1/11/23	Thu 30/11/23 Sat 30/12/23	045	_															
_	Installation of non-biodegradable erosion control mat	30 days	Fri 1/12/23		845	_															
-	Hydroseeding Repainting of handrailing	30 days 90 days	Wed 2/10/24 Fri 18/8/23	Thu 31/10/24 Wed 15/11/23		_															
+	Slope Works at Feature No. 11NE-D/C987 (90m)	863 days	Fri 8/7/22	Sat 16/11/24																	
-	Construction of concrete berm	30 days	Mon 1/1/24	Tue 30/1/24	845	_															
-	Installation of hand railings	7 days	Thu 8/2/24	Wed 14/2/24	850																
-	Installation of non-biodegradable erosion control mat	30 days	Fri 8/7/22	Sat 6/8/22	817																
-	Hydroseeding	16 days	Fri 1/11/24	Sat 16/11/24																	
	Repainting of handrailing	90 days	Fri 18/8/23	Wed 15/11/23																	
	Slope Works at Feature No. 11NE-D/C871 (260m)	347 days	Sat 1/6/24	Tue 13/5/25																	
1	Construction of lockable gate	14 days	Tue 1/4/25	Mon 14/4/25	860																
	Removal/Repair of existing damaged hand railings	14 days	Tue 15/4/25	Mon 28/4/25	856	28/4															
	Installation of hand railings	60 days	Sat 1/6/24	Tue 30/7/24																	
1	Reinstatement of concrete berm	15 days	Tue 29/4/25	Tue 13/5/25	857	9/4 🎽) <i>·</i>	13/5												
	Repainting of handrailing	85 days	Mon 6/1/25	Mon 31/3/25																	
	Slope Works at Feature No. 11NE-D/C979 (45m)	294 days	Fri 18/8/23	Thu 6/6/24																	
	Construction of concrete berm	14 days	Fri 17/5/24	Thu 30/5/24																	
	Installation of hand railings	7 days	Fri 31/5/24	Thu 6/6/24	862																
	Repainting of handrailing	90 days	Fri 18/8/23	Wed 15/11/23																	
	Slope Works at Feature No. 11NE-D/C988 (370m)	21 days	Fri 31/5/24	Thu 20/6/24																	
	Construction of concrete berm	14 days	Fri 31/5/24	Thu 13/6/24	862																
1	Installation of hand railings	7 days	Fri 14/6/24	Thu 20/6/24	866																

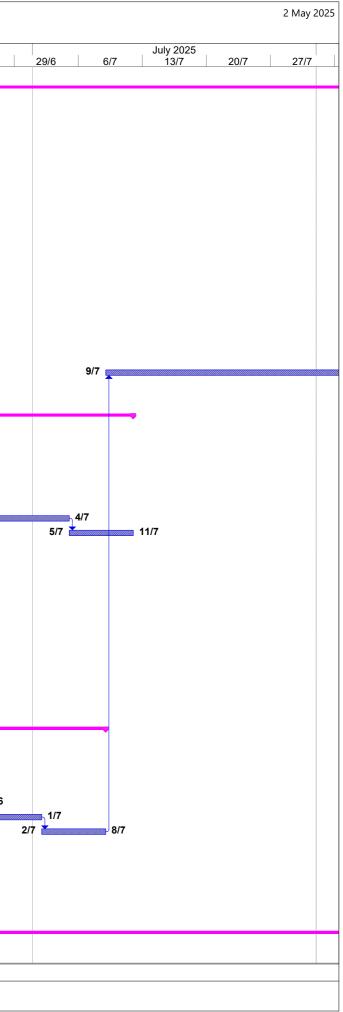
									<u> </u>	<u> </u>	y 2025 to .	,	- /												
Tasl	k Name	Duration	Start	Finish	Predecessors	27/4		4/5		May 202 1/5	5 18/5		25/5	1/6	6	8/6	June 202	5 5/6	22/6	29/6	6/7	Jul	y 2025 13/7	20/7	27
	Slope Works at Feature No. 11NE-D/C1003 (265m)	28 days	Fri 14/6/24	Thu 11/7/24		2114		-10		1/5	10/5		20/0	1/(0	0/0	1	5/0	22/0	23/0	0/1		10/1	20/1	
	Removal of disused pipes	21 days	Fri 14/6/24	Thu 4/7/24	866																				
	Installation of hand railings	7 days	Fri 5/7/24	Thu 11/7/24	869																				
	Slope Works at Feature No. 11NE-D/FR657 (63m)	169 days	Thu 25/1/24	Thu 11/7/24																					
	Filling of void with cement soil	7 days	Fri 5/7/24	Thu 11/7/24	869																				
	Repainting of handrailing	140 days	Thu 25/1/24	Wed 12/6/24																					
	Slope Works at Feature No. 11NE-D/C1006 (60m)	57 days	Thu 1/2/24	Thu 28/3/24																					
	Construction of concrete berm (~30m)	28 days	Thu 1/2/24	Wed 28/2/24	075	_																			
_	Installation of hand railings (~30m)	14 days	Thu 29/2/24	Wed 13/3/24	875	_																			
	Repainting of handrailing Slope Works at Feature No. 11NE-D/C980 (55m)	14 days	Thu 14/3/24 Thu 29/2/24	Wed 27/3/24 Tue 11/6/24	0/0	-																			
	Construction of concrete berm	104 days	Thu 29/2/24	Wed 13/3/24	875	-																			
	Installation of hand railings	14 days 7 days	Thu 14/3/24	Wed 13/3/24 Wed 20/3/24	879	-																			
_	Repainting of handrailing	90 days	Thu 14/3/24	Tue 11/6/24	019	-																			
	Slope Works at Feature No. 11NE-D/C174 (70m)	14 days	Thu 14/3/24	Wed 27/3/24		-																			
	Reinstatement of sprayed concrete	14 days	Thu 14/3/24	Wed 27/3/24	879	-																			
	Slope Works at Feature No. 11NE-D/C688 (167m)	28 days	Wed 31/1/24	Tue 27/2/24		-																			
_	Construction of tree rings x9	28 days	Wed 31/1/24	Tue 27/2/24																					
-	Reinstatement of sprayed concrete	7 days	Thu 17/8/23	Wed 23/8/23		1																			
	Slope Works at Feature No. 11NE-D/C978 (350m)	1349 days	Fri 30/7/21	Tue 8/4/25																					
	Construction of concrete berm	8 days	Fri 30/7/21	Fri 6/8/21																					
_	Installation of hand railings	8 days	Fri 30/7/21	Fri 6/8/21																					
	Repairing of existing steel maintenance staircase	8 days	Tue 1/4/25	Tue 8/4/25																					
	Slope Works at Feature No. 11NE-D/C1004 (375m)	7 days	Tue 1/4/25	Mon 7/4/25																					
	Repainting of handrailing	7 days	Tue 1/4/25	Mon 7/4/25																					
	Slope Works at Feature No. 11NE-D/C998 (409m)	760 days	Mon 14/2/22	Thu 14/3/24																					
	Construction of concrete maintenance staircase	19 days	Mon 14/2/22	Fri 4/3/22																					
	Handrailing	14 days	Fri 1/3/24	Thu 14/3/24																					
	Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works	1870 days?	Fri 30/7/21	Fri 23/10/26																					
_	Commencement of Establishment Work for Section 5A	0 days	Wed 14/5/25	Wed 14/5/25	809FF+1 day				_																
	Establishment Work Duration for Section 5A	365 days	Wed 14/5/25	Thu 4/6/26	897SS-1 day				14/5																
	Completion of Works in Section 5A	0 days	Thu 4/6/26	Thu 4/6/26	898																				
	Section of Works 5B - Portion 11	954 days	Sun 27/2/22	Mon 7/10/24																					
	Portion 11	954 days	Sun 27/2/22	Mon 7/10/24																					
	Provision of site access [212 days after starting date as per Con	tr0 days	Sun 27/2/22	Sun 27/2/22		-																			
	Portion 9 delay (Handover site to other Contractor)	231.47 days	Tue 14/3/23	Sat 31/8/24																					
	Provision of site access and stockpile area for works at Portion	9 1 day	Mon 7/10/24	Mon 7/10/24	903																				
	Section of Works 6 - Portion 7	494 days	Tue 29/11/22	Fri 5/4/24																					
	Portion 7	494 days	Tue 29/11/22	Fri 5/4/24																					
	Access date [487 days after starting date as per Contract]	0 days	Tue 29/11/22	Tue 29/11/22	112SS																				
	Deferred possession (PMI 58)	90 days	Tue 29/11/22	Sun 26/2/23	907		lí																		
	Provision of site access	7 days	Mon 27/2/23	Sun 5/3/23	908	-																			
	Mobilization& Site Clearance	60 days	Mon 6/3/23	Thu 4/5/23	909																				
_	Time Risk Allowance	15 days	Fri 5/5/23	Fri 19/5/23	910																				
	Excavation/backfilling and compaction of material	30 days	Fri 1/12/23	Sat 30/12/23	910,911																				
	Construction of U-channels with cover and catchpits	30 days	Sun 31/12/23	Mon 29/1/24	912																				
	Road Paving work and associates street furniture	15 days	Tue 19/3/24	Fri 5/4/24																					
	Soft landscaping works	10 days	Wed 20/3/24	Fri 29/3/24																					
	Irrigation system	196 days	Sat 16/9/23 Sat 16/9/23	Fri 29/3/24 Mon 30/10/23		_																			
	Contractor's design Approval of WWO542	45 days	Wed 1/11/23	Thu 30/11/23	917		1																		
	Approval of WW0342 Approval of Form WW0 046	30 days 21 days	Fri 1/12/23	Thu 30/11/23 Thu 21/12/23	917																				
	Underground water supply for irrigation	10 days	Fri 22/12/23	Sun 31/12/23	919																				
	Irrigation system	10 days 10 days	Fri 1/3/24	Sun 31/12/23 Sun 10/3/24	010																				
	Modification of Manhole and catchpits	12 days	Mon 18/3/24	Fri 29/3/24																					
	-	858 days	Tue 29/11/22	Fri 4/4/25																					
	Softworks in Section 6 of the Works																								
	Commencement of Establishment Work for Section 6	0 days	Tue 29/11/22	Tue 29/11/22																					
	Completion of Works in Section 6	0 days	Fri 5/4/24	Fri 5/4/24	924	_																			
	Establishment Work Duration for Section 6	365 days	Fri 5/4/24	Fri 4/4/25	925	_																			
	Section of Works 7A - Portions 13a, 14 (DELETED)	479 days	Fri 30/7/21	Sun 20/11/22																					

D Task I	Name	Duration	Start	Finish	Predecessors			May 20	025				June 2025				July 2025		
					Fiedecessols	27/4	4/5	11/5	18/5	25/5	1/6	8/6	15/6	22/6	29/6	6/7	13/7	20/7	27/
1	Section of Works 7AI - Establishment Works for all Landscape Softworks in Section 7A of the Works (DELETED)	365 days	Fri 30/7/21	Fri 29/7/22															
52	Commencement of Establishment Work for Section 7A	0 days	Fri 30/7/21	Fri 30/7/21															
53	Establishment Work Duration for Section 7A	365 days	Fri 30/7/21	Fri 29/7/22															
54	Completion of Works in Section 7A	0 days	Fri 29/7/22	Fri 29/7/22	953														
55	Section of Works 7B - Portions 13b, 15	1295 days	Sat 26/2/22	Fri 12/9/25		_													
956	Portion 13b & 15	1295 days	Sat 26/2/22	Fri 12/9/25	125														
957	Provision of site access [212 days after starting date as per Cor	-	Sun 27/2/22	Sat 5/3/22 Mon 18/4/22	135 135SS	_													
958 959	Deferred possession Mobilization& Site Clearance	52 days 21 days	Sat 26/2/22 Tue 19/4/22	Mon 18/4/22 Mon 9/5/22	958	_													
959 960	Time Risk Allowance	15 days	Tue 19/4/22	Tue 24/5/22	959,365														
961	Portion 13b	1207 days	Wed 25/5/22	Fri 12/9/25	960														
962	Elevated walkway	1207 days	Wed 25/5/22	Tue 10/6/25	300	_													
963	Modification of existing retaining wall RWA10 (PMI 033)	60 days	Wed 25/5/22	Sat 23/7/22	959,365	_													
964	Modification of existing retaining wall RWA9 & 10	447 days	Sun 24/7/22	Fri 13/10/23	959,365,960,963	_													
965	Wall RWA10	447 days	Sun 24/7/22	Fri 13/10/23		_													
966	Excavation	100 days	Sun 24/7/22	Mon 31/10/22	963	-													
967	Cutting away existing coping by wire sawing machi		Tue 1/11/22	Sat 14/1/23	966														
968	Hacking away existing wall stem by hydraulic	45 days	Sun 15/1/23	Tue 28/2/23	967														
	breaker (existing vertical bar to be retained for		Mar. 47/2/00	T 40/40/00	000														
969	Construction of new RC wall stem	86 days	Mon 17/7/23	Tue 10/10/23	968														
970	Backfilling Wall RWA9	4 days	Tue 10/10/23 Thu 16/3/23	Fri 13/10/23 Sun 27/8/23		_													
971	Excavation	165 days		Thu 30/3/23	968FS+15 days	_													
972	Hacking away existing wall stem by hydraulic	15 days	Thu 16/3/23 Fri 31/3/23	Mon 29/5/23	900FS+15 days	_													
973	breaker (existing vertical bar to be retained for	60 days	FII 31/3/23	W011 29/5/25	972														
974	Construction of new RC wall stem	75 days	Sat 10/6/23	Wed 23/8/23	973														
975	Backfilling	4 days	Thu 24/8/23	Sun 27/8/23	974														
976	Bearing	252 days	Thu 16/3/23	Wed 22/11/23															
977	Material submission for appproval	30 days	Thu 16/3/23	Fri 14/4/23															
978	Fabrication	106 days	Sat 15/4/23	Sat 29/7/23	977														
979	Testing	29 days	Sun 30/7/23	Sun 27/8/23	978														
980	Installation	7 days	Wed 1/11/23	Tue 7/11/23	979,970,975														
981	Grouting to bearing bases and curing	15 days	Wed 8/11/23	Wed 22/11/23	980														
982	Precast beams	536 days	Wed 7/6/23	Sat 23/11/24		_													
983	Submission for approval	78 days	Wed 7/6/23	Wed 23/8/23															
984	Fabrication	58 days	Wed 4/10/23	Thu 30/11/23	983														
985	Post-tensioning and grouting	59 days	Tue 31/10/23	Thu 28/12/23 Sun 31/12/23	984FS-31 days														
986 987	Capping ends Installation	3 days	Fri 29/12/23 Mon 15/1/24	Wed 24/1/24	985 986,981	_													
	Grouting to bearing tops and curing	10 days 15 days	Thu 25/1/24	Thu 8/2/24	987	_													
988 989	Fabrication of permanent formwork	30 days	Fri 1/3/24	Sat 30/3/24	501														
999	Installation of permanent formwork (stage 1)	31 days	Sun 31/3/24	Tue 30/4/24	989	_													
990 991	Casting of in-situ tie beams & slab (Stage 1)	15 days	Wed 1/5/24	Wed 15/5/24	990														
992	Removal of Formwork (Stage 1)	7 days	Thu 16/5/24	Wed 13/3/24 Wed 22/5/24	991														
993	Edge beam painting suspended due to inclement weathe		Wed 19/6/24	Fri 21/6/24	992														
994	Edge beam painting (Stage 1)	3 days	Sat 22/6/24	Mon 24/6/24	993														
995	Stage 2 TTA & Falsework	13 days	Fri 19/7/24	Wed 31/7/24	994														
996	Installation of permanent formwork (stage 2)	21 days	Thu 1/8/24	Wed 21/8/24	995														
997	Casting of in-situ tie beams & slab (Stage 2)	28 days	Thu 1/8/24	Wed 28/8/24	995														
998	Removal of Formwork (Stage 2)	4 days	Thu 29/8/24	Sun 1/9/24	997														
999	Edge beam painting (Stage 2)	3 days	Mon 23/9/24	Wed 25/9/24															
000	Removal of Falsework and TTA	6 days	Wed 25/9/24	Mon 30/9/24															
001	U-channels	21 days	Mon 24/2/25	Sun 16/3/25															
002	movement joint	7 days	Mon 17/3/25	Sun 23/3/25	1001														
003	Planters design submission	64 days	Mon 7/10/24	Mon 9/12/24															
004	Planters construction	45 days	Mon 17/2/25	Wed 2/4/25															
005	Coping Design	30 days	Mon 10/2/25	Tue 11/3/25															
006	Coping fabrication	28 days	Wed 12/3/25	Tue 8/4/25	1005														
007	Finsihing on planters	21 days	Wed 9/4/25	Tue 29/4/25	1006	29/4													
008	soft lanscape	7 days	Wed 30/4/25	Tue 6/5/25	1007	30/4 📥													
009	Paving	21 days	Wed 7/5/25	Tue 27/5/25	1008		7/5 🎽			27/5									
010	Railing	14 days	Wed 28/5/25	Tue 10/6/25	1009					28/5		10/6							1

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	ask Name	Duration	Start	Finish	Predecessors	27	/4	4/5	5	N 11/	lay 2025 /5	5 18/5	5	25/5	5	1/6	8/6	June	2025 15/6	22/6
011	Portion 14 Demolition of Existing u-channel	253 days	Mon 9/12/24 Mon 9/12/24	Mon 18/8/25 Tue 31/12/24		_														
012	Construction of storm manhole and catchpit	14 days 97 days	Mon 9/12/24	Sat 15/3/25		-														
014	Construction of u-channel	14 days	Mon 6/1/25	Thu 27/3/25	1013	-														
015	Installation of cable drawpit	7 days	Tue 15/7/25	Mon 21/7/25	1027	-														
016	Installation of Lamp post footing	7 days	Tue 22/7/25	Mon 28/7/25	1015	-														
017	Erection of Lamp post	7 days	Tue 29/7/25	Mon 4/8/25	1016	-														
018	Irrigation	7 days	Tue 29/7/25	Mon 4/8/25	1016															
019	Paving blocks	14 days	Tue 5/8/25	Mon 18/8/25	1018															
020	Covered Walkway under PMQP 004	709 days	Thu 5/10/23	Fri 12/9/25													 			
021	Awaiting finished level from PM due to interfacing party	138 days	Thu 5/10/23	Mon 19/2/24																
022	Contractor Design	213 days	Thu 12/9/24	Sat 12/4/25		_														
023	Submission	178 days	Thu 12/9/24	Sat 8/3/25 Sat 12/4/25	1023	_														
024 025	Approval Construction	14 days	Sun 30/3/25 Sun 13/4/25	Mon 14/7/25	1023															
025	Footing	93 days 30 days	Sun 13/4/25 Sun 13/4/25	Mon 12/5/25	1024	_				12	/5						 			
020	Superstructure	30 days	Sun 15/6/25	Mon 12/3/25	1062	-					/5						15	5/6 🚃		
027	Lighting system	187 days	Mon 10/3/25	Fri 12/9/25	1026SS												 	<i>"</i>		
020	Design Submission	30 days	Mon 10/3/25	Tue 8/4/25	102000	-														
030	Approval	30 days	Wed 9/4/25	Thu 8/5/25	1029				8/5											
031	Installation of Lighting	30 days	Tue 15/7/25	Wed 13/8/25	1027	-														
032	Energization	15 days	Thu 14/8/25	Thu 28/8/25	1031,1017,1027															
033	Testing and Commissioning	15 days	Fri 29/8/25	Fri 12/9/25	1032	-														
034	Additional works under PMQP 004	1007 days	Mon 24/10/22	Sat 26/7/25													 			
035	Issuance of PMQP 004	0 days	Mon 24/10/22	Mon 24/10/22																
036	Hoarding and gate around Site G2	153 days	Wed 1/3/23	Mon 31/7/23	1035															
037	Greywater drainage pipes and manholes at Portion 12	60 days	Thu 1/2/24	Sun 31/3/24																
038		1007 days	Mon 24/10/22	Sat 26/7/25													 			
039	Late handover of site by others	195 days	Mon 24/10/22	Sat 6/5/23	1035SS	_														
040	Installation of monitoring instruments	14 days	Sun 17/12/23	Sat 30/12/23	1039	_														
041	Slope B3 Works area handed over by others	512 days 46 days	Fri 1/3/24 Fri 1/3/24	Fri 25/7/25 Mon 15/4/24	1040	_											 			
042	Confirmation of Slope Profiles	38 days	Sat 27/7/24	Mon 2/9/24	1042	-														
043	Preparation of Slope details	69 days	Fri 24/5/24	Wed 31/7/24	1043	-														
045	Form slope formation	18 days	Mon 2/9/24	Thu 19/9/24	1044	-														
046	Construction of sub-soil & laying filter layer	28 days	Fri 20/9/24	Thu 17/10/24	1045	-														
047	Construction of no fine concrete for sub-soil	7 days	Fri 18/10/24	Thu 24/10/24	1046															
048	Backfill & compacted soil & SRT (1-4 layers)	57 days	Mon 2/12/24	Mon 27/1/25	1047	-														
049	Backfill & compacted soil & SRT (5-37 layers)	124 days	Mon 24/3/25	Fri 25/7/25	1047															
050	Construction of concrrete berm/ handrails	14 days	Tue 28/1/25	Mon 10/2/25	1048															
051	Construction of surface drain	14 days	Tue 11/2/25	Mon 24/2/25	1050															
052	Soil mix	14 days	Tue 25/2/25	Mon 10/3/25	1051															
053	Planting	14 days	Tue 17/12/24	Mon 30/12/24																
054	Slope B4	572 days	Tue 2/1/24	Sat 26/7/25		_												-		
055 056	Preparation of Slope details Form slope formation	23 days 17 days	Tue 2/1/24 Tue 20/2/24	Wed 24/1/24 Thu 7/3/24		_														
056	Construction of sub-soil & laying filter layer	9 days	Tue 20/2/24	Wed 28/2/24		-														
058	Construction of no fine concrete for sub-soil	9 days 9 days	Tue 20/2/24	Wed 28/2/24 Wed 28/2/24		-														
059	Backfill & compacted soil & SRT (4 layers)	49 days	Fri 1/3/24	Thu 18/4/24		-														
060	Inclement weather	156 days	Fri 19/4/24	Sat 21/9/24	1059	-														
061	Backfill & compacted soil & SRT (5-9 layers)	90 days	Mon 28/10/24	Sat 25/1/25	1060	-														
062	Backfill & compacted soil & SRT (10-29 layers) -rest	u 80 days	Thu 27/3/25	Sat 14/6/25	1060													<u> </u>	14/6	
063	Construction of concrrete berm/ handrails	14 days	Sun 15/6/25	Sat 28/6/25	1062	-											15	5/6 📩		
064	Construction of surface drain	14 days	Sun 29/6/25	Sat 12/7/25	1063															29/6
065	Soil mix	14 days	Sun 13/7/25	Sat 26/7/25	1064															
066	Planting	14 days	Sun 13/7/25	Sat 26/7/25	1064															
067	Revised access road including roundabout, drainage, sewerage and water mains	998 days	Mon 14/11/22	Thu 7/8/25													 			
068	Drainage	184 days	Wed 1/3/23	Thu 31/8/23		1														
069	manholes connection for drainage	184 days	Wed 1/3/23	Thu 31/8/23																
070	sewerage (Stage 1)	184 days	Wed 1/3/23	Thu 31/8/23																
071	sewerage (Stage 2 -connect to G2-B4)	30 days	Mon 13/1/25	Tue 11/2/25																



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ID	Task Name	Duration	Start	Finish	Predecessors	27/4		4/5	5		May 202 1/5	25 18	8/5	25/5	;	1/6		8/6	June 202	25 15/6	22/6	6
1072	Concrete pavement at roundabout (Stage 1)	61 days	Thu 1/6/23	Mon 31/7/23																		
1073	footpath	998 days	Mon 14/11/22	Thu 7/8/25																		
1074	Implementation of TTA	1 day	Mon 12/12/22	Mon 12/12/22	1035																	
1075	UU detection	7 days	Tue 13/12/22	Mon 19/12/22	1074																	
1076	Trial pit	14 days	Tue 20/12/22	Mon 2/1/23	1075																	
1077	HYD condition letter and WSD's approval	60 days	Mon 8/7/24	Mon 30/9/24																		
1078		67 days	Fri 29/9/23	Mon 4/12/23	1077	_																
1079	TTA design review and revise	50 days	Tue 5/12/23	Tue 23/1/24	1078	_																
1080	Implementation of TTA	1 day	Wed 24/1/24	Wed 24/1/24	1079	_																
1081	UU detection	3 days	Thu 25/1/24	Sat 27/1/24	1080																	
1082	Trial pit	7 days	Sun 28/1/24	Sat 3/2/24	1081																	
1083	Completion of handover of existing watermain to WSD, subject to C1(Since commencement of G2)	0 days	Fri 1/3/24	Fri 1/3/24	1082																	
1084	G-2 Interface issue	199 days	Sat 2/3/24	Mon 16/9/24	1083																	
1085	Watermain along new footpath at Slope B4	45 days	Mon 24/3/25	Wed 7/5/25					7/5													
1086	UU protection, relocation of hydrant	30 days	Mon 23/12/24	Tue 21/1/25																		
1087	Cable for relocation of lamp post	27 days	Mon 17/3/25	Sat 12/4/25	1071																	
1088	Relocation of Lamp post	14 days	Sun 13/4/25	Sat 26/4/25	1087	26/4																
1089 1090		60 days 30 days	Mon 25/11/24 Mon 21/4/25	Thu 23/1/25 Tue 20/5/25									20/5									
1091	(Telecom ,CLP, gas) Installation of site UU lead in (by others) - Stage 3 (CLF	30 dave	Wed 9/7/25	Thu 7/8/25	1122																	
1091	New Lamp Post (Highways)	14 days	Wed 3/7/25 Wed 21/5/25	Tue 3/6/25	1090	_						21/5	-			3/6						
1092	paving	14 days	Wed 2//3/25	Tue 17/6/25	1092							21/5 🔤				4/6				17/6		
1095	Park Lighting system (DOS)	971 days	Mon 14/11/22	Fri 11/7/25	1032		ļ									+/V				11/0		
1094	Application for electricity power supply	421 days	Mon 14/11/22	Mon 8/1/24	619SS																	
1096	Design Change of Layout (PMI-085)	1 day	Mon 8/1/24	Mon 8/1/24	620SS																	
1097	Park Lighting Design	612 days	Mon 14/11/22	Wed 17/7/24	621SS																	
1098	LCSD's approval of lighting system	30 days	Thu 18/7/24	Fri 16/8/24	622SS																	
1099	Installation including ducting and draw pit	30 days	Mon 21/4/25	Tue 20/5/25	1098,1004								20/5									
1100	Installation of lighting	30 days	Wed 21/5/25	Thu 19/6/25	1099	_						21/5								19/	6	
1101	Energization	15 days	Fri 20/6/25	Fri 4/7/25	1100														2	20/6		
1102	Testing and Commissioning	7 days	Sat 5/7/25	Fri 11/7/25	1101																	
1103	Portion 15- Sewerage Works	356 days	Mon 3/6/24	Sat 24/5/25										•								
1104	Pipe pile wall	356 days	Mon 3/6/24	Sat 24/5/25										•								
1105	Temp Work re-design due to unforeseen ground condition	141 days	Mon 3/6/24	Mon 21/10/24																		
1106	Implementation of TTA	2 days	Mon 21/10/24	Tue 22/10/24 Wed 23/10/24	1100																	
1107 1108	UU Detection Trial pit	1 day 7 days	Wed 23/10/24 Thu 24/10/24	Wed 23/10/24 Wed 30/10/24	1106																	
1108	Pipe Plie Installation	14 days	Sun 3/11/24	Sat 16/11/24	1108																	
11109	Excavation	56 days	Sun 3/11/24 Sun 17/11/24	Sat 10/11/24 Sat 11/1/25	1109																	
1111	Sewerage manhole (G2-B4) and HDPE pipe	45 days	Mon 24/3/25	Wed 7/5/25	1110	_			7/5													
1112	Backfill	40 days 10 days	Thu 8/5/25	Sat 17/5/25	1111	-		8/5				17/5										
1112	roadwork reinstatement	7 days	Sun 18/5/25	Sat 11/5/25	1112			0/0			18/5			24/5								
1114	Watermain pipe works (uphill of On Kin Road)	9 days	Thu 8/5/25	Fri 16/5/25	1085			8/5	Ļ		10/3											
1115	Watermain downhill of On Kin Road	45 days	Sun 25/5/25	Tue 8/7/25																		
1116	Implementation of TTA	2 days	Sun 25/5/25	Mon 26/5/25	1113								25/5	26/	5							
1117	UU Detection	1 day	Tue 27/5/25	Tue 27/5/25	1116									7/5 🎽 2								
1118	Trial pit	7 days	Wed 28/5/25	Tue 3/6/25	1117									28/5		3/6						
1119	Watermain pipe works	14 days	Wed 4/6/25	Tue 17/6/25	1118											4/6				17/6		
1120	WSD connection	7 days	Wed 18/6/25	Tue 24/6/25	1119														18/6	·	2 /	24/6
1121	Backfill	7 days	Wed 25/6/25	Tue 1/7/25	1120																25/6 🃩	
1122	roadwork reinstatement	7 days	Wed 2/7/25	Tue 8/7/25	1121																	
1123	Irrigation system	699 days	Fri 19/5/23	Wed 16/4/25																		
1124	Contractor's design	76 days	Fri 19/5/23	Wed 2/8/23																		
1125	Approval of WWO542	30 days	Thu 3/8/23	Fri 1/9/23	1124																	
1126	Approval of Form WWO 046	21 days	Sat 2/9/23	Fri 22/9/23	1125																	
1127	Underground water supply for irrigation	60 days	Sat 23/9/23	Tue 21/11/23																		
1128	Irrigation system	45 days	Mon 3/3/25	Wed 16/4/25																		
1129	Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works	1870 days?	Fri 30/7/21	Fri 23/10/26																		
1130	Commencement of Establishment Work for Section 7B	0 days	Fri 12/9/25	Fri 12/9/25	961																	
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32 Completion of Works in 33 Section of Works 8 - I 34 Portion 16 35 Site access date 36 Time Risk Allowa 37 Late handover of 38 Mobilization& Site 39 Removal of exist 40 Construction of ff 41 Construction of site 42 Construction of site 43 Hydroseeding 44 Chain link fence 45 Thrust boring of a 46 Section of Works 8 - I 47 Commencement of 48 Establishment Work 49 Completion of Works 9 - I 50 Section of Works 9 - I 51 Portion 17 52 Provision of site 53 Deferred posses 54 Slope inspection 55 Mobilization, acc 56 Time Risk Allowa 57 Access blocked I 58 Demolition and r 59 Repair of cracks 60 Reinstatement of			-				-						-							
132 Completion of Works in 133 Section of Works 8 - 1 134 Portion 16 135 Site access date 136 Time Risk Allowa 137 Late handover of 138 Mobilization& Site 140 Construction of fil 141 Construction of site 142 Construction of site 143 Hydroseeding 144 Chain link fence 145 Thrust boring of a 146 Section of Works 8 - 1 147 Commencement of 148 Establishment Work 150 Section of Works 9 - 1 151 Portion 17 152 Provision of site a 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowa 157 Access blocked 1 158 Demolition and re 159 Repair of cracks 160 Reinstatement of 161 Installation of dis 162 Reins		Duration	Start	Finish	Predecessors	27/4	4/5	lay 2025 ′5	18/5	25/5	1/6	Ju 8/6	ine 2025 15/6	22/6	6	29/6	6/7	July 2025 13/7	20/7	
133 Section of Works 8 - I 134 Portion 16 135 Site access date 136 Time Risk Allowa 137 Late handover of 138 Mobilization& Siti 139 Removal of exist 140 Construction of fi 141 Construction of site 142 Construction of site 143 Hydroseeding 144 Chain link fence 145 Thrust boring of a 146 Section of Works 8A Softworks in Section Mokiization, acc 147 Commencement of 148 Establishment Work 150 Section of Works 9A - I 151 Portion 17 152 Provision of site - I 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowa 157 Access blocked 1 158 Demolition and ru 159 Repair of cracks	hment Work Duration for Section 7B	365 days	Fri 12/9/25	Fri 23/10/26	1130SS-1 day															
134 Portion 16 135 Site access date 136 Time Risk Allower 137 Late handover of 138 Mobilization& Sit 139 Removal of exist 140 Construction of fi 141 Construction of si 142 Construction of si 143 Hydroseeding 144 Chain link fence 145 Thrust boring of a 146 Section of Works 8A - Softworks in Section Softworks in Section 147 Commencement of 148 Establishment Work 150 Section of Works 9 - I 151 Portion 17 152 Provision of site - 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowa 157 Access blocked 1 158 Demolition and rn 159 Repair of cracks 160 Reinstatement of	tion of Works in Section 7B	0 days	Fri 23/10/26	Fri 23/10/26	1131															
135Site access date136Time Risk Allower137Late handover of138Mobilization& Sit139Removal of exist140Construction of fi141Construction of si143Hydroseeding144Chain link fence145Thrust boring of a146Section of Works 8A150Section of Works 9 - I151Portion 17152Provision of site a153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allower157Access blocked b158Demolition and re159Repair of cracks160Reinstatement of j161Installation of dis162Repair of cracks at163Slope Works at164Construction of a165Repain of cracks at166Construction of at173Installation of at174Construction of at175Slope Works at176Construction of at177Construction of at178Installation of at179Construction of at174Construction of at175Slope Works at176Construction of at177Construction of at178Installation of at179Construction of at180Slope Works at181Filling of void182C	of Works 8 - Portion 16	556 days	Thu 16/6/22	Sat 23/12/23																
136 Time Risk Allower 137 Late handover of 138 Mobilization& Sit 139 Removal of exist 140 Construction of f 141 Construction of s 142 Construction of s 143 Hydroseeding 144 Chain link fence 145 Thrust boring of a 146 Section of Works BA 147 Commencement of 148 Establishment Work 150 Section of Works 9 - I 151 Portion 17 152 Provision of site 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allower 157 Access blocked I 158 Demolition and re 159 Repair of cracks 160 Reinstatement of 161 Installation of dis 162 Reinstatement of 163 Slope Works at 164 Construction of 165 Repaining of <td></td> <td>556 days</td> <td>Thu 16/6/22</td> <td>Sat 23/12/23</td> <td>15100</td> <td>_</td> <td></td>		556 days	Thu 16/6/22	Sat 23/12/23	15100	_														
137Late handover of138Mobilization& Sit139Removal of exist140Construction of f141Construction of s142Construction of s143Hydroseeding144Chain link fence145Thrust boring of a146Section of Works 8A147Completion of Works 9A148Establishment Work150Section of Works 9 - I151Portion 17152Provision of site153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked I158Demolition and rd159Repair of cracks160Reinstatement of161Installation of dis162Repair of cracks163Slope Works at164Construction of170Construction of171Slope Works at172Construction of173Installation of a174Construction of175Slope Works at176Construction of177Slope Works at178Installation of179Construction of181Filling of void182Construction of183Installation of	ite access date [321 days after starting date as per Contra		Thu 16/6/22	Thu 16/6/22	151SS															
138Mobilization&Sit139Removal of exist140Construction of f141Construction of s142Construction of s143Hydroseeding144Chain link fence145Thrust boring of146Section of Works 8A147Commencement of148Establishment Work150Section of Works 9A151Portion 17152Provision of site153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked 1158Demolition and rd159Repair of cracks160Reinstatement of161Installation of dis162Repair of cracks163Slope Works at164Construction of170Construction of171Slope Works at172Construction of173Installation of of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of183Installation of		24 days	Thu 16/6/22	Sat 9/7/22	1135 1136	_														
139Removal of exist140Construction of fi141Construction of s142Construction of s143Hydroseeding144Chain link fence145Thrust boring of a146Section of Works 8A147Commencement of148Establishment Work149Completion of Works 9 - I151Portion 17152Provision of site a153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked I158Demolition and rd159Repair of cracks160Reinstatement of j161Installation of dis162Repair of cracks163Slope Works at164Construction of170Construction of171Slope Works at172Construction of173Installation of a174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of181Filling of void182Construction of183Installation of	ate handover of site by others	350 days	Thu 16/6/22 Thu 1/6/23	Wed 31/5/23 Sun 4/6/23	1136	_														
140Construction of fi141Construction of si142Construction of si143Hydroseeding144Chain link fence145Thrust boring of a146Section of Works 8ASoftworks in Section147Commencement of148Establishment Work149Completion of Works 9 - I151Portion 17152Provision of site153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked I158Demolition and registration161Installation of dis162Reinstatement of163Slope Works at164Construction of165Repaining of166Construction of170Construction of171Slope Works at172Construction of173Installation of dis174Construction of175Slope Works at176Construction of177Construction of178Installation of dis180Slope Works at181Filling of void182Construction of183Installation of void	emoval of existing rock slope	4 days 45 days	Mon 5/6/23	Wed 19/7/23	1137	_														
141Construction of fi142Construction of s143Hydroseeding144Chain link fence145Thrust boring of a146Section of Works 8ASoftworks in Section147Commencement of148Establishment Work149Completion of Works 9 - I151Portion 17152Provision of site153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked I158Demolition and re159Repair of cracks160Reinstatement of161Installation of dis162Repairing of163Slope Works at164Construction of170Construction of171Slope Works at172Construction of173Installation of dis174Construction of175Slope Works at176Construction of177Construction of178Installation of dis181Filling of void182Construction of183Installation of void	· · ·	90 days	Thu 20/7/23	Tue 17/10/23	1139	-														
142Construction of s143Hydroseeding144Chain link fence145Thrust boring of a146Section of Works 8ASoftworks in Section147Commencement of148Establishment Work149Completion of Works 9 - I151Portion 17152Provision of site153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked I158Demolition and re159Repair of cracks160Reinstatement of161Installation of dis162Repairing of163Slope Works at164Construction of165Repaining of166Construction of170Construction of171Slope Works at172Construction of173Installation of dis174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of181Filling of void182Construction of	construction of fill slope A8	80 days	Sun 30/7/23	Tue 17/10/23	1140FF	-														
143Hydroseeding144Chain link fence145Thrust boring of J146Section of Works 8A147Commencement of148Establishment Work149Completion of Works 9 - I150Section of Works 9 - I151Portion 17152Provision of site J153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked I158Demolition and re159Repair of cracks160Reinstatement of161Installation of dis162Repaining of163Slope Works at164Construction of165Repaining of166Construction of170Construction of171Slope Works at172Construction of173Installation of at174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of	onstruction of slope surface drainage system	45 days	Wed 18/10/23	Fri 1/12/23	1140	-														
144 Chain link fence 145 Thrust boring of a 146 Section of Works 8A - Softworks in Section 147 Commencement of 148 Establishment Work 149 Completion of Works 9 - I 150 Section of Works 9 - I 151 Portion 17 152 Provision of site 1 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowe 157 Access blocked 1 158 Demolition and re 159 Repair of cracks 160 Reinstatement of j 161 Installation of distable 162 Reinstatement of j 163 Slope Works at 164 Construction of 165 Repaining of 166 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175		22 days	Sat 2/12/23	Sat 23/12/23	1142	-														
145Thrust boring of a Softworks in Section146Section of Works 8A Softworks in Section147Commencement of 148148Establishment Work149Completion of Works 9 - I150Section of Works 9 - I151Portion 17152Provision of site153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowa157Access blocked I158Demolition and re159Repair of cracks160Reinstatement of161Installation of gits162Repaining of163Slope Works at164Construction of165Repaining of166Construction of170Construction of171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of		30 days	Fri 24/11/23	Sat 23/12/23	1142FF	-														
146 Section of Works 8A - Softworks in Section 147 Commencement of 148 Establishment Work 149 Completion of Works 9 - I 150 Section of Works 9 - I 151 Portion 17 152 Provision of site 1 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowa 157 Access blocked I 158 Demolition and re 159 Repair of cracks 160 Reinstatemnt of j 161 Installation of J 162 Repaining of 163 Slope Works at 164 Construction of 165 Repaining of 166 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of	hrust boring of additional pipe from S201D to MHT1	78 days	Mon 2/10/23	Mon 18/12/23		-														
147Commencement of148Establishment Work149Completion of Works 9 - 1150Section of Works 9 - 1151Portion 17152Provision of site153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowa157Access blocked 1158Demolition and re159Repair of cracks160Reinstatement of161Installation of dis162Repair of cracks163Slope Works at164Construction of165Repainting of166Construction of170Construction of171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of	of Works 8A - Establishment Works for all Landscap	e 365 days	Fri 27/9/24	Fri 26/9/25		-														
148Establishment Work149Completion of Works 9 - 1150Section of Works 9 - 1151Portion 17152Provision of site 1153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked 1158Demolition and re159Repair of cracks160Reinstatement of j161Installation of dis162Reinstatement of j163Slope Works at164Construction of165Repainting of166Construction of170Construction of171Slope Works at172Construction of173Installation of of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void183Installation of	rks in Section 8 of the Works	0 days			114900	_														
149Completion of Work150Section of Works 9 - I151Portion 17152Provision of site 1153Deferred posses154Slope inspection155Mobilization, acc156Time Risk Allowe157Access blocked I158Demolition and re159Repair of cracks160Reinstatement of161Installation of dis162Reinstatement of163Slope Works at164Construction of165Repaining of166Construction of170Construction of171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void183Installation of	mencement of Establishment Work for Section 8	0 days	Fri 27/9/24	Fri 27/9/24	1148SS			 				 								
Section of Works 9 - I 151 Portion 17 152 Provision of site 1 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowe 157 Access blocked I 158 Demolition and r 159 Repair of cracks 160 Reinstatemnt of j 161 Installation of dis 162 Reinstatement of j 163 Slope Works at 164 Construction of 165 Repainting of 166 Construction of 167 Slope Works at 168 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of <	blishment Work Duration for Section 8	365 days 0 days	Fri 27/9/24 Fri 26/9/25	Fri 26/9/25 Fri 26/9/25	1143 1148FF	-														
Portion 17 152 Provision of site : 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowa 157 Access blocked I 158 Demolition and r 159 Repair of cracks 160 Reinstatement of j 161 Installation of dis 162 Reinstatement of j 163 Slope Works at 166 Construction of 167 Slope Works at 168 Construction of 169 Installation of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of 178 Installation of	•	1371 days	Fri 30/7/21	Wed 30/4/25																
152 Provision of site. 153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowa 157 Access blocked I 158 Demolition and r 159 Repair of cracks 160 Reinstatement of 161 Installation of dis 162 Reinstatement of 163 Slope Works at 164 Construction of 165 Repaining of 166 Construction of 167 Slope Works at 168 Construction of 169 Installation of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of		1371 days	Fri 30/7/21	Wed 30/4/25																
153 Deferred posses 154 Slope inspection 155 Mobilization, acc 156 Time Risk Allowe 157 Access blocked I 158 Demolition and re 159 Repair of cracks 160 Reinstatement of j 161 Installation of dis 162 Reinstatement of j 163 Slope Works at 166 Construction of 167 Slope Works at 168 Construction of 167 Slope Works at 168 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of 18	rovision of site access [212 days after starting date as per	-	Sun 27/2/22	Sun 27/2/22	162SS	-														
154Slope inspection155Mobilization, acc156Time Risk Allowa157Access blocked I158Demolition and r159Repair of cracks160Reinstatement of161Installation of dist162Reinstatement of163Slope Works at164Construction of165Repaining of166Construction of167Slope Works at168Construction of170Construction of171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void183Installation of		30 days	Sun 27/2/22	Mon 28/3/22	1152	_														
155Mobilization, acc156Time Risk Allowa157Access blocked I158Demolition and re159Repair of cracks160Reinstatemnt of j161Installation of access162Reinstatemnt of j163Slope Works at164Construction of165Repaining of166Construction of167Slope Works at168Construction of170Construction of171Slope Works at172Construction of173Installation of of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void183Installation of	lope inspection & assessment work & Tree Survey	23 days	Tue 29/3/22	Wed 20/4/22	1153	_														
156 Time Risk Allowa 157 Access blocked I 158 Demolition and re 159 Repair of cracks 160 Reinstatement of 161 Installation of dis 162 Reinstatement of 163 Slope Works at 164 Construction of 165 Repainting of 166 Construction of 167 Slope Works at 168 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of 183 Installation of	lobilization, access & Site Clearance	15 days	Thu 21/4/22	Thu 5/5/22	1154	_														
157 Access blocked I 158 Demolition and r 159 Repair of cracks 160 Reinstatemnt of 161 Installation of dis 162 Reinstatement of 163 Slope Works at 164 Construction of 165 Repaining of 166 Construction of 167 Slope Works at 168 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of	ime Risk Allowance	14 days	Fri 6/5/22	Thu 19/5/22	1154,1155	-														
158 Demolition and r 159 Repair of cracks 160 Reinstatement of 161 Installation of dis 162 Reinstatement of 163 Slope Works at 164 Construction of 165 Repaining of 166 Construction of 167 Slope Works at 168 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 183 Installation of	ccess blocked by C1 at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23																
159 Repair of cracks 160 Reinstatement of j 161 Installation of dis 162 Reinstatement of j 163 Slope Works at 164 Construction of 165 Repaining of 166 Construction of 167 Slope Works at 168 Construction of 170 Construction of 171 Slope Works at 172 Construction of 173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of	emolition and removal of disused water pipe and sprinkles	sy50 days	Fri 20/5/22	Fri 8/7/22	1156															
161Installation of dis162Reinstatement of (PMI 117)163Slope Works at164Construction of165Repainting of166Construction of167Slope Works at168Construction of169Installation of170Construction of171Slope Works at172Construction of173Installation of174Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void183Installation of	epair of cracks at drainage channel and concrete berm	777 days	Sat 14/1/23	Fri 28/2/25	1158															
162Reinstatement of (PMI 117)163Slope Works at (PMI 117)164Construction of (PMI 165)165Repainting of (PMI 166)166Construction of (PMI 167)167Slope Works at (PMI 168)168Construction of (PMI 170)170Construction of (PMI 171)171Slope Works at (PMI 172)173Installation of (PMI 173)174Construction of (PMI 173)175Slope Works at (PMI 174)176Construction of (PMI 177)177Construction of (PMI 178)178Installation of (PMI 179)180Slope Works at (PMI 181)181Filling of void (PMI 182)183Installation of (PMI 183)	einstatemnt of joint sealant at drainage channel	776 days	Sun 15/1/23	Fri 28/2/25																
(PMI 117) 1163 Slope Works at 1164 Construction of 1165 Repainting of 1166 Construction of 1167 Slope Works at 1168 Construction of 1169 Installation of 1170 Construction of 1171 Slope Works at 1172 Construction of 1173 Installation of 1174 Construction of 1175 Slope Works at 1176 Construction of 1177 Construction of 1178 Installation of 1179 Construction of 1180 Slope Works at 1181 Filling of void 1182 Construction of	stallation of display sign for slope registration	60 days	Tue 31/12/24	Fri 28/2/25																
163 Slope Works at 164 Construction 165 Repainting of 166 Construction 167 Slope Works at 168 Construction 169 Installation of 170 Construction 171 Slope Works at 172 Construction 173 Installation of 174 Construction 175 Slope Works at 176 Construction 177 Construction 178 Installation of 179 Construction 180 Slope Works at 181 Filling of void 182 Construction	einstatement of eroded soil berm due to inclement weathe	er 128 days	Thu 7/9/23	Fri 12/1/24																
1164 Construction of 1165 Repainting of 1166 Construction of 1167 Slope Works at 1168 Construction of 1169 Installation of 1170 Construction of 1171 Slope Works at 1172 Construction of 1173 Installation of 1174 Construction of 1175 Slope Works at 1176 Construction of 1177 Construction of 1178 Installation of 1179 Construction of 1178 Installation of 1179 Construction of 1180 Slope Works at 1181 Filling of void 1182 Construction of 1183 Installation of	lope Works at Feature No. 11NE-D/C948 (310m)	352 days	Sun 31/12/23	Mon 16/12/24		_														
1165 Repainting of 1166 Construction of 1167 Slope Works at 1168 Construction of 1169 Installation of 1170 Construction of 1171 Slope Works at 1172 Construction of 1173 Installation of 1174 Construction of 1175 Slope Works at 1176 Construction of 1177 Construction of 1178 Installation of 1179 Construction of 1180 Slope Works at 1181 Filling of void 1182 Construction of	Construction of concrete berm	14 days	Thu 25/7/24	Wed 7/8/24	1216															
I167 Slope Works at I168 Construction of I169 Installation of I170 Construction of I171 Slope Works at I172 Construction of I173 Installation of I173 Installation of I174 Construction of I175 Slope Works at I176 Construction of I177 Construction of I178 Installation of I179 Construction of I180 Slope Works at I181 Filling of void I182 Construction of	Repainting of existing steel maintenance staircase	7 days	Tue 10/12/24	Mon 16/12/24	1164															
168Construction of169Installation of170Construction of171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of	Construction of wire mesh	352 days	Sun 31/12/23	Mon 16/12/24	1157															
169Installation of170Construction of171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of	lope Works at Feature No. 11NE-D/C949 (603m)	1154 days	Fri 30/7/21	Wed 25/9/24																
170Construction of171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of	Construction of concrete berm	14 days	Fri 30/7/21	Thu 12/8/21																
171Slope Works at172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of	Installation of hand railings	7 days	Fri 13/8/21	Thu 19/8/21	1168															
172Construction of173Installation of174Construction of175Slope Works at176Construction of177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of	Construction of wire mesh	30 days	Tue 27/8/24	Wed 25/9/24	1166,1169															
173 Installation of 174 Construction of 175 Slope Works at 176 Construction of 177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of 183 Installation of	lope Works at Feature No. 11NE-D/C981 (390m)	1170 days	Fri 13/8/21	Fri 25/10/24																
174Construction (175Slope Works at176Construction (177Construction (178Installation of179Construction (180Slope Works at181Filling of void182Construction (183Installation of	Construction of concrete berm	14 days	Fri 13/8/21	Thu 26/8/21	1168															
175Slope Works at176Construction177Construction of178Installation of179Construction of180Slope Works at181Filling of void182Construction of183Installation of	Installation of hand railings	7 days	Fri 27/8/21	Thu 2/9/21	1172															
176 Construction of 177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of 183 Installation of	Construction of wire mesh	30 days	Thu 26/9/24	Fri 25/10/24	1170															
177 Construction of 178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of 183 Installation of	lope Works at Feature No. 11NE-B/C1013 (340m)	1186 days	Fri 27/8/21	Sun 24/11/24	1174															
178 Installation of 179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of 183 Installation of	Construction of wire mesh Construction of concrete berm	30 days	Sat 26/10/24 Fri 27/8/21	Sun 24/11/24 Thu 9/9/21	1174 1172															
179 Construction of 180 Slope Works at 181 Filling of void 182 Construction of 183 Installation of	Installation of hand railings	14 days 7 days	Fri 10/9/21	Thu 16/9/21	1172															
Slope Works at 181 Filling of void 182 Construction of 183 Installation of	Construction of concrete maintenance staircase with ha	-	Mon 19/2/24	Fri 22/3/24		_														
181 Filling of void 182 Construction 183 Installation of	lope Works at Feature No. 11NE-B/C902 (360m)	326 days	Wed 24/1/24	Sat 14/12/24																
182 Construction 183 Installation of	Filling of void with concrete	20 days	Mon 25/11/24	Sat 14/12/24																
183 Installation of	Construction of concrete berm	14 days	Wed 24/1/24	Tue 6/2/24																
184 Repainting of	Installation of hand railings	7 days	Wed 7/2/24	Tue 13/2/24																
10-1	Repainting of existing steel maintenance staircase	14 days	Thu 28/3/24	Wed 10/4/24																
	lope Works at Feature No. 11NE-B/C224 (40m)	14 days	Wed 16/10/24	Tue 29/10/24																
186 Reinstatemen	Reinstatement of sprayed concrete	14 days	Wed 16/10/24	Tue 29/10/24																
	lope Works at Feature No. 11NE-B/C225 (60m)	183 days	Wed 30/10/24	Wed 30/4/25																
	Reinstatement of sprayed concrete	14 days	Wed 30/10/24	Tue 12/11/24	1186															
	Reinstatement of damaged granite stone planter wall an	d 73 days	Mon 17/2/25	Wed 30/4/25		3	0/4													
granoite stone	granoite stone facing							 												
Task																				

					Developm	3 N	/Ionths Rolli	ng Program	me (May 2	2025 to Jul	y 2025)										
Task N	lame	Duration	Start	Finish	Predecessors	27/4	4/5	. N	/ay 2025 /5		25/5	1/6	Ju 8/6	une 2025 15/6	22/	6	29/6	6/7	July 2025 13/7	20/7	2
0	Make good and provide cover for existing damaged U-channel	108 days	Mon 13/1/25	Wed 30/4/25		30/				10/0	20/0		0,0	10/0		0	2010	0,1	10,1	20/1	
1	Slope Works at Feature No. 11NE-B/C1014 (90m)	14 days	Wed 13/11/24	Tue 26/11/24																	
2	Remove water pump & electric box	14 days	Wed 13/11/24	Tue 26/11/24	1188																
3	Slope Works at Feature No. 11NE-B/C901 (290m)	518 days	Fri 2/6/23	Thu 31/10/24																	
4	Installation of non-biodegradable erosion control mat	90 days	Fri 2/6/23	Wed 30/8/23																	
5	Hydroseeding	30 days	Wed 2/10/24	Thu 31/10/24																	
6	Installation of hand railings	36 days	Thu 7/9/23	Thu 12/10/23																	
7 8	Repainting of handrailing Filling of void with concrete	20 days 37 days	Sun 22/10/23 Tue 2/1/24	Fri 10/11/23 Wed 7/2/24		_															
19	Reinstatement of concrete berm	14 days	Thu 6/6/24	Wed 19/6/24	1198	-															
00	Construction of lockable gate	7 days	Thu 20/6/24	Wed 26/6/24	1199	-															
1	Slope Works at Feature No. 11NE-B/C900 (335m)	892 days	Sat 9/7/22	Mon 16/12/24		-															
)2	Installation of non-biodegradable erosion control mat	78 days	Sun 12/2/23	Sun 30/4/23																	
)3	Hydroseeding	30 days	Fri 1/11/24	Sat 30/11/24																	
)4	Installation of hand railings	60 days	Sat 9/7/22	Tue 6/9/22																	
05	Reinstatement of concrete berm	7 days	Thu 20/6/24	Wed 26/6/24	1199																
06 07	Repainting of handrailing Construction of Wire mesh	30 days	Wed 10/5/23 Mon 2/12/24	Thu 8/6/23 Mon 16/12/24		-															
)7)8	Construction of Wire mesh Slope Works at Feature No. 11NE-B/C899 (280m)	15 days 388 days	Mon 2/12/24 Mon 19/6/23	Won 16/12/24 Wed 10/7/24		-															
09	Filling of voids with concrete	7 days	Thu 27/6/24	Wed 10/7/24 Wed 3/7/24	1205	-															
10	Construction of concrete berm	7 days	Thu 4/7/24	Wed 10/7/24	1209	-															
1	Installation of hand railings	60 days	Mon 19/6/23	Thu 17/8/23																	
12	Repainting of handrailing	30 days	Thu 6/7/23	Fri 4/8/23																	
13	Slope Works at Feature No. 11NE-D/C872 (250m)	892 days	Sat 9/7/22	Mon 16/12/24																	
14	Installation of hand railings	60 days	Sat 9/7/22	Tue 6/9/22																	
15	Repainting of handrailing	30 days	Sun 2/4/23	Mon 1/5/23	4047	_															
6	Reinstatement of concrete berm Filling of void with concrete	7 days 7 days	Tue 10/12/24 Tue 3/12/24	Mon 16/12/24 Mon 9/12/24	1217 1210	_															
17 18	Slope Works at Feature No. 11NE-C/900 (Stage 2)	45 days	Thu 2/1/25	Sat 15/2/25	1210																
19	Installation of non-biodegradable erosion control mat	45 days	Thu 2/1/25	Sat 15/2/25																	
20	Slope Works at Feature No. 11NE-B/C903	30 days	Mon 2/12/24	Tue 31/12/24																	
21	Installation of non-biodegradable erosion control mat	30 days	Mon 2/12/24	Tue 31/12/24																	
22	Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 of the Works	e 365 days	Fri 28/2/25	Mon 9/3/26																	
23	Commencement of Establishment Work for Section 9	0 days	Fri 28/2/25	Fri 28/2/25																	
24	Establishment Work Duration for Section 9	365 days	Fri 28/2/25	Mon 9/3/26	1223																
25	Completion of Works in Section 9	0 days	Mon 9/3/26	Mon 9/3/26	1224																
26	Section of Works 10 - All Tree Protection and Preservation Works Commencement of All Tree Protection and Preservation Work	1202 days?	Fri 30/7/21 Fri 30/7/21	Tue 12/11/24 Fri 30/7/21		_															
27 28	All Tree Protection and Preservation Work	1202 days	Fri 30/7/21	Tue 12/11/24																	
29	Completion of All Tree Protection and Preservation Work	0 days		Tue 12/11/24	1228	_															
	Task Critical Task	Mi	ilestone 🔷	Summa	ary	Progress															



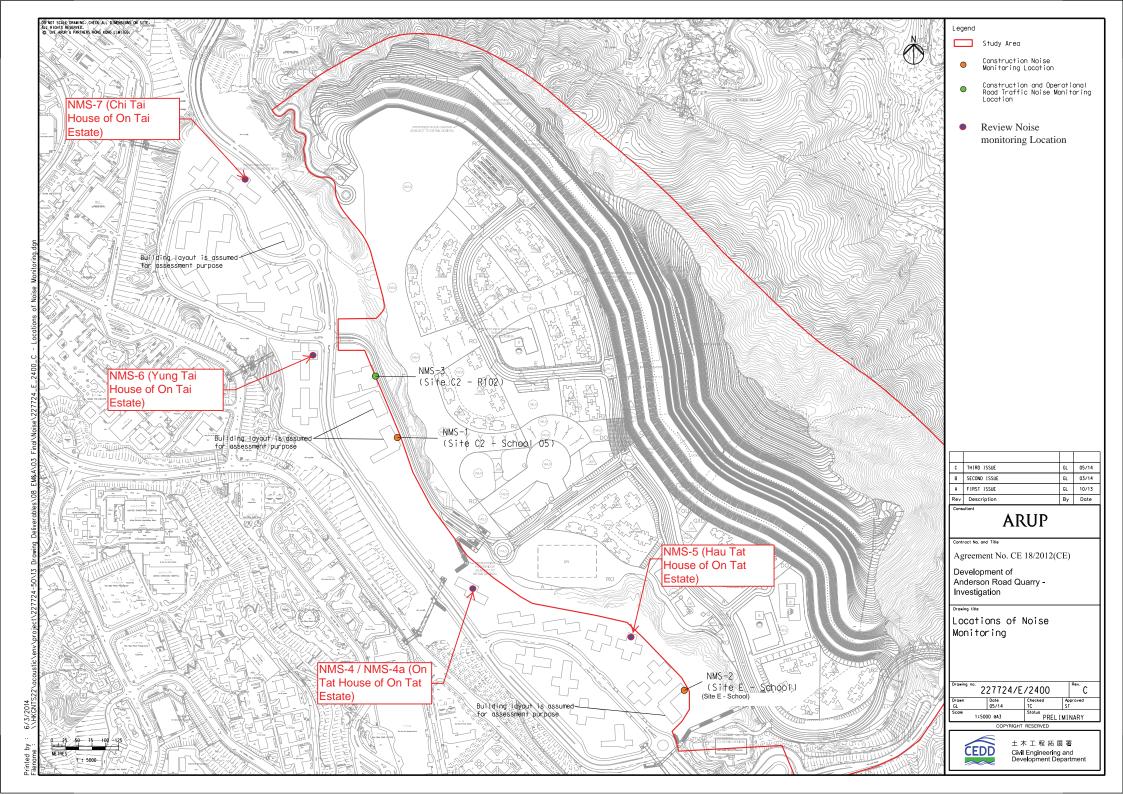
Appendix D

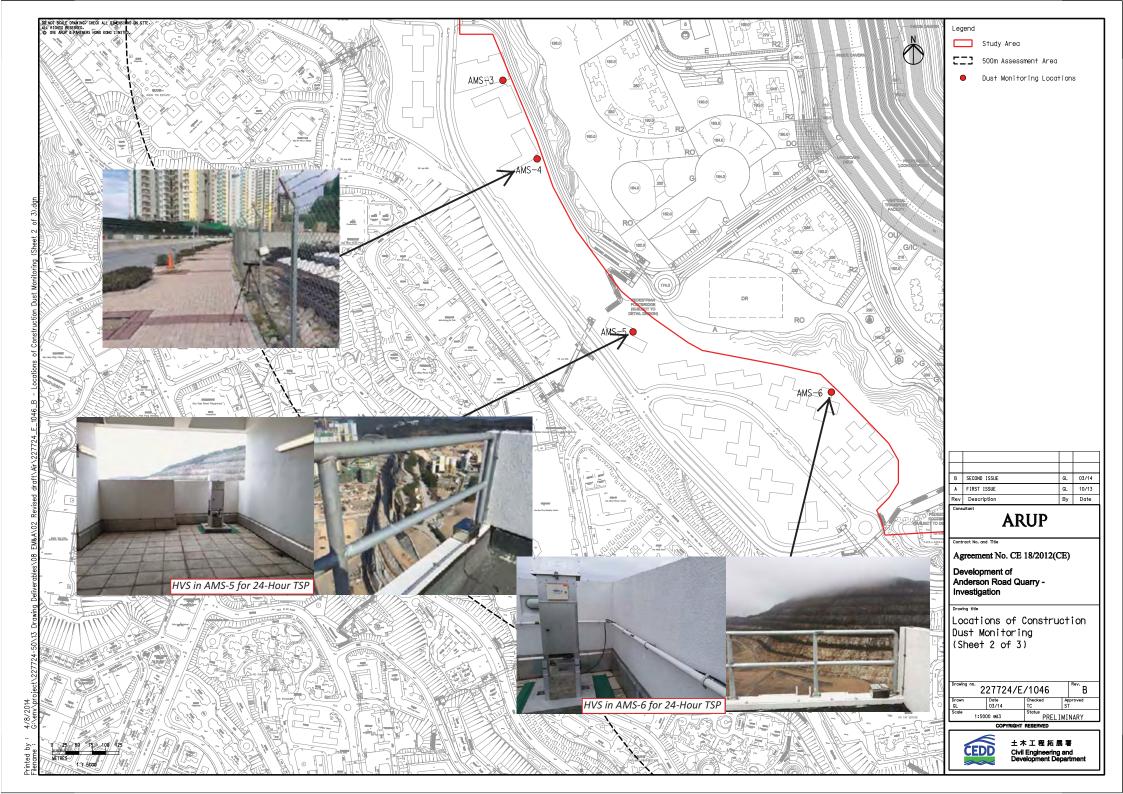
Monitoring Locations for Impact Monitoring

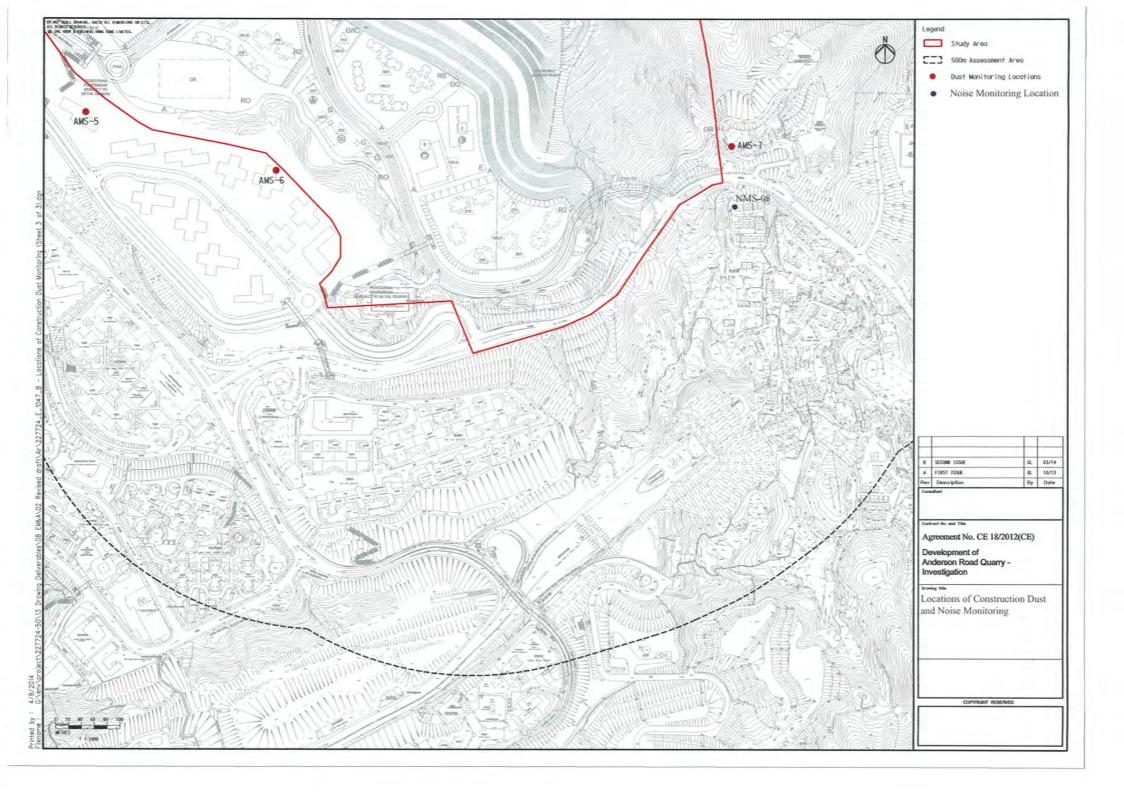


Monitoring Locations for Contract 1 (NE/2016/01)



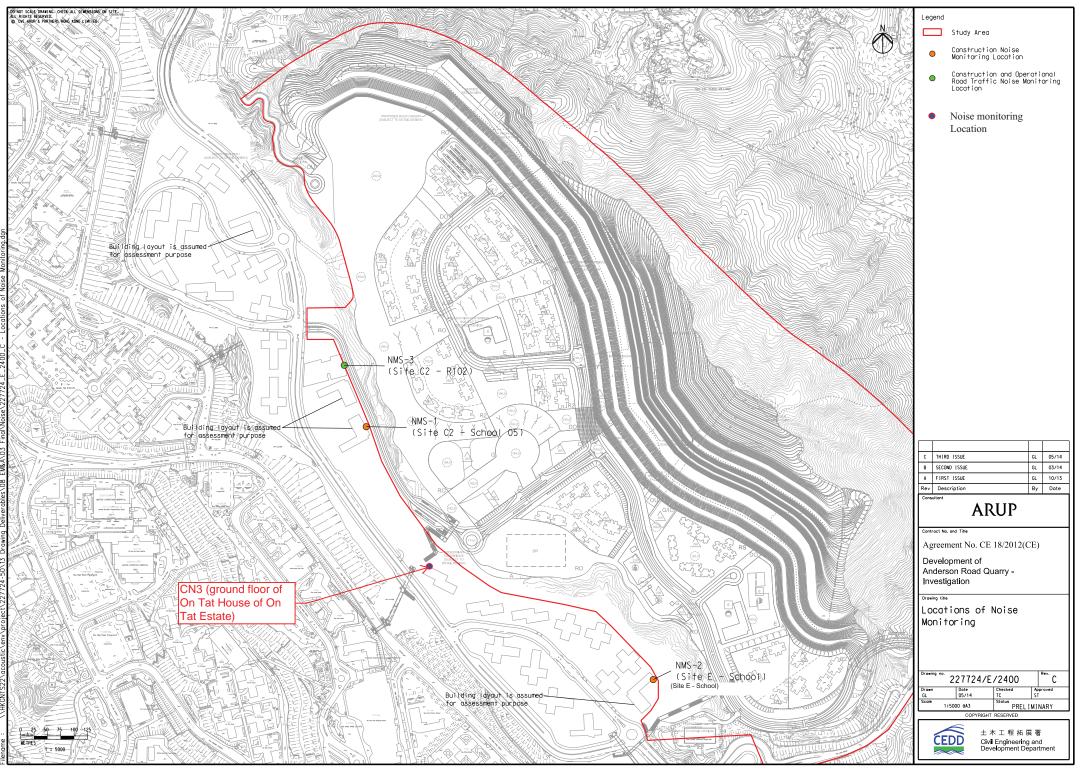






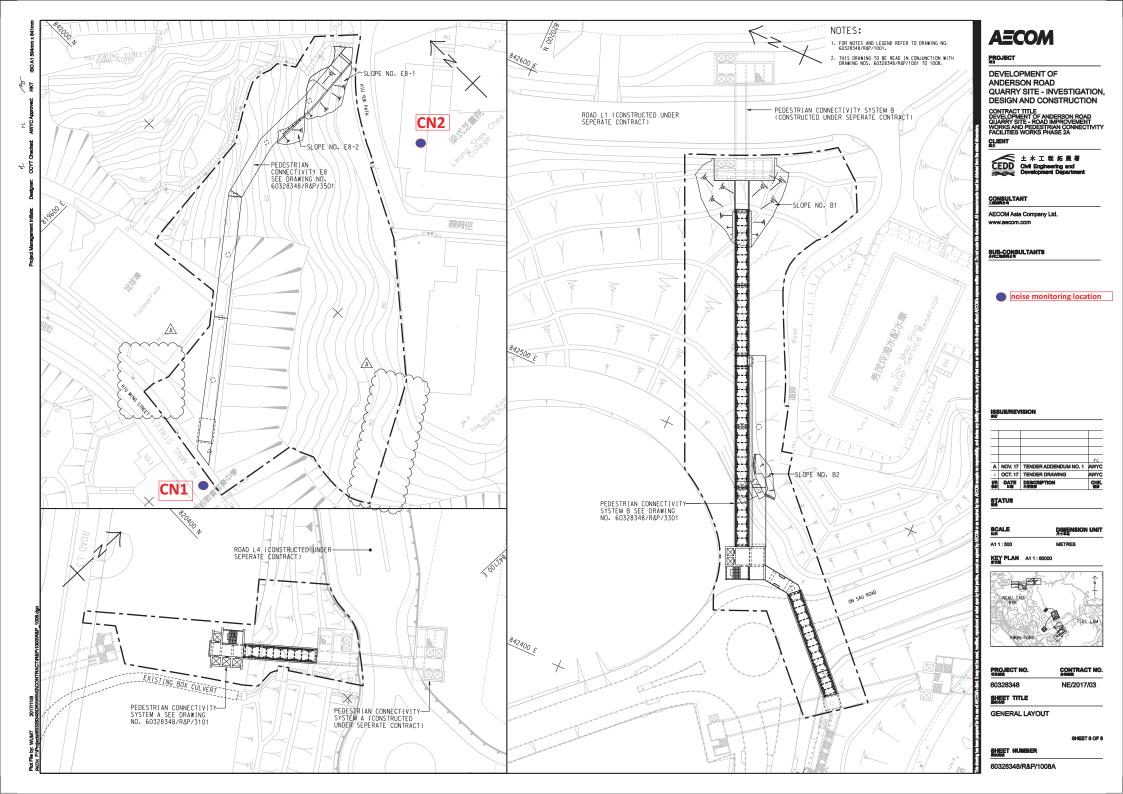


Monitoring Locations for Contract 3 (NE/2017/03)



inted by : 6/3/ ename : \\HK

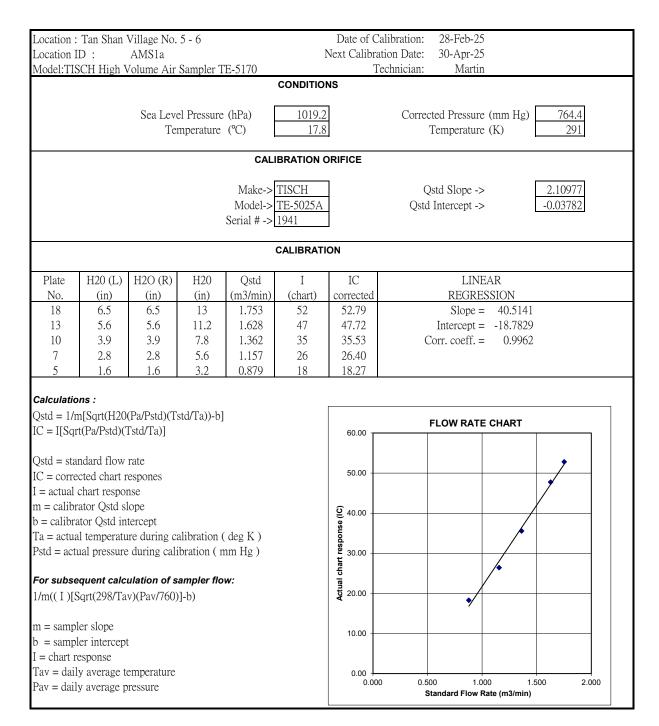
2012





Appendix E

Calibration Certificate of Monitoring Equipment and HOKLAS-accreditation Certificate of the Testing Laboratory



Location : Oi 7	Tat House				Date of (alibration:	28-Feb-25			
	AMS 5			Ν	Jale of C		20-Feb-25 30-Apr-25			
Model:TISCH High		Sampler TE-5	170	1		'echnician:	Martin			
Model, HSCH High		Sampler TE-S		COND		cennician.	ivia tili			
				CONDI	nono					
Sea	Level Pressu	ure (hPa)	1	.019.2		Correct	ed Pressure (r	nm Hg)	76	54.4
500	Temperatu	. ,	1	17.8			Cemperature (I	2,		291
	1 only of the			1710		-			·	
		(CALIE	BRATIO		E				
		1								
		Make->				-	std Slope ->		2.10	
		Model->		025A		Qstd	Intercept ->		-0.03	782
		Serial # ->	1941							
			C	ALIB	RATION					
Plate H20 (L)H	12O (R) H20	0 Qstd		Ι	IC		LINEA	AR		
No. (in)	(in) (in)	-		nart)	corrected		REGRES			
18 6.4	6.4 12.8			53	53.81		Slope =	39.1494		
13 5.3	5.3 10.0	6 1.585	Δ	16	46.70		-	-14.8447		
10 4	4 8	1.379	3	38	38.58	С	orr. coeff. =	0.9992		
7 2.6	2.6 5.2	1.115	2	29	29.44					
5 1.4	1.4 2.8	0.823	1	17	17.26					
- <i></i>						FLOW	RATE CHART	r		
Calculations :		. 1/07 \\ 1]		60.0	0			·		ו ו
Qstd = 1/m[Sqrt(H20)]		std/1a))-b]							•	
IC = I[Sqrt(Pa/Pstd)((1 std/1 a)			50.0					7	
Qstd = standard flow	u rota			50.0						
IC = corrected chart				_				X		
I = actual chart respo	-			ຍິ 40.0	0					-
m = calibrator Qstd s				() 40.0						
b = calibrator Qstd in				dsa 30.0	0					
Ta = actual temperat	-	alibration (des	g K	Actual chart resp 30.0 50.0			1			
Pstd = actual pressur	re during cali	bration (mm)	Hg	alci			X			
				20.0 You	0					-
For subsequent cal		-					•			
1/m((I)[Sqrt(298/Ta	av)(Pav/760)]-b)		10.0	0					
					·					
m = sampler slope										
b = sampler intercept	ot			0.0	0.000	0.500	1.000	1.500		000
I = chart response					0.000		Flow Rate (m3/m		2.0	000
Tav = daily average	-									
Pav = daily average	pressure									

T a action .	IIa	ч. <u>То</u> е По					Data of (Nalih usti sur	00 Eal 05		
Location : Location I		u Tat Ho AMS 6	use			N		Calibration: ation Date:	28-Feb-25 30-Apr-25		
			e <u>Ai</u> r Sa	mpler TE-5	<u>17</u> 0	1		Technician:	Martin		
						CONDIT	IONS				
	G	т 11				1010.0		G			
	56	a Level I Temr	Pressure Derature	. ,		1019.2 17.8			ted Pressure (Femperature (764.4 291
		TOIL	Ciature	(C)		17.0					271
				C	ALII	BRATIO					
				Make->	TIS	СН		O	std Slope ->		2.10977
				Model->				-	Intercept ->		-0.03782
				Serial # ->	194	1					
					(CALIBR	ATION				
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC		LINEA	R	
No.	(in)	(in)	(in)	(m3/min)	(0	chart)	corrected		REGRES		
18	6.2	6.2	12.4	1.712		51	51.78		Slope =		
13	5.4	5.4	10.8	1.599		46	46.00	9	Intercept =		
10	3.7	3.7	7.4	1.327		35	35.53 27.41	С	orr. coeff. =	0.9983	
7 5	2.4 1.4	2.4 1.4	4.8 2.8	1.072 0.823		27 16	27.41 16.24				
			2.0	01020	[10	10121				
Calculatio							_	FLOW		г	
Qstd = 1/r IC = I[Sqr		-		[Ta))-b]		60.0					
IC = I[Sql]	i(Fa/FSiu	I)(1Stu/1)	a)]								
Qstd = sta	ndard flo	w rate				50.0	0				
IC = corrections	cted chai	rt respon	es								
I = actual	-	-				일 40.0	0				
m = calibration b = calibration calibration b = calibration	-	-	4			onse				▲	
	-	-		oration (deg	γ K	ds a 30.0	0				
	-			ation (mm	- 1	chart			•		
	-		-			Actual chart response (IC) 0.05 0.07 0.07					
	-			pler flow:		X 20.0					
1/m((I)[S	sqrt(298/	Tav)(Pav	r//60)]-b)							
m = samp	ler slone					10.0	0				
h = samp b = samp	-	ept									
I = chart r		•				0.0		0.500	4 000	4 500	
Tav = dail	y averag	e temper	ature				0.000	0.500 Standard	1.000 Flow Rate (m3/m	1.500 nin)	2.000
Pav = dail	y average	e pressur	e		Į						

Location : Ma Yau Tong Village						Date of Calibration: 28-Feb-25							
Location ID : AMS 7								ation Date:	30-Apr-25				
Model:TISCH High Volume Air Sampler TE-5170 Technician: Martin													
CONDITIONS													
Sea Level Pressure (hPa) 10						9.2 Corrected Pressure (mm Hg) 76					764.4		
Temperature (°C)						7.8	.8 Temperature (K)				291		
CALIBRATION ORIFICE													
Make-> TISCH							Qstd Slope -> 2.109						
				Model->		бA							
Serial # -> 1941													
CALIBRATION													
Plate	H20 (L)			Qstd	I		IC		LINEAR				
No. 18	(in) 6.2	(in) 6.2	(in) 12.4	(m3/min) 1.712	<u>(chart)</u> 51) C	orrected 51.78		REGRESSION Slope = 39.0945				
18	0.2 5.4	0.2 5.4	12.4 10.8	1.712	46		46.70		Stope = -15.5557				
10	3.7	3.7	7.4	1.327	35		35.53	Corr. coeff. = 0.9987					
7	2.4	2.4	4.8	1.072	27	27.41				0.,,,0	,		
5	1.4	1.4	2.8	0.823	16	16.24							
	-	1 0/D-/D-	4 J) (T - 4 J	/TT-)) 1-1									
Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]						60.00 FLOW RATE CHART							
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]													
Qstd = standard flow rate						50.0					>		
IC = corrected chart response													
I = actual chart response						.							
m = calibrator Qstd slope						ຼິ 40.0 ອ	00						
b = calibrator Qstd intercept						suod							
Ta = actual temperature during calibration (deg K)						Se 30.0	00						
Pstd = actual pressure during calibration (mm Hg)						Actual chart response () 0.05							
For subsequent calculation of sampler flow:						20.0	00						
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)						Ă			•				
			-			10.0	00						
m = sampler slope													
b = sampler intercept						•							
I = chart response							0.00 0.500 1.000 1.500 2.000						
Tay = daily average temperature Pay = daily average pressure							Standard Flow Rate (m3/min)						
rav = dally	Pav = daily average pressure												



RECALIBRATION DUE DATE:

December 16, 2025

Certificate of Calibration

			Calibration	Certificatio	on Informat	ion			
Cal. Date:	December 16, 2024 Ro			meter S/N:	438320	Ta: 293		°K	
Operator:	Jim Tisch					Pa: 749.0		mm Hg	
Calibration	Model #:	TE-5025A	Calil	brator S/N:	4064				
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	1	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.4600	3.2	2.00		
	2	3	4	1	1.0300	6.4	4.00		
	3	5	6	1	0.9220	8.0	5.00		
	4	7	8	1	0.8770	8.8	5.50		
	5	9	10	1	0.7250	12.8	8.00		
	Data Tabulation								
	Vstd	Qstd $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$		
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)		
	0.9981	0.6836	1.41	Contraction of the second s	0.9957	0.6820	0.8845		
	0.9938	0.9649	2.00	24	0.9915	0.9626	1.2509		
	0.9917	1.0756	2.23	88	0.9893	1.0730	1.3985		
	0.9906 1.1296		2.34		0.9883	1.1269	1.4668		
	0.9853	1.3590	2.83	1	0.9829	1.3557	1.7690		
	QSTD	m=	2.096			m=	1.31292		
		b= r=	-0.013		QA	b= r=	-0.01157 0.99999		
				Calculatio	ns				
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta			ΔVol((Pa-Δl			
		Qstd= Vstd/∆Time				Va/ATime			
			For subsequ	ent flow ra					
	Qstd=	1/m ((1/m (Pa Pstd Tstd	-))-b)) $Qa = 1/m \left(\left(\sqrt{\Delta H \left(Ta/Pa \right)} \right) - b \right)$				
	Standard	Conditions							
Tstd					RECALIBRATION				
Pstd		mm Hg				mmonde	anual recalibration	n nor 1000	
Key ΔH: calibrator manometer reading (in H2O)					US EPA recommends annual recalibration per 1998				
		eter reading (i			40 Code of Federal Regulations Part 50 to 51,				
		perature (°K)			Appendix B to Part 50, Reference Method for the				
		ressure (mm			Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30				
: intercept	·		01		th	e Atmosphe	ere, 9.2.17, page	30	
n: slope				L					

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR BEN TAM	WORK ORDER HK2437857
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 16-SEP-2024
		DATE OF ISSUE : 24-SEP-2024
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client. •
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Ki hand Fromy.		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

: HK2437857

WORK ORDER SUB-BATCH

CLIENT

¹ 1 2 ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING 2 ----



 PROJECT
 Image: second second

----- END OF REPORT ------

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor	
Manufacturer:	Sibata LD-5R	
Serial No.	467389	
Equipment Ref:	EQ125	

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)	
Location & Location ID:	AUES office (calibration room)	
Equipment Ref:	HVS 018	
Last Calibration Date:	15 August 2024	

Equipment Verification Results:

Verification Date:

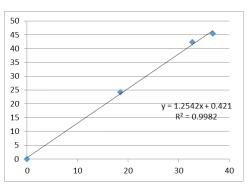
3 September 2024

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
3-Sep-24	2hr00mins	09:26 ~ 11:26	30.2	1006.1	24.3	2216	18.5
3-Sep-24	2hr00mins	11:37 ~ 13:37	30.2	1006.1	42.3	3932	32.8
3-Sep-24	2hr00mins	12:49 ~ 14:49	30.2	1006.1	45.5	4413	36.8

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 704 (CPM) 705 (CPM)

Linear Regression of Y or X

Slope (K-factor):	1.2542 (µg/m ³)/CPM
Correlation Coefficient (R)	0.9991
Date of Issue	10 September 2024



Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor <u>1.2542 (µg/m³)/CPM</u> should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator :	Martin Li	Signature :	the	Date :	10 September 2024
QC Reviewer :	Ben Tam	Signature :	K	Date :	10 September 2024

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location ID :							
	,		CO	NDITIO	ONS		
Sea	Level Pressure Temperature	, ,	1005	5.2 7.7		Corrected Pressure (mm Hg) 753.9 Temperature (K) 301	
			CALIBR	ATION	ORIFIC	E	
	Calibra	Make-> Model-> tion Date->	TISCH 5025A 15-Dec-7	1		Qstd Slope ->2.13163Qstd Intercept ->-0.03523Expiry Date->15-Dec-24	
			CAI	LIBRAT	ΓΙΟΝ		
Plate H20 (L) No. (in)	H2O (R) H20 (in) (in)	Qstd (m3/min)	I (chart)) coi	IC rrected	LINEAR REGRESSION	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6.412.85.210.448.02.55.01.63.2	1.681 1.517 1.332 1.057 0.849	46 40 35 25 20		45.61 39.66 34.70 24.79 19.83	Slope = 31.2876 Intercept = -7.3464 Corr. coeff. = 0.9981	
Calculations : Qstd = 1/m[Sqrt(HZ IC = I[Sqrt(Pa/Pstd) Qstd = standard flov IC = corrected char I = actual chart resp m = calibrator Qstd b = calibrator Qstd Ta = actual tempera Pstd = actual pressu For subsequent ca 1/m((I)[Sqrt(298/I)] m = sampler slope b = sampler interce I = chart response Tav = daily average)(Tstd/Ta)] w rate t respones bonse slope intercept ature during calibu re during calibu Iculation of san Tav)(Pav/760)]-	bration (de ation (mm		2 30.00		FLOW RATE CHART	



RECALIBRATION DUE DATE: December 15, 2024

Certificate of Calibration

			Calibration	Certificati	on Informat	ion		
Cal. Date:	December	nber 15, 2023 Roots		smeter S/N: 438320		Ta: 295		°K
Operator:	Jim Tisch					Pa: 748.5		mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1941			-
								1
	Run	Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ		
	1 Kun	(m3) 1	(m3) 2	(m3)	(min) 1.4590	(mm Hg) 3.2	(in H2O)	
	2	3	4	1	1.4390	6.4	2.00	
	3	5	6	1	0.9260	8.0	5.00	
	4	7	8	1	0.8840	8.9	5.50	1
	5	9	10	1	0.7290	12.9	8.00	
				Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9907	0.6790	1.410	06	0.9957	0.6825	0.8878	
	0.9864	0.9522	1.994		0.9914	0.9570	1.2556	
	0.9843	1.0630	2.230	And the second se	0.9893	1.0684	1.4037	
	0.9831	1.1121	2.339		0.9881	1.1178	1.4723	
	0.9778	1.3413	2.82		0.9828	1.3481	1.7756	
	ΟςΤΟ	m= b=	2.131				1.33479	
	QSTD	r=	0.999		QA	b= r=	-0.02217 0.99999	
						1	0.0000	
	Vstd=	$\Lambda Vol((Pa-\Lambda P)$	/Pstd)(Tstd/Ta	Calculatio		ΔVol((Pa-Δl	$\mathcal{O}(\mathbb{P}^{2})$	
	Constant of the owner owne	Vstd/ATime	/1300/1300/16	,,	Qa=			
			For subsequ	ent flow ra	te calculatio			
	Qstd=	std= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)$.				1/m ((√ΔH	l(Ta/Pa))-b)	
	Standard	Conditions						
Tstd:	298.15					RECA	LIBRATION	
Pstd:	And the state of t	mm Hg						
		(ey	- 1120)				nnual recalibratio	
	and the second se	er reading (in eter reading	,				Regulations Part 5	
		perature (°K)					Reference Meth	
		essure (mm					ended Particulate	
o: intercept	· · · · · · · · · · · · · · · · · · ·				the	e Atmosphe	re, 9.2.17, page 3	50
m: slope				L				

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ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR BEN TAM	WORK ORDER HK2437858
CLIENT	: ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 16-SEP-2024
		DATE OF ISSUE : 24-SEP-2024
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client. •
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Ki hand Fromy.		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

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: HK2437858

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2437858-001	S/N: 467390 (EQ126)	AIR	16-Sep-2024	S/N: 467390 (EQ126)

----- END OF REPORT ------

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor	
Manufacturer:	Sibata LD-5R	
Serial No.	467390	
Equipment Ref:	EQ126	

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	15 August 2024

Equipment Verification Results:

Verification Date:

3 September 2024

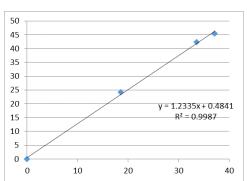
Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
3-Sep-24	2hr00mins	09:26 ~ 11:26	30.2	1006.1	24.3	2225	18.5
3-Sep-24	2hr00mins	11:37 ~ 13:37	30.2	1006.1	42.3	4033	33.6
3-Sep-24	2hr00mins	12:49 ~ 14:49	30.2	1006.1	45.5	4455	37.1

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) <u>613 (CPM)</u>

612 (CPM)

Linear Regression of Y or X

Slope (K-factor):	1.2335 (µg/m ³)/CPM			
Correlation Coefficient (R)	0.9993			
Date of Issue	10 September 2024			



Remarks:

1. Strong Correlation (R>0.8)

2. Factor <u>1.2335 (µg/m³)/CPM</u> should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator :	Martin Li	Signature :	the	Date :	10 September 2024
QC Reviewer :	Ben Tam	Signature :	46	Date :	10 September 2024

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :Gold King Industrial Building, Kwai ChungDate of Calibration: 15-Aug-24Location ID :Calibration Room - TISCH Higher Volume Sampler (ModelNext Calibration Date: 15-Nov-24TE-5170) S/N:1260TE-5170S/N:1260									
	,		CO	NDITIO	ONS				
Sea Level Pressure (hPa)1005.2Corrected Pressure (mm Hg)753.9Temperature (°C)27.7Temperature (K)301									
			CALIBR	ATION	ORIFIC	E			
Make->TISCHQstd Slope ->2.13163Model->5025AQstd Intercept ->-0.03523Calibration Date->15-Dec-23Expiry Date->15-Dec-24									
			CAI	LIBRAT	ΓΙΟΝ				
Plate H20 (L) No. (in)	H2O (R) H20 (in) (in)	Qstd (m3/min)	I (chart)) coi	IC rrected	LINEAR REGRESSION			
18 6.4 6.4 12.8 1.681 13 5.2 5.2 10.4 1.517 10 4 4 8.0 1.332 8 2.5 2.5 5.0 1.057				45.61 Slop 39.66 Intercep 34.70 Corr. coef 24.79 24.79		Slope = 31.2876 Intercept = -7.3464 Corr. coeff. = 0.9981			
51.61.63.2 0.849 20 19.83 Calculations :Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]Qstd = standard flow rateIC = corrected chart responseI = actual chart responsem = calibrator Qstd interceptTa = actual temperature during calibration (deg K)Pstd = actual pressure during calibration (mm Hg)For subsequent calculation of sampler flow: $1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)$ m = sampler slopeb = sampler interceptI = chart responseTav = daily average temperature									



RECALIBRATION DUE DATE: December 15, 2024

Certificate of Calibration

			Calibration	Certificati	on Informat	ion		
Cal. Date:	December 15, 2023 Rootsi			meter S/N:	438320	Ta:	295	°K
Operator:	Jim Tisch	m Tisch				Pa: 748.5		mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1941			-
								1
	Run	Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ		
	1 Kun	(m3) 1	(m3) 2	(m3)	(min) 1.4590	(mm Hg) 3.2	(in H2O)	
	2	3	4	1	1.4390	6.4	2.00	
	3	5	6	1	0.9260	8.0	5.00	
	4	7	8	1	0.8840	8.9	5.50	1
	5	9	10	1	0.7290	12.9	8.00	
				Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9907	0.6790	1.410	06	0.9957	0.6825	0.8878	
	0.9864	0.9522	1.9949		0.9914	0.9570	1.2556	
	0.9843	1.0630	2.230	And the second se	0.9893	1.0684	1.4037	
	0.9831	1.1121	2.3393		0.9881	1.1178	1.4723	
	0.9778	1.3413	2.82		0.9828	1.3481	1.7756	
	ΟςΤΟ	m= b=	2.131				1.33479	
	QSTD	r=	0.999		QA	b= r=	-0.02217 0.99999	
						1	0.0000	
	Vstd=	$\Lambda Vol((Pa-\Lambda P)$	/Pstd)(Tstd/Ta	Calculatio	ns Va=			
	Constant of the owner owne	Vstd/ATime	/1300/1300/18	,,	Qa=			
			For subsequ	ent flow ra	te calculatio	Non-the optical Control of the optical statement of the optical stateme		
	Qstd=	Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)$ -			$Qa = 1/m \left(\left(\sqrt{\Delta H \left(Ta/Pa \right)} \right) - b \right)$			
	Standard	Conditions						
Tstd:	298.15					RECA	LIBRATION	
Pstd:	And the state of t	mm Hg						
		(ey	- 1120)				nnual recalibratio	
	and the second se	er reading (in eter reading	,				Regulations Part 5	
		perature (°K)					Reference Meth	
		essure (mm					ended Particulate	
o: intercept	· · · · · · · · · · · · · · · · · · ·				the	e Atmosphe	re, 9.2.17, page 3	50
m: slope				L				

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ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR BEN TAM	WORK ORDER HK2437859
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 16-SEP-2024
		DATE OF ISSUE : 24-SEP-2024
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client. •
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position
Kichard Jong.	
Richard Fung	Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

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: HK2437859

WORK ORDER SUB-BATCH

CLIENT

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



PROJECT ALS Lab **Client's Sample ID** Sample Sample Date External Lab Report No. ID Туре HK2437859-001 AIR 16-Sep-2024 S/N: 467391 (EQ127) S/N: 467391 (EQ127)

----- END OF REPORT ------

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor	
Manufacturer:	Sibata LD-5R	
Serial No.	467391	
Equipment Ref:	EQ127	

Standard Equipment:

Higher Volume Sampler (TSP)
AUES office (calibration room)
HVS 018
15 August 2024

Equipment Verification Results:

Verification Date:

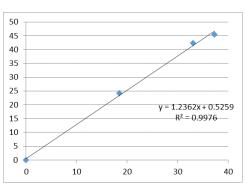
3 September 2024

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
3-Sep-24	2hr00mins	09:26 ~ 11:26	30.2	1006.1	24.3	2221	18.5
3-Sep-24	2hr00mins	11:37 ~ 13:37	30.2	1006.1	42.3	3972	33.1
3-Sep-24	2hr00mins	12:49 ~ 14:49	30.2	1006.1	45.5	4481	37.3

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) <u>665 (CPM)</u> 665 (CPM)

Linear Regression of Y or X

Slope (K-factor):	1.2362 (µg/m ³)/CPM
Correlation Coefficient (R)	0.9987
Date of Issue	10 September 2024



Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor <u>1.2362 (µg/m³)/CPM</u> should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator :	Martin Li	Signature :	the	Date :	10 September 2024
QC Reviewer :	Ben Tam	Signature :	46	Date :	10 September 2024

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location ID :										
CONDITIONS										
Sea	Sea Level Pressure (hPa)1005.2Corrected Pressure (mm Hg)753.9Temperature (°C)27.7Temperature (K)301									
CALIBRATION ORIFICE										
	Make-> Model-> tion Date->	TISCH 5025A 15-Dec-7	1		Qstd Slope ->2.13163Qstd Intercept ->-0.03523Expiry Date->15-Dec-24					
			CAI	LIBRAT	ΓΙΟΝ					
Plate H20 (L) No. (in)	H2O (R) H20 (in) (in)	Qstd (m3/min)	I (chart)) coi	IC rrected	LINEAR REGRESSION				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6.412.85.210.448.02.55.01.63.2	1.681 1.517 1.332 1.057 0.849	46 40 35 25 20		45.61 39.66 34.70 24.79 19.83	Slope = 31.2876 Intercept = -7.3464 Corr. coeff. = 0.9981				
Calculations : Qstd = 1/m[Sqrt(HZ IC = I[Sqrt(Pa/Pstd) Qstd = standard flov IC = corrected char I = actual chart resp m = calibrator Qstd b = calibrator Qstd Ta = actual tempera Pstd = actual pressu For subsequent ca 1/m((I)[Sqrt(298/I)] m = sampler slope b = sampler interce I = chart response Tav = daily average)(Tstd/Ta)] w rate t respones bonse slope intercept ature during calibu re during calibu Iculation of san Tav)(Pav/760)]-	bration (de ation (mm		2 30.00		FLOW RATE CHART				



RECALIBRATION DUE DATE: December 15, 2024

Certificate of Calibration

			Calibration	Certificati	on Informat	ion			
Cal. Date:	December	15, 2023	Roots	meter S/N:	438320 Ta: 295			°K	
Operator:	Jim Tisch						Pa: 748.5		
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1941			-	
	Run	Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ			
	1 Kun	(m3) 1	(m3) 2	(m3)	(min) 1.4590	(mm Hg) 3.2	(in H2O)		
	2	3	4	1	1.4390	6.4	2.00		
	3	5	6	1	0.9260	8.0	5.00		
	4	7	8	1	0.8840	8.9	5.50	1	
	5	9	10	1	0.7290	12.9	8.00		
				Data Tabula	tion]	
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)		
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)		
	0.9907	0.6790	1.410	06	0.9957	0.6825	0.8878		
	0.9864	0.9522	1.994		0.9914	0.9570	1.2556		
	0.9843	1.0630	2.230	And the second se	0.9893	1.0684	1.4037		
	0.9831	1.1121	2.339		0.9881	1.1178	1.4723		
	0.9778	1.3413	2.82		0.9828	1.3481	1.7756		
	ΟςΤΟ	m= b=	2.131				1.33479		
	QSTD	r=	0.999		QA	b= r=	-0.02217 0.99999		
						1	0.0000		
	Vstd=	$\Lambda Vol((Pa-\Lambda P)$	/Pstd)(Tstd/Ta	Calculatio)/Da)		
	Constant of the owner owne	Vstd/ATime	/1300/1300/18	,,	Va= ΔVol((Pa-ΔP)/Pa) Qa= Va/ΔTime				
			For subsequ	ent flow ra	te calculatio				
	Qstd=	1/m ((\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pa <u>Tstd</u> Pstd Ta))-b)	$Qa = 1/m \left(\left(\sqrt{\Delta H (Ta/Pa)} \right) - b \right)$				
	Standard	Conditions							
Tstd:	298.15					RECA	LIBRATION		
Pstd:	And the state of t	mm Hg							
		(ey	- 1120)				nnual recalibratio		
	and the second se	er reading (in eter reading	,				Regulations Part 5		
		perature (°K)					Reference Meth		
		essure (mm					ended Particulate		
o: intercept	· · · · · · · · · · · · · · · · · · ·				the	e Atmosphe	re, 9.2.17, page 3	50	
m: slope				L					

Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR BEN TAM	WORK ORDER HK2437860
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 16-SEP-2024
	······································	DATE OF ISSUE : 24-SEP-2024
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client. •
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Ki hand Fromy.		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

: HK2437860

WORK ORDER SUB-BATCH

CLIENT

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



PROJECT ALS Lab **Client's Sample ID** Sample Sample Date External Lab Report No. ID Туре HK2437860-001 AIR 16-Sep-2024 S/N: 467392 (EQ128) S/N: 467392 (EQ128)

----- END OF REPORT ------

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-5R
Serial No.	467392
Equipment Ref:	EQ128

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	15 August 2024

Equipment Verification Results:

Verification Date:

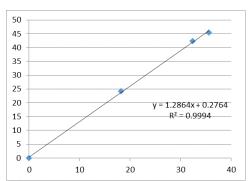
3 September 2024

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
3-Sep-24	2hr00mins	09:26 ~ 11:26	30.2	1006.1	24.3	2190	18.3
3-Sep-24	2hr00mins	11:37 ~ 13:37	30.2	1006.1	42.3	3887	32.4
3-Sep-24	2hr00mins	12:49 ~ 14:49	30.2	1006.1	45.5	4273	35.6

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 715 (CPM) 714 (CPM)

Linear Regression of Y or X

Slope (K-factor):	1.2864g/m ³)/CPM
Correlation Coefficient (R)	0.9997
Date of Issue	10 September 2024



Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor <u>1.2864g/m³)/CPM</u> should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator :	Martin Li	Signature :	the	Date :	10 September 2024
QC Reviewer :	Ben Tam	Signature :	K	Date :	10 September 2024

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location ID :										
CONDITIONS										
Sea	Sea Level Pressure (hPa)1005.2Corrected Pressure (mm Hg)753.9Temperature (°C)27.7Temperature (K)301									
CALIBRATION ORIFICE										
	Make-> Model-> tion Date->	TISCH 5025A 15-Dec-7	1		Qstd Slope ->2.13163Qstd Intercept ->-0.03523Expiry Date->15-Dec-24					
			CAI	LIBRAT	ΓΙΟΝ					
Plate H20 (L) No. (in)	H2O (R) H20 (in) (in)	Qstd (m3/min)	I (chart)) coi	IC rrected	LINEAR REGRESSION				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6.412.85.210.448.02.55.01.63.2	1.681 1.517 1.332 1.057 0.849	46 40 35 25 20		45.61 39.66 34.70 24.79 19.83	Slope = 31.2876 Intercept = -7.3464 Corr. coeff. = 0.9981				
Calculations : Qstd = 1/m[Sqrt(HZ IC = I[Sqrt(Pa/Pstd) Qstd = standard flov IC = corrected char I = actual chart resp m = calibrator Qstd b = calibrator Qstd Ta = actual tempera Pstd = actual pressu For subsequent ca 1/m((I)[Sqrt(298/I)] m = sampler slope b = sampler interce I = chart response Tav = daily average)(Tstd/Ta)] w rate t respones bonse slope intercept ature during calibu re during calibu Iculation of san Tav)(Pav/760)]-	bration (de ation (mm		2 30.00		FLOW RATE CHART				



RECALIBRATION DUE DATE: December 15, 2024

Certificate of Calibration

			Calibration	Certificati	on Informat	ion		
Cal. Date:	December	15, 2023	Roots	meter S/N:	438320	Ta:	295	°K
Operator:	Jim Tisch					Pa: 748.5		mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1941			-
								1
	Run	Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ		
	1 Kun	(m3) 1	(m3) 2	(m3)	(min) 1.4590	(mm Hg) 3.2	(in H2O)	
	2	3	4	1	1.4390	6.4	2.00	
	3	5	6	1	0.9260	8.0	5.00	
	4	7	8	1	0.8840	8.9	5.50	1
	5	9	10	1	0.7290	12.9	8.00	
				Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9907	0.6790	1.410	06	0.9957	0.6825	0.8878	
	0.9864	0.9522	1.994		0.9914	0.9570	1.2556	
	0.9843	1.0630	2.230	And the second se	0.9893	1.0684	1.4037	
	0.9831	1.1121	2.339		0.9881	1.1178	1.4723	
	0.9778	1.3413	2.82		0.9828	1.3481	1.7756	
	ΟςΤΟ	m= b=	2.131				1.33479	
	QSTD	r=	0.999		QA	b= r=	-0.02217 0.99999	
						1	0.0000	
	Vstd=	$\Lambda Vol((Pa-\Lambda P)$	/Pstd)(Tstd/Ta	Calculatio)/Da)	
	Constant of the owner owne	Vstd/ATime	/1300/1300/18	,,	and the same statement of the	Va= Δ Vol((Pa- Δ P)/Pa) Qa= Va/ Δ Time		
			For subsequ	ent flow ra		Construction of the Owner Construction of th		
	Qstd=	$\mathbf{Qstd= 1/m} \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$				1/m ((√ΔH	l(Ta/Pa))-b)	
	Standard	Conditions						
Tstd:	298.15					RECA	LIBRATION	
Pstd:	And the state of t	mm Hg						
Key							nnual recalibratio	
ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)							Regulations Part 5	
		perature (°K)					Reference Meth	
		essure (mm			Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30			
o: intercept	· · · · · · · · · · · · · · · · · · ·				the	e Atmosphe	re, 9.2.17, page :	50
m: slope				L				

Tisch Environmental, Inc.

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<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242244 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號:IC24-0561)	Date of Receipt / 收件日期: 3 April 2024		
Description / 儀器名稱	:	Integrating Sound Level Meter (EQ006)			
Manufacturer / 製造商	:	Brüel & Kjær			
Model No. / 型號	:	2238			
Serial No. / 編號	:	2285762			
Supplied By / 委託者	:	Action-United Environmental Services and C	onsulting		
		Unit A, 20/F., Gold King Industrial Building,			
		35-41 Tai Lin Pai Road, Kwai Chung, N.T.			

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 April 2024

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	:	H T Wong ssistant Engineer			
Certified By 核證	:	K C Lee Engineer	Date of Issue 簽發日期	:	22 April 2024

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242244 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

<u>Equipm</u>	ent ID De	escription	Certificate No.
CL280	40	MHz Arbitrary Waveform Generator	C240212
CL281	M	ultifunction Acoustic Calibrator	CDK2302738

- 4. Test procedure : MA101N.
- 5. Results :
- 5.1 Sound Pressure Level

5.1.1 Reference Sound Pressure Level

		Applied Value		UUT	IEC 60651		
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	Α	F	94.00	1	94.0	± 0.7

5.1.2 Linearity

	UU	Γ Setting	Applie	d Value	UUT	
Range	Parameter	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
50 - 130	L_{AFP}	А	F	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

IEC 60651 Type 1 Limit : \pm 0.4 dB per 10 dB step and \pm 0.7 dB for overall different.

5.2 Time Weighting

5.2.1 Continuous Signal

		Applie	d Value	UUT	IEC 60651		
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	А	F	94.00	1	94.0	Ref.
	L _{ASP}		S			94.0	± 0.1
	L _{AIP}		Ι			94.1	± 0.1

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242244 證書編號

5.2.2 Tone Burst Signal (2 kHz)

		Setting		Applied Value		UUT	IEC 60651
D							
Range	Parameter	Frequency	Time	Level	Burst	Reading	Type 1 Limit
(dB)		Weighting	Weighting	(dB)	(dB) Duration		(dB)
30 - 110	L _{AFP}	А	F	106.0	Continuous	106.0	Ref.
	L _{AFMax}				200 ms	105.0	-1.0 ± 1.0
	L _{ASP}		S		Continuous	106.0	Ref.
	L _{ASMax}				500 ms	102.0	-4.1 ± 1.0

5.3 Frequency Weighting

5.3.1 A-Weighting

		Setting		Applied Value		UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Level Freq.		Type 1 Limit
(dB)		Weighting	Weighting	(dB)	-	(dB)	(dB)
50 - 130	L _{AFP}	А	F	94.00	31.5 Hz	55.1	-39.4 ± 1.5
					63 Hz	68.0	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.8	-3.2 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	95.3	$+1.2 \pm 1.0$
					4 kHz	95.0	$+1.0 \pm 1.0$
		,			8 kHz	92.9	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

5.3.2 C-Weighting

		Setting		Applied Value		UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Level Freq.		Type 1 Limit
(dB)		Weighting	Weighting	(dB)	_	(dB)	(dB)
50 - 130	L _{CFP}	С	F	94.00	31.5 Hz	91.4	-3.0 ± 1.5
			5		63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.0
				~	250 Hz	94.0	0.0 ± 1.0
					500 Hz	94.0	0.0 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	93.8	-0.2 ± 1.0
					4 kHz	93.2	-0.8 ± 1.0
					8 kHz	91.0	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242244 證書編號

5.4 Time Averaging

	UUT Setting				Ap		UUT	IEC 60804		
Range	Parameter	Frequency	Integrating	Frequency	Burst	Burst	Burst	Equivalent	Reading	Type 1
(dB)		Weighting	Time	(kHz)	Duration	Duty	Level	Level	(dB)	Limit
					(ms)	Factor	(dB)	(dB)		(dB)
30 - 110	L _{Aeq}	А	10 sec.	4	1	1/10	110.0	100	100.0	± 0.5
						1/10 ²		90	90.0	± 0.5
			60 sec.			1/10 ³		80	79.4	± 1.0
			5 min.			1/104		70	69.3	± 1.0

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2250447

- Mfr's Limit : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value :	94 dB : 31.5 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
	8 kHz	$\pm 0.45 \text{ dB}$
	12.5 kHz	: ± 0.70 dB
	104 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
	114 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
	Burst equivalent level	$\pm 0.2 \text{ dB}$ (Ref. 110 dB
		continuous sound level)

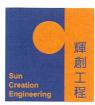
- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C242243 證書編號

ITEM TESTED / 送檢項目] (Job No. / 序引編號: IC24-0561) Date of Receipt / 收件日期: 28 March 2024				
Description / 儀器名稱 :	Sound Level Meter (EQ068)				
Manufacturer / 製造商 :	Rion				
Model No. / 型號 :	NL-31				
Serial No. / 編號 :	00410247				
Supplied By / 委託者 :	Action-United Environmental Services and Consulting				
	Unit A, 20/F., Gold King Industrial Building,				
	35-41 Tai Lin Pai Road, Kwai Chung, N.T.				
TEST CONDITIONS / 測試條件					

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50 ± 25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 April 2024

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	:H T Wong Assistant Engineer		
Certified By 核證	: K C Lee Engineer	Date of Issue : 簽發日期	22 April 2024

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242243 證書編號

Certificate No.

CDK2302738

C240212

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

-	U	JT Setting		Applied Value		UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.8

IEC 61672 Class 1 Limit : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8	Ref.
			Slow			93.8	± 0.3

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242243 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

 TT HOUGHNING								
UUT Setting			Applied Value		UUT	IEC 61672 Class 1		
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit	
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)	
30 - 120	L _A	А	Fast	94.00	63 Hz	67.6	-26.2 ± 1.5	
					125 Hz	77.6	-16.1 ± 1.5	
					250 Hz	85.1	-8.6 ± 1.4	
					500 Hz	90.6	-3.2 ± 1.4	
					1 kHz	93.8	Ref.	
					2 kHz	95.1	$+1.2 \pm 1.6$	
					4 kHz	95.0	$+1.0 \pm 1.6$	
					8 kHz	92.8	-1.1 (+2.1 ; -3.1)	
					16 kHz	87.5	-6.6 (+3.5 ; -17.0)	

6.3.2 C-Weighting

	UUT Setting			Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	С	Fast	94.00	63 Hz	93.0	-0.8 ± 1.5
					125 Hz	93.6	-0.2 ± 1.5
					250 Hz	93.8	0.0 ± 1.4
					500 Hz	93.9	0.0 ± 1.4
					1 kHz	93.9	Ref.
					2 kHz	93.8	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					16 kHz	85.5	-8.5 (+3.5 ; -17.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Certificate of Calibration 校正證書

Certificate No. : C242243 證書編號

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 322738

- Mfr's Limit : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB	: 63 Hz - 125 Hz : \pm 0.35 dB
	250 Hz - 500 Hz : ± 0.30 dB
	1 kHz : $\pm 0.20 \text{ dB}$
	$2 \text{ kHz} - 4 \text{ kHz} : \pm 0.35 \text{ dB}$
	8 kHz : ± 0.45 dB
	$16 \text{ kHz} \qquad : \pm 0.70 \text{ dB}$
104 dI	$3 : 1 \text{ kHz}$: $\pm 0.10 \text{ dB}$ (Ref. 94 dB)
114 dF	$3 : 1 \text{ kHz}$: $\pm 0.10 \text{ dB}$ (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Certificate No. 411103

Calibration Certificate

Certificate No	. 411103		Page 1	of 4 Pages
Customer :	Action-Unltod Environmental S	ervices & consulting		
Address :	Unit A, 20/F, Gold King Industrial Build	-	ad. Kwai Chung, New Ter	ritories. Hong Kong
Order No. :	Q44140		Date of receipt	: 25-Oct-24
Item Tested				
Description	: Sound Level Meter			
Manufacturer			I.D. :	E00215
	: 2238		Serial No.	EQ0215 2285722
Test Condit	ions			
Date of Test :				
Ambient Temp				:
			Relative Humidity	: (50 ± 25) %
Test Specifi	cations			
Calibration che				
	n indication that it conforms to IE			
Ref. Document	/Procedure: Z01, IEC 61672-1:20	002.		
Test Results	3			
All results were	within the IEC 61672 Class 1 sp	ecification or Tolera	nce (whore applicably	2)
	shown in the attached page(s).	concation of Toleral	ice.(where applicable	<i>∃)</i>
Main Test equip	oment used:			
Equipment No.	Description	<u>Cert. No.</u>	Tra	aceable to
S017	Multi-Function Generator	C211339		L-HKSAR
S240	Sound Level Calibrator	405380		M-PRC & SCL-HKSAR
The values given in will not include allow	this Calibration Certificate only relate to vance for the equipment long term drift, v	the values measured at t	he time of the test and an	y uncertainties quoted
overloading, mis-ha	indling, or the capability of any other labo	oratory to repeat the meas	surement. Hong Kong Ca	libration Ltd. shall not be liable
for any loss or dam	age resulting from the use of the equipm	ient.		
The test equipment The test results app	used for calibration are traceable to Inte oly to the above Unit-Under-Test only	rnational System of Units	(SI), or by reference to a	natural constant.
				<u> </u>
	AL			
Calibrated by		aqA	roved by :	M
-	Elva Chong	1-1-		Wong
This Certificate is issued b	·	Date:	8-Nov-24	-
Hong Kong Calibration Ltd Unit 8B, 24/F., Well Fung	i. Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kw	wai Chung, NT,Hong Kong.		

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Tel: 2425 8801 Fax: 2425 8646



Calibration Certificate

Certificate No. 411103

Page 2 of 4 Pages

All tests were performed on the UUT's Reference Level Range: 54.0-134.0 dB, unless specified otherwise.

Results :

Acoustical signal test

1. Indication at the Calibration Check Frequency (1kHz)

UUT Setting		Applied Value (dB)	UUT Reading (dB)
Weight.	Response		After Adjust.*
А	F	94.0	93.8
	S		93.8
C	F		93.8
L			93.8

*Adjustment using the customer's sound calibrator was performed immediately before test.

Tolerance : $\pm 1.0 \text{ dB}$ Uncertainty : $\pm 0.1 \text{ dB}$

Self-generated noise (Microphone Installed, most sensitive range): 23.7 dBA

Electrical signal tests

2. Frequency weightings (A,F)

Frequency		Attenuation (dB)	IEC 61672-1 Class 1 Spec.
31.5	Hz	-39.5	- 39.4 dB, ± 1.5 dB
63	Hz	-26.2	- 26.2 dB, ± 1.0 dB
125	Hz	-16.2	- 16.1 dB, ± 1.0 dB
250	Hz	-8.7	- 8.6 dB, ± 1.0 dB
500	Hz	-3.3	- $3.2 \text{ dB}, \pm 1.0 \text{ dB}$
1	kHz	0.0 (Ref)	$0 dB, \pm 0.7 dB$
2	kHz	+1.2	$+$ 1.2 dB, \pm 1.0 dB
4	kHz	+0.9	$+$ 1.0 dB, \pm 1.0 dB
8	kHz	-1.3	- 1.1 dB, + 1.5 dB ~ -2.5 dB
16	kHz	-6.8	- 6.6 dB, + 2.5 dB ~ - 16.0 dB

Uncertainty : $\pm 0.1 \text{ dB}$



Calibration Certificate

Certificate No. 411103

Page 3 of 4 Pages

3. Frequency & Time weightings

3.1 Frequency Weighting (1kHz)

UUT Setting				
Time Weight.	Freq. Weight.	Anticipated Value	UUT	IEC 61672-1
		(dB)	Reading (dB)	Class 1 Spec.
F	А	94.0	94.0 (Ref.)	
	С		94.0	± 0.2 dB
	L		94.0	

Uncertainty : $\pm 0.1 \text{ dB}$

3.2 Time Weighting (1kHz)

UUT S	Setting			
Time Weight.	Freq. Weight.	Anticipated Value	UUT	IEC 61672-1
		(dB)	Reading (dB)	Class 1 Spec.
F	А	94.0	94.0 (Ref.)	
S			94.0	± 0.1 dB
eq		-	93.9	

Uncertainty : $\pm 0.1 \text{ dB}$

5. Level Linearity on the Reference Level Range (8 kHz, A, F)

Anticipated Value (dB)	UUT Reading (dB)	IEC 61672-1 Class 1 Spec.
124.0	123.8	± 0.8 dB
114.0	113.9	
104.0	103.9	
94.0	94.0 (Ref.)	
84.0	84.0	
74.0	74.0	
64.0	64.1	
54.0	54.2	

Uncertainty : $\pm 0.1 \text{ dB}$



Calibration Certificate

Certificate No. 411103

Page 4 of 4 Pages

6. Level Linearity including the level range control (1 kHz, A, F)

UUT Range (dB)	Anticipated Value (dB)	UUT Reading (dB)	IEC 61672-1 Class 1 Spec.
14.0-94.0	94.0	93.8	± 0.8 dB
24.0-104.0		94.0	
34.0-114.0		94.0	
44.0-124.0		94.0	
54.0-134.0		94.0 (Ref.)	
64.0-144.0		94.1	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure: 1 008 hPa.
- 4. Microphone model: 4188, S/N: 2812706.

----- END -----



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	RION
Type No.:	NL-52 (Serial No.: 00921191)
Microphone:	RION UC-59 (Serial No.: 12910)
Preamplifier:	NH-25 (Serial No.: 32609)

Submitted by:

Customer: Action-United Environmental Services & Consulting Address: Unit A, 20/F, Gold King Industrial Building 35-41 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz - 8kHz)
□ Outside
the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 16 December 2024

Date of calibration: 20 December 2024

Date of NEXT calibration: 19 December 2025

Calibrated by: Calibration Technician

Date of issue: 20 December 2024

Certificate No.: APJ24-111-CC001

Certified by: Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	23.3 °C
Air Pressure:	1005 hPa
Relative Humidity:	25.1%

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS	

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Sett	ing of Uni	it-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Sett	ing of Un	it-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	Ref
50-150	uDA	SPL	Slow	54	1000	94.0	±0.3

Certificate No.: APJ24-111-CC001



Page 2 of 4



Frequency Response

Linear Response

Sett	ing of Uni	t-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.0	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.6	±1.6
					4000	92.8	±1.6
					8000	91.0	+2.1; -3.1

A-weighting

-	Setti	ing of U	Jnit-under-te	est (UUT)	Appl	Applied value		IEC 61672 Class 1				
	Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB				
						31.5	54.7	-39.4 ±2.0				
						63	68.0	-26.2 ± 1.5				
		30-130 dBA SPL		Fast						125	78.0	-16.1±1.5
						250	85.4	-8.6±1.4				
	30-130		SPL		94	500	90.8	-3.2 ± 1.4				
						1000	94.0	Ref				
						2000	94.8	$+1.2\pm1.6$				
						4000	93.8	$+1.0 \pm 1.6$				
						8000	90.1	-1.1+2.1; -3.1				

C-weighting

Sett	ing of U	nit-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.0	-3.0 ±2.0
				3	63	93.3	-0.8 ± 1.5
					125	93.9	-0.2 ± 1.5
					250	94.1	-0.0 ± 1.4
30-130	dBC	SPL	Fast	94	500	94.1	-0.0 ± 1.4
				а. С	1000	94.0	Ref
					2000	93.5	-0.2 ± 1.6
					4000	92.0	-0.8±1.6
					8000	88.1	-3.0 +2.1: -3.1



Certificate No.: APJ24-111-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Page 3 of 4



5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

	01 5 XX	
94 dB	31.5 Hz	± 0.15
	63 Hz	\pm 0.10
	125 Hz	± 0.05
	250 Hz	\pm 0.05
	500 Hz	± 0.05
	1000 Hz	\pm 0.05
	2000 Hz	\pm 0.05
	4000 Hz	\pm 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Certificate No.: APJ24-111-CC001

Page 4 of 4



Certificate No	o. 411106		Pa	ge 1 of 2 Pages		
Customer :	Action-Unltod Environmenta	I Services & consult	ing			
Address :	ddress : Unit A, 20/F, Gold King Industrial Building, 35-41 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong					
Order No. :			Date of rece			
Item Tested	k					
Description	: Sound Calibrator					
Manufacturer	: B&K		I.D.	: EQ082		
Model	: Type 4231		Serial No.	: 2713428		
Test Condi	tions					
Date of Test :	8-Nov-24		Supply Volta	age :		
Ambient Tem	perature : $(23 \pm 3)^{\circ}C$			nidity: (50 ± 25) %		
Test Specif	ications					
Calibration che	ck.					
The UUT has a	an indication that it conforms to	IFC 60942.2017 C	ass 1			
	/Procedure : F21, Z02, IEC 60					
Test Result						
All results were	within the IEC 60942 Class 1	specification				
	shown in the attached page(s	-				
Main Test equi	omentused					
Equipment No.		Cert. No.		Tananatia		
S240	Sound Level Calibrator	405380		Traceable to		
S014	Spectrum Analyzer	405219		NIM-PRC & SCL-HKSAR		
S041	Universal Counter	402289		NIM-PRC & SCL-HKSAR SCL-HKSAR		
S206	Sound Level Meter	405379		SCL-HKSAR		
overloading, mis-ha	this Calibration Certificate only relate wance for the equipment long term dri andling, or the capability of any other la age resulting from the use of the equi	in, variations with enviror aboratory to repeat the m	mental changes vibre	and any uncertainties quoted ation and shock during transportation, ong Calibration Ltd. shall not be liable		
The test results app	used for calibration are traceable to I bly to the above Unit-Under-Test only	nternational System of U	inits (SI), or by referen	ce to a natural constant.		
	AA			X L		
Calibrated by	Elva Chong	Aj	pproved by :	UNH		
This Certificate is issued b	0		ite: 8-Nov-24	Kin Wong		
		De	0-1101-24			

Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 411106

Page 2 of 2 Pages

Results :

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94.0	94.1	± 0.4 dB
114.0	114.0	

Uncertainty : $\pm 0.2 \text{ dB}$

Short-term Level Fluctuation : 0.0 dB IEC 60942 Class 1 Spec. : ± 0.1 dB Uncertainty : ± 0.05 dB

3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 60942 Class 1 Spec.
1	1.000	± 1 %

Uncertainty : \pm 3.6 x 10 ⁻⁶

4. Total Distortion + Noise : < 0.2 % IEC 60942 Class 1 Spec. : < 3.0 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 008 hPa.



Certificate N	lo. 411107		Pag	ge 1 of 2 Pages			
Customer	Customer: Action-Unltod Environmental Services & consulting						
Order No.			Date of recei				
Item Teste	d						
Description	: Sound Level Calibrator						
Manufacture			I.D.	: EQ085			
Model	: NC-73		Serial No.	: 10655561			
Test Cond	itions						
Date of Test	: 8-Nov-24		Supply Volta	ao .			
Ambient Ten	nperature : $(23 \pm 3)^{\circ}$ C			ge : hidity : (50 ± 25) %			
Test Speci	fications						
Calibration ch	leck						
	nt/Procedure : F21, Z02, IEC 60	942.2017					
	121, 202, 120 00	342.2017.					
Test Resul	ts						
The results ar	e shown in the attached page(s)).					
Main Test equ	lipment used:						
Equipment No	<u>Description</u>	Cert. No.		Traceable to			
S014	Spectrum Analyzer	405219		NIM-PRC & SCL-HKSAR			
S240	Sound Level Calibrator	405380		NIM-PRC & SCL-HKSAR			
S041	Universal Counter	402289		SCL-HKSAR			
S206	Sound Level Meter	405379		SCL-HKSAR			
overloading, mis-l	in this Calibration Certificate only relate owance for the equipment long term drii nandling, or the capability of any other la mage resulting from the use of the equip	t, variations with environme	intal changes vibrat	tion and chook during transportation			
The test equipme The test results a	nt used for calibration are traceable to Ir oply to the above Unit-Under-Test only	nternational System of Units	s (SI), or by referenc	ce to a natural constant.			
Calibrated by	·	-		X			
Sandrated by	Elva Chong	Арр	roved by :	Kin Wong			
This Certificate is issued	i by:	Date:	8-Nov-24				
Hong Kong Calibration L Unit 8B 24/F Well Fun	td. g Industrial Centre, No. 58-76. Ta Chuen Ring Stroot						

Unit 85, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 411107

Page 2 of 2 Pages

Results :

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	Tolerance
0.1.0		(Ref: IEC 60942 Class 2 Spec.)
94.0	94.1	± 0.4 dB

Uncertainty : $\pm 0.2 \text{ dB}$

2. Short-term Level Fluctuation : 0.0 dB

$$\label{eq:class_2_spec_} \begin{split} Tolerance_{(\,\text{Ref:}\,\text{IEC}\,60942\,\,\text{Class}\,2\,\,\text{Spec}.)} &: \pm \,0.15\,\,dB \\ Uncertainty &: \pm \,0.05\,\,dB \end{split}$$

3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	Tolerance
1	*0.952	$\frac{(\text{Ref: IEC 60942 Class 2 Spec.})}{\pm 1.7 \%}$

Uncertainty : \pm 3.6 x 10 ⁻⁶

4. Total Distortion + Noise : < 0.1 % Tolerance(Ref: IEC 60942 Class 2 Spec.) : < 3.0 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 008 hPa.
- 4. *Out of Tolerance.



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242239 證書編號

ITEM TESTED / 送檢項目	(Job No. / 序引編號:IC24-0561)	Date of Receipt / 收件日期: 28 March 2024				
Description / 儀器名稱 :	Sound Calibrator (EQ089)					
Manufacturer / 製造商 :	Rion					
Model No. / 型號 :	NC-75					
Serial No. / 編號 :	34680623					
Supplied By / 委託者 :	Action-United Environmental Services an	d Consulting				
	Unit A, 20/F., Gold King Industrial Build	ing,				
	35-41 Tai Lin Pai Road, Kwai Chung, N.	Г.				
TEST CONDITIONS / 測試條件						
Temperature / 溫度 : (2	$(3 \pm 2)^{\circ}$ C	Relative Humidity / 相對濕度 : (50 ± 25)%				
Line Voltage / 電壓 :	-					

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 April 2024

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed specified limits. These limits refer to manufacturer's published tolerances as requested by the customer. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	: H T Wong Assistant Engineer		
Certified By 核證	: K C Lee Engineer	Date of Issue : 簽發日期	22 April 2024

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Certificate of Calibration 校正證書

Certificate No. : C242239 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C233799 CDK2302738 C241879

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Limit	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.05	± 0.25	± 0.20

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Limit	(Hz)
1	1.000 0	$1 \text{ kHz} \pm 0.1 \%$	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Appendix F

Event and Action Plan

Event / Action Plan for construction dust

E		Action		
Event	ET	IEC	ER	Contractor
Action Level exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, ER and Contractor; Repeat measurement to confirm finding; and Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method; and Review and advise the ET and ER on the effectiveness of the proposed remedial measures. 	1. Notify Contractor.	 Identify source, investigate the causes of exceedance and propose remedial measures; Rectify any unacceptable practice and implement remedial measures; and Amend working methods agreed with ER if appropriate.
Action Level exceedance for two or more consecutive samples	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, ER and Contractor; Advise the ER and Contractor on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, ER and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; and If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; and Supervise and ensure remedial measures properly implemented. 	 Identify source, investigate the causes of exceedance and propose remedial measures; Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate.
Limit Level exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor, IEC and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; and Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ER and ET on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; and Supervise and ensure remedial measures properly implemented. 	 Identify source, investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance; Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate.
Limit Level exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise and ensure remedial measures properly implemented; and If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Identify source, investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance;



Event and Action Plan for Construction Noise

Encort	Action			
Event	ET	IEC	ER	Contractor
Action Level Exceedance	 Notify IEC, ER and Contractor; Carry out investigation; Report the results of 	 Review the analysed results submitted by the ET; Review the 	 Confirm receipt of notification of failure in writing; Notify Contractor; 	 Submit noise mitigation proposals to IEC and ER; and Implement noise
	 investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness. 	proposed remedial measures by the Contractor and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	 Require Contractor to propose remedial measures for the analysed noise problem; and Ensure remedial measures are properly implemented. 	mitigation proposals.
Limit Level Exceedance	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; and If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; and Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Appendix G

Impact Monitoring Schedule



Impact Monitoring Schedule for the Reporting Period

	0	NOISE MONITORING	AIR QUALITY	MONITORING
	Date	(0700 – 1900)	1-HOUR TSP	24-HOUR TSP
Tue	1-Apr-25			
Wed	2-Apr-25			\checkmark
Thu	3-Apr-25			
Fri	4-Apr-25			
Sat	5-Apr-25		\checkmark	
Sun	6-Apr-25			
Mon	7-Apr-25			
Tue	8-Apr-25			\checkmark
Wed	9-Apr-25			
Thu	10-Apr-25	\checkmark	\checkmark	
Fri	11-Apr-25			
Sat	12-Apr-25			
Sun	13-Apr-25			
Mon	14-Apr-25			√
Tue	15-Apr-25			
Wed	16-Apr-25	\checkmark	\checkmark	
Thu	17-Apr-25			
Fri	18-Apr-25			
Sat	19-Apr-25			
Sun	20-Apr-25			
Mon	21-Apr-25			
Tue	22-Apr-25	✓	\checkmark	
Wed	23-Apr-25			√
Thu	24-Apr-25	ļ		
Fri	25-Apr-25	<u> </u>		
Sat	26-Apr-25			
Sun	27-Apr-25	\checkmark		
Mon	28-Apr-25		¥	✓
Tue	29-Apr-25	<u> </u>		· · · · · · · · · · · · · · · · · · ·
Wed	30-Apr-25			

✓	Monitoring Day
	Sunday or Public Holiday



Impact Monitoring Schedule for next Reporting Period

	8	NOISE MONITORING	AIR QUALITY MC	DNITORING
	Date	(0700 – 1900)	1-HOUR TSP	24-HOUR TSP
Thu	1-May-25			
Fri	2-May-25		\checkmark	
Sat	3-May-25			✓
Sun	4-May-25			
Mon	5-May-25			
Tue	6-May-25			
Wed	7-May-25			
Thu	8-May-25	√	√	
Fri	9-May-25			✓
Sat	10-May-25			
Sun	11-May-25			
Mon	12-May-25			
Tue	13-May-25			
Wed	14-May-25	✓	✓	
Thu	15-May-25			✓
Fri	16-May-25			
Sat	17-May-25			
Sun	18-May-25			
Mon	19-May-25			
Tue	20-May-25	✓	✓	
Wed	21-May-25			✓
Thu	22-May-25			
Fri	23-May-25			
Sat	24-May-25			
Sun	25-May-25			
Mon	26-May-25	√	✓	✓
Tue	27-May-25			√
Wed	28-May-25			
Thu Eri	29-May-25		✓	
Fri	30-May-25		¥	
Sat	31-May-25			

✓	Monitoring Day
	Sunday or Public Holiday



Appendix H

Database of Monitoring Result



24-HOUR TSP MONITORING RESULT DATABASE

			13501			21110				SULI DATADA	BE				i
24-hour TS	P Monitorin	ig Data fo	r AMS1a												
	SAMPLE	ELV	APSED TIN	ME		CHART		AVG	AVG AIR	STANDARD	AIR	FILTER V		DUST WEIGHT	24-hr
DATE	NUMBER			VIL2		EADIN		TEMP	PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP ₃
		INITIAL		(min)		MAX		(°C)	(hPa)	(m^3/min)	$(std m^3)$	INITIAL	FINAL	(g)	$(\mu g/m^3)$
2-Apr-25		28823.96		1440	41	41	41	23.4	1019.1	1.48	2133	2.6758	2.7334	0.0576	27
8-Apr-25	21391	28847.96	28871.96	1440	41	41	41	26.7	1016.2	1.47	2123	2.6681	2.7234	0.0553	26
14-Apr-25	21421	28871.96	28895.96	1440	41	41	41	26.2	1012.9	1.47	2122	2.7339	3.1599	0.426	201
17-Apr-25	21122	28895.96	28919.96	1440	41	41	41	28.7	1014.7	1.47	2117	2.8018	2.8818	0.08	38
23-Apr-25	21464	28919.96	28943.96	1440	41	41	41	27.8	1009.3	1.47	2115	2.7345	2.8035	0.069	33
29-Apr-25	21457	28943.96	28967.96	1440	41	41	41	28.3	1013.5	1.47	2117	2.751	2.8095	0.0585	28
24-hour TS	P Monitorin	ng Data fo	r AMS-5												
	SAMPLE	FI A	Second State Second State<			CHAR		AVG	AVG AIR	STANDARD	AIR	FILTER V		DUST WEIGHT	24-hr
DATE	NUMBER					EADIN		TEMP	PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP
2 1 25							AVG	(°C)	(hPa)	(m^3/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
2-Apr-25		16893.03			39	39	39.0	23.4	1019.2	1.38	1989	2.8283	2.8939	0.0656	33
8-Apr-25	21392	16917.03	16941.03		39	39	39.0	26.7	1016.2	1.37	1978	2.6739	2.7751	0.1012	51
14-Apr-25	21423	16941.03			39	39	39.0	26.2	1012.9	1.37	1977	2.7455	3.4206	0.6751	341
17-Apr-25	21426	16965.03			39	39	39.0	28.7	1010.4	1.37	1970	2.7379	2.9233	0.1854	94
23-Apr-25	21462		17013.03		39	39	39.0	27.8	1009.3	1.37	1971	2.7456	2.8092	0.0636	32
29-Apr-25	21459	17013.03	17037.03	1440.00	39	39	39.0	28.3	1013.5	1.37	1973	2.7496	2.8196	0.0700	35
24-hour TS	P Monitorin	ng Data fo	r AMS-6												
	CAMDLE	EI A	APSED TIN	ME.		CHAR		AVG	AVG AIR	STANDARD	AIR	FILTER V	VEIGHT	DUST WEIGHT	24-hr
DATE	SAMPLE NUMBER					EADIN		TEMP	PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP ₂
		INITIAL		(min)			AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	(µg/m ³)
2-Apr-25			21984.10		42	42	42.0	23.4	1019.1	1.48	2136	2.6764	2.7400	0.0636	30
8-Apr-25			22008.10		42	42	42.0	26.7	1016.2	1.48	2125	2.6738	2.7950	0.1212	57
14-Apr-25			22032.10		42	42	42.0	26.2	1012.9	1.48	2124	2.7485	2.9941	0.2456	116
17-Apr-25	21432	22032.10	22056.10	1440.00	42	42	42.0	28.7	1010.4	1.47	2116	2.7616	2.8424	0.0808	38
23-Apr-25	21463		22080.10		42	42	42.0	27.8	1009.3	1.47	2117	2.7291	2.7989	0.0698	33
29-Apr-25	21460	22080.10	22104.10	1440.00	42	42	42.0	28.3	1013.5	1.47	2119	2.7601	2.8944	0.1343	63



24-hour TS	P Monitorir	ng Data for	r AMS-7												
	SAMPLE	FΙΔ	PSED TIN	ME		CHAR		AVG	AVG AIR	STANDARD	AIR	FILTER V	VEIGHT	DUST WEIGHT	24-hr
DATE	NUMBER			VIL	R	EADIN	IG	TEMP	PRESS	FLOW RATE	VOLUME	(g)	COLLECTED	TSP
	NUMBER	INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
2-Apr-25	21396	16763.32	16787.32	1440.00	41	41	41.0	23.4	1019.1	1.45	2092	2.6739	2.6956	0.0217	10
8-Apr-25	21394	16787.32	16811.32	1440.00	41	41	41.0	26.7	1016.7	1.45	2081	2.6897	2.7497	0.0600	29
14-Apr-25	21422	16811.32	16835.32	1440.00	41	41	41.0	26.2	1012.9	1.44	2081	2.7425	2.8012	0.0587	28
17-Apr-25	21121	16835.32	16859.32	1440.00	41	41	41.0	28.7	1010.4	1.44	2072	2.7957	2.9147	0.1190	57
23-Apr-25	21461	16859.32	16883.32	1440.00	41	41	41.0	28	1009.8	1.44	2073	2.7447	2.7757	0.0310	15
29-Apr-25	21458	16883.32	16907.32	1440.00	41	41	41.0	28.3	1013.5	1.44	2075	2.7605	2.7648	0.0043	2



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

uremen	nt Resul	lts (dB)	of NMS1																	
Start	19	st Leq (5min)	2nd	Leq (5	min)	3rd	Leq (51	nin)	4th	Leq (51	nin)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Leq30	Limit
	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	min,	Level
1 mie	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
11:29	72.9	77.6	57.1	69.7	73.2	54.1	67.3	72.2	54.9	68.4	73.0	54.8	71.0	76.9	53.6	71.1	75.9	53.4	70	70
9:00	69.5	73.8	58.4	70.1	75.2	58.9	68.5	73.1	57.3	71.2	75.6	57.5	70.5	75.0	56.7	70.4	75.6	56.0	70	70
13:10	65.8	67.5	56.5	61.6	65.5	54.5	63.1	66.5	56.5	64.4	67.0	55.5	62.8	66.5	54.5	63.7	67.5	56.0	64	70
9:00	72.0	67.6	61.9	69.7	73.4	58.1	68.0	70.6	58.2	69.5	72.8	63.9	68.6	71.1	59.5	68.7	73.1	56.7	70	70
	Start Time 11:29 9:00 13:10	Start Time Leq, dB(A) 11:29 72.9 9:00 69.5 13:10 65.8	Start Ist Leq (5 Leq, L10, dB(A) dB(A) 11:29 72.9 77.6 9:00 69.5 73.8 13:10 65.8 67.5 67.5 67.5	Time Leq, dB(A) L10, dB(A) L90, dB(A) 11:29 72.9 77.6 57.1 9:00 69.5 73.8 58.4 13:10 65.8 67.5 56.5	Ist Leq (5min) 2nd Leq, L10, L90, Leq, dB(A) dB(A) dB(A) dB(A) 11:29 72.9 77.6 57.1 69.7 9:00 69.5 73.8 58.4 70.1 13:10 65.8 67.5 56.5 61.6	Ist Leq (5min) 2nd Leq (5min) Leq, L10, L90, Leq, L10, L10, 11:29 72.9 77.6 57.1 69.7 73.2 9:00 69.5 73.8 58.4 70.1 75.2 13:10 65.8 67.5 56.5 61.6 65.5	Ist Leq (5min) 2nd Leq (5min) Leq, L10, L90, Leq, L10, L90, 11:29 72.9 77.6 57.1 69.7 73.2 54.1 9:00 69.5 73.8 58.4 70.1 75.2 58.9 13:10 65.8 67.5 56.5 61.6 65.5 54.5	Ist Leq (5min) 2nd Leq (5min) 3rd Leq, L10, L90, Leq, L10, L90, Leq, L10, L90, Leq, L10, L90, Leq, I10, Barry Barry	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Start Time $1 \le Leq (5 \min)$ $2nd Leq (5 \min)$ $3rd Leq (5 \min)$ $4th$ Leq, B(A) L10, B(A) L90, B(A) Leq, B(A) L10, B(A) L90, B(A) Leq, B(A) L10, B(A) L90, B(A) Leq, B(A) L90, B(A) Leq, B(A) B(A) B(A)	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Start Time Ist Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) Leq, B(A) L10, B(A) L90, dB(A) Leq, dB(A) L10, dB(A) L90, dB(A) Leq, B(A) L10, dB(A) L90, dB(A) Leq, dB(A) L10, dB(A) L90, dB(A) Leq, dB(A) L10, dB(A) L90, dB(A) Leq, dB(A) L90, dB(A) Leq, dB(A) L90, dB(A) Leq, dB(A) L90, dB(A) L90, dB(A) <th< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>Start Time 1st Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq, L10, L90, L90, Leq, L10, L90, L90, L90,</td><td>Start Time 1st Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq (5min) Start Time Leq, L10, L90, L90, Leq, L10, L90, <th< td=""><td>Start $I = 0$ Ist Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq (5min) Leq, L10, L90, L90, Leq, L90, L9</td><td>Start $I = 0$ $I = I = 0$ I</td></th<></td></th<>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Start Time 1st Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq, L10, L90, L90, Leq, L10, L90, L90, L90,	Start Time 1st Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq (5min) Start Time Leq, L10, L90, L90, Leq, L10, L90, <th< td=""><td>Start $I = 0$ Ist Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq (5min) Leq, L10, L90, L90, Leq, L90, L9</td><td>Start $I = 0$ $I = I = 0$ I</td></th<>	Start $I = 0$ Ist Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq (5min) Leq, L10, L90, L90, Leq, L90, L9	Start $I = 0$ $I = I = 0$ $I $

Noise Meas	uremei	nt Resu	lts (dB)	of NMS2																	
	Stant	19	st Leq (5	imin)	2nd	Leq (5	min)	3rd	Leq (5)	nin)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (5	min)	Leq30	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	min,	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
10-Apr-25	9:00	62.2	65.1	61.6	62.5	65.0	57.3	59.6	62.2	55.7	58.9	62.5	51.7	63.6	66.0	55.9	58.5	60.2	54.9	61	70
16-Apr-25	13:10	65.7	67.5	63.9	55.2	56.1	53.8	55.8	57.0	53.9	57.9	60.3	54.5	59.9	61.7	54.9	58.9	61.1	54.7	61	70
22-Apr-25	10:40	63.3	66.5	60.5	64.7	67.5	61.0	64.1	67.0	61.5	65.8	68.5	62.5	63.9	67.5	61.5	62.6	66.0	60.5	64	70
28-Apr-25	13:00	58.1	61.6	51.3	59.6	63.6	51.5	59.8	63.8	51.2	58.9	62.5	51.7	56.8	59.8	50.2	58.8	62.5	52.4	59	70

Noise Measu	uremer	nt Resu	lts (dB)	of NMS	53																
	Start	1st	Leq (5n	nin)	2nd	Leq (5)	min)	3rd	Leq (5	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (51	nin)	Log20min	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Thile	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
10-Apr-25	13:00	54.2	55.7	52.3	54.2	56.8	50.0	55.2	57.0	52.1	54.3	56.1	51.8	56.9	59.6	52.9	56.8	54.2	52.3	55	75
16-Apr-25	13:00	58.6	60.3	54.7	58.9	61.7	53.2	58.1	60.6	54.6	56.3	59.4	54.5	57.8	60.7	54.2	56.5	59.0	53.3	58	75
22-Apr-25	9:00	60.0	63.5	56.3	62.8	65.8	56.7	63.9	66.3	57.0	60.7	63.4	56.2	64.4	67.2	56.8	63.9	65.1	57.4	63	75
28-Apr-25	8:25	62.4	67.3	60.3	60.7	62.5	58.4	63.8	65.5	57.8	62.5	63.8	60.4	63.9	67.6	60.0	64.9	65.5	56.0	63	75

Noise Mea	sureme	ent Resi	ults (dB) of NM	[S4a																
	Start	1st	Leq (5r	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (5r	nin)	5th	Leq (51	nin)	6th	Leq (5	min)	Leq30m	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	in,	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
10-Apr-25	10:15	56.3	57.9	54.4	56.9	58.8	54.2	56.4	58.8	53.5	56.2	57.8	53.6	56.1	57.6	54.1	55.2	57.1	52.6	56	75
16-Apr-25	10:15	67.4	70.8	59.0	68.9	72.9	58.3	68.3	71.5	58.5	64.1	65.2	59.2	67.7	70.6	58.2	62.9	62.8	57.5	67	75
22-Apr-25	9:10	66.8	69.5	61.5	65.3	68.5	61.0	67.5	70.5	63.5	65.9	68.0	62.5	66.3	69.0	62.0	66.7	69.5	63.5	66	75
28-Apr-25	14:00	67.4	70.8	59.0	56.8	58.4	54.8	59.8	60.8	54.2	59.5	61.8	55.7	57.4	60.0	53.1	61.5	65.5	52.7	62	75

Noise Measu	urement	t Result	ts (dB)	of NMS	5																
	Start	1st	Leq (51	min)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (5)	nin)	5th	Leq (5	min)	6th	Leq (5	min)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
10-Apr-25	9:35	58.5	60.2	54.9	58.5	60.8	53.9	63.1	65.5	60.5	61.6	64.3	57.2	64.4	67.7	54.0	62.8	66.0	55.7	62	75
16-Apr-25	10:55	55.7	57.5	53.9	55.2	56.1	53.8	55.6	57.6	54.0	57.6	60.2	54.2	59.9	61.8	54.9	58.9	61.3	54.9	58	75
22-Apr-25	10:00	65.4	67.5	61.5	64.9	66.5	62.0	64.5	66.0	61.5	63.8	65.5	60.5	62.4	64.5	59.5	63.6	66.0	61.0	64	75
28-Apr-25	10:50	61.3	62.6	59.1	59.5	61.8	59.0	60.6	61.0	58.3	59.9	61.2	58.3	59.8	61.1	58.3	60.1	61.9	58.1	60	75

Noise Meas	uremei	1t Resu	lts (dB)	of NM	S6																
	Start	1st	Leq (5r	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (51	nin)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
10-Apr-25	13:35	68.4	70.5	65.5	65.3	66.4	63.4	65.8	68.5	60.5	67.2	69.5	61.6	64.8	71.7	65.6	69.5	71.6	65.5	67	75
16-Apr-25	10:20	62.8	64.5	59.0	63.4	65.6	58.5	64.2	66.9	60.4	64.7	66.3	60.5	63.5	65.9	60.4	64.1	67.7	59.3	64	75
22-Apr-25	9:45	66.2	70.6	60.8	67.1	71.8	60.9	64.8	68.5	60.5	60.1	63.5	57.3	61.7	64.6	58.5	64.3	66.9	58.8	65	75
28-Apr-25	10:28	68.2	72.0	65.0	66.6	70.0	64.5	65.4	68.5	62.5	65.6	70.5	63.0	66.3	70.0	63.0	67.2	70.7	64.0	67	75

Noise Measu	loise Measurement Results (dB) of NMS7																				
	Start	1st Leq (5min)		2nd Leq (5min)		3rd Leq (5min)		4th Leq (5min)		5th Leq (5min)		6th Leq (5min)			Leg30min,	Limit					
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)										
10-Apr-25	14:10	61.4	62.8	58.6	72.0	69.6	55.4	60.4	62.2	58.5	60.4	65.3	59.7	61.5	62.4	57.3	63.8	65.5	58.4	66	75
16-Apr-25	9:45	62.5	64.9	53.8	61.9	63.7	54.6	60.6	62.5	53.7	61.3	63.1	55.6	62.7	63.9	56.3	60.8	62.4	54.5	62	75
22-Apr-25	10:45	65.9	68.4	55.6	64.2	67.8	55.5	62.9	66.0	56.3	61.6	64.2	56.0	65.8	68.9	59.2	61.8	65.3	58.9	64	75
28-Apr-25	11:20	61.8	62.9	58.7	61.8	64.2	57.5	65.2	65.3	60.8	63.7	65.7	59.9	64.1	66.1	60.2	65.6	67.9	60.9	64	75

Noise Measu	Noise Measurement Results (dB) of NMS8																				
	Start	1st Leq (5min)		2nd Leq (5min)		3rd	3rd Leq (5min)		4th Leq (5min)		5th Leq (5min)			6th Leq (5min)			Log20min	Limit			
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(Ā)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(Å)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(Å)	dB(A)	dB(A)	uD(A)	dB(A)
10-Apr-25	14:40	59.7	62.6	54.7	62.3	54.2	54.0	57.0	70.7	54.4	66.5	71.1	55.3	54.9	62.1	51.9	58.1	61.1	52.4	62	75
16-Apr-25	14:15	60.3	64.5	54.1	59.9	62.7	54.5	62.4	66.3	54.8	59.9	62.6	55.6	61.3	64.4	55.7	60.8	62.9	57.5	61	75
22-Apr-25	13:10	68.7	73.5	64.4	67.1	72.3	64.0	63.4	67.3	61.9	62.3	65.8	61.5	61.4	64.4	57.2	63.9	66.4	60.1	65	75
28-Apr-25	15:00	60.3	64.3	53.7	59.8	63.2	54.6	64.2	65.2	55.3	58.9	62.5	51.7	56.8	59.8	50.7	58.8	62.5	52.4	60	75



NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Measurement Results (dB) of CN3

	Start	1st	1st Leq (5min)		2nd Leq (5min)		3rd Leq (5min)		4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Leq30min,	Limit		
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	$d\mathbf{R}(\mathbf{A})$	Level dB(A)
10-Apr-25	10:50	58.4	60.5	53.8	58.6	61.5	53.7	61.3	65.2	54.2	59.8	63.2	54.3	59.5	62.7	53.0	59.8	63.3	54.0	60	75
16-Apr-25	9:35	57.5	60.6	53.8	61.9	65.9	54.3	62.1	65.8	54.5	61.9	66.0	54.2	59.6	63.2	54.2	59.6	62.8	55.2	61	75
22-Apr-25	9:30	62.9	66.5	58.5	61.7	65.5	57.5	63.3	66.0	59.5	61.8	64.5	58.0	62.9	66.0	58.5	62.5	66.5	59.0	63	75
28-Apr-25	9:40	60.2	63.0	57.1	64.0	66.9	52.7	62.2	66.4	56.5	61.8	65.8	55.8	60.9	63.8	54.1	63.0	67.0	55.8	62	75

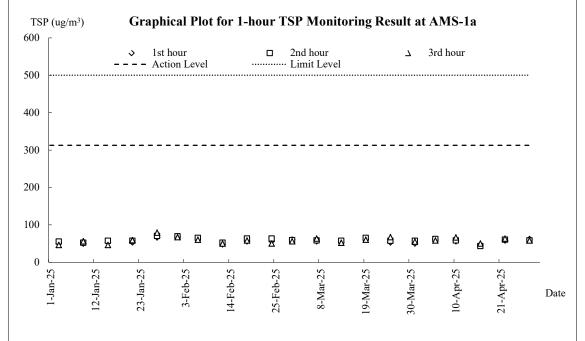


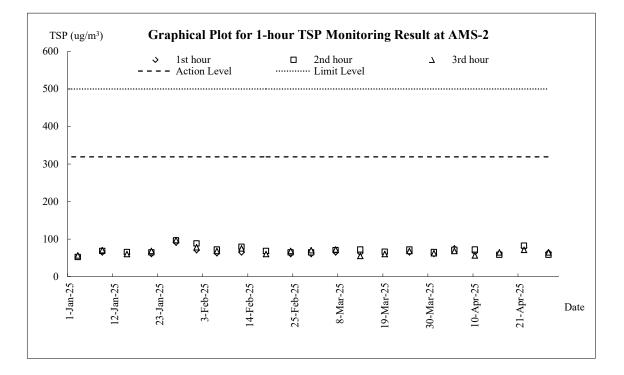
Appendix I

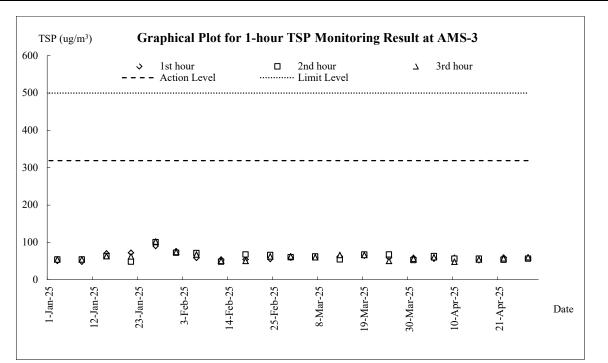
Graphical Plots for Monitoring Result



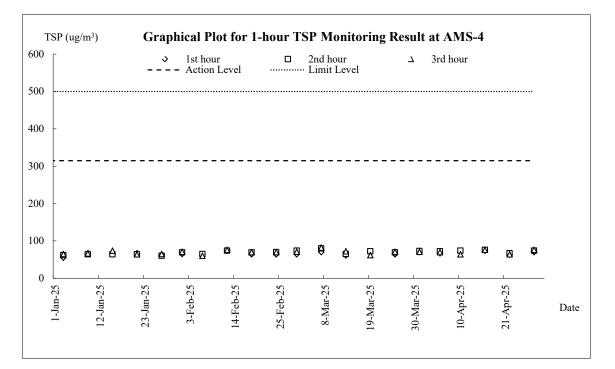
Air Quality – 1-hour TSP





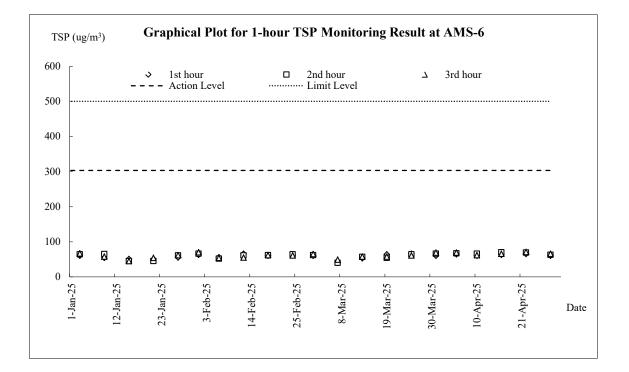


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Graphical Plot for 1-hour TSP Monitoring Result at AMS-5 TSP (ug/m³) 600 1st hour 2nd hour 3rd hour ১ ۲ Action Level Limit Level 500 400 300 200 100 Ô Ø Ø ð ۵ ₽ $\overline{\mathbf{Q}}$ ₿ ₿ ø ⋬ ₽ ∅ ∅ Ø Ð ₿ ⊠ Ø â 0 1-Jan-25 [2-Jan-25 23-Jan-25 3-Feb-25 l4-Feb-25 25-Feb-25 8-Mar-25 19-Mar-25 30-Mar-25 10-Apr-25 21-Apr-25 Date



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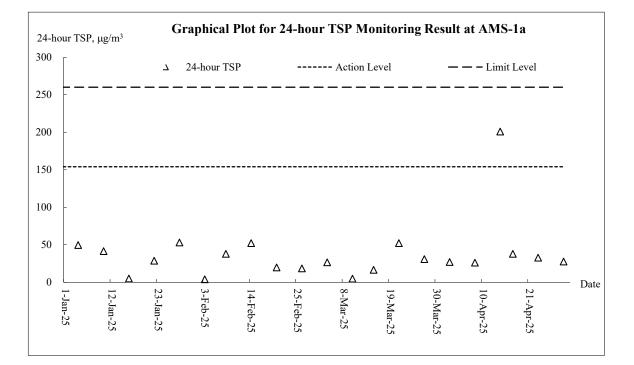


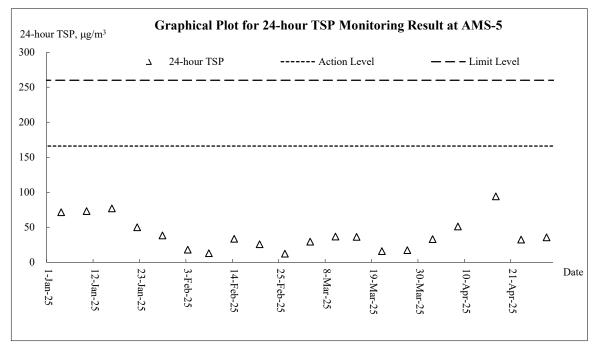
TSP (ug/m ³)	Graphi	cal Plot for 1	-hour TSF	• Monitorin	g Result at	AMS-7	
600		hour tion Level		nd hour Limit Level	۲	3rd hour	
500							
400 -							
300 =							
200 -							
	M 🗘 🗘	ô ô ô	666	8 <u>6</u> Ø	⊠ ⊉	6 <u>6</u> 6	R 🛛
0 1-Jan-25	23-Jan-25 -	3-Feb-25 - 14-Feb-25 -	25-Feb-25 ⁻	8-Mar-25 -	19-Mar-25 ⁻ 30-Mar-25 ⁻	10-Apr-25 ⁻	Date
1-J 12-J	23-J	3-F 14-F	25-Fe	8-M	19-M 30-M	10-A	Date Date

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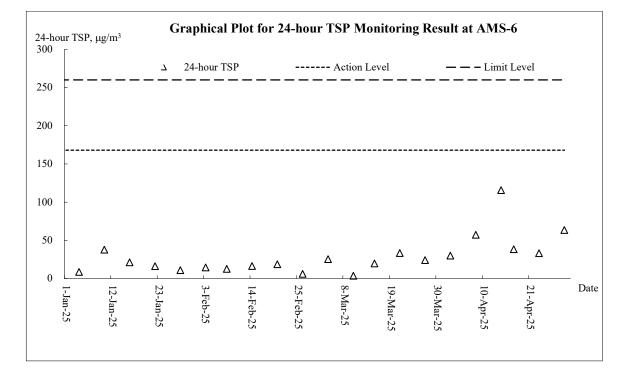


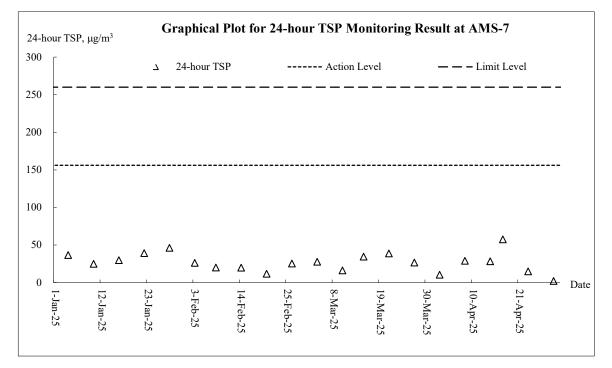
Air Quality – 24-hour TSP





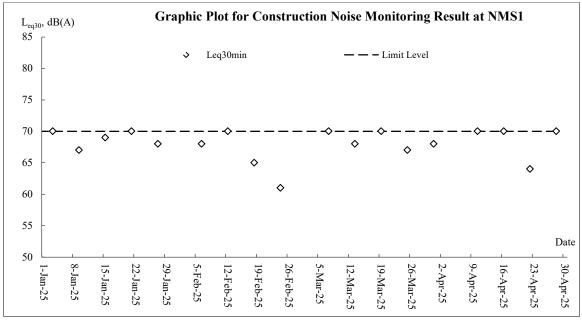


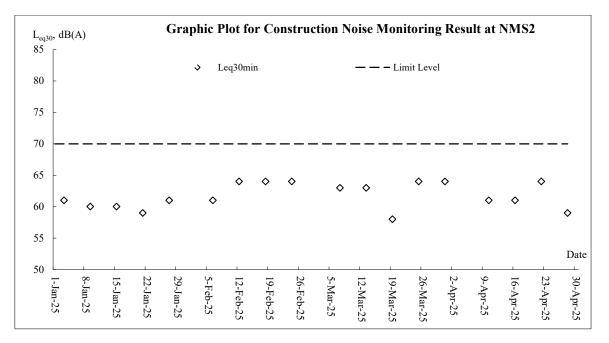


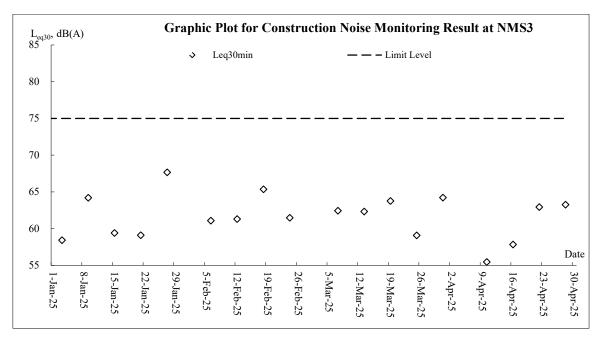




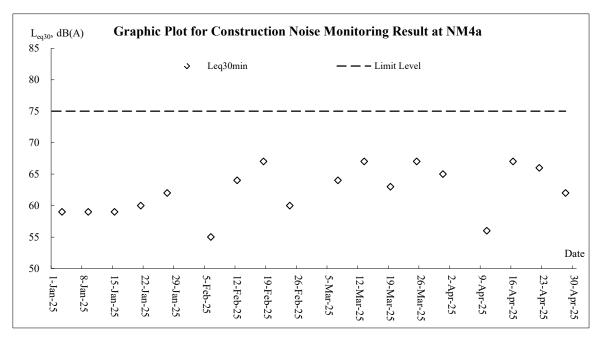
Noise

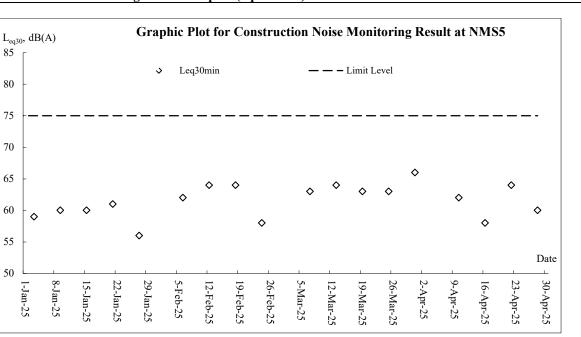




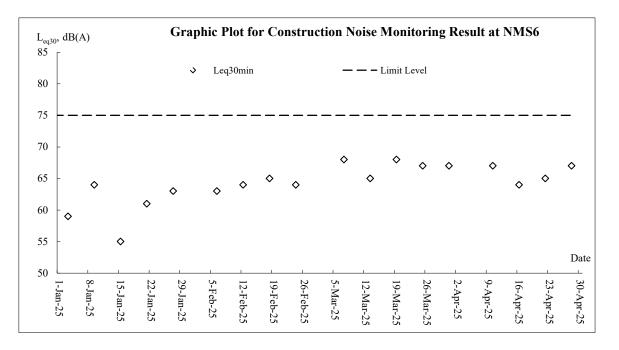


AUES

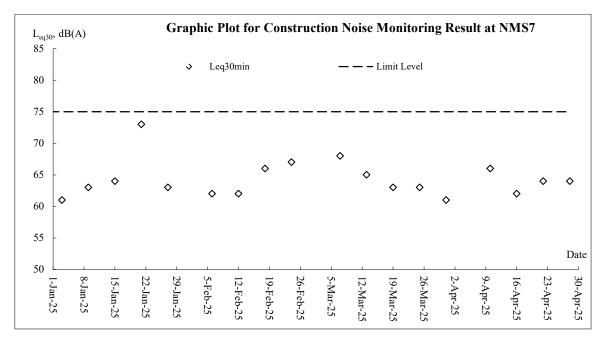


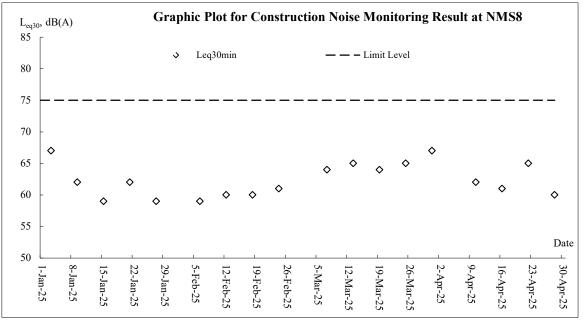


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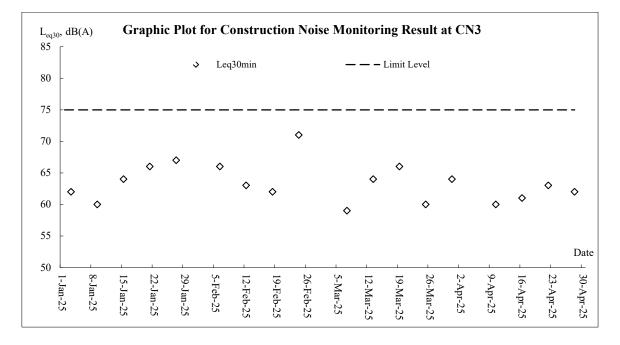














Appendix J

Meteorological Data



			Total	Kwun Tong Station	Kai Tal	k Station	King's Park Station
Date		Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Wind Direction	Mean Relative Humidity (%)
1-Apr-25	Tue	Sunny periods in the afternoon. Mainly cloudy	0	17.6	8.5	NW	65.5
2-Apr-25	Wed	Fine. Warm and very dry	0	18.1	11.2	S/SE	57
3-Apr-25	Thu	Moderate east to northeasterly winds.	0	20.3	10.5	S/SE	48
4-Apr-25	Fri	Mainly cloudy.	Trace	19.2	8.7	S/SE	51
5-Apr-25	Sat	Sunny intervals. Light to moderate easterly winds.	7.3	Maintena nce	8.1	SE	42.7
6-Apr-25	Sun	Sunny periods in the afternoon. Mainly cloudy	Trace	20.5	7.5	E/SE	68
7-Apr-25	Mon	Mainly cloudy.	0	21.8	11.7	E/SE	53
8-Apr-25	Tue	Light to moderate southerly winds.	0	22.3	8.7	SE	70
9-Apr-25	Wed	Rather warm during the day.	0	24.6	6.2	S/SE	75
10-Apr-25	Thu	Sunny intervals. Misty	0	25	6.2	W/SW	77.5
11-Apr-25	Fri	Sunny intervals. Light to moderate easterly winds.	Trace	25.4	6.2	S/SE	86.2
12-Apr-25	Sat	Light to moderate southerly winds.	6.9	22.8	7.5	NW	58.4
13-Apr-25	Sun	Rather warm during the day.	Trace	21.7	8.7	NW	28
14-Apr-25	Mon	Very dry at first.	0	23.3	8	W/SW	43
15-Apr-25	Tue	Very dry at first.	0	25.9	13	S/SE	49.5
16-Apr-25	Wed	Mainly cloudy.	0	24.2	14.5	SE	69
17-Apr-25	Thu	Sunny periods in the afternoon. Mainly cloudy	0	24.2	10.7	S/SE	77.5
18-Apr-25	Fri	Light to moderate southerly winds.	3.5	24.1	11.2	S/SE	76
19-Apr-25	Sat	One or two showers later.	0.1	26.4	8.9	SE	72.8
20-Apr-25	Sun	Hot with sunny periods.	0	27.5	7.1	N/NW	77.2
21-Apr-25	Mon	Hot with sunny periods.	0	26.7	8.2	W/SW	76
22-Apr-25	Tue	Hot with sunny periods	0	27.5	9	W/SW	78.5
23-Apr-25	Wed	Moderate southerly winds.	0	2.8	10	W/SW	75.7
24-Apr-25	Thu	Mainly cloudy.	0.5	28.1	9.5	SW	75.5
25-Apr-25	Fri	Sunny periods in the afternoon.	18.9	24.4	9.5	S/SE	90
26-Apr-25	Sat	One or two light rain	Trace	21.2	17.5	E/SE	86.5
27-Apr-25	Sun	Mainly cloudy.	0.8	21.4	7.5	E/SE	91.7
28-Apr-25	Mon			25.9	6.2	S/SE	83.7
29-Apr-25			0	24.4	15	E/SE	62.2
30-Apr-25	Wed	Moderate easterly winds.	0	25.1	11.5	S/SE	72.5



Appendix K

Waste Flow Table

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Contract No.: ED/2020/02

Monthly Summary Waste Flow Table for 2025

	Actual	Quantities o	f Inert C&D	Materials Ge	enerated Mor	nthly	Actual	Quantities of	C&D Waste	s Generated 1	Monthly
Month	Total Quantity of Materials Generated	Hard Rock, Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)**	(in '000 m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	$(in '000 m^3)^*$
Jan	3.641	0.000	0.000	0.000	3.641	0.000	0.000	0.000	0.000	0.000	0.065
Feb	1.533	0.000	0.000	0.000	1.533	0.000	0.000	0.000	0.000	0.000	0.071
Mar	1.216	0.000	0.000	0.000	1.216	0.000	0.000	0.000	0.000	0.000	0.099
Apr	1.028	0.000	0.000	0.000	1.028	0.000	0.000	0.000	0.000	0.000	0.045
May					**************************************			**************************************		 	
June											T I I I I
July											
Aug											
Sep											
Oct											
Nov											
Dec					**************************************			r I I I I			r I I I I
Total	7.417	0.000	0.000	0.000	7.417	0.000	0.000	0.000	0.000	0.000	0.280

Notes: * Conversion factor for general refuse, 1 tonne = $2m^3$

** Conversion factor for general fill, 2 tonne = $1m^3$

Estimation for next month



Appendix L

Implementation Schedule for Environmental Mitigation Measures

EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement the	Location of the		Imple	ementation S	Status	
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	measures?	measure	Contract	Contract 2	Contract 3	Contract	Contract 5
	Dust Impact (Contraction I								
S4.7.2 to S4.7.5	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.75 L/m^2 to achieve the respective dust removal efficiencies.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	V	V	V	V	V
S4.7.6	The Contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction ion Dust) Regulation.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	V	V	V	V	V
S4.7.6	 Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wet ted with water and cleared from the surface of roads; A stockpile of dusty materials should not be extend beyond the pedestrian barriers, fencing or traffic cones; The load of dusty materials on a vehicle leaving a construction ion site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; When there are open excavation and reinstatement 	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	@	@	@	@	@



			Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.		Recommended Mitigation Measures	Recommended Measures & Main	implement the	Location of the measure	<u> </u>				
			Concern to Address	measures?		Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
		works, hoarding of not less than 2.4m high should								
		be provided as far as practicable along the site boundary with provision for public crossing. Good								
		site practice shall also be adopted by the Contractor								
		to ensure the conditions of the hoardings are								
		properly maintained throughout the construction ion								
		period.								
	•	The port ion of any road leading only to								
		construction ion site that is within 30m of a vehicle entrance or exit should be kept clear of dusty								
		materials;								
	•	Surfaces where any pneumatic or power-driven								
		drilling, cutting, polishing or other mechanical								
		breaking operation takes place should be sprayed								
		with water or a dust suppression chemical								
		continuously;								
	•	Any area that involves demolition activities should be sprayed with water or a dust suppression								
		chemical immediately prior to, during and								
		immediately after the activities so as to maintain the								
		entire surface wet;								
	•	Where a scaffolding is erected around the perimeter								
		of a building under construction, effective dust								
		screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level								
		of the building, or a canopy should be provided								
		from the first floor level up to the highest level of								
		the scaffolding;								
	•	Any skip hoist for material transport should be								
		totally enclosed by impervious sheeting;								
	•	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered								
		entirely by impervious sheeting or placed in an area								
		sheltered on the top and the 3 sides;								
	•	Cement or dry PFA delivered in bulk should be								
		stored in a closed silo fit ted with an audible high								
	1	level alarm which is interlocked with the material								
		filling line and no overfilling is allowed; and								
	•	Exposed earth should be properly treated by compact ion, turfing, hydroseeding, vegetation								
		planting or sealing with latex, vinyl, bitumen,								
	I	planting of scaling with latex, vinyl, bitumen,								



EM&A	Decommonded Midiardian Manager	Objectives of the Recommended	W NO TO implement the	ne Location of the measure	Implementation Status					
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	implement the measures?		Contract	Contract 2	Contract 3	Contract	Contract 5	
	shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.									
S4.7.7	Implement regular dust monitoring under EM&A programme during the Construction phase.	Control construction airborne noise	Selected Representative dust monitoring station	All construction sites where practicable	V	N/A	V	N/A	N/A	
	Noise Impact (Contraction	Phase)						•		
\$5.6.9	 Implement the following good site management practices: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction ion programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direct ion, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction ion equipment should be properly fit ted and maintained during the construction ion works; mobile plant should be sited as far away from NSRs as possible and practicable; and material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site 	Control construction ion airborne noise	Contractor	All construction sites where practicable	@	V	V	@	@	
S5.6.11 to S5.6.13	construction activities. Use of "Quiet" Plant and Working Methods.	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	V	N/A	N/A	N/A	N/A	
\$5.6.14	Install temporary site hoarding (approx 2.5m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction ion noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	V	V	V	V	V	
S5.6.15 to S5.6.18	Install movable noise barriers, full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction ion sites where practicable	V	V	N/A	V	N/A	
S5.6.19	Sequencing operation of construction plants equipment.	Operate sequentially	Contractor	All construction	V	V	N/A	N/A	N/A	

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		Objectives of the				Imple	ementation §	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Contract	Contract	Contract	Contract	Contract
					1	2	3	4	5
		within the same work site to reduce the construction airborne noise		ion sites where practicable					
\$5.6.34	Implement temporary noise barrier along Road L4.	Further reduce the construction ion airborne noise	Contractor	Road L4 of ARQ	N/A	N/A	N/A	N/A	N/A
\$5.6.35	Implement a noise monitoring under EM&A programme.	Monitortheconstructionnoiselevels at the selectedrepresentativelocations	Contractor	Selected Representative Noise monitoring stations	V	N/A	V	N/A	N/A
В	Water Quality Impact (Cor								
S6.6.3	 <u>Construction Runoff</u> In accordance with the Practice Note for Professional Persons on Construction ion Site Drainage, Environmental Protect ion Department , 1994 (ProPECC PN 1/94), best management practices should be implemented as far as practicable as below: At the start of site establishment , perimeter cut -off drains to direct off-site water around the site should be constructed with internal drainage works. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or minimize polluted runoff. Sediment at ion tanks with sufficient capacity, constructed from preformed individual cells of approximately 6 to 8 m³ capacities, are recommended as a general mitigation measure which can be used for set t ling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped. 	Control construction runoff	Contractor	All construction sites	@	æ	@	@	V



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	 The dikes or embankments for flood protect ion should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt /sediment t rap. The silt /sediment t raps should be incorporated in the permanent drainage channels to enhance deposit ion rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction ion. Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sect ions wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. All open stockpiles of construction ion materials (for example, aggregates, sand and fill material) of should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to 								



			Objectives of the	Who to		Implementation Status						
EM&A Ref.		Recommended Mitigation Measures	Recommended Measures & Main	implement the measures?	Location of the measure	Contract	Contract	Contract	Contract	Contract		
			Concern to Address	incusui es.		1	2	3	4	5		
		prevent the washing away of construction ion										
		materials, soil, silt or debris into any drainage system.										
	•	Manholes (including newly constructed ones)										
		should always be adequately covered and										
		temporarily sealed so as to prevent silt, construction										
		ion materials or debris being washed into the										
		drainage system and storm runoff being directed into foul sewers.										
	•	Precautions to be taken at any time of year when										
	•	rainstorms are likely, act ions to be taken when a										
		rainstorm is imminent or forecasted, and act ions to										
		be taken during or after rainstorms are summarized										
		in Appendix A2 of ProPECC PN 1/94. Particular										
		attention should be paid to the control of silty										
		surface runoff during storm events.										
	•	All vehicles and plant should be cleaned before										
		leaving a construction ion site to ensure no earth,										
		mud, debris and the like is deposited by them on										
		roads. An adequately designed and sited wheel										
		washing facilities should be provided at every construction ion site exit where practicable.										
		Wash-water should have sand and silt settled out										
		and removed at least on a weekly basis to ensure the										
		continued efficiency of the process. The sect ion of										
		access road leading to, and exiting from, the										
		wheel-wash bay to the public road should be paved										
		with sufficient back all toward the wheel-wash bay										
		to prevent vehicle tracking of soil and silty water to										
		public roads and rains.										
	•	Oil interceptors should be provided in the drainage										
		system downstream of any oil/fuel pollution										
		sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and										
		grease into the storm water drainage system after										
		accidental spillage. A bypass should be provided for										
		the oil interceptors to prevent flushing during heavy										
		rain.										
	•	Construction ion solid waste, debris and rubbish on										
		site should be collected, handled and disposed of										
		properly to avoid water quality impacts.										



		Objectives of the	Who to	Location of the	Implementation Status						
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5		
S6.6.6 and	 All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bun ds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Not ices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the rivers. 	Handling of site	Contractor	All construction	V	V	V	V	V		
6.6.7	 Portable chemical toilets should be provided for handling the construction sewage generated by the workforce. Assume that the capacity of the chemical toilets would be 0.4m3 and suck up twice a day under normal practices, around 45 chemical toilets would be required for the whole site at peak hour. And it should be noted that under normal construction periods, less chemical toilets would be needed. In addition, the total number of the chemical toilets would be subject to later detailed design, the capacity of the chemical toilets, and contractor's site practices. Nevertheless, a licensed contractor should be employed to provide appropriate and adequate portable toilets to cater around 37.5 m3/day sewage and be responsible for appropriate disposal and maintenance. Since portable chemical toilets will be provided, no adverse water quality impact from the workforce sewage is anticipated. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction ion phase of the Project . Regular environmental audit on the construction ion site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause 	sewage		sites							



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract	Contract 2	Contract 3	Contract 4	Contract 5
	water quality impact after undertaking all required measure								
S6.6.8 and 6.6.9	Accidental Spillage To prevent accidental spillage of chemicals, proper storage and handling facilities should be provided. All the tanks, containers and storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and storm drains. The Contractor is required to register as a chemical waste producer if chemical wastes would be generated from the construction ion activities. Storage of chemical waste arising from the construction ion activities should be well managed with suitable labels an d warnings while disposal of those chemical wastes should be comply with the requirement states in Waste Disposal Ordinance (Cap 354) as well as Waste Disposal (Chemical Waste) (General) Regulations.	Prevention of accidental spillage	Contractor	All construction sites	@	V	V	V	V
S6.6.11- S6.6.14	Groundwater from Contaminated Area The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater discharge. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliancy to the TM-DSS and the existence of prohibited substance should be confirmed after further SI. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with TMDSS or properly recharged into the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. Petroleum Carbon Ranges (PCRs)). All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be	Minimize contaminated groundwater impacts	Contractor	All construction sites	N/A	N/A	N/A	N/A	N/A



EM&A	Recommended Mitigation Measures	implement the	Location of the	Implementation Status					
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The								
	recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Sect ion 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to								
	the select ion of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement . Pollution levels of								
	groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as PCRs should be removed as necessary by installing the petrol interceptor.								
	Waste Management (Contr	action Phase)	<u> </u>						
\$8.5.2	 <u>Good Site Practice</u> The following good site practices are recommended throughout the construction ion activities: nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collect ion and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; provision of sufficient waste disposal points and regular collect ion for disposal; appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 	Minimize waste generation during construction	Contractor	All construction sites	V	@	V	@	V
S8.5.2 (6)	The contractor should submit a Waste Management Plan	Minimize waste	Contractor	All construction	V	V	V	V	V



EM&A		Objectives of the Recommended	Who to	Location of the measure	Implementation Status					
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	implement the measures?		Contract 1	Contract 2	Contract 3	Contract 4	Contract 5	
	(WMP) as part of the Environmental Management Plan (EMP) in accordance with the <i>ETWB TC(W) No. 19/2005</i> for construction ion phase. The EMP should be submit ted to the Engineer for approval. Mitigation measures proposed in the EIA Report and the EM&A Manual should be adopted.	generation during construction		sites						
\$8.5.3	 Waste Reduction Measures Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction: segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling o materials and their proper disposal; proper storage and site practices to minimize the potential for damage and contamination of construction ion materials; plan and stock construction ion materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable port ions (i.e. soil, broken concrete, metal etc.); 	Reduce waste generation	Contractor	All construction sites where practicable	V	V	V	V	V	
S8.5.5	 <u>Storage of Waste</u> The following recommendation should be implemented to minimize the impacts: waste such as soil should be handled and stored well to ensure secure containment; stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; different locations should be designated to stockpile each material to enhance reuse; 	Minimize waste impacts from storage	Contractor Contractor	All construction sites	V	V	V	V	V	
S8.5.6	<u>Collection and Transportation of Waste</u> The following recommendation should be implemented to minimize the impacts:	Minimize waste impacts from storage	Contractor	All construction sites	V	@	V	@	@	



EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement the	Location of the measure	Implementation Status						
Ref.		Measures & Main Concern to Address	measures?		Contract 1	Contract 2	Contract 3	Contract	Contract 5		
	 remove waste in timely manner; employ the trucks with cover or enclosed containers for waste transportation; obtain relevant waste disposal permits from the appropriate authorities; and disposal of waste should be done at licensed waste disposal facilities. 										
S8.5.8	 Excavated and C&D Material Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at public filling areas or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&D materials: maintain temporary stockpiles and reuse excavated fill material for backfilling; carry out on-site sorting; make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; implement a recording system for the amount of waste generated, recycled and disposed of for checking; The recommended C&D materials Reuse of C&D materials Use of Standard Formwork and Planning of Construction Materials purchasing Provision of wheel wash facilities 	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites	V	V	V	V	V		
S8.5.15	Contaminated Soil As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.	Remediate contaminated soil	Contractor	All construction sites where applicable	V	V	N/A	N/A	N/A		
S8.5.17	Chemical Waste	Control the chemical	Contractor	All construction	V	V	V	V	V		



EM&A	December ded Mittartier Measure	Recommended Measures & Main implem	Who to	Location of the		Imple	ementation S	Status	
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	implement the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	• If chemical wastes are produced at the construction ion site, the Contractors should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Cent re, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	waste and ensure proper storage, handling and disposal.		sites					
\$8.5.18	 <u>General Waste</u> General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling. Preferably enclosed and covered areas should be provided for general refuse collect ion and routine cleaning for these areas should also be implemented to keep areas clean. A reputable waste collector should be employed to remove general refuse on a daily basis. 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	@	V	V	V	@
S8.5.19	 Sewage The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities. Regularly collect ion by licensed collectors should be arranged to minimize potential environmental impacts. 	Minimize production of sewage impacts	Contractor	All construction sites	V	V	V	V	V
	Ecology (Contraction Phase						L	•	L
S. 10.7.2 to 10.7.6	Re-provision of Wooded Area for ecological function at the future Quarry Park.	Compensate for the loss of three woodland patches of a total area of about 1.13ha.	Contractor/ Detailed Design Consultant (qualified botanist / horticulturist / Certified Arborist to supervise the planting).	Northern part of the proposed Quarry Park.	N/A	N/A	N/A	N/A	N/A

		Objectives of the Who to			Imple	ementation S	Status		
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Contract	Contract 2	Contract 3	Contract 4	Contract 5
.10.7.10	 Construction phase in situ mitigation measures to minimize impacts on hydrological condition and water quality of hillside watercourses include: Temporary severage and drainage will be designed and installed to collect wastewater and prevent it from entering nearby watercourses; Proper locations well away from nearby watercourses will be used for temporary storage of materials (i.e. equipment, fill materials, chemicals and fuel) and temporary stockpile of construction debris and spoil, and these will be identified before commencement of works; To prevent muddy water entering nearby watercourses, work sites close to nearby watercourses will be isolated, using such items as sandbags or silt curtains with lead edge at bot tom and properly supported props. Other protective measures will also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the works site; Stockpiling of construction materials, if necessary, will be properly covered and located away from nearby watercourses; Erection of temporary geotextile silt fences will be carried out around earth-moving works to trap any sediments and prevent them from entering watercourses; Construction debris and spoil will be covered and/or properly disposed as soon as possible to avoid being washed into nearby watercourses; Exposed soil will be covered as quickly as possible following format ion works, followed, where appropriate, by covering with biodegradable geotextile blanket for erosion control purposes; Where appropriate, earth-bunding will be carried out on works, followed, where appropriate, earth-bunding will be carried out of areas where soils have been disturbed or where vegetation has been cleared, to ensure that surface runoff will not move soils off-site; Construction ion effluent, site run-off and sewage will be probably collected and/or treated. Wastewater from any construction ion site will be 	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	V	N/A	V	V	N/A



EM&A		Objectives of the Recommended	Who to	Location of the	Implementation Status					
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	implement the measures?	measure	Contract 1	Contract 2	Contract 3	Contract	Contract 5	
	 minimised via the following in descending order: reuse, recycling and treatment; Proper locations for discharge out lets of wastewater treatment facilities well away from sensitive receivers will be identified and used; Silt traps will be installed at points where drainage from the site enters local watercourses; Appropriate sanitary facilities for on-site workers will be provided; The site boundary will be clearly marked and any works beyond the boundary strictly prohibited, and Regular water monitoring and site audit will be carried out at suitable points. If the monitoring and audit results show that pollution occurs, adequate measures including temporary cessation of works will be considered. 									
S.10.7.11	 Implement an emergency contingency plan during the construction phase and the plan will include, but not be limited to, the following: Potential emergency situations; Chemicals or hazardous materials used on-site (and their location); Emergency response team; Emergency response procedures; List of emergency telephone hot lines; Locations and types of emergency response equipment, and Training plan and testing for effectiveness. 	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	N/A	N/A	N/A	N/A	N/A	
	Landscape and visual (Con			T	I	I	I.	T	I	
S11.14.23, Table 11.9, CM1 [4]	All existing trees to be retained shall be carefully protected during construction.	Avoid disturbance and protection of the existing trees	Detailed Design Consultant /	The whole project area where applicable	V	V	@	V	@	
S11.14.23, Table 11.9, CM2 [3]	Tree Transplantation - Should removal of trees be unavoidable due to construction impacts, trees will be transplanted or felled. Detailed transplanting proposal will be submit ted to relevant government departments for approval in accordance with LAO GN No. 7/2007, ETWB TCW No. 29/2004 and 10/2013. Final locations of transplanted trees shall be agreed prior to commencement of the work.	Minimize landscape impact and retention of landscape resources	Detailed Design Consultant /	Onsite where possible. Otherwise consider offsite locations	*	N/A	N/A	V	V	

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status				
Kel.		Concern to Address	measures?	measure	Contract	Contract	Contract	Contract	Contract 5
\$11.14.23,	Control of an arotion night time alone with well alonged	Minimize glare	Contractor/	The whole	I V	<u> </u>	3	4 V	N/A
	Control of operation night -time glare with well-planned	U			v	v	(a)	v	1N/A
Table 11.9,	lighting operation system to minimize potential glare	impact to	CEDD	project area					
CM3 [4]	impact to adjacent VSRs	adjacent VSRs		where					
				applicable					
S11.14.23,	Erection of decorative screen hoarding.	Minimize visual	Contractor/	The whole	N/A	N/A	N/A	N/A	N/A
Table		impact	CEDD	project area					
11.9, CM		•		where					
[4]				applicable					
S11.14.23,	Minimise disturbance and limitation of run-off -	Minimize visual	Contractor/	The whole	V	V	V	V	N/A
Table	temporary structures and construction works should be	impact	CEDD	project area					
11.9, CM5	planned with care to minimize disturbance to adjacent			where					
[2]	landscape, vegetation, natural stream habitats.			applicable					

Legend: V = implemented; x = not implemented; @= partially implemented; * = pending to be implemented; N/A = not applicable



Appendix M

Complaint Log



Appendix M1 Cumulative Complaint and Summons/ prosecution

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/ Prosecution in Reporting Month
March 2017	1	0
April 2017	0	0
May 2017	0	0
June 2017	2	0
July 2017	3	0
August 2017	3	0
September 2017	4	0
October 2017	2	0
November 2017	3	0
December 2017	3	0
January 2018	1	0
February 2018	4	0
March 2018	0	0
April 2018	2	0
May 2018	1	0
June 2018	1	0
July 2018	0	0
· · · · · · · · · · · · · · · · · · ·		0
August 2018	1	0
September 2018	-	
October 2018	1	0
November 2018	3	0
December 2018	2	0
January 2019	2	0
February 2019	3	0
March 2019	1	0
April 2019	0	0
May 2019	0	0
June 2019	1	0
July 2019	1	0
August 2019	1	0
September 2019	0	0
October 2019	1	0
November 2019	4	0
December 2019	0	0
January 2020	0	0
February 2020	0	0
March 2020	4	0
April 2020	1	0
May 2020	1	0
June 2020	1	0
July 2020	0	0
August 2020	0	0
September 2020	0	0
October 2020	0	0
November 2020	1	0
December 2020	2	0
January 2021	1	0
February 2021	0	0
March 2021	2	0



A	1	0
April 2021		0
May 2021 June 2021	1	0
July 2021	1	0
	-	0
August 2021	0	
September 2021 October 2021	2	0 0
November 2021	0	0
	0	0
December 2021	0	
January 2022	0	0
February 2022	0	0
March 2022	1	0
April 2022	1	0
May 2022	3	0
June 2022	2	0
July 2022	0	0
August 2022	2	0
September 2022	1	0
October 2022	1	0
November 2022	0	0
December 2022	0	0
January 2023	0	0
February 2023	0	0
March 2023	0	0
April 2023	0	0
May 2023	1	0
June 2023	0	0
July 2023	1	0
August 2023	0	0
September 2023	0	0
October 2023	0	0
November 2023	0	0
December 2023	0	0
January 2024	1	0
February 2024	0	0
March 2024	0	0
April 2024	1	0
May 2024	2	0
June 2024	0	0
July 2024	0	0
August 2024	0	0
September 2024	1	0
October 2024	0	0
November 2024	0	0
December 2024	1	0
January 2025	1	0
February 2025	1	0
March 2025	0	0
April 2025	0	0
Overall Total	91	0



Appendix M2 Complaint Log

Log ref.	Date of Complai nt	Receive		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
1	23-Mar-1 7	X-111n-17	On Tat Estate	Residen t of On Tat Estate	Construction noise	SPRO hotline	NA	House reported that some night works with noise and flashing caused nuisance to	According the incident report conducted by the CWSTVJV, demobilization of crawler crane was undertaken on 23 March 2017 11pm and it is TD requirement to carry out demobilization of heavy machine at nighttime. It is considered this complaint was a single incident and would not be happened again in future.	no comment	TCS00864/ 16/300/F00 87
2	28-Jul-17	28 Jul 17	38/F of Yin Tat House (賢達樓), On Tat Estate		Construction noise	SPRO hotline	NA	Mr. Hsu received a complaint from a resident living in the flat on 38/F of Yin Tat House (賢達樓), On Tat Estate. The resident complained about the noise level of our works during daytime.	Noise monitoring by Contractor was conducted in Yin Tat House, On Tat Estate, at around 2 pm on 28-Jul-2017. Another noise monitoring was carried out by ET (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 10 am on	no comment by IEC on 9 Aug 2017	TCS00864/ 16/300/F00 60
3	29-Aug-1 7			Residen t of On Tat Estate	Construction noise	SPRO hotline	NA	Mr. Hsu Yau Wai (Tel no.9519 5663) reported that he received complaint from a resident (Ms Cheng) living at Shing Tat House 24/F Room 22 about the noise generated from our site this week. The noise heard was mainly rock breaking noise from our site.	Noise monitoring was carried out by ET (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 3pm on 30-Aug-2017. No exceedance of noise was recorded. The complainant was satisfied about the monitoring results.	no comment by IEC on 8 Sep 2017	TCS00864/ 16/300/F00 81



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
4	21-Jun-1 7	$/\mathbf{y}_{-}\Delta \mathbf{u}_{-}\mathbf{r}_{-}\mathbf{r}_{-}$	Tat Yan House, Po Tat Estate		a	EPD		of breakers (8am to 6pm)	Since these two complaints were forwarded by CEDD to ET on 31 August 2017 which way after the complaint dates. Investigation would be conducted based on the site information by the Contractor of Contract 1 - NE/2016/01 (CWSTVJV) as		TCS00864/ 16/300/F00 93
5	22-Jun-1 7	$\gamma \mathbf{Q}_{-} \Delta \mathbf{u} \boldsymbol{\sigma}_{-} \mathbf{I}$	Tat Yan House, Po Tat Estate	t of Po Tat	Dust & Construction noise	EPD	N08/RE/ 0001942	6PM). Requested to delay the operating hour of breakers to 10AM or 11AM	well as the observation during weekly site inspection carried out ET during June 2017. In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.	no comment by IEC on 3 Nov 2017	TCS00864/ 16/300/F00 93
6	15-Jul-17		Tat Y1 House, Po Tat Estate		Constantion	EPD	EPD (ref.N08/ RE/0002 2479-17)	Construction noise	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident, CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.	by IEC on 3 Nov	TCS00864/ 16/300/F00 94
7	28-Jul-17	29-Aug-1 7	Anderson Road	unknow n	Dust	EPD	EPD (ref.N08/ RE/0002 3986-17)	Poor control on dust emission at Anderson Road Construction Site	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident and status of the implementation of dust mitigation measures was considered effective based on the site observation.		TCS00864/ 16/300/F00 97



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
8	2-Aug-17	29-Aug-1 7	Chun Tat House, On Tat Estate		Construction noise	EPD	EPD (ref.N08/ RE/0002 4557-17)	Day time construction noise of breakers (8AM to 6PM)	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in August 2017, there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should further enhance the noise mitigation measures as appropriately. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.		TCS00864/ 16/300/F00 98
9	19-Sep-1 7	19-Sep-1 7	Sau Mau Ping Estate Sau Nga		Construction	SPRO hotline	NA	38/F. He complained about the noise nuisance recently from August to September especially during night time after 12:00 am, even in Saturdays and Sundays. The noise nuisance caused a great disturbance to him. He made a request to	ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme.	by IEC on	TCS00864/ 16/300/F00 88



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
10	21-Sep-1 7	13-Oct-1 7	Sau Nga House and	Residen t of Sau Mau Ping Estate	Construction noise	EPD	EPD (ref.N08/ RE/0003	On 21 September 2017, the same complaint further reported that the noise can be heard at both Sau Yee House and Sau Nga House even in daytime and he strongly requested the Contractor to follow up the case immediately.	ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme.		TCS00864/ 16/300/F00 88
11	27-Sep-1 7	I 3-Oct-I	Chun 1 at House, On Tat Estate	Residen t of On Tat Estate	Construction noise	EPD	EPD (ref.N08/ RE/0002	operating in the afternoon. He requested to shift the operation of the breakers to afternoon	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in September and October 2017,	20	TCS00864/ 16/300/F01 06
12	3-Oct-17	13_0ct_1	Chun Tat House, On Tat Estate		Construction	EPD	EPD (ref. N08/RE/ 0003240 7-17)	Day time construction noise, the complainant requested using less breaker at one time, erecting taller noise barrier to cover the equipment. In addition, the complainant would like to	resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control	no comment by IEC on 30 Nov 2017	TCS00864/ 16/300/F01 06
13	25-Oct-1 7	26-Oct-1 7		Residen t of Po Tat	Dust	EPD	NA	落泥,令他達貴樓的住所	Investigation revealed that CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the	no comment by IEC on	TCS00864/ 16/300/F01 00



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				Estate					nearby resident. Nevertheless, based on the observation during site inspection on 31 October 2017, CWSTVJV was advised to enhance the dust mitigation measures particularly during dry season.	15 Nov 2017	
14	6-Nov-17	7-Nov-17	Chun Tat House, On Tat Estate	Residen t of On Tat Estate		EPD	NA	安達邨俊達樓居民投訴石 礦場地盤又再於早上 07:45 開始傳出機器不停 揼石的噪音(幾乎每日在 08:00-19:00 進行工程),已 持續一年,他全家人受到 滋擾。	Ad-hoc noise measurement was conducted by ET at rooftop of Chun Tat House in the morning of 20 November 2017 and measurement result was below the Limit Level under the EM&A Programme. CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Since	no comment by IEC on 30 Nov 2017	TCS00864/ 16/300/F01 09
15	13-Nov-1 7	14-Nov-1 7	Chi Tai House, On Tai Estate	Mr. Lam Wai	light pollution and noise	SPRO hotline	NA	 百家棲面回安莲豆地 盤方向,有照射燈深夜時 分仍然常開,影響居民正 常睡眠質素,照成一定的 精神壓力。 隔音布未固定,大風吹 過發出極大的聲浪 		comment	TCS00864/ 16/300/F01 04



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
16	1-Nov-17	14 - NOV - 1	Shing Tat House, On Tat Estate		Noise	EPD		居住於安達邨誠達樓高層 的投訴人投訴由早上八時 半至下午六時聽到揼鐵噪 音。	As advised by the Contractor, the works that most likely induced the iron hammering noise to Shing Tat House shall be the rock breaking works to the hard rock of the Southeastern side of the Underground Stormwater Retention Tank. CWSTVJV had already deployed the acoustic mat as noise barrier at the site boundary near Shing Tat House. To enhance the noise mitigation measures, CWSTVJV deployed an acoustic mat as noise barrier for the breaking work in order to reduce construction noise affecting the upper floor of On Tat Estate Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment	TCS00864/ 16/300/F01 10
17	25-Aug-1 7	26-Oct-1 7	Sau Yee House, Sau Mau Ping Estate	Residen t of Sau Mau Ping Estate	Construction Noise	EPD	(101.1008)	Night time construction noise of hammering (around 12AM)	As advised by CWSTVJV, there was a CNP (GW-RE0763-17) in force for the subject site for operation of generator and electric submersible water pump for the wastewater treatment plant and it is considered that abovementioned PMEs should not generate significant noise. Moreover, it is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out after 19:00 at the subject site. Therefore, the complaint about noise nuisance during night time should not be related to the Project.		TCS00864/ 16/300/F01 14



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
18	12-Sep-1 7	26-Oct-1 7	Chun Tat House, On Tat Estate	t of On	Construction Noise	EPD		Day time construction noise of breakers (8AM to 5PM)	Noise mitigation measures were implemented to reduce the noise impact to the nearby resident. According to the impact noise monitoring result in September 2017, there were no breaches of EM&A requirement. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 10 Jan 2018	TCS00864/ 16/300/F01 17
19	15-Dec-1 7		Sau Yee House	Residen t of Sau Mau Ping Estate	Construction Noise	EPD	NA	complained suspected construction noise from Anderson Construction Site at restricted hour (7pm	It is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out after 19:00 at the subject site. Therefore, the complaint about noise nuisance during night time should not be related to the Project.	no comment by IEC on 10 Jan 2018	TCS00864/ 16/300/F01 18
20	20-Dec-1 7		On Tat Estate	Residen t of On Tat Estate	Dust	EPD	NA	generated dust problem and arouse air pollution to On Tat Estate. 投訴安達 臣道信和地盤水車已經壞 了十多天,一直無灑水, 四周非常大塵。 投訴人 住於安達邨,投訴安達戶	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. It is considered that the complaint was an isolated case due to malfunction of water tanker and CWSTVJV has promptly rectified the deficiency. As advised by CWSTVJV, another water tanker will be deployed in mid-January 2018 to enhance the dust suppression measures throughout the construction site.	no comment by IEC on 25 Jan 2018	TCS00864/1 6/300/F0121
21	28-Dec-1 7		Sau Yee House	Residen t of Sau	Construction Noise	CE's office	NA	日間及凌晨均聽到轟隆聲	ET has conducted an ad-hoc noise measurement for Leq (30min) in the	no comment	TCS00864/1 6/300/F0129



Log ref.	Date of Complai nt		Complaint Location	-	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				Mau Ping Estate				先生表示居於秀茂坪邨秀 義樓,指附近的安達臣道 一個由土木工程拓展署管 轄的石礦場不時於非允許 時段(即晚上七時後至翌 日早上)發出疑似打地基	January 2018.It was noted that the complainant's flat is not in direct line of sight to the Anderson Road Quarry Site. The measurement noise result was below the Limit Level under the EM&A Programme. Moroever, it is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out during restricted hour at the subject site. Therefore, the complaint about noise nuisance during restricted hour should not be related to the Project.	by IEC on 8 Feb 2018	
22	15-Jan-1 8	15-Jan-1 8	Chun Tat House	Residen t of Chun Tat House of On Tat	Construction Noise	SPRO mobile	NA	construction noise of breaking rock for a long time and strongly requested to know exactly when will be the	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in January 2018, there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to	no comment by IEC on 8 Feb 2018	TCS00864/1 6/300/F0130



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				Estate, 40/F				works opposite to Chun Tat House. She said we should do more on the mitigation measures because our site is very	the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.		
23	1-Feb-18	2-Feb-18	Chi Tai House of On Tai Estate	Residen t of On Tai Estate (referre d by Mr. Lam Wai)	Construction	SPRO hotline	NA	"智泰對出,白天噪音過 大,可否加裝隔音板?高層 受影響"	the Environmental Team has conducted an ad-hoc noise measurement for Leq(30min) at the corridor of 22/F of Chi Tai House on 2 February 2018 facing the construction site. The measurement noise result was 65dB(A) which below the Limit Level under the EM&A Programme. In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in January 2018, there were no breaches of EM&A requirement.	no comment by IEC on 22 Feb 2018	TCS00864/1 6/300/F0137
24	1-Feb-18	2-Feb-18	Shing Tat House of On Tat Estate	Iratarra	Construction	SPRO hotline	NA	Mr. Hsu reported that some disturbing noise was heard after 6:00 pm from the site near Shing Tat House of On Tat Estate.	AECOM has liaised with Mr. Hsu on 2 February 2018 for the complaint matter and he reported to AECOM that the noise was generated until 7:00 pm on 1 February 2018. 3. As advised by Contractor of Contract 1, breaking works at USRT area which opposite to Shing Tat House was	no comment by IEC on 28 Feb 2018	TCS00864/1 6/300/F0140



Log ref.	Complai	Date of Receive d by ET		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									Further to the complaint case, CWSTVJV would seek for other quiet work method such as using drilling machine to reduce noise level and speed up the rock breaking process, so that to reduce the noise intensity level and the duration of exposure.		
25	28-Feb-1 8		Shing Tat House of On Tat Estate		Construction Noise	EPD	NA	安達邨誠達樓居民,投訴 人是返夜班,一年半以來 長期受對出地盤日間揼石 仔噪音滋擾,由於單位與 地盤太近,堅持環保署跟 進及回覆如何處理及減低 噪音,他亦要求知道何日 完工.	Breaking works at Underground Stormwater Retention Tank area which opposite to Shing Tat House was carried out from 8:00 to 18:00. The Contractor has implemented noise mitigation measures to reduce the noise impact to the nearby resident. It was advised that the rock breaking works shall tentatively be completed by end of April and it is believe that the noise impact should be minimized. Since the works were carried out within the non-restricted hours and noise monitoring noise were within acceptable level, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 19 Mar 2018	TCS00864/ 16/300/F01 43
26	11-Apr-1 8	12-Apr-1 8	Him Tat House of On Tat Estate	Residen t of Him Tat House	Construction Noise	SPRO mobile	NA	Mr. Hui Yau Wai reported that the noise irritation was becoming more severe recently and asked about the completion date of the works close to Him Tat House. The resident suspected that the noise comes from piling works	In our investigation, since construction noise was generating from other construction site next to Him Tat House, it is considered that the complaint is due to cumulative noise generated by both construction sites. However, CWSTVJV should properly provide the noise mitigation measures at works area in System B to minimize the noise impact to the resident nearby. As advised by CWSTVJV on 20 April 2018, noise barrier	no comment by IEC on 7 May 2018	TCS00864/ 16/300/F01 60b



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									was being erected at works area in System B as noise mitigation measures. According to the site photo, it is considered that the coverage of noise barrier is not sufficient and CWSTVJV should enhance the measure as far as practicable. The implementation of noise mitigation measures will be kept in view in subsequent site inspection.		
27	25-Apr-1 8		Street and Hiu Ming	11	Construction Noise	EPD	NA	This case is considered a Programme.	s an enquiry and no investigation is rec	uired under	the EM&A
28	18-May- 18	24-May- 18	Anderson Road Quarry Site		Construction Noise	EPD	NA	投訴人指安達臣道石礦場 地盤(NE/2016/01)在入夜 19:00 後仍見到有長臂喉 工程車在運作,及持續產 生大噪音及閃燈,非常擾 民。	before 19:00. It is concluded that the retracting process is not a general	no comment by IEC on 30 July 2018	TCS00864/ 16/300/F01 74b
29	25-Jun-1 8		Connectively E8 under		Waste Management	CEDD	NA	A public complaint was referred from CEDD on 4 July 2018 regarding accumulation of dead	CW-CMGC-JV has immediately clear the dead leaves and maintain the site cleanliness. Since the construction work has not yet commenced and the dead leaves and overgrown branches were not	no comment by IEC on 24 Sep 2018	TCS00864/ 16/300/F01 89b



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				So Lai-chu n					related project works, it is considered that the complaint is not valid the project.		
30	22-Aug-1 8	29-Aug-1 8	Hong Wah Court		Construction	1823 Hotline	NA	吴先生於 2018 年 8 月 22 日致電 1823 熱線投訴,指 馬游塘區堆填區往將軍澳 方向行車入口因配合項目 需要而進行移除山坡工 程,但其鑽地鑿石的噪音 嚴重影響藍田康雅苑*居 民,要求有關部門跟進。* 註:投訴人於 2018 年 8 月 27 日軍正指受影響屋茹	to reduce the inconvenience caused to the nearby resident, Kwan On should properly maintain the noise mitigation measures as appropriate, such as maintain good site practice including intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	by IEC on 7 Sep	TCS00864/ 16/300/F01 96a
31	28-Aug-1 8				Construction Noise	EPD	NA	安達邨誠達樓後面地盤,2 月26日晚,晚上7時後, 還在落石屎,相片拍攝時 間大概晚上9時半,一直 至晚上十一時五十分還有 工程車在地盤行駛。影響 居民休息。	during restricted hours with valid CNP	by IEC on	TCS00864/ 16/300/F01 97a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ret	Date of Complaint
32	6-Sep-18	7-Sep-18	Tsui Yeung House	Residen t of Tsui Yeung House	Constantion	Verbal	NA	Mr. CHENG Keung-fung complained that the contractor has conducted the noisy works such as rock excavation beyond the normal hours.	slope construction will be carried out	by IEC on	TCS00864/ 16/300/F02 01
33	24-Oct-1 8	25-Oct-1 8	E3		Construction Noise	Whatsap p Message	NA	KTDC member, Ms. Ann So, complaining the noise of the breaker at E3	As advised by the Contractor, the acoustic material wrapped on the breaker was worn-out on 24 October 2018 and replacement of new acoustic materials has been installed on the breaker immediately on 25 October 2018. The rock breaking works shall tentatively be completed to the road level in the middle of November 2018 and the mitigation measures will implemented continuously during slope construction work and the slope construction will be carried out within the working hours at Portion 2. It is considered the complaint was an isolate case.	by IEC on	TCS00864/ 16/300/F02 09a
34	12-Nov-1 8	13-Nov-1 8	Anderson Road Quarry Site		Construction	SPRO Hotline	NA	Mr. Hui reported that he received complaint from a resident living in Ching Tat House about noise nuisance recently. Mr. Hui	The SPRO contacted Mr. Hiu and explained to him about the purpose and benefits of the tunnel to the residents nearby and the expected date of completion of the tunnel will be earlier than 2020	by IEC on	TCS00864/ 16/300/F02 22a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				by Mr. Hui Yau Wai)				monitoring to check the noise level at the	had implemented to reduce the noise level effectively and the work progress will be closely updated to nearby stakeholders to enhance communication. Mr. Hiu satisfied with the reply from SPRO and he agreed that the proposed noise monitoring in Ching Tat House was not needed. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no breaches of legislative requirement.		
35	14-Nov-1 8	14-Nov-1 8			Light and Noise	EPD	NA	燈止射民居和機器移動聲	CWSTVJV immediately adjusted the angle and brightness of the lighting to minimize the nuisance to the resident nearby. In response to the complaint, CWSTVJV immediate carried out remedial action to minimize the nuisance to the public. It was considered that complaint for noise generated by machine moving was an isolated case. CWSTVJV was reminded to closely monitor the plant use and sequence of night work and do not to violate CNP conditions.	no comment by IEC on 3 Jan 2019	TCS00864/ 16/300/F02 23a
36	13-Nov-1 8				Noise and dust	1823	NA	postpone the starting time of construction work at project site and also to solve the problem of construction noise and dust.	In our investigation, acoustic barrier and site hoarding were in place along the works area. No noticeable noise and dust impact was observed during the site inspection. As advised by CWSTVJV, the normal working hour of the construction site is 8am to 6pm and there were no violation of the relevant regulations. The senior public relation officer contacted the complainant Ms. Ma on 26 November 2018 to explain the site situation and she	no comment by IEC on 18 Feb 2019	TCS00864/ 16/300/F02 24



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									was satisfied with the reply. Investigation Report has been completed by ET without comment from IEC.		
37	9-Dec-18	12-Dec-1 8	Road ()norry	Undiscl osed	Construction noise	1823	2-492790 7305	2018, which the complainant complained that construction noise was generated from project site on Sunday and was affecting the resident at Hau Tat House, On Tat Estate. The complainant	In our investigation based on the information provided by CWSTVJV, there was no site activities undertaken at site access road as concerned by the complainant. The construction work carried out on Sunday was fully compliance with the CNP requirement. In response to the complaint, CWSTVJV was reminded to closely monitor the plant use and sequence of night work and do not to violate CNP conditions.	by IEC on	TCS00864/ 16/300/F02 30a
38	19-Dec-1 8	27-Dec-1 8	Road Duarry	Undiscl osed	Construction noise	1823	2-494807 4127	1823 has referred a case to CEDD on 27 December 2018, which the complainant complained that noise barriers near the round-about at On Sau Road were not enough, and construction noise generated from the project site was affecting the resident at Ming Tai House, On Tai Estate. The complainant requested follow up actions from related department as soon as possible	observed that noise mitigation measures including temporary noise barrier, acoustic mat and wrapped by acoustic materials are implemented on site. However, CWSTVJV was advised to extend the coverage of noise barrier as far as practicable and fully enclose the concerned works area which has been completed on 15 January 2019. Since the works were	comment by IEC on 31 Jan	TCS00864/ 16/300/F02 37a



Log ref.	Date of Complai nt		Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ret	Date of Complaint
39	24-Jan-1 9	29-Jan-1 9	Road Ouarry	Undiscl osed	wastewater	Referred from DSD	NA	DSD has referred a case to CEDD on 24 January 2019 regarding suspended illegal discharge of cementitious slurry from construction site of Development of ARQ Site to nearby Public Stormwater Drainage System.	from the Anderson Road Quarry Site. It is suspected that the mud and silt found on the downstream has been accumulated over time particularly by rainstorm as well as routine discharge from construction site. As remedial action, CWSTVJV immediately clean the affected area where	by IEC on	TCS00864/ 16/300/F02 48a
40	30-Jan-1 9	30-Jan-1 9	Anderson Road Quarry Site	Undiscl osed	10160	SPRO hotline	NA	A public complaint was received by SPRO hotline on 30 January 2019 regarding the construction noise near Ma Yau Tong Village and requested to add noise barrier as soon as possible.	nearby. The impact monitoring result obtained at Ma Yau Tong Village revealed that the construction noise were within acceptable level.	no comment by IEC on 15 Mar 2019	TCS00864/ 16/300/F02 49a
41	15-Feb-1 9		Anderson Road Quarry Site	Undiscl osed	noise	1823	2-494807 4127	CEDD on 15 February 2019, which the complainant complained about the construction noise generated from the CEDD site near 法源寺 (Ma Yau Tong Village).	In response to the complainant, CWSTVJV has proposed alterative quiet work method to alleviate the noise impact to the public. They will schedule the noisy activities to be carried out after 10am as far as practicable to minimize the impact to resident nearby, given that not affecting the site progress. Moreover, the coverage of acoustic barriers will be extended in view		TCS00864/ 16/300/F02 51a



Log ref.	Date of Complai nt	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
							for the details of works and the completion date, the complainant also requested CEDD to use other construction methods in order to re The resident from Sau			
42	21-Feb-1 9	Anderson Road Quarry Site	Undiscl osed	noise	EPD	NA	Anderson Road Quarry construction site has gotten worse. In addition, sometimes even after midnight there are noise coming from the site. With the echo produces from the environment, this is not helping at all. Really a big disturbance to the residence in the area. The complainant suspecting the sound proof	In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate, such as maintain good site practices such as intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.erway by ET.	no comment by IEC on 28 Mar 2019	TCS00864/ 16/300/F02 50



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	l na rat	Date of Complaint
43	21-Feb-1 9	26-Feb-1 9	Anderson Road Quarry Site	Undiscl osed	noise	received by DEVB and referred to CEDD	NA	A public complaint was received by DEVB and referred to CEDD on 25 February 2019 regarding on the noise generated from the construction works of the Anderson Road Quarry Site affecting a local resident residing at the Anderson Road Squatter Area	brooking duration. In our investigation	no comment by IEC on	TCS00864/ 16/300/F02 52a
44	1-Mar-19	26-Feb-1 9		Undiscl osed	noise	CEDD	NA	A complaint is forwarded by CEDD which was received by KTDC member Mr CHENG Keung Fung from the residents of Tsui Yeung House(翠楊樓) about the noise nuisance generated and the working time up to 7:00 pm from the rock excavation of E3 lift tower. Follow up action is requested.	engineering team. In our investigation,	by IEC on	TCS00864/ 16/300/F02 64



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
45	16-Jun-1 9	18-Jun-1	Road Ouarry	Undiscl osed	noise	EPD	NA	EPD referred a case to CEDD on 17 June 2019 regarding the construction noise heard at On Tat Estate on Sunday.	Since the work did not involve the use of Deward Machanical Equipment (DME) it	no comment by IEC on 21 August 2019	TCS00864/ 16/300/F03 01a
46	12-Jul-19	15-Jul-19	Anderson Road Quarry Site	Undiscl osed	dust	EPD	NA	On 12 July 2019, a complaint was received by EPD regarding the dust impact to the residents at Po Tat Estate and On Tat Estate due to the dust emission at Anderson Road Quarry site.	July 2010 in trained minut according Home	no comment by IEC on 12 August 2019	



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
47	6-Aug-19	14-Aug-1 9	Work Area Portion 2 E3 (Slope of Hiu Ming Street opposite of Tsui Yeung House)	(北)邨 物業服 務辦事	Noise	1823	NA	noise generated from construction work at the lift tower site (Slope E3) at Hui Ming Street from the residents of Tsui Yeung House. The complainant expressed that the construction works has been undertaken for 2 years and generated construction noise from	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. It is concluded that the complaint was valid to the contract. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance.	no comment by IEC on 16 Sep 2019	TCS00864/ 16/300/F03 10a
48	15-Oct-1 9	18-Oct-1 9	Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Interchange Pedestrian Connectivity Facilities E12)		Noise	1823	NA	received by 1823 on 15 October 2019 relating to the noise generated from construction work at Tseung Kwan O Tunnel Bus to Bus Interchange Pedestrian Connectivity Facilities E12. The complainant expressed that the construction noise was generated from breaking work at 8:20 am without noise mitigation measure, which caucing puisance to	implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as	by IEC on 13 Nov	TCS00864/ 16/300/F03 26a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
49	5-Nov-19	11-Nov-1 9	Work Area Portion 2&3 (lift tower construction work at Hiu Kwong Street)	NA	Noise	EPD	NA	A public complaint was received by EPD relating to the noise generated from breaking work of lift tower construction work at Hiu Kwong Street (Portion 2&3).	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 32a
50	7-Nov-19		Work Area Portion 6	Mr. Cheng	Noise	EPD	NA	寶達邨居民鄭先生,表示 將軍澳隧道出口工程,日 間噪音嚴重,8:30-17:00, 幾部幾同時開動,而且無 防音欄,之前是有,現要 求環保署向對方反映改善	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 33a

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51	10-Nov-1 9	12-Nov-1 9	Underpass	Undiscl osed	Noise	EPD	NA	將來通車,相信噪音不只 8-6,現懇請環保署為本村 居民正式評估,並向政府 提出村民困擾,考慮盡快 設置隔音屏。 On 11 November 2019 寶琳路近馬游塘村開掘隧 道 的 工 程 地 盤 每 日	legislative requirement. For the complainant's concern on the operation noise after commencement of the project, it is out of the scope of the EM&A programme and the relevant department	no comment by IEC on 30 Dec	TCS00864/ 16/300/F03 37



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ret	Date of Complaint
52	11-Nov-1 9	20-Nov-1 9	Construction site near on Tai Estate Ancillary Facilities Building on On Sau Road	Mr. Wong (residen t of Yung Tai House of On Tai Estate)	Noise	1823	ref. 2-597630 3183	黃先生投訴安秀道安泰邨 服務設施大樓附近掘路工 程已持續數年還未完成, 並投訴其經常發出噪音滋 擾,要求部門跟進。On 22 November 2019, the project hotline received a call from the same complainant reported on the noise nuisance near On Sau Road and On Yan Street. He suggested to speed up the noise making works by intensely concentrate the excavation works during day time. No intermittence is suggested in order to speed up the works and to avoid waste of manpower.	Contractor was advised to enhance the performance of the temporary noise barriers such as increase the coverage of the noise barrier. Since the works were conducted within normal working hours with implementation of noise mitigation measures, there were no breaches of legislative requirement.	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 38a
53	5-Mar-20	6-Mar-20	Tunnel work of Anderson Road Quarry Site (the Underpass)	Residen		EPD	NA	complaint was received by EPD on 5 March 2020 regarding the construction	mat at boundary of System A. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.	by IEC on	TCS00864/ 16/300/F03 57a



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								mentioned that the noise from construction was improved before but it became serious recently.			
54	4-Mar-20	17-Mar-2 0	Near Hiu Ming Street Playground (E8)	Undiscl osed	Noise	1823	ref. 3-628323 7171	不斷發出強烈的嘈音,投 訴人表示地盤是在曉明街 藍球場旁邊的位置(投訴 人未能告知確實街號), 因此要求部門盡快回覆及 告知有關情況。 A public complaint was received by 1823 on 4 March 2020 regarding the construction noise. The complainant	In our investigation, CW-CMGCJV had implemented the noise mitigation measures for the works at upper section of E8 near Hiu Yuk Path and no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. It is considered that the complaint is likely related to another construction site located near Hiu Ming Street Playground and not caused by the works under the Project. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.	no comment by IEC on 15 Apr	TCS00864/ 16/300/F03 59a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
55	23-Mar-2 0		Near Lin Tak Road (E11)		Project hotline	NA	面,估計泥水是清洗工程 車輛所致,令梁先生的車 輛每次駛經時被濺濕及弄 污,請問有何措施改善問 題? A public complaint was received by project hotline on 23 March 2020 regarding overflow of	muddy water from the site was observed and the condition of concerned Lin Tak Road was satisfactory. It is considered that the complaint was unlikely due to the project.	no comment by IEC on 15 Apr 2020	TCS00864/ 16/300/F03 60a
56	17-Mar-2 0	19-Mar-2	Anderson Road Quarry Site	Residen t of Yan Tat House	Project hotline	NA	仁達樓 2613 室居民反 映,安達臣道石礦場發展 用地工程噪音持續兩年, 要求工程團隊下周派員到 有關單位視察,並採取可 行的噪音緩解措施。許有 為區議員要求陪同視察。 A public complaint was received by hotline on 17 March 2020 regarding the	In our investigation, CW-CMGCJV has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. However, to eliminate the inconvenience caused to the nearby residents, CW-CMGCJV was advised to further adopt good practices on mitigating construction noise to reduce the noise impact to the nearby residents. 5. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance.	no comment by IEC on	TCS00864/ 16/300/F03 61a



Log ref.	Compiai	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
							Anderson Road Quarry Site. The complainant mentioned that the	Nevertheless, as the construction site is close to the residential area, CW-CMGCJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.		
57	1-Apr-20	Work Area Portion 2	Undiscl osed	Noise	1823	NA	觀塘秀茂坪紀念公園傍及 曉明街的地盤,共兩個地 盤,是地政總署管轄的。 投訴人表示已被工程噪音 滋擾了兩年多;另外投訴 人得知完工時間要到 2021年,投訴人不明白為 何工程頭尾要3年多時間. 要求地政總署直接以電郵 回覆工程長的原因及有沒 有措施解決地盤發出的噪 音。 A public complaint was received by 1823 on 1 April 2020 and subsequently transmitted to Environmental Team (ET) on 20 April 2020, regarding the noise	Implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. It is concluded that the complaint was valid to the contract. However, as the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 7 May 2020	TCS00864/ 16/300/F03 66a



Log ref.	Compiai	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								noise mitigation measures to alleviate the noise impact arising from the construction work.			
58	11-May- 20		Work Area Portion 2	Undiscl osed	Noise	Project hotline	NA	public complaint was received by Project Hotline on 11 May 2020 regarding the noise generated from rock breaking work from a construction site opposite to Tsui Yeung House, which affecting his mother's health. The complainant enquired about the completion date	In our investigation, Kwan On has enhanced the noise mitigation measures to reduce the noise impact to the nearby resident. Based on the noise measurement result, the construction noise was reduced to acceptable level after the additional noise mitigation measures in place. Nevertheless, Kwan On was reminded to continually implement the noise mitigation measures as far as practicable in the remaining work. The performance of noise mitigation measures will keep in view by ET in subsequent site inspection	no comment by IEC on 28 May 2020	TCS00864/ 16/300/F03 70a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
59	18-Jun-2 0	0	Anderson Road Quarry Site, System B		Noise	EPD	NA	Tat House. The complainant understood that the Contractor could carry out construction works, other than percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be carried out before 6pm.	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 17 July 2020	TCS00864/ 16/300/F03 91a
59#	23-Jul-20	24-Jul-20	Anderson Road Quarry Site near On Tat Estate	Undiscl osed	Noise	EPD	NA	A public complaint was received by EPD on 23 July 2020 regarding the construction noise generated from the use of PME at Anderson Road Quarry Site near On Tat Estate at 6:30am (restricted	In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement. Nevertheless, as the construction site is	comment by IEC on	



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								relevant department to follow up.	close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme		
60	14-Nov-2 0	18-Nov-2 0	Near Hiu Ming Street Playground (E8)	Undiscl osed	Noise	1823	NA	A public complaint was received by 1823 on 14 November 2020 regarding the construction noise. The complainant mentioned that there was piling works at Hiu Ming Street Playground, generating huge noise during 9AM to 10AM on 14 November 2020. He/she requested relevant department to follow up	In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 24
61	4-Dec-20	7-Dec-20	Opposite to On Tai Estate – lower portion of Road L4	Undiscl osed	Dust	EPD	NA	A public complaint was received by EPD on 4 December 2020 regarding the dust impact. The complainant mentioned that the construction site opposite to On Tai Estate had dust emission problem due to lack of water spraying. He/she requested relevant department to follow up	In our investigation, CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. In view of the potential traffic dust impact and implementation of dust mitigation measures, it is considered that the complaint was not valid to the Project	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 34
62	3-Dec-20		Ma Yau Tong Village (East Portal)	Undiscl osed	Noise and dust	1823 & EPD	3-657414 1017	A public complaint was received by 1823 and EPD on 14 November 2020	In our investigation, CWSTVJV had provided the dust and noise mitigation measures to minimize the dust and noise	no comment by IEC on	TCS00864/ 16/300/F04 35



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref	Date of Complaint
								regarding the construction dust and noise impact arising from the project. There were acoustic mats erected on the slope of East Portal, however, the complainant enquired about effectiveness of the noise barriers with dozens of 15 cm "X"-shaped cuts. Moreover, there was lack of water sprinkling on the site and fugitive dust was blowing to the village	impact to the resident nearby. To response the concern from the complainant, as enhancement noise measure, the Contractor extended the noise barrier to encircle noisy activity. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement	4 January 2021	
63	7-Jan-21	7-Jan-21	System B	Residen t of Yan Tat House	Noiso	Project hotline	NA	Yau-wai and received by project hotline on 7 January 2021 regarding the	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public.6. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on	TCS00864/ 16/300/F04 41



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
64	18-Mar-2 1	18-Mar-2 1	Anderson Road Quarry Site (between On Tat Estate and On Tai Estate)	osed	Noise	1823 & EPD	NA	generated from construction works at Anderson Road Quarry Site between On Tat Estate and On Tai Estate. The complainant expressed that construction works of the site started from 6:45am everyday which causing	In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 1 April 2021	TCS00864/ 16/300/F04 54
65	1-Apr-21	1-Apr-21	Construction site near SKH St. John's Tsang Shiu Tim Primary School (System B under Contract 3)	Undiscl osed	Noise	EPD	NA	by EPD and referred to CEDD on 1 April 2021 regarding the construction noise. The complainant mentioned that piling work was conducted at construction site near SKH St. John's Tsang Shiu Tim Primary School in recent week which generated noise problem. Moreover, there were no noise mitigation measures provided in the	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Moreover, the Contractor has adopted noise mitigation measures to minimise noise impact to the public. Since the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment	TCS00864/ 16/300/F04 58a

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66	28-Mar-2 1	30-Mar-2 1	Road Quarry Site (between On Tat Estate and On Tai	Fung House of On	Noise	EPD	K13/RE/ 0000708 6-21	A public complaint was received by EPD on 28 March 2021 regarding the construction noise generated from construction works at Anderson Road Quarry Site until 9pm on Monday to Saturday. Moreover, the complaint concerned about the construction noise heard on 28 March 2021 which was a Sunday.	In our investigation, CWSTVJV had followed that CNP for work during restricted hour and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, some site areas had been handed over to other contract and construction noise generated from others is not controlled by the project. As a reminder, CWSTVJV should implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 22 April 2021	TCS00864/ 16/300/F04 59
67	11-Jun-2 1	11-Jun-2 1	Anderson Road Quarry Site	Residen t of Chi Tat House, On Tai Estate	Noise	EPD	EPD Ref.: 13208-21	A public complaint was received by EPD on 11 June 2021 and complained about noise nuisance from multiple construction sites on Anderson Road Quarry Site. The complainant stated that there were noise nuisances from different construction sites from 0800 am to 1800 pm from Monday to Saturday without adequate noise mitigation measures. On 17 June 2021, the	response to the complaint, CWSTVJV had immediately installed a layer of acoustic barrier at boundary of concern works area. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of	comment	TCS00864/ 16/300/F04 78a





Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								and no mitigation measure was implemented for the rock breaking works.			
68	20&21/Ju ne/21		Anderson Road Quarry Site	DSD	Water Quality	EPD	EPD Ref.: 13208-21	EPD received complaints from DSD on 20 and 21 July 2021 concerning about discharge of muddy water as found on Po Lam Road and at the drainage facility near Tin Hau temple.	In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising from the construction site. In view of the site condition and inclement weather condition on the complaint days, it is considered that the complaints raised by DSD were unlikely due to the C1 Project. Nevertheless, CWSTVJV was advised to closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed.	no comment by IEC on 6 August 2021	TCS00864/ 16/300/F04 85b
69	14&16/S ep/21	- 21	Anderson Road Quarry Site	DSD	Water Quality	EPD	NA	from DSD on 14 Sep 2021 and 16 Sep 2021 concerning about discharge of muddy water as found at the catchpit SCH4003250 near Po Lam Road and catchpit SSH4001400 near Po Tat Tin Hau Temple.	In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising from the construction site. However, there were incidents of seepage of silty water at Q2 and Q3 and rectified actions were undertaken immediately. Having investigated, the incidents were considered very short term and would not generate large amount of muddy water. In view of the inclement weather condition and there were other major sources, it is considered that the complaints raised by DSD were not fully contributed byC1 Project. Nevertheless, CWSTVJV was advised to	6 October	



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed.		
70	23/Sep/2 1	29-Sep-2 1	Anderson Road Quarry Site	CEDD & EPD	Noise	CEDD &EPD	NA	A public complaint was referred by 1823 to both CEDD and EPD on 23 September 2021. The complainant stated that the construction works at Anderson Road Quarry Site started before 7am, which generated construction noise and affecting the upper floor resident of On Tat Estate. EPD have contacted the complainant and clarify that the concerned about construction dust and daytime construction noise after 7am.	Our investigation revealed that there was no construction works under the Project undertaken during the concerned period by the complainant, and there were other concurrent contracts on Anderson Road Quarry Site and the contribution noise may be related to others. Therefore, it is considered that the noise complaint was unlikely to be related to the works under the Project. Nevertheless, CWSTVJV was reminded to properly maintain the noise mitigation measures as far as practicable considering the construction site is relatively close to residential area.	No comment by IEC on 15 November 2021	
71	30/Mar/2 2		Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD on 28 March 2022 concerning about siltation and discharge of muddy water observed at the public drainage system	In our investigation, the Contractor had implemented the water quality mitigation measures to minimise the impact arising from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the	No comment by IEC on 19 April 2022	TCS00864/ 16/300/F05 40



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								at catchpit SSH4001400 near Tin Hau Temple and the site discharge points at Po Lam Road on 28 March 2022	interfacing contractors under rainy days and not due to the works under the Project.		
72	14/Apr/2 2	25/Apr/2 2	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	DSD carried out site inspection at site discharge point at Po Lam Road on 12 April 2022 and observed discharge of muddy water at public drainage system. The case was then referred to CEDD and EPD to investigate the source of the muddy water discharge.	In our investigation, the Contractor had implemented the water quality mitigation measures to minimise the impact arising from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the interfacing contractors and not due to the works under the Project.	No comment by IEC on 16 May 2022	TCS00864/ 16/300/F05 41
73	11/May/ 2022		Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD on 11 May 2022 concerning about muddy water observed entering Tsui Ping River, with similar situation observed at Tin Hau Temple and Po Lam Road.	Based on the above findings and successive heavy rainstorm on 11 to 13 May 2022, it is considered the muddy water found in the concerned catchpit SSH4001400 near Tin Hau Temple and Po Lam Road on 11 to 13 May 2022 were likely caused by impact of rainstorm and partially contributed by the interfacing contractors at Sites R2-9 & R2-10.	No comment by IEC on 13 June 2022	TCS00864/ 16/300/F55 9
74	17/May/2 022		Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	about muddy water	Heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that complaint mainly related to the interfacing contractor(s) and unlikely to	No comment by IEC on 13 June 2022	TCS00864/ 16/300/F56 2a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
75	27/May/2 022	9/Jun/202 2	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD on 27 May 2022 concerning about muddy water observed entering Tsui Ping River, with similar situation observed at Tin Hau Temple and Po Lam Road.	have been caused by the project. Heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project.	No comment by IEC on 13 June 2022	TCS00864/ 16/300/F56 3
76	6, 7, 8/J un/2022	11n/(11)/(1)	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	Ping River this morning at the upstream near junction of Kai Lim Road and Tsui Ping Road. The situation has persisted over 50 mins.	caused by the project.	Sent to EPD on 21 June 2022	TCS00864/ 16/300/F56 5
77	14/Jun/20 22	15/Jun/20 22	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	DSD concerning muddy water discharge found at Tin Hau Temple and Po	As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that		TCS00864/ 16/300/F56 6



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project.		
78	8/Aug/20 22	·) ·)	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	muddy water was observed entering Tsui Ping River in the morning of 8 August	drainage system. No muddy water discharge was evident in the morning or afternoon of 8 August 2022. It is therefore	No comment by IEC on 19 September 2022	TCS00864/ 16/300/F58 0
79	12/Aug/2 022	12/Aug/2 022	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	muddy water was observed entering Tsui Ping River in the morning of 12 August 2022 with similar situation	As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. No muddy water discharge was evident in the morning of 12 August 2022. It is therefore considered that the muddy water discharge observed by DSD in the morning of 12 August 2022 was unlikely to have been caused by the ARQ contracts of C1 or C4.	No comment by IEC on 19 September 2022	TCS00864/ 16/300/F58 1
80	29&30/ Sep/2022	29/Sep/ 2022 & 3 Oct 2022	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	DSD	NA	made to EPD who requested CEDD in the	As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. No muddy water	EPD on 18 October	TCS00864/ 16/300/F59 3

CEDD Service Contract No. EDO 12/2023
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (April 2025)



Log ref.	Complai		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	l na rat	Date of Complaint
								procedure in EM&A Manual.	discharge from ARQ Site was evident in the morning of 29 and 30 September 2022. It is therefore considered that the muddy water discharge observed by DSD in the morning of 29 and 30 September was unlikely to have been caused by the ARQ contracts of C1 or C4.		
									During wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the discharge quality from the Site to avoid non-compliance. The ET will pay special attention on water quality mitigation measures implementation on site through regular site inspection, and give advice on remedial action when necessary.		
									Incidentally, it is noted that Site R2-9 has kept discharging muddy water to downstream manhole D310. Record photos of the manhole dated 6, 7 and 8 October 2022 are enclosed for reference.		
81	18/Oct/ 2022	20/Oct/ 2022	Anderson Road Quarry (ARQ) Site	DSD	Dust Quality	Referred by 1823 to EPD	NA	referred by 1823 to EPD on 18 October 2022, regarding the dust problem generated from the construction site in Anderson Road near On Tai Estate due to typhoon	In our investigation, both the Contractors had implemented dust mitigation measures to reduce to potential impact to the public. However, in particular during dry season, Contract 4 was reminded to enhance the dust suppressive measures as far as practicable. As there were no air monitoring results exceeding the limit level, it is considered that the dust	EPD on 3 November	TCS00864/ 16/300/F59 6



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								who was a resident of Shing Tai House, On Tai Estate. The complainant expressed concern about the construction dust generated from Anderson Read Overry (APO) site	Nevertheless, as the construction site is close to the residential area, both the Contractors were reminded to implement the mitigation measures as far as prosticable as recommended in the EM s A		
82	17/May/2 023	19/May/2 023	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD concerning muddy water was observed entering Tsui Ping River from the upstream in the afternoon of 17 th May 2023, with similar situation at Po Lam Road (山渠)。 The case was then referred from EPD to CEDD for follow-up. Environmental Team (ET) initiated the handing procedure in accordance with the Environmental Monitoring & Audit Manual to investigate whether it is related to the Project of Development of Anderson Road Quarry (ARQ) Site.	As a matter of fact, the heavy rains led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. There was no evident muddy water discharge from ARQ Site in the afternoon of 17 th May 2023. Therefore, it is considered unlikely that the muddy water discharge observed by DSD in the afternoon of 17 May 2023 was caused by the ARQ contracts of Contract 1 or Contract 4. During the wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the quality if the discharge from the Site to avoid non-compliance. The ET will pay special attention to the implementation of water quality mitigation measures on site through regular site	Sent to EPD on 29 May 2023	TCS00864/ 16/300/F64 3



Log ref.	Date of Complai nt	Docoivo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	l og rot	Date of Complaint
									inspections, and provide advice on remedial action when necessary.		
83	4 July 2 023	4 July 2 023	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD concerning muddy water was observed entering Tsui Ping River from the upstream in the morning of 4 July 2023, with similar situation at Po Lam Road (山渠).	As a matter of fact, the heavy rains led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. There was no evident muddy water discharge from ARQ Site in the morning of 4 July 2023. Therefore, it is considered unlikely that the muddy water discharge observed by DSD in the morning of 4 July 2023 was caused by the ARQ contracts of Contract 1 or	EPD on 18 July 2023	TCS00864/ 16/300/F65 3
84	19 Jan 2 024	23 Jan 2 024	On Kin Road, Anderson	KTDC membe r Mr. Hsu Yau-wa i	Noise Quality	EPD	NA	received by EPD Regional Office (East) on 19 January 2024 regarding the construction noise generated from	As advised by the RE of Contract 4, under CEDD Contract No. ED/2020/02, the Contractor was required to lift 9 precast beams of an elevated walkway. The works was carried out over for four consecutive nights starting from 16 January 2024 and has already completed. The Contractor	Sent to EPD on 29 January	TCS00864/ 16/300/F68 4a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								Quarry (CEDD Contract No. ED/2020/02) at night from 10pm to 6am.	possessed a valid Construction Noise Permit (CNP) (GW-RE0030-24) from 15 to 24 January 2024. The Contractor also confirmed that lift beams work was undertaken on On Kin Road between 16 to 20 January 2024. These works were conducted from 23:00 to 02:00 and involve the use of a crane as the only PEM, which complied with the relevant CNP (GW-RE0030-24). To mitigation noise impact on the public during nighttime, a series of acoustic mats were erected around the work area.		
85		23 and 2 6 Apr 2 024	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	EPD	NA		 (a) The wastewater treatment facilities were implemented and properly functioned. (b) To minimize the generation of muddy water, the exposed areas were covered either with an impervious sheet or 	Sent to EPD on 6 May 2024	TCS00864/ 16/300/F69 8a



Log ref.	Date of Complai nt	Receive	Complaint Location		Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
86	6 May 2 024	6 May 2 024	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	EPD	NA	EPD received complaint from DSD concerning muddy water was observed entering Tsui Ping River from the upstream on 6 May 2024, with similar situation at the catchpit at Tin Hau Temple.	 To minimize the generation of muddy water, the exposed areas were covered either with an impervious sheet or 	Sent to EPD on 20 May 2024	TCS00864/ 16/300/F70 1a
87	20 May 2024	20 May 2024	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	EPD	NA	from DSD concerning muddy water was observed	implementation of mitigation measures were summarized below:	Sent to	TCS00864/1 6/300/F0702 a



L0g ref	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									 functioned. To minimize the generation of muddy water, the exposed areas were covered either with an impervious sheet or through hydroseeding. Sump pits were constructed at the lowest point of the work area to store continuous rainfall, which helps prevent overload of wastewater treatment facilities were and ensures wastewater was properly treated before discharge to the designated discharge points. 		
88		10 Septe mber 20 24	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	EPD	NA	EPD received complaint from DSD concerning muddy water was observed entering Tsui Ping River (TPR) from the upstream at Tin Hau Temple in the morning of 9 September 2024.	 (a) The wastewater treatment facilities were implemented and properly functioned. 	Sent to EPD on 23 September 2024	TCS00864/1 6/300/F0718 a



Log ref.	Compiai		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									wastewater treatment facilities and ensures wastewater was properly treated before discharge to the designated discharge points.		
89		20 Dece mber 20 24	Anderson Road Quarry (ARQ) Site	Public	Dust and Muddy Water	EPD	NA	泥水流出地盤,直接流到 外面雨水渠。大型地盤車 輛,泥頭車無洗車設施離 開地盤,成條街道沙塵, 經常吹到成條街沙塵滾滾	 site E3, but transportation of stockpiles and materials for storage in Site E3. Site inspection was carried out by the Contractor, the observation during site inspection on 15 and 18 December 2024 are summarised as follow. (a) As dust mitigation measures, sandy stockpile was covered and water spraying was provided to reduce dust impact. (b) Vehicular access roads under Contract 3 were hard paved on haul road at exit point and sprayed continuously by water bowser to minimize generation of fugitive dust. (c) Vehicle wheel and body washing was provided before leaving site and facilities were constructed to collect wastewater from wheel washing to prevent muddy water runoff from site. (d) Mechanical cover for dump truck 	Sent to EPD on 30 December 2024	TCS00864/1 6/300/F0730 a



Log ref.	Date of Complai nt		Complaint Location		Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								excavator was operation and fugitive dust was blowing to the street.			
90	22 Janua ry 2025	23 Janua ry 2025	Anderson Road Quarry (ARQ) Site	DSD	Muddy Water	EPD	NA	Muddy water was observed from the upstream drainage systems collecting discharged from the development sites of ARQ. EPD received complaint from DSD concerning muddy water discharge was observed from the upstream drainage systems collecting discharges from the development sites of ARQ on 22 January 2025. As the muddy water would finally enter Tsui Ping River (TPR) and causes pollution problem to TPR.	As advised by the RSS and the Contractor of Contract 1, the majority of the Contract 1 area has been handed over to other contracts on ARQ Site (such as building contract). Each of these interfacing contractors should have been granted a licence for discharge under the Water Pollution Control Ordinance. The discharge points of ARQ Site were located at Q2 and catchpit at Po Lam Road. The remaining area under Contract 1 were some hard paved roads within the ARQ Site. There were no water quality impact anticpated for Contract 1 from the remaining works. Joint site inspection among the RSS, Contractor of Contract 4 and ET was carried out on weekly basis to audit the environmental performance. The implementation of mitigation measures were summarized below:- (a) The wastewater treatment facilities were implemented and properly functioned. (b) To minimize the generation of muddy water, the exposed areas were covered either with a tarpaulin sheet or through hydroseeding. (c) Temporary water storage areas	Sent to EPD on 10 February 2025	TCS00864/1 6/300/F0738 a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									were constructed at the lowest point of the work area to store continuous rainfall, which helps prevent overload of wastewater treatment facilities and ensures wastewater was properly treated before discharge to the designated discharge points.		
91	27 and 2 8 Februa ry 2025	28 Febru ary and 1 March 2025	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	EPD	NA	During DSD's site inspection at ARQ Site Underground Stormwater Retention (USTR) Tank on 27 Feb 2025, continuous inflow of muddy water, construction debris and cementitious material into the tank was observed. Additionally, discharge of tar from the upstream	Water Pollution Control Ordinance. The remaining work under Contract 1 includes recent road resurfacing. However, based on the work nature and lack of rainfall in recent weeks, the release of cementitious material, muddy water and tar into the USRT were not anticipated. Joint site inspection among the RSS, Contractor of Contract 4 and ET was carried out on weekly basis to audit the environmental performance. The implementation of mitigation measures	Sent to EPD on 5 March 2025	TCS00864/1 6/300/F0742 b



ref.	Date of Complai nt	Date of Receive d by ET	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	l na rat	Date of Complaint
									tarpaulin sheet or through hydroseeding. (f) The haul road under Contract 4 was hard-paved to minimize the generation of muddy water, and no muddy runoff from the site was observed.		



Appendix N

Implementation Status for Water Quality Mitigation Measures

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Water Quality Mitigation Measure



cu.m per hour + WETSEP